

Package ‘baseballr’

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Title Acquiring and Analyzing Baseball Data

Version 1.6.0

Description Provides numerous utilities for acquiring and analyzing baseball data from online sources such as 'Baseball Reference' <<https://www.baseball-reference.com/>>, 'FanGraphs' <<https://www.fangraphs.com/>>, and the 'MLB Stats' API <<https://www.mlb.com/>>.

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URL <https://billpetti.github.io/baseballr/>,
<https://github.com/BillPetti/baseballr>

BugReports <https://github.com/BillPetti/baseballr/issues>

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| | |
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| batter_game_logs_fg | (legacy) Scrape Batter Game Logs from FanGraphs |
|---------------------|--|

Description**(legacy) Scrape Batter Game Logs from FanGraphs****Usage**

```
batter_game_logs_fg(playerid, year)
```

Arguments

| | |
|----------|---|
| playerid | This is the playerid used by FanGraphs for a given player |
| year | The season for which game logs should be returned (use the YYYY format) |

Value

A data frame of batter game logs.

| | |
|------|--|
| bref | Baseball Reference Functions Overview |
|------|--|

Description

```
bref_daily_batter() Scrape Batter Performance Data Over a Custom Time Frame
bref_daily_pitcher() Scrape Pitcher Performance Data Over a Custom Time Frame
bref_standings_on_date() Scrape MLB Standings on a Given Date
bref_team_results() Scrape Team Results
```

Details**Scrape Batter Performance Data Over a Custom Time Frame:**

```
bref_daily_batter("2015-05-10", "2015-06-20")
```

Scrape Pitcher Performance Data Over a Custom Time Frame:

```
bref_daily_batter("2015-05-10", "2015-06-20")
```

Scrape MLB Standings on a Given Date:

```
bref_standings_on_date(date = "2015-08-04", division = "AL East")
```

Scrape Team Results:

```
bref_team_results("NYM", 2015)
bref_team_results(Tm="TBR", year=2008)
```

Team Level Consistency:

Uses `bref_team_results()` to calculate team consistency metrics

```
team_consistency(year=2015)
```

bref_daily_batter Scrape Batter Performance Data Over a Custom Time Frame

Description

This function allows you to scrape basic batter statistics over a custom time frame. Data is sourced from Baseball-Reference.com.

Usage

```
bref_daily_batter(t1, t2)
```

Arguments

| | |
|----|---|
| t1 | First date data should be scraped from. Should take the form "YEAR-MONTH-DAY" |
| t2 | Last date data should be scraped from. Should take the form "YEAR-MONTH-DAY" |

Value

Returns a tibble of batter performance with the following columns:

| col_name | types |
|----------|-----------|
| bbref_id | character |
| season | integer |
| Name | character |
| Age | numeric |
| Level | character |
| Team | character |
| G | numeric |
| PA | numeric |
| AB | numeric |
| R | numeric |
| H | numeric |
| X1B | numeric |
| X2B | numeric |
| X3B | numeric |
| HR | numeric |

| | |
|-----|---------|
| RBI | numeric |
| BB | numeric |
| IBB | numeric |
| uBB | numeric |
| SO | numeric |
| HBP | numeric |
| SH | numeric |
| SF | numeric |
| GDP | numeric |
| SB | numeric |
| CS | numeric |
| BA | numeric |
| OBP | numeric |
| SLG | numeric |
| OPS | numeric |

Examples

```
try(bref_daily_batter(t1="2015-05-10", t2="2015-06-20"))
```

| | |
|--------------------|---|
| bref_daily_pitcher | Scrape Pitcher Performance Data Over a Custom Time Frame |
|--------------------|---|

Description

This function allows you to scrape basic pitcher statistics over a custom time frame. Data is sourced from Baseball-Reference.com.

Usage

```
bref_daily_pitcher(t1, t2)
```

Arguments

| | |
|----|---|
| t1 | First date data should be scraped from. Should take the form "YEAR-MONTH-DAY" |
| t2 | Last date data should be scraped from. Should take the form "YEAR-MONTH-DAY" |

Value

Returns a tibble of pitcher performance with the following columns:

| | |
|----------|-----------|
| col_name | types |
| bbref_id | character |

| | |
|----------|-----------|
| season | integer |
| Name | character |
| Age | numeric |
| Level | character |
| Team | character |
| G | numeric |
| GS | numeric |
| W | numeric |
| L | numeric |
| SV | numeric |
| IP | numeric |
| H | numeric |
| R | numeric |
| ER | numeric |
| uBB | numeric |
| BB | numeric |
| SO | numeric |
| HR | numeric |
| HBP | numeric |
| ERA | numeric |
| AB | numeric |
| X1B | numeric |
| X2B | numeric |
| X3B | numeric |
| IBB | numeric |
| GDP | numeric |
| SF | numeric |
| SB | numeric |
| CS | numeric |
| PO | numeric |
| BF | numeric |
| Pit | numeric |
| Str | numeric |
| StL | numeric |
| StS | numeric |
| GB.FB | numeric |
| LD | numeric |
| PU | numeric |
| WHIP | numeric |
| BAbip | numeric |
| SO9 | numeric |
| SO.W | numeric |
| SO_perc | numeric |
| uBB_perc | numeric |
| SO_uBB | numeric |

Examples

```
try(bref_daily_pitcher("2015-05-10", "2015-06-20"))
```

bref_standings_on_date

Scrape MLB Standings on a Given Date

Description

This function allows you to scrape the standings from MLB for any date you choose.

Usage

```
bref_standings_on_date(date, division, from = FALSE)
```

Arguments

| | |
|----------|---|
| date | a date object |
| division | One or more of AL East, AL Central, AL West, AL Overall, NL East, NL Central, NL West, and NL Overall |
| from | a logical indicating whether you want standings up to and including the date (FALSE, default) or rather standings for games played after the date |

Value

Returns a tibble of MLB standings with the following columns:

| col_name | types |
|----------|-----------|
| Tm | character |
| W | integer |
| L | integer |
| W-L% | numeric |
| GB | character |
| RS | integer |
| RA | integer |
| pythW-L% | numeric |

Examples

```
try(bref_standings_on_date(date = "2015-08-04", division = "AL East"))
```

| | |
|-------------------|----------------------------|
| bref_team_results | Scrape Team Results |
|-------------------|----------------------------|

Description

This function allows you to scrape schedule and results for a major league team from Baseball-Reference.com

Usage

```
bref_team_results(Tm, year)
```

Arguments

- Tm The abbreviation used by Baseball-Reference.com for the team whose results you want to scrape.
- year Season for which you want to scrape the park factors.

Value

Returns a tibble of MLB team results and the following columns:

| col_name | types |
|----------------|-----------|
| Gm | numeric |
| Date | character |
| Tm | character |
| H_A | character |
| Opp | character |
| Result | character |
| R | numeric |
| RA | numeric |
| Inn | character |
| Record | character |
| Rank | numeric |
| GB | character |
| Win | character |
| Loss | character |
| Save | character |
| Time | character |
| D/N | character |
| Attendance | numeric |
| cLI | numeric |
| Streak | numeric |
| Orig_Scheduled | character |
| Year | numeric |

Examples

```
try(bref_team_results("NYM", 2015))
try(bref_team_results(Tm="TBR", year=2008))
```

chadwick

Chadwick Bureau Register Player Lookup**Description**

chadwick_player_lu(): Directly download the Chadwick Bureau's public register of baseball players and the various IDs associated with them in different systems of record.

playername_lookup(): Look up Baseball Player Name.

playerid_lookup(): Look up Baseball Player IDs.

Details**Directly download the Chadwick Bureau's public register of baseball players.:**

```
chadwick_player_lu()
```

Look up baseball player name by ID:

```
playername_lookup(4885)
playername_lookup("kaaihki01")
```

Look up baseball player IDs by player name:

```
playerid_lookup("Garcia", "Karim")
```

chadwick_path

Check Chadwick installation**Description**

Utility functions to help ensure that Chadwick is set up correctly.

The easiest way for the **Chadwick CLI** tools to work on *nix systems is to set the LD_LIBRARY_PATH environment variable. Unfortunately this environment variable is not set by default during the Chadwick installation.

chadwick_ld_library_path() checks to find the Chadwick shared libraries, and then set the LD_LIBRARY_PATH environment variable. If chadwick_ld_library_path() returns TRUE, the cwevent command line program that [retrosheet_data](#) depends on should work.

The other functions documented here are mostly for internal use.

Usage

```
chadwick_path()

chadwick_is_installed()

chadwick_find_lib()

chadwick_set_ld_library_path()

chadwick_ld_library_path()
```

Value

If Chadwick is not installed NULL. If Chadwick is installed, the path to the cwevent binary.
 TRUE or FALSE
 Path to the Chadwick shared library.

See Also

[retrosheet_data\(\)](#)

Examples

```
chadwick_path()

chadwick_is_installed()

chadwick_find_lib()
## Not run:
if (chadwick_ld_library_path()) {
  retrosheet_data(tempdir())
}

## End(Not run)
```

| | |
|--------------------|---|
| chadwick_player_lu | Download the Chadwick Bureau's public register of baseball players |
|--------------------|---|

Description

Download the Chadwick Bureau's public register of baseball players

Usage

```
chadwick_player_lu()

get_chadwick_lu()
```

Value

A data frame of baseball players and the various IDs associated with them in different systems of record and the following columns:

| col_name | types |
|-------------------|-----------|
| key_person | character |
| key_uuid | character |
| key_mlbam | integer |
| key_retro | character |
| key_bbref | character |
| key_bbref_minors | character |
| key_fangraphs | integer |
| key_npb | integer |
| key_sr_nfl | character |
| key_sr_nba | character |
| key_sr_nhl | character |
| key_findagrave | integer |
| name_last | character |
| name_first | character |
| name_given | character |
| name_suffix | character |
| name_matrilineal | character |
| name_nick | character |
| birth_year | integer |
| birth_month | integer |
| birth_day | integer |
| death_year | integer |
| death_month | integer |
| death_day | integer |
| pro_played_first | integer |
| pro_played_last | integer |
| mlb_played_first | integer |
| mlb_played_last | integer |
| col_played_first | integer |
| col_played_last | integer |
| pro_managed_first | integer |
| pro_managed_last | integer |
| mlb_managed_first | integer |
| mlb_managed_last | integer |
| col_managed_first | integer |
| col_managed_last | integer |
| pro_umpired_first | integer |
| pro_umpired_last | integer |
| mlb_umpired_first | integer |
| mlb_umpired_last | integer |

A data frame of baseball players and the various IDs associated with them in different systems of

record.

Examples

```
try(chadwick_player_lu())
```

code_barrel

Helper for determining whether a batted ball is a "barrel"

Description

This function allows you to code a batted ball as a barrel as defined by the Statcast research team using data as provided by baseballsavant.mlb.com.

Usage

```
code_barrel(df)
```

Arguments

df A dataframe generated by baseballsavant.mlb.com that must include the following variables: `launch_angle` and `launch_speed`.

Value

Returns a tibble with the additional column, `barrel`.

column_structure_draft_mlb

Column structure of the MLB Draft data

Description

A tibble giving column structure of MLB Draft data

Usage

```
column_structure_draft_mlb
```

Format

An object of class `tbl_df` (inherits from `tbl`, `data.frame`) with 0 rows and 72 columns.

| | |
|-------------------|---|
| daily_batter_bref | (legacy) Scrape Batter Performance Data Over a Custom Time Frame |
|-------------------|---|

Description**(legacy) Scrape Batter Performance Data Over a Custom Time Frame****Usage**

```
daily_batter_bref(t1, t2)
```

Arguments

| | |
|----|---|
| t1 | First date data should be scraped from. Should take the form "YEAR-MONTH-DAY" |
| t2 | Last date data should be scraped from. Should take the form "YEAR-MONTH-DAY" |

Value

Returns a tibble of batter performance

See Also

```
bref_daily_batter()
```

| | |
|--------------------|--|
| daily_pitcher_bref | (legacy) Scrape Pitcher Performance Data Over a Custom Time Frame |
|--------------------|--|

Description**(legacy) Scrape Pitcher Performance Data Over a Custom Time Frame****Usage**

```
daily_pitcher_bref(t1, t2)
```

Arguments

| | |
|----|---|
| t1 | First date data should be scraped from. Should take the form "YEAR-MONTH-DAY" |
| t2 | Last date data should be scraped from. Should take the form "YEAR-MONTH-DAY" |

Value

Returns a tibble of pitcher performance

See Also

bref_daily_pitcher()

| | |
|-----------|------------------|
| edge_code | Edge Code |
|-----------|------------------|

Description

This function allows you to classify individual pitches based on the various categories from the Edge% metric. The dataframe passed to the function must include the batter's handedness, the px and pz coordinates from the PITCHf/x system, and the batter's height.

Usage

```
edge_code(df, height_var_name = "b_height")
```

Arguments

- df A dataframe that, at a minimum, includes the following columns: batter height (b_height), the batter's handedness (stand), vertical location of the pitch (pz), and then horizontal location of the pitch (px)
- height_var_name The name of the variable in the data set that includes the batter's height. Defaults to b_height which assumes an height + inch format. If the variable name is "Height" it assumes the variable is already converted to inches (as is the case in some databases)

Value

Returns a tibble with the additional edge columns necessary for calculations.

| | |
|----------------|----------------------------------|
| edge_frequency | Edge Percentage Frequency |
|----------------|----------------------------------|

Description

This function allows you to calculate the percent of pitches thrown to different edges of the strike zone for a pitch by pitch data set that has been coded using the `edge_code()` function.

Usage

```
edge_frequency(df, group = NULL)
```

Arguments

| | |
|-------|---|
| df | A data frame of pitch by pitch data that has been coded using the <code>edge_code()</code> function. |
| group | Character string indicating what column to group the frequency by. For example, "pitcher" or "batter". Defaults to NULL, which calculates the frequencies across the entire data set. |

Value

Returns a tibble with the additional edge columns necessary for frequency calculations.

| | |
|-----------|-------------------------------------|
| fangraphs | FanGraphs Functions Overview |
|-----------|-------------------------------------|

Description

`fg_pitcher_game_logs()`: Scrape Pitcher Game Logs from FanGraphs.
`fg_batter_game_logs()`: Scrape Batter Game Logs from FanGraphs.
`fg_milb_pitcher_game_logs()`: Scrape MiLB game logs for pitchers from Fangraphs, combining 'standard' and 'advanced' tabs.
`fg_milb_batter_game_logs()`: Scrape MiLB game logs for batters from Fangraphs, combining 'standard' and 'advanced' tabs.
`fg_batter_leaders()`: Scrape Batter Leaderboards from FanGraphs.
`fg_pitcher_leaders()`: Scrape Pitcher Leaderboards from FanGraphs.
`fg_fielder_leaders()`: Scrape Fielder Leaderboards from FanGraphs.
`fg_team_batter()`: Scrape Team Batter Leaderboards from FanGraphs.
`fg_team_pitcher()`: Scrape Team Pitcher Leaderboards from FanGraphs.
`fg_team_fielder()`: Scrape Team Fielder Leaderboards from FanGraphs.
`fg_guts()`: Scrape FanGraphs.com Guts!.
`fg_park()`: Scrape Park Factors from FanGraphs.com.
`fg_park_hand()`: Scrape Park Factors by handedness from FanGraphs.com.

Details**Scrape Pitcher Game Logs from FanGraphs:**

```
fg_pitcher_game_logs(playerid = 104, year = 2006)
```

Scrape Batter Game Logs from FanGraphs:

```
fg_batter_game_logs(playerid = 6184, year = 2017)
```

Scrape MiLB game logs for pitchers from Fangraphs:

```
fg_milb_pitcher_game_logs(playerid = "sa3004210", year=2017)
```

Scrape MiLB game logs for batters from Fangraphs:

```
fg_milb_batter_game_logs(playerid = "sa917940", year=2018)
```

Scrape Batter Leaderboards from FanGraphs:

```
fg_batter_leaders(startseason = 2015, endseason = 2015, qual = 400)
```

Scrape Pitcher Leaderboards from FanGraphs:

```
fg_pitcher_leaders(startseason = 2015, endseason = 2015, qual = 150)
```

Scrape Fielder Leaderboards from FanGraphs:

```
fg_fielder_leaders(startseason = 2015, endseason = 2015, qual = 150)
```

Scrape Team Batter Leaderboards from FanGraphs:

```
fg_team_batter(startseason = 2015, endseason = 2015, qual = 400)
```

Scrape Team Pitcher Leaderboards from FanGraphs:

```
fg_team_pitcher(startseason = 2015, endseason = 2015, qual = 150)
```

Scrape Team Fielder Leaderboards from FanGraphs:

```
fg_team_fielder(startseason = 2015, endseason = 2015, qual = 150)
```

Scrape FanGraphs.com Guts!:

```
fg_guts()
```

Scrape Park Factors from FanGraphs.com:

```
fg_park(2013)
```

Scrape Park Factors by handedness from FanGraphs.com:

```
fg_park_hand(2013)
```

fg_batter_game_logs **Scrape Batter Game Logs from FanGraphs**

Description

This function allows you to scrape game logs by year for a batter from FanGraphs.com.

Usage

```
fg_batter_game_logs(playerid, year)
```

Arguments

| | |
|----------|---|
| playerid | This is the playerid used by FanGraphs for a given player |
| year | The season for which game logs should be returned (use the YYYY format) |

Value

A data frame of batter game logs. lcol_name ltypes | l:—————l:l:—————l | lPlayerName lcharacter | lplayerid linteger | lDate lcharacter | lTeam lcharacter | lOpp lcharacter | lseason linteger | lAge linteger | lBatOrder lcharacter | lPos lcharacter | lG lnumeric | lAB lnumeric | lPA lnumeric | lH lnumeric | l1B lnumeric | l2B lnumeric | l3B lnumeric | lHR lnumeric | lR lnumeric | lRBI lnumeric | lBB lnumeric | lIBB lnumeric | lSO lnumeric | lHBP lnumeric | lSF lnumeric | lSH lnumeric | lGDP lnumeric | lSB lnumeric | lCS lnumeric | lAVG lnumeric | lGB lnumeric | lFB lnumeric | lLD lnumeric | lIFFB lnumeric | lPitches lnumeric | lBalls lnumeric | lStrikes lnumeric | lIFH lnumeric | lBU lnumeric | lBUH lnumeric | lBB% lnumeric | lK% lnumeric | lBB/K lnumeric | lOBP lnumeric | lSLG lnumeric | lOPS lnumeric | lISO lnumeric | lBABIP lnumeric | lGB/FB lnumeric | lLD% lnumeric | lGB% lnumeric | lFB% lnumeric | lIFFB% lnumeric | lHR/FB lnumeric | lIFH% lnumeric | lBUH% lnumeric | lwOBA lnumeric | lwRAA lnumeric | lwRC lnumeric | lSpd lnumeric | lwRC+ lnumeric | lwBSR lnumeric | lWPA lnumeric | l-WPA lnumeric | l+WPA lnumeric | lRE24 lnumeric | lREW lnumeric | lpLI lnumeric | lphLI lnumeric | lPH lnumeric | lWPA/LI lnumeric | lClutch lnumeric | lFB% lnumeric | lFBv lnumeric | lSL% lnumeric | lSLv lnumeric | lCT% lnumeric | lCTv lnumeric | lCB% lnumeric | lCBv lnumeric | lCH% lnumeric | lCHv lnumeric | lSF% lnumeric | lSFv lnumeric | lKN% lnumeric | lKNv lnumeric | lXX% lnumeric | lwFB lnumeric | lwSL lnumeric | lwCT lnumeric | lwCB lnumeric | lwCH lnumeric | lwSF lnumeric | lwKN lnumeric | lwFB/C lnumeric | lwSL/C lnumeric | lwCT/C lnumeric | lwCB/C lnumeric | lwCH/C lnumeric | lwSF/C lnumeric | lwKN/C lnumeric | lO-Swing% lnumeric | lZ-Swing% lnumeric | lSwing% lnumeric | lO-Contact% lnumeric | lZ-Contact% lnumeric | lContact% lnumeric | lZone% lnumeric | lF-Strike% lnumeric | lSwStr% lnumeric | lPull lnumeric | lCent lnumeric | lOppo lnumeric | lSoft lnumeric | lMed lnumeric | lHard lnumeric | lbip-Count lnumeric | lPull% lnumeric | lCent% lnumeric | lOppo% lnumeric | lSoft% lnumeric | lMed% lnumeric | lHard% lnumeric | lpfxFA% lnumeric | lpfxFT% lnumeric | lpfxFC% lnumeric | lpfxFS% lnumeric | lpfxFO% lnumeric | lpfxSI% lnumeric | lpfxSL% lnumeric | lpfxCU% lnumeric | lpfxKC% lnumeric | lpfxCH% lnumeric | lpfxKN% lnumeric | lpfxvFA lnumeric | lpfxvFT lnumeric | lpfxvFC lnumeric | lpfxvFS lnumeric | lpfxvFO lnumeric | lpfxvSI lnumeric | lpfxvSL lnumeric | lpfxvCU lnumeric | lpfxvKC lnumeric | lpfxvCH lnumeric | lpfxvKN lnumeric | lpfxFA-X lnumeric | lpfxFT-X lnumeric | lpfxFC-X lnumeric | lpfxFS-X lnumeric | lpfxFO-X lnumeric | lpfxSI-X lnumeric | lpfxSL-X lnumeric | lpfxCU-X lnumeric | lpfxKC-X lnumeric | lpfxCH-X lnumeric | lpfxKN-X lnumeric |

lpxFA-Z lnumeric | lpxFT-Z lnumeric | lpxFC-Z lnumeric | lpxFS-Z lnumeric | lpxFO-Z lnumeric
 | lpxSI-Z lnumeric | lpxSL-Z lnumeric | lpxCU-Z lnumeric | lpxKC-Z lnumeric | lpxCH-Z lnu-
 meric | lpxKN-Z lnumeric | lpxwFA lnumeric | lpxwFT lnumeric | lpxwFC lnumeric | lpxwFS
 lnumeric | lpxwFO lnumeric | lpxwSI lnumeric | lpxwSL lnumeric | lpxwCU lnumeric | lpxwKC
 lnumeric | lpxwCH lnumeric | lpxwKN lnumeric | lpxwFA/C lnumeric | lpxwFT/C lnumeric |
 lpxwFC/C lnumeric | lpxwFS/C lnumeric | lpxwFO/C lnumeric | lpxwSI/C lnumeric | lpxwSL/C
 lnumeric | lpxwCU/C lnumeric | lpxwKC/C lnumeric | lpxwCH/C lnumeric | lpxwKN/C lnumeric
 | lpxO-Swing% lnumeric | lpxZ-Swing% lnumeric | lpxSwing% lnumeric | lpxO-Contact% lnu-
 meric | lpxZ-Contact% lnumeric | lpxContact% lnumeric | lpxZone% lnumeric | lpxPace lnumeric
 | lpiCH% lnumeric | lpiCS% lnumeric | lpiCU% lnumeric | lpiFA% lnumeric | lpiFC% lnumeric |
 lpiFS% lnumeric | lpiKN% lnumeric | lpiSI% lnumeric | lpiSL% lnumeric | lpiXX% lnumeric | lpiwCH
 lnumeric | lpiwCS lnumeric | lpiwCU lnumeric | lpiwFA lnumeric | lpiwFC lnumeric | lpiwFS lnumeric |
 lpiwKN lnumeric | lpiwSI lnumeric | lpiwSL lnumeric | lpiwXX lnumeric | lpiCH-X lnumeric | lpiCS-X
 lnumeric | lpiCU-X lnumeric | lpiFA-X lnumeric | lpiFC-X lnumeric | lpiFS-X lnumeric | lpiKN-X
 lnumeric | lpiSI-X lnumeric | lpiSL-X lnumeric | lpiXX-X lnumeric | lpiCH-Z lnumeric | lpiCS-Z
 lnumeric | lpiCU-Z lnumeric | lpiFA-Z lnumeric | lpiFC-Z lnumeric | lpiFS-Z lnumeric | lpiKN-Z lnu-
 meric | lpiSI-Z lnumeric | lpiSL-Z lnumeric | lpiXX-Z lnumeric | lpiwCH lnumeric | lpiwCS lnumeric
 | lpiwCU lnumeric | lpiwFA lnumeric | lpiwFC lnumeric | lpiwFS lnumeric | lpiwKN lnumeric | lpiwSI
 lnumeric | lpiwSL lnumeric | lpiwXX lnumeric | lpiwCH/C lnumeric | lpiwCS/C lnumeric | lpiwCU/C
 lnumeric | lpiwFA/C lnumeric | lpiwFC/C lnumeric | lpiwFS/C lnumeric | lpiwKN/C lnumeric | lpi-
 wSI/C lnumeric | lpiwSL/C lnumeric | lpiwXX/C lnumeric | lpiO-Swing% lnumeric | lpiZ-Swing%
 lnumeric | lpiSwing% lnumeric | lpiO-Contact% lnumeric | lpiZ-Contact% lnumeric | lpiContact%
 lnumeric | lpiZone% lnumeric | lEvents lnumeric | lEV lnumeric | lLA lnumeric | lBarrels lnumeric |
 lBarrel% lnumeric | lmaxEV lnumeric | lHardHit lnumeric | lHardHit% lnumeric | lgamedate lcharac-
 ter | ldh linteger |

Examples

```
try(fg_batter_game_logs(playerid = 19755, year = 2023))
```

fg_batter_leaders

Scrape Batter Leaderboards from FanGraphs

Description

This function allows you to scrape all leaderboard statistics (basic and advanced) from FanGraphs.com.

Usage

```
fg_batter_leaders(  
  age = "",  
  pos = "all",  
  stats = "bat",  
  lg = "all",  
  qual = "0",  
  startseason = "2023",
```

```

endseason = "2023",
startdate = "",
enddate = "",
month = "0",
hand = "",
team = "0",
pageitems = "10000",
pagenum = "1",
ind = "0",
rost = "0",
players = "",
type = "8",
postseason = "",
sortdir = "default",
sortstat = "WAR"
)

```

Arguments

| | |
|-------------|---|
| age | (integer) Age of players |
| pos | (character) Position of players, defaults to "all". To exclude pitchers, use "np". |
| stats | (character) Statistic to return. Defaults to "bat". |
| lg | (character) League to return. Defaults to "all". Options are "al", "nl", or "all". |
| qual | (character) Whether you want only batters/pitchers that qualified in a given season, or the minimum number of plate appearances for inclusion. If you only want qualified hitters, use qual. If a minimum number of plate appearances/innings pitched, use the number desired. Defaults to "y". |
| startseason | (character) Season for which you want to scrape the data. |
| endseason | (character) Last season for which you want data. |
| startdate | (character) Start date for which you want data. |
| enddate | (character) End date for which you want data. |
| month | (character) Month for which you want data. |
| hand | (character) Handedness of batter. Options are "L", "R", or "B". Empty string returns all. |
| team | (character) Teams for which you want data, comma separated. |
| pageitems | (character) Number of items per page. |
| pagenum | (character) Page number. |
| ind | (character) Whether or not to break the seasons out individual, or roll them up together. 1 = split seasons, 0 = aggregate seasons. |
| rost | (character) Whether or not to include players on the roster. 1 = include, 0 = exclude. |
| players | (character) Whether or not to include players on the roster. 1 = include only active roster players, 0 = exclude. |

| | |
|------------|--|
| type | (character) Defaults to 8, which is the standard leaderboard. The values for the leaderboards appear to go to from type = 0 to 48+, which correspond to links on the leaderboard page. |
| postseason | (logical) Whether or not to include postseason data. TRUE = include postseason, FALSE = exclude postseason. |
| sortdir | (character) Sort direction. Options are "asc" or "desc" or "default". |
| sortstat | (character) Sort by stat. Default is "WAR". |

Value

A data frame of batter data.

| col_name | types |
|-----------------|-----------|
| Season | integer |
| team_name | character |
| Bats | character |
| xMLBAMID | integer |
| PlayerNameRoute | character |
| PlayerName | character |
| playerid | integer |
| Age | integer |
| AgeRng | character |
| SeasonMin | integer |
| SeasonMax | integer |
| G | integer |
| AB | integer |
| PA | integer |
| H | integer |
| 1B | integer |
| 2B | integer |
| 3B | integer |
| HR | integer |
| R | integer |
| RBI | integer |
| BB | integer |
| IBB | integer |
| SO | integer |
| HBP | integer |
| SF | integer |
| SH | integer |
| GDP | integer |
| SB | integer |
| CS | integer |
| AVG | numeric |
| GB | integer |
| FB | integer |
| LD | integer |
| IFFB | integer |

| | |
|-------------|---------|
| Pitches | integer |
| Balls | integer |
| Strikes | integer |
| IFH | integer |
| BU | integer |
| BUH | integer |
| BB_pct | numeric |
| K_pct | numeric |
| BB_K | numeric |
| OBP | numeric |
| SLG | numeric |
| OPS | numeric |
| ISO | numeric |
| BABIP | numeric |
| GB_FB | numeric |
| LD_pct | numeric |
| GB_pct | numeric |
| FB_pct | numeric |
| IFFB_pct | numeric |
| HR_FB | numeric |
| IFH_pct | numeric |
| BUH_pct | numeric |
| TTO_pct | numeric |
| wOBA | numeric |
| wRAA | numeric |
| wRC | numeric |
| Batting | numeric |
| Fielding | numeric |
| Replacement | numeric |
| Positional | numeric |
| wLeague | numeric |
| Defense | numeric |
| Offense | numeric |
| RAR | numeric |
| WAR | numeric |
| WAROld | numeric |
| Dollars | numeric |
| BaseRunning | numeric |
| Spd | numeric |
| wRC_plus | numeric |
| wBsR | numeric |
| WPA | numeric |
| WPA_minus | numeric |
| WPA_plus | numeric |
| RE24 | numeric |
| REW | numeric |
| pLI | numeric |
| PH | integer |

| | |
|---------------|---------|
| WPA_LI | numeric |
| Clutch | numeric |
| FBall_pct | numeric |
| FBv | numeric |
| SL_pct | numeric |
| SLv | numeric |
| CT_pct | numeric |
| CTv | numeric |
| CB_pct | numeric |
| CBv | numeric |
| CH_pct | numeric |
| CHv | numeric |
| SF_pct | numeric |
| SFv | numeric |
| XX_pct | numeric |
| wFB | numeric |
| wSL | numeric |
| wCT | numeric |
| wCB | numeric |
| wCH | numeric |
| wSF | numeric |
| wFB_C | numeric |
| wSL_C | numeric |
| wCT_C | numeric |
| wCB_C | numeric |
| wCH_C | numeric |
| wSF_C | numeric |
| O-Swing_pct | numeric |
| Z-Swing_pct | numeric |
| Swing_pct | numeric |
| O-Contact_pct | numeric |
| Z-Contact_pct | numeric |
| Contact_pct | numeric |
| Zone_pct | numeric |
| F-Strike_pct | numeric |
| SwStr_pct | numeric |
| CStr_pct | numeric |
| C+SwStr_pct | numeric |
| Pull | integer |
| Cent | integer |
| Oppo | integer |
| Soft | integer |
| Med | integer |
| Hard | integer |
| bipCount | integer |
| Pull_pct | numeric |
| Cent_pct | numeric |
| Oppo_pct | numeric |

| | |
|------------|---------|
| Soft_pct | numeric |
| Med_pct | numeric |
| Hard_pct | numeric |
| UBR | numeric |
| GDPRuns | numeric |
| AVG+ | numeric |
| BB_pct+ | numeric |
| K_pct+ | numeric |
| OBP+ | numeric |
| SLG+ | numeric |
| ISO+ | numeric |
| BABIP+ | numeric |
| LD_pct+ | numeric |
| GB_pct+ | numeric |
| FB_pct+ | numeric |
| HRFB_pct+ | numeric |
| Pull_pct+ | numeric |
| Cent_pct+ | numeric |
| Oppo_pct+ | numeric |
| Soft_pct+ | numeric |
| Med_pct+ | numeric |
| Hard_pct+ | numeric |
| xwOBA | numeric |
| xAVG | numeric |
| xSLG | numeric |
| PPTV | integer |
| CPTV | integer |
| BPTV | integer |
| DSV | integer |
| DGV | integer |
| BTv | integer |
| rPPTV | numeric |
| rBPTV | numeric |
| EBV | integer |
| ESV | integer |
| rFTeamV | numeric |
| rBTeamV | numeric |
| rTV | numeric |
| pfx_FA_pct | numeric |
| pfx_FC_pct | numeric |
| pfx_FS_pct | numeric |
| pfx_FO_pct | numeric |
| pfx_SI_pct | numeric |
| pfx_SL_pct | numeric |
| pfx_CU_pct | numeric |
| pfx_KC_pct | numeric |
| pfx_EP_pct | numeric |
| pfx_CH_pct | numeric |

| | |
|------------|---------|
| pfx_SC_pct | numeric |
| pfx_vFA | numeric |
| pfx_vFC | numeric |
| pfx_vFS | numeric |
| pfx_vFO | numeric |
| pfx_vSI | numeric |
| pfx_vSL | numeric |
| pfx_vCU | numeric |
| pfx_vKC | numeric |
| pfx_vEP | numeric |
| pfx_vCH | numeric |
| pfx_vSC | numeric |
| pfx_FA-X | numeric |
| pfx_FC-X | numeric |
| pfx_FS-X | numeric |
| pfx_FO-X | numeric |
| pfx_SI-X | numeric |
| pfx_SL-X | numeric |
| pfx_CU-X | numeric |
| pfx_KC-X | numeric |
| pfx_EP-X | numeric |
| pfx_CH-X | numeric |
| pfx_SC-X | numeric |
| pfx_FA-Z | numeric |
| pfx_FC-Z | numeric |
| pfx_FS-Z | numeric |
| pfx_FO-Z | numeric |
| pfx_SI-Z | numeric |
| pfx_SL-Z | numeric |
| pfx_CU-Z | numeric |
| pfx_KC-Z | numeric |
| pfx_EP-Z | numeric |
| pfx_CH-Z | numeric |
| pfx_SC-Z | numeric |
| pfx_wFA | numeric |
| pfx_wFC | numeric |
| pfx_wFS | numeric |
| pfx_wFO | numeric |
| pfx_wSI | numeric |
| pfx_wSL | numeric |
| pfx_wCU | numeric |
| pfx_wKC | numeric |
| pfx_wEP | numeric |
| pfx_wCH | numeric |
| pfx_wSC | numeric |
| pfx_wFA_C | numeric |
| pfx_wFC_C | numeric |
| pfx_wFS_C | numeric |

| | |
|-------------------|---------|
| pfx_wFO_C | numeric |
| pfx_wSI_C | numeric |
| pfx_wSL_C | numeric |
| pfx_wCU_C | numeric |
| pfx_wKC_C | numeric |
| pfx_wEP_C | numeric |
| pfx_wCH_C | numeric |
| pfx_wSC_C | numeric |
| pfx_O-Swing_pct | numeric |
| pfx_Z-Swing_pct | numeric |
| pfx_Swing_pct | numeric |
| pfx_O-Contact_pct | numeric |
| pfx_Z-Contact_pct | numeric |
| pfx_Contact_pct | numeric |
| pfx_Zone_pct | numeric |
| pfx_Pace | numeric |
| pi_CH_pct | numeric |
| pi_CU_pct | numeric |
| pi_FA_pct | numeric |
| pi_FC_pct | numeric |
| pi_FS_pct | numeric |
| pi_SB_pct | numeric |
| pi_SI_pct | numeric |
| pi_SL_pct | numeric |
| pi_vCH | numeric |
| pi_vCU | numeric |
| pi_vFA | numeric |
| pi_vFC | numeric |
| pi_vFS | numeric |
| pi_vSB | numeric |
| pi_vSI | numeric |
| pi_vSL | numeric |
| pi_CH-X | numeric |
| pi_CU-X | numeric |
| pi_FA-X | numeric |
| pi_FC-X | numeric |
| pi_FS-X | numeric |
| pi_SB-X | numeric |
| pi_SI-X | numeric |
| pi_SL-X | numeric |
| pi_CH-Z | numeric |
| pi_CU-Z | numeric |
| pi_FA-Z | numeric |
| pi_FC-Z | numeric |
| pi_FS-Z | numeric |
| pi_SB-Z | numeric |
| pi_SI-Z | numeric |
| pi_SL-Z | numeric |

| | |
|------------------|-----------|
| pi_wCH | numeric |
| pi_wCU | numeric |
| pi_wFA | numeric |
| pi_wFC | numeric |
| pi_wFS | numeric |
| pi_wSB | numeric |
| pi_wSI | numeric |
| pi_wSL | numeric |
| pi_wCH_C | numeric |
| pi_wCU_C | numeric |
| pi_wFA_C | numeric |
| pi_wFC_C | numeric |
| pi_wFS_C | numeric |
| pi_wSB_C | numeric |
| pi_wSI_C | numeric |
| pi_wSL_C | numeric |
| pi_O-Swing_pct | numeric |
| pi_Z-Swing_pct | numeric |
| pi_Swing_pct | numeric |
| pi_O-Contact_pct | numeric |
| pi_Z-Contact_pct | numeric |
| pi_Contact_pct | numeric |
| pi_Zone_pct | numeric |
| pi_Pace | numeric |
| Events | integer |
| EV | numeric |
| LA | numeric |
| Barrels | integer |
| Barrel_pct | numeric |
| maxEV | numeric |
| HardHit | integer |
| HardHit_pct | numeric |
| Q | numeric |
| TG | integer |
| TPA | integer |
| team_name_abb | character |
| teamid | integer |
| Pos | numeric |
| phLI | numeric |
| pi_XX_pct | numeric |
| pi_vXX | numeric |
| pi_XX-X | numeric |
| pi_XX-Z | numeric |
| pi_wXX | numeric |
| pi_wXX_C | numeric |
| rBTV | numeric |
| pi_CS_pct | numeric |
| pi_vCS | numeric |

| | |
|------------|---------|
| pi_CS-X | numeric |
| pi_CS-Z | numeric |
| pi_wCS | numeric |
| pi_wCS_C | numeric |
| KN_pct | numeric |
| KNv | numeric |
| wKN | numeric |
| wKN_C | numeric |
| pfx_KN_pct | numeric |
| pfx_vKN | numeric |
| pfx_KN-X | numeric |
| pfx_KN-Z | numeric |
| pfx_wKN | numeric |
| pfx_wKN_C | numeric |
| pi_KN_pct | numeric |
| pi_vKN | numeric |
| pi_KN-X | numeric |
| pi_KN-Z | numeric |
| pi_wKN | numeric |
| pi_wKN_C | numeric |
| rCPTV | numeric |
| CFraming | numeric |
| rDGV | numeric |
| rDSV | numeric |

Examples

```
try(fg_batter_leaders(startseason = 2023, endseason = 2023))
```

| | |
|----------------|---|
| fg_bat_leaders | (legacy) Scrape Batter Leaderboards from FanGraphs |
|----------------|---|

Description

(legacy) Scrape Batter Leaderboards from FanGraphs
(legacy) Scrape Batter Leaderboards from FanGraphs

Usage

```
fg_bat_leaders(  
  age = "",  
  pos = "all",  
  stats = "bat",  
  lg = "all",  
  qual = "0",
```

```

    startseason = "2023",
    endseason = "2023",
    startdate = "",
    enddate = "",
    month = "0",
    hand = "",
    team = "0",
    pageitems = "10000",
    pagenum = "1",
    ind = "0",
    rost = "0",
    players = "",
    type = "8",
    postseason = "",
    sortdir = "default",
    sortstat = "WAR"
)

```

```

fg_bat_leaders(
    age = "",
    pos = "all",
    stats = "bat",
    lg = "all",
    qual = "0",
    startseason = "2023",
    endseason = "2023",
    startdate = "",
    enddate = "",
    month = "0",
    hand = "",
    team = "0",
    pageitems = "10000",
    pagenum = "1",
    ind = "0",
    rost = "0",
    players = "",
    type = "8",
    postseason = "",
    sortdir = "default",
    sortstat = "WAR"
)

```

Arguments

| | |
|-------|--|
| age | (integer) Age of players |
| pos | (character) Position of players, defaults to "all". To exclude pitchers, use "np". |
| stats | (character) Statistic to return. Defaults to "bat". |
| lg | (character) League to return. Defaults to "all". Options are "al", "nl", or "all". |

| | |
|-------------|---|
| qual | (character) Whether you want only batters/pitchers that qualified in a given season, or the minimum number of plate appearances for inclusion. If you only want qualified hitters, use qual. If a minimum number of plate appearances/innings pitched, use the number desired. Defaults to "y". |
| startseason | (character) Season for which you want to scrape the data. |
| endseason | (character) Last season for which you want data. |
| startdate | (character) Start date for which you want data. |
| enddate | (character) End date for which you want data. |
| month | (character) Month for which you want data. |
| hand | (character) Handedness of batter. Options are "L", "R", or "B". Empty string returns all. |
| team | (character) Teams for which you want data, comma separated. |
| pageitems | (character) Number of items per page. |
| pagenum | (character) Page number. |
| ind | (character) Whether or not to break the seasons out individual, or roll them up together. 1 = split seasons, 0 = aggregate seasons. |
| rost | (character) Whether or not to include players on the roster. 1 = include, 0 = exclude. |
| players | (character) Whether or not to include players on the roster. 1 = include only active roster players, 0 = exclude. |
| type | (character) Defaults to 8, which is the standard leaderboard. The values for the leaderboards appear to go to from type = 0 to 48+, which correspond to links on the leaderboard page. |
| postseason | (logical) Whether or not to include postseason data. TRUE = include postseason, FALSE = exclude postseason. |
| sortdir | (character) Sort direction. Options are "asc" or "desc" or "default". |
| sortstat | (character) Sort by stat. Default is "WAR". |

Value

A data frame of batter data.

A data frame of batter data.

fg_fielder_leaders

Scrape Fielder Leaderboards from FanGraphs

Description

This function allows you to scrape all leaderboard statistics (basic and advanced) from FanGraphs.com.

Usage

```
fg_fielder_leaders(
  age = "",
  pos = "all",
  stats = "fld",
  lg = "all",
  qual = "0",
  startseason = "2023",
  endseason = "2023",
  startdate = "",
  enddate = "",
  month = "0",
  hand = "",
  team = "0",
  pageitems = "10000",
  pagenum = "1",
  ind = "0",
  rost = "0",
  players = "",
  type = "1",
  postseason = "",
  sortdir = "default",
  sortstat = "Defense"
)
```

Arguments

| | |
|-------------|---|
| age | (integer) Age of players |
| pos | (character) Position of players, defaults to "all". To exclude pitchers, use "np". |
| stats | (character) Statistic to return. Defaults to "bat". |
| lg | (character) League to return. Defaults to "all". Options are "al", "nl", or "all". |
| qual | (character) Whether you want only batters/pitchers that qualified in a given season, or the minimum number of plate appearances for inclusion. If you only want qualified hitters, use qual. If a minimum number of plate appearances/innings pitched, use the number desired. Defaults to "y". |
| startseason | (character) Season for which you want to scrape the data. |
| endseason | (character) Last season for which you want data. |
| startdate | (character) Start date for which you want data. |
| enddate | (character) End date for which you want data. |
| month | (character) Month for which you want data. |
| hand | (character) Handedness of batter. Options are "L", "R", or "B". Empty string returns all. |
| team | (character) Teams for which you want data, comma separated. |
| pageitems | (character) Number of items per page. |

| | |
|------------|--|
| pagenum | (character) Page number. |
| ind | (character) Whether or not to break the seasons out individual, or roll them up together. 1 = split seasons, 0 = aggregate seasons. |
| rost | (character) Whether or not to include players on the roster. 1 = include, 0 = exclude. |
| players | (character) Whether or not to include players on the roster. 1 = include only active roster players, 0 = exclude. |
| type | (character) Defaults to 8, which is the standard leaderboard. The values for the leaderboards appear to go to from type = 0 to 48+, which correspond to links on the leaderboard page. |
| postseason | (logical) Whether or not to include postseason data. TRUE = include postseason, FALSE = exclude postseason. |
| sortdir | (character) Sort direction. Options are "asc" or "desc" or "default". |
| sortstat | (character) Sort by stat. Default is "Defense". |

Value

A data frame of fielder data.

| col_name | types |
|-----------------|-----------|
| Season | integer |
| team_name | character |
| xMLBAMID | integer |
| PlayerNameRoute | character |
| PlayerName | character |
| playerid | integer |
| SeasonMin | integer |
| SeasonMax | integer |
| Pos | character |
| G | integer |
| GS | integer |
| Inn | numeric |
| PO | integer |
| A | integer |
| E | integer |
| FE | integer |
| TE | integer |
| DP | integer |
| DPS | integer |
| DPT | integer |
| DPF | integer |
| SB | integer |
| CS | integer |
| PB | integer |
| WP | integer |
| FP | numeric |
| rSB | integer |

| | |
|---------------|-----------|
| rGFP | integer |
| rSZ | numeric |
| rCERA | integer |
| DRS | integer |
| Defense | numeric |
| CStrikes | numeric |
| CFraming | numeric |
| Q | numeric |
| TInn | numeric |
| teamid | integer |
| team_name_abb | character |
| rARM | integer |
| rPM | integer |
| BIZ | integer |
| Plays | integer |
| RZR | numeric |
| OOZ | integer |
| ARM | numeric |
| RngR | numeric |
| ErrR | numeric |
| UZR | numeric |
| UZR_150 | numeric |
| OAA | integer |
| rFRP | integer |
| rGDP | integer |
| DPR | numeric |
| Scp | integer |

Examples

```
try(fg_fielder_leaders(startseason = 2023, endseason = 2023))
```

| | |
|---------|----------------------------|
| fg_guts | Scrape FanGraphs.com Guts! |
|---------|----------------------------|

Description

Scrape historical FanGraphs Guts! table, wOBA, FIP coefficients and constants

Usage

```
fg_guts()
```

Value

Returns a tibble of seasonal constants from FanGraphs

| col_name | types |
|------------|---------|
| season | integer |
| lg_woba | numeric |
| woba_scale | numeric |
| wBB | numeric |
| wHBP | numeric |
| w1B | numeric |
| w2B | numeric |
| w3B | numeric |
| wHR | numeric |
| runSB | numeric |
| runCS | numeric |
| lg_r_pa | numeric |
| lg_r_w | numeric |
| cFIP | numeric |

Examples

```
try(fg_guts())
```

```
fg_milb_batter_game_logs
```

Scrape MiLB game logs for batters from FanGraphs

Description

This function allows you to scrape MiLB game logs for individual batters from FanGraphs.

Usage

```
fg_milb_batter_game_logs(playerid, year)
```

Arguments

| | |
|----------|--|
| playerid | The batter's minor league ID from FanGraphs. |
| year | The season for which game logs should be returned. |

Value

Returns a tibble of Minor League batter game logs with the following columns:

| col_name | types |
|----------------|-----------|
| player_name | character |
| minor_playerid | character |
| Date | character |
| Team | character |
| Level | character |
| Opp | character |
| G | numeric |
| AB | numeric |
| PA | numeric |
| H | numeric |
| 1B | numeric |
| 2B | numeric |
| 3B | numeric |
| HR | numeric |
| R | numeric |
| RBI | numeric |
| BB | numeric |
| IBB | numeric |
| SO | numeric |
| HBP | numeric |
| SF | numeric |
| SH | numeric |
| GDP | numeric |
| SB | numeric |
| CS | numeric |
| AVG | numeric |
| BB% | numeric |
| K% | numeric |
| BB/K | numeric |
| OBP | numeric |
| SLG | numeric |
| OPS | numeric |
| ISO | numeric |
| Spd | numeric |
| BABIP | numeric |
| wRC | numeric |
| wRAA | numeric |
| wOBA | numeric |
| wRC+ | numeric |
| wBsR | numeric |
| gamedate | character |
| dh | integer |
| UPId | character |
| MLBAMId | character |
| MinorMasterId | character |
| RRId | character |
| FirstName | character |

| | |
|---------------|-----------|
| LastName | character |
| firstLastName | character |
| Height | character |
| Weight | character |
| BirthDate | character |
| Bats | character |
| Throws | character |
| Position | character |
| BirthCity | character |
| College | character |
| Age | character |

Examples

```
try(fg_milb_batter_game_logs(playerid = "sa3019999", year=2023))
```

| |
|--|
| fg_milb_pitcher_game_logs |
| Scrape MiLB game logs for pitchers from FanGraphs |

Description

This function allows you to scrape MiLB game logs for individual batters from FanGraphs.com.

Usage

```
fg_milb_pitcher_game_logs(playerid, year)
```

Arguments

| | |
|----------|--|
| playerid | The pitcher’s minor league ID from FanGraphs.com. |
| year | The season for which game logs should be returned. |

Value

Returns a tibble of Minor League pitcher game logs.

| | |
|----------------|-----------|
| col_name | types |
| player_name | character |
| minor_playerid | character |
| Date | character |
| Team | character |
| Level | character |
| Opp | character |
| W | numeric |

| | |
|---------------|-----------|
| L | numeric |
| ERA | numeric |
| G | numeric |
| GS | numeric |
| CG | numeric |
| ShO | numeric |
| SV | numeric |
| IP | numeric |
| TBF | numeric |
| H | numeric |
| R | numeric |
| ER | numeric |
| HR | numeric |
| BB | numeric |
| IBB | numeric |
| HBP | numeric |
| WP | numeric |
| BK | numeric |
| SO | numeric |
| K/9 | numeric |
| BB/9 | numeric |
| K/BB | numeric |
| HR/9 | numeric |
| K% | numeric |
| K-BB% | numeric |
| BB% | numeric |
| AVG | numeric |
| WHIP | numeric |
| BABIP | numeric |
| LOB% | numeric |
| FIP | numeric |
| gamedate | character |
| dh | integer |
| UPId | character |
| MLBAMId | character |
| MinorMasterId | character |
| RRId | character |
| FirstName | character |
| LastName | character |
| firstLastName | character |
| Height | character |
| Weight | character |
| BirthDate | character |
| Bats | character |
| Throws | character |
| Position | character |
| BirthCity | character |
| College | character |

Age character

Examples

```
try(fg_milb_pitcher_game_logs(playerid = "sa3020682", year=2023))
```

| | |
|---------|------------------------------------|
| fg_park | Scrape Park Factors from FanGraphs |
|---------|------------------------------------|

Description

This function allows you to scrape park factors for a given season from FanGraphs.com.

This function allows you to scrape park factors by handedness from FanGraphs.com for a given single year.

Usage

```
fg_park(yr)

fg_park_hand(yr)
```

Arguments

yr Season for which you want to scrape the park factors.

Value

Returns a tibble of park factors.

| | |
|-----------|-----------|
| col_name | types |
| season | integer |
| home_team | character |
| basic_5yr | integer |
| 3yr | integer |
| 1yr | integer |
| single | integer |
| double | integer |
| triple | integer |
| hr | integer |
| so | integer |
| UIBB | integer |
| GB | integer |
| FB | integer |
| LD | integer |
| IFFB | integer |

FIP integer

Returns a tibble of park factors by handedness.

| col_name | types |
|---------------|-----------|
| season | integer |
| home_team | character |
| single_as_LHH | integer |
| single_as_RHH | integer |
| double_as_LHH | integer |
| double_as_RHH | integer |
| triple_as_LHH | integer |
| triple_as_RHH | integer |
| hr_as_LHH | integer |
| hr_as_RHH | integer |

Examples

```
try(fg_park(2013))
```

```
try(fg_park_hand(2013))
```

fg_pitcher_game_logs **Scrape Pitcher Game Logs from FanGraphs**

Description

This function allows you to scrape game logs by year for a pitcher from FanGraphs.com.

Usage

```
fg_pitcher_game_logs(playerid, year)
```

Arguments

| | |
|----------|---|
| playerid | This is the playerid used by FanGraphs for a given player |
| year | The season for which game logs should be returned (use the YYYY format) |

Value

Returns a tibble of pitcher game logs with the following columns:

| col_name | types |
|------------|-----------|
| PlayerName | character |
| playerid | integer |
| Date | character |
| Opp | character |
| teamid | integer |
| season | integer |
| Team | character |
| HomeAway | character |
| Age | integer |
| W | numeric |
| L | numeric |
| ERA | numeric |
| G | numeric |
| GS | numeric |
| CG | numeric |
| ShO | numeric |
| SV | numeric |
| HLD | numeric |
| BS | numeric |
| IP | numeric |
| TBF | numeric |
| H | numeric |
| R | numeric |
| ER | numeric |
| HR | numeric |
| BB | numeric |
| IBB | numeric |
| HBP | numeric |
| WP | numeric |
| BK | numeric |
| SO | numeric |
| K/9 | numeric |
| BB/9 | numeric |
| H/9 | numeric |
| K/BB | numeric |
| IFH% | numeric |
| BUH% | numeric |
| GB | numeric |
| FB | numeric |
| LD | numeric |
| IFFB | numeric |
| IFH | numeric |
| BU | numeric |
| BUH | numeric |

| | |
|---------|---------|
| K% | numeric |
| BB% | numeric |
| K-BB% | numeric |
| SIERA | numeric |
| HR/9 | numeric |
| AVG | numeric |
| WHIP | numeric |
| BABIP | numeric |
| LOB% | numeric |
| FIP | numeric |
| E-F | numeric |
| xFIP | numeric |
| ERA- | numeric |
| FIP- | numeric |
| xFIP- | numeric |
| GB/FB | numeric |
| LD% | numeric |
| GB% | numeric |
| FB% | numeric |
| IFFB% | numeric |
| HR/FB | numeric |
| RS | numeric |
| RS/9 | numeric |
| Balls | numeric |
| Strikes | numeric |
| Pitches | numeric |
| WPA | numeric |
| -WPA | numeric |
| +WPA | numeric |
| RE24 | numeric |
| REW | numeric |
| pLI | numeric |
| inLI | numeric |
| gmLI | numeric |
| exLI | numeric |
| Pulls | numeric |
| Games | numeric |
| WPA/LI | numeric |
| Clutch | numeric |
| SD | numeric |
| MD | numeric |
| FB%1 | numeric |
| FBv | numeric |
| SL% | numeric |
| SLv | numeric |
| CT% | numeric |
| CTv | numeric |
| CB% | numeric |

| | |
|------------|-----------|
| CBv | numeric |
| CH% | numeric |
| CHv | numeric |
| XX% | numeric |
| PO% | numeric |
| wFB | numeric |
| wSL | numeric |
| wCT | numeric |
| wCB | numeric |
| wCH | numeric |
| wFB/C | numeric |
| wSL/C | numeric |
| wCT/C | numeric |
| wCB/C | numeric |
| wCH/C | numeric |
| O-Swing% | numeric |
| Z-Swing% | numeric |
| Swing% | numeric |
| O-Contact% | numeric |
| Z-Contact% | numeric |
| Contact% | numeric |
| Zone% | numeric |
| F-Strike% | numeric |
| SwStr% | numeric |
| Pull | numeric |
| Cent | numeric |
| Oppo | numeric |
| Soft | numeric |
| Med | numeric |
| Hard | numeric |
| bipCount | numeric |
| Pull% | numeric |
| Cent% | numeric |
| Oppo% | numeric |
| Soft% | numeric |
| Med% | numeric |
| Hard% | numeric |
| tERA | numeric |
| GSv2 | numeric |
| Events | numeric |
| gamedate | character |
| dh | integer |

Examples

```
try(fg_pitcher_game_logs(playerid = "19755", year = 2023))
```

Description

Scrape Pitcher Leaderboards from FanGraphs

Usage

```
fg_pitcher_leaders(
  age = "",
  pos = "all",
  stats = "pit",
  lg = "all",
  qual = "0",
  startseason = "2023",
  endseason = "2023",
  startdate = "",
  enddate = "",
  month = "0",
  hand = "",
  team = "0",
  pageitems = "10000",
  pagenum = "1",
  ind = "0",
  rost = "0",
  players = "",
  type = "8",
  postseason = "",
  sortdir = "default",
  sortstat = "WAR"
)
```

Arguments

| | |
|-------------|---|
| age | (integer) Age of players |
| pos | (character) Position of players, defaults to "all". To exclude pitchers, use "np". |
| stats | (character) Statistic to return. Defaults to "bat". |
| lg | (character) League to return. Defaults to "all". Options are "al", "nl", or "all". |
| qual | (character) Whether you want only batters/pitchers that qualified in a given season, or the minimum number of plate appearances for inclusion. If you only want qualified hitters, use qual. If a minimum number of plate appearances/innings pitched, use the number desired. Defaults to "y". |
| startseason | (character) Season for which you want to scrape the data. |
| endseason | (character) Last season for which you want data. |

| | |
|------------|--|
| startdate | (character) Start date for which you want data. |
| enddate | (character) End date for which you want data. |
| month | (character) Month for which you want data. |
| hand | (character) Handedness of batter. Options are "L", "R", or "B". Empty string returns all. |
| team | (character) Teams for which you want data, comma separated. |
| pageitems | (character) Number of items per page. |
| pagenum | (character) Page number. |
| ind | (character) Whether or not to break the seasons out individual, or roll them up together. 1 = split seasons, 0 = aggregate seasons. |
| rost | (character) Whether or not to include players on the roster. 1 = include, 0 = exclude. |
| players | (character) Whether or not to include players on the roster. 1 = include only active roster players, 0 = exclude. |
| type | (character) Defaults to 8, which is the standard leaderboard. The values for the leaderboards appear to go to from type = 0 to 48+, which correspond to links on the leaderboard page. |
| postseason | (logical) Whether or not to include postseason data. TRUE = include postseason, FALSE = exclude postseason. |
| sortdir | (character) Sort direction. Options are "asc" or "desc" or "default". |
| sortstat | (character) Sort by stat. Default is "WAR". |

Value

A data frame of pitcher data.

| col_name | types |
|-----------------|-----------|
| Season | integer |
| team_name | character |
| Throws | character |
| xMLBAMID | integer |
| PlayerNameRoute | character |
| PlayerName | character |
| playerid | integer |
| Age | integer |
| AgeRng | character |
| SeasonMin | integer |
| SeasonMax | integer |
| W | integer |
| L | integer |
| ERA | numeric |
| G | integer |
| GS | integer |
| CG | integer |

| | |
|-----------|---------|
| ShO | integer |
| SV | integer |
| BS | integer |
| IP | numeric |
| TBF | integer |
| H | integer |
| R | integer |
| ER | integer |
| HR | integer |
| BB | integer |
| IBB | integer |
| HBP | integer |
| WP | integer |
| BK | integer |
| SO | integer |
| GB | integer |
| FB | integer |
| LD | integer |
| IFFB | integer |
| Pitches | integer |
| Balls | integer |
| Strikes | integer |
| RS | integer |
| IFH | integer |
| BU | integer |
| BUH | integer |
| K_9 | numeric |
| BB_9 | numeric |
| K_BB | numeric |
| H_9 | numeric |
| HR_9 | numeric |
| AVG | numeric |
| WHIP | numeric |
| BABIP | numeric |
| LOB_pct | numeric |
| FIP | numeric |
| GB_FB | numeric |
| LD_pct | numeric |
| GB_pct | numeric |
| FB_pct | numeric |
| IFFB_pct | numeric |
| HR_FB | numeric |
| IFH_pct | numeric |
| BUH_pct | numeric |
| TTO_pct | numeric |
| C Framing | numeric |
| Starting | numeric |
| Start_IP | numeric |

| | |
|---------------|---------|
| RAR | numeric |
| WAR | numeric |
| Dollars | numeric |
| RA9-Wins | numeric |
| LOB-Wins | numeric |
| BIP-Wins | numeric |
| BS-Wins | numeric |
| tERA | numeric |
| xFIP | numeric |
| WPA | numeric |
| WPA_minus | numeric |
| WPA_plus | numeric |
| RE24 | numeric |
| REW | numeric |
| pLI | numeric |
| inLI | numeric |
| gmLI | numeric |
| exLI | numeric |
| Pulls | integer |
| Games | integer |
| WPA_LI | numeric |
| Clutch | numeric |
| FBall_pct | numeric |
| FBv | numeric |
| SL_pct | numeric |
| SLv | numeric |
| CT_pct | numeric |
| CTv | numeric |
| CB_pct | numeric |
| CBv | numeric |
| SF_pct | numeric |
| SFv | numeric |
| XX_pct | numeric |
| wFB | numeric |
| wSL | numeric |
| wCT | numeric |
| wCB | numeric |
| wSF | numeric |
| wFB_C | numeric |
| wSL_C | numeric |
| wCT_C | numeric |
| wCB_C | numeric |
| wSF_C | numeric |
| O-Swing_pct | numeric |
| Z-Swing_pct | numeric |
| Swing_pct | numeric |
| O-Contact_pct | numeric |
| Z-Contact_pct | numeric |

| | |
|--------------|---------|
| Contact_pct | numeric |
| Zone_pct | numeric |
| F-Strike_pct | numeric |
| SwStr_pct | numeric |
| CStr_pct | numeric |
| C+SwStr_pct | numeric |
| HLD | integer |
| SD | integer |
| MD | integer |
| ERA- | numeric |
| FIP- | numeric |
| xFIP- | numeric |
| K_pct | numeric |
| BB_pct | numeric |
| K-BB_pct | numeric |
| SIERA | numeric |
| kwERA | numeric |
| RS_9 | numeric |
| E-F | numeric |
| Pull | integer |
| Cent | integer |
| Oppo | integer |
| Soft | integer |
| Med | integer |
| Hard | integer |
| bipCount | integer |
| Pull_pct | numeric |
| Cent_pct | numeric |
| Oppo_pct | numeric |
| Soft_pct | numeric |
| Med_pct | numeric |
| Hard_pct | numeric |
| K_9+ | numeric |
| BB_9+ | numeric |
| K_BB+ | numeric |
| H_9+ | numeric |
| HR_9+ | numeric |
| AVG+ | numeric |
| WHIP+ | numeric |
| BABIP+ | numeric |
| LOB_pct+ | numeric |
| K_pct+ | numeric |
| BB_pct+ | numeric |
| LD_pct+ | numeric |
| GB_pct+ | numeric |
| FB_pct+ | numeric |
| HRFB_pct+ | numeric |
| Pull_pct+ | numeric |

| | |
|-------------|---------|
| Cent_pct+ | numeric |
| Oppo_pct+ | numeric |
| Soft_pct+ | numeric |
| Med_pct+ | numeric |
| Hard_pct+ | numeric |
| xERA | numeric |
| pb_o_CH | numeric |
| pb_s_CH | numeric |
| pb_c_CH | numeric |
| pb_o_CU | numeric |
| pb_s_CU | numeric |
| pb_c_CU | numeric |
| pb_o_FF | numeric |
| pb_s_FF | numeric |
| pb_c_FF | numeric |
| pb_o_SI | numeric |
| pb_s_SI | numeric |
| pb_c_SI | numeric |
| pb_o_SL | numeric |
| pb_s_SL | numeric |
| pb_c_SL | numeric |
| pb_overall | numeric |
| pb_stuff | numeric |
| pb_command | numeric |
| pb_xRV100 | numeric |
| pb_ERA | numeric |
| sp_s_CH | numeric |
| sp_l_CH | numeric |
| sp_p_CH | numeric |
| sp_s_CU | numeric |
| sp_l_CU | numeric |
| sp_p_CU | numeric |
| sp_s_FF | numeric |
| sp_l_FF | numeric |
| sp_p_FF | numeric |
| sp_s_SI | numeric |
| sp_l_SI | numeric |
| sp_p_SI | numeric |
| sp_s_SL | numeric |
| sp_l_SL | numeric |
| sp_p_SL | numeric |
| sp_stuff | numeric |
| sp_location | numeric |
| sp_pitching | numeric |
| PPTV | integer |
| CPTV | integer |
| BPTV | integer |
| DSV | integer |

| | |
|-------------------|---------|
| DGV | integer |
| BTv | integer |
| rPPTV | numeric |
| rBPTV | numeric |
| EBV | integer |
| ESV | integer |
| rFTeamV | numeric |
| rBTeamV | numeric |
| rTV | numeric |
| pfx_FA_pct | numeric |
| pfx_SI_pct | numeric |
| pfx_SL_pct | numeric |
| pfx_CU_pct | numeric |
| pfx_CH_pct | numeric |
| pfx_vFA | numeric |
| pfx_vSI | numeric |
| pfx_vSL | numeric |
| pfx_vCU | numeric |
| pfx_vCH | numeric |
| pfx_FA-X | numeric |
| pfx_SI-X | numeric |
| pfx_SL-X | numeric |
| pfx_CU-X | numeric |
| pfx_CH-X | numeric |
| pfx_FA-Z | numeric |
| pfx_SI-Z | numeric |
| pfx_SL-Z | numeric |
| pfx_CU-Z | numeric |
| pfx_CH-Z | numeric |
| pfx_wFA | numeric |
| pfx_wSI | numeric |
| pfx_wSL | numeric |
| pfx_wCU | numeric |
| pfx_wCH | numeric |
| pfx_wFA_C | numeric |
| pfx_wSI_C | numeric |
| pfx_wSL_C | numeric |
| pfx_wCU_C | numeric |
| pfx_wCH_C | numeric |
| pfx_O-Swing_pct | numeric |
| pfx_Z-Swing_pct | numeric |
| pfx_Swing_pct | numeric |
| pfx_O-Contact_pct | numeric |
| pfx_Z-Contact_pct | numeric |
| pfx_Contact_pct | numeric |
| pfx_Zone_pct | numeric |
| pfx_Pace | numeric |
| pi_CH_pct | numeric |

| | |
|------------------|---------|
| pi_CU_pct | numeric |
| pi_FA_pct | numeric |
| pi_SI_pct | numeric |
| pi_SL_pct | numeric |
| pi_vCH | numeric |
| pi_vCU | numeric |
| pi_vFA | numeric |
| pi_vSI | numeric |
| pi_vSL | numeric |
| pi_CH-X | numeric |
| pi_CU-X | numeric |
| pi_FA-X | numeric |
| pi_SI-X | numeric |
| pi_SL-X | numeric |
| pi_CH-Z | numeric |
| pi_CU-Z | numeric |
| pi_FA-Z | numeric |
| pi_SI-Z | numeric |
| pi_SL-Z | numeric |
| pi_wCH | numeric |
| pi_wCU | numeric |
| pi_wFA | numeric |
| pi_wSI | numeric |
| pi_wSL | numeric |
| pi_wCH_C | numeric |
| pi_wCU_C | numeric |
| pi_wFA_C | numeric |
| pi_wSI_C | numeric |
| pi_wSL_C | numeric |
| pi_O-Swing_pct | numeric |
| pi_Z-Swing_pct | numeric |
| pi_Swing_pct | numeric |
| pi_O-Contact_pct | numeric |
| pi_Z-Contact_pct | numeric |
| pi_Contact_pct | numeric |
| pi_Zone_pct | numeric |
| pi_Pace | numeric |
| Events | integer |
| EV | numeric |
| LA | numeric |
| Barrels | integer |
| Barrel_pct | numeric |
| maxEV | numeric |
| HardHit | integer |
| HardHit_pct | numeric |
| Q | numeric |
| TG | integer |
| TIP | numeric |

| | |
|---------------|-----------|
| team_name_abb | character |
| teamid | integer |
| CH_pct | numeric |
| CHv | numeric |
| wCH | numeric |
| wCH_C | numeric |
| pb_o_FS | numeric |
| pb_s_FS | numeric |
| pb_c_FS | numeric |
| sp_s_FS | numeric |
| sp_l_FS | numeric |
| sp_p_FS | numeric |
| pfx_FS_pct | numeric |
| pfx_vFS | numeric |
| pfx_FS-X | numeric |
| pfx_FS-Z | numeric |
| pfx_wFS | numeric |
| pfx_wFS_C | numeric |
| pi_FS_pct | numeric |
| pi_vFS | numeric |
| pi_FS-X | numeric |
| pi_FS-Z | numeric |
| pi_wFS | numeric |
| pi_wFS_C | numeric |
| pb_o_FC | numeric |
| pb_s_FC | numeric |
| pb_c_FC | numeric |
| sp_s_FC | numeric |
| sp_l_FC | numeric |
| sp_p_FC | numeric |
| pfx_FC_pct | numeric |
| pfx_vFC | numeric |
| pfx_FC-X | numeric |
| pfx_FC-Z | numeric |
| pfx_wFC | numeric |
| pfx_wFC_C | numeric |
| pi_FC_pct | numeric |
| pi_vFC | numeric |
| pi_FC-X | numeric |
| pi_FC-Z | numeric |
| pi_wFC | numeric |
| pi_wFC_C | numeric |
| pb_o_KC | numeric |
| pb_s_KC | numeric |
| pb_c_KC | numeric |
| sp_s_KC | numeric |
| sp_l_KC | numeric |
| sp_p_KC | numeric |

| | |
|------------|---------|
| rBTV | numeric |
| pfx_KC_pct | numeric |
| pfx_vKC | numeric |
| pfx_KC-X | numeric |
| pfx_KC-Z | numeric |
| pfx_wKC | numeric |
| pfx_wKC_C | numeric |
| rCPTV | numeric |
| KN_pct | numeric |
| KNv | numeric |
| wKN | numeric |
| wKN_C | numeric |
| pfx_KN_pct | numeric |
| pfx_vKN | numeric |
| pfx_KN-X | numeric |
| pfx_KN-Z | numeric |
| pfx_wKN | numeric |
| pfx_wKN_C | numeric |
| pi_KN_pct | numeric |
| pi_XX_pct | numeric |
| pi_vKN | numeric |
| pi_vXX | numeric |
| pi_KN-X | numeric |
| pi_XX-X | numeric |
| pi_KN-Z | numeric |
| pi_XX-Z | numeric |
| pi_wKN | numeric |
| pi_wXX | numeric |
| pi_wKN_C | numeric |
| pi_wXX_C | numeric |
| sp_s_FO | numeric |
| sp_l_FO | numeric |
| sp_p_FO | numeric |
| pfx_FO_pct | numeric |
| pfx_vFO | numeric |
| pfx_FO-X | numeric |
| pfx_FO-Z | numeric |
| pfx_wFO | numeric |
| pfx_wFO_C | numeric |
| rDGV | numeric |
| pi_CS_pct | numeric |
| pi_vCS | numeric |
| pi_CS-X | numeric |
| pi_CS-Z | numeric |
| pi_wCS | numeric |
| pi_wCS_C | numeric |
| Relieving | numeric |
| Relief_IP | numeric |

| | |
|------------|---------|
| rDSV | numeric |
| pfx_EP_pct | numeric |
| pfx_vEP | numeric |
| pfx_EP-X | numeric |
| pfx_EP-Z | numeric |
| pfx_wEP | numeric |
| pfx_wEP_C | numeric |
| pfx_SC_pct | numeric |
| pfx_vSC | numeric |
| pfx_SC-X | numeric |
| pfx_SC-Z | numeric |
| pfx_wSC | numeric |
| pfx_wSC_C | numeric |
| pi_SB_pct | numeric |
| pi_vSB | numeric |
| pi_SB-X | numeric |
| pi_SB-Z | numeric |
| pi_wSB | numeric |
| pi_wSB_C | numeric |

Examples

```
try(fg_pitcher_leaders(startseason = 2023, endseason = 2023))
```

| | |
|------------------|---|
| fg_pitch_leaders | (legacy) Scrape Pitcher Leaderboards from FanGraphs |
|------------------|---|

Description

(legacy) Scrape Pitcher Leaderboards from FanGraphs

Usage

```
fg_pitch_leaders(  
  age = "",  
  pos = "all",  
  stats = "pit",  
  lg = "all",  
  qual = "0",  
  startseason = "2023",  
  endseason = "2023",  
  startdate = "",  
  enddate = "",  
  month = "0",  
  hand = "",
```

```

team = "0",
pageitems = "10000",
pagenum = "1",
ind = "0",
rost = "0",
players = "",
type = "8",
postseason = "",
sortdir = "default",
sortstat = "WAR"
)

```

Arguments

| | |
|-------------|---|
| age | (integer) Age of players |
| pos | (character) Position of players, defaults to "all". To exclude pitchers, use "np". |
| stats | (character) Statistic to return. Defaults to "bat". |
| lg | (character) League to return. Defaults to "all". Options are "al", "nl", or "all". |
| qual | (character) Whether you want only batters/pitchers that qualified in a given season, or the minimum number of plate appearances for inclusion. If you only want qualified hitters, use qual. If a minimum number of plate appearances/innings pitched, use the number desired. Defaults to "y". |
| startseason | (character) Season for which you want to scrape the data. |
| endseason | (character) Last season for which you want data. |
| startdate | (character) Start date for which you want data. |
| enddate | (character) End date for which you want data. |
| month | (character) Month for which you want data. |
| hand | (character) Handedness of batter. Options are "L", "R", or "B". Empty string returns all. |
| team | (character) Teams for which you want data, comma separated. |
| pageitems | (character) Number of items per page. |
| pagenum | (character) Page number. |
| ind | (character) Whether or not to break the seasons out individual, or roll them up together. 1 = split seasons, 0 = aggregate seasons. |
| rost | (character) Whether or not to include players on the roster. 1 = include, 0 = exclude. |
| players | (character) Whether or not to include players on the roster. 1 = include only active roster players, 0 = exclude. |
| type | (character) Defaults to 8, which is the standard leaderboard. The values for the leaderboards appear to go to from type = 0 to 48+, which correspond to links on the leaderboard page. |
| postseason | (logical) Whether or not to include postseason data. TRUE = include postseason, FALSE = exclude postseason. |
| sortdir | (character) Sort direction. Options are "asc" or "desc" or "default". |
| sortstat | (character) Sort by stat. Default is "WAR". |

Value

A data frame of pitcher data.

fg_team_batter

Scrape Team Batter Leaderboards from FanGraphs

Description

This function allows you to scrape all leaderboard statistics (basic and advanced) from FanGraphs.com.

Usage

```
fg_team_batter(
  age = "",
  pos = "all",
  stats = "bat",
  lg = "all",
  qual = "y",
  startseason = "2023",
  endseason = "2023",
  startdate = "",
  enddate = "",
  month = "0",
  hand = "",
  team = "0,ts",
  pageitems = "1000",
  pagenum = "1",
  ind = "0",
  rost = "0",
  players = "",
  type = "8",
  postseason = "",
  sortdir = "default",
  sortstat = "WAR"
)
```

Arguments

| | |
|-------|---|
| age | (integer) Age of players |
| pos | (character) Position of players, defaults to "all". To exclude pitchers, use "np". |
| stats | (character) Statistic to return. Defaults to "bat". |
| lg | (character) League to return. Defaults to "all". Options are "al", "nl", or "all". |
| qual | (character) Whether you want only batters/pitchers that qualified in a given season, or the minimum number of plate appearances for inclusion. If you only want qualified hitters, use qual. If a minimum number of plate appearances/innings pitched, use the number desired. Defaults to "y". |

| | |
|-------------|--|
| startseason | (character) Season for which you want to scrape the data. |
| endseason | (character) Last season for which you want data. |
| startdate | (character) Start date for which you want data. |
| enddate | (character) End date for which you want data. |
| month | (character) Month for which you want data. |
| hand | (character) Handedness of batter. Options are "L", "R", or "B". Empty string returns all. |
| team | (character) Teams for which you want data, comma separated. |
| pageitems | (character) Number of items per page. |
| pagenum | (character) Page number. |
| ind | (character) Whether or not to break the seasons out individual, or roll them up together. 1 = split seasons, 0 = aggregate seasons. |
| roster | (character) Whether or not to include players on the roster. 1 = include, 0 = exclude. |
| players | (character) Whether or not to include players on the roster. 1 = include only active roster players, 0 = exclude. |
| type | (character) Defaults to 8, which is the standard leaderboard. The values for the leaderboards appear to go to from type = 0 to 48+, which correspond to links on the leaderboard page. |
| postseason | (logical) Whether or not to include postseason data. TRUE = include postseason, FALSE = exclude postseason. |
| sortdir | (character) Sort direction. Options are "asc" or "desc" or "default". |
| sortstat | (character) Sort by stat. Default is "WAR". |

Value

A data frame of batter data.

| col_name | types |
|-----------|-----------|
| Season | integer |
| team_name | character |
| SeasonMin | integer |
| SeasonMax | integer |
| G | integer |
| AB | integer |
| PA | integer |
| H | integer |
| 1B | integer |
| 2B | integer |
| 3B | integer |
| HR | integer |
| R | integer |
| RBI | integer |
| BB | integer |

| | |
|-------------|---------|
| IBB | integer |
| SO | integer |
| HBP | integer |
| SF | integer |
| SH | integer |
| GDP | integer |
| SB | integer |
| CS | integer |
| AVG | numeric |
| GB | integer |
| FB | integer |
| LD | integer |
| IFFB | integer |
| Pitches | integer |
| Balls | integer |
| Strikes | integer |
| IFH | integer |
| BU | integer |
| BUH | integer |
| BB_pct | numeric |
| K_pct | numeric |
| BB_K | numeric |
| OBP | numeric |
| SLG | numeric |
| OPS | numeric |
| ISO | numeric |
| BABIP | numeric |
| GB_FB | numeric |
| LD_pct | numeric |
| GB_pct | numeric |
| FB_pct | numeric |
| IFFB_pct | numeric |
| HR_FB | numeric |
| IFH_pct | numeric |
| BUH_pct | numeric |
| TTO_pct | numeric |
| wOBA | numeric |
| wRAA | numeric |
| wRC | numeric |
| Batting | numeric |
| Fielding | numeric |
| Replacement | numeric |
| Positional | numeric |
| wLeague | numeric |
| CFraming | numeric |
| Defense | numeric |
| Offense | numeric |
| RAR | numeric |

| | |
|-------------|---------|
| WAR | numeric |
| WARold | numeric |
| Dollars | numeric |
| BaseRunning | numeric |
| Spd | numeric |
| wRC_plus | numeric |
| wBsR | numeric |
| WPA | numeric |
| WPA_minus | numeric |
| WPA_plus | numeric |
| RE24 | numeric |
| REW | numeric |
| pLI | numeric |
| phLI | numeric |
| PH | integer |
| WPA_LI | numeric |
| Clutch | numeric |
| FBall_pct | numeric |
| FBv | numeric |
| SL_pct | numeric |
| SLv | numeric |
| CT_pct | numeric |
| CTv | numeric |
| CB_pct | numeric |
| CBv | numeric |
| CH_pct | numeric |
| CHv | numeric |
| SF_pct | numeric |
| SFv | numeric |
| KN_pct | numeric |
| KNv | numeric |
| XX_pct | numeric |
| wFB | numeric |
| wSL | numeric |
| wCT | numeric |
| wCB | numeric |
| wCH | numeric |
| wSF | numeric |
| wKN | numeric |
| wFB_C | numeric |
| wSL_C | numeric |
| wCT_C | numeric |
| wCB_C | numeric |
| wCH_C | numeric |
| wSF_C | numeric |
| wKN_C | numeric |
| O-Swing_pct | numeric |
| Z-Swing_pct | numeric |

| | |
|---------------|---------|
| Swing_pct | numeric |
| O-Contact_pct | numeric |
| Z-Contact_pct | numeric |
| Contact_pct | numeric |
| Zone_pct | numeric |
| F-Strike_pct | numeric |
| SwStr_pct | numeric |
| CStr_pct | numeric |
| C+SwStr_pct | numeric |
| Pull | integer |
| Cent | integer |
| Oppo | integer |
| Soft | integer |
| Med | integer |
| Hard | integer |
| bipCount | integer |
| Pull_pct | numeric |
| Cent_pct | numeric |
| Oppo_pct | numeric |
| Soft_pct | numeric |
| Med_pct | numeric |
| Hard_pct | numeric |
| UBR | numeric |
| GDPRuns | numeric |
| AVG+ | numeric |
| BB_pct+ | numeric |
| K_pct+ | numeric |
| OBP+ | numeric |
| SLG+ | numeric |
| ISO+ | numeric |
| BABIP+ | numeric |
| LD_pct+ | numeric |
| GB_pct+ | numeric |
| FB_pct+ | numeric |
| HRFB_pct+ | numeric |
| Pull_pct+ | numeric |
| Cent_pct+ | numeric |
| Oppo_pct+ | numeric |
| Soft_pct+ | numeric |
| Med_pct+ | numeric |
| Hard_pct+ | numeric |
| rFTeamV | integer |
| rBTeamV | integer |
| rTV | integer |
| pfx_FA_pct | numeric |
| pfx_FT_pct | numeric |
| pfx_FC_pct | numeric |
| pfx_FS_pct | numeric |

| | |
|------------|---------|
| pfx_FO_pct | numeric |
| pfx_SI_pct | numeric |
| pfx_SL_pct | numeric |
| pfx_CU_pct | numeric |
| pfx_KC_pct | numeric |
| pfx_EP_pct | numeric |
| pfx_CH_pct | numeric |
| pfx_KN_pct | numeric |
| pfx_vFA | numeric |
| pfx_vFT | numeric |
| pfx_vFC | numeric |
| pfx_vFS | numeric |
| pfx_vFO | numeric |
| pfx_vSI | numeric |
| pfx_vSL | numeric |
| pfx_vCU | numeric |
| pfx_vKC | numeric |
| pfx_vEP | numeric |
| pfx_vCH | numeric |
| pfx_vKN | numeric |
| pfx_FA-X | numeric |
| pfx_FT-X | numeric |
| pfx_FC-X | numeric |
| pfx_FS-X | numeric |
| pfx_FO-X | numeric |
| pfx_SI-X | numeric |
| pfx_SL-X | numeric |
| pfx_CU-X | numeric |
| pfx_KC-X | numeric |
| pfx_EP-X | numeric |
| pfx_CH-X | numeric |
| pfx_KN-X | numeric |
| pfx_FA-Z | numeric |
| pfx_FT-Z | numeric |
| pfx_FC-Z | numeric |
| pfx_FS-Z | numeric |
| pfx_FO-Z | numeric |
| pfx_SI-Z | numeric |
| pfx_SL-Z | numeric |
| pfx_CU-Z | numeric |
| pfx_KC-Z | numeric |
| pfx_EP-Z | numeric |
| pfx_CH-Z | numeric |
| pfx_KN-Z | numeric |
| pfx_wFA | numeric |
| pfx_wFT | numeric |
| pfx_wFC | numeric |
| pfx_wFS | numeric |

| | |
|-------------------|---------|
| pfx_wFO | numeric |
| pfx_wSI | numeric |
| pfx_wSL | numeric |
| pfx_wCU | numeric |
| pfx_wKC | numeric |
| pfx_wEP | numeric |
| pfx_wCH | numeric |
| pfx_wKN | numeric |
| pfx_wFA_C | numeric |
| pfx_wFT_C | numeric |
| pfx_wFC_C | numeric |
| pfx_wFS_C | numeric |
| pfx_wFO_C | numeric |
| pfx_wSI_C | numeric |
| pfx_wSL_C | numeric |
| pfx_wCU_C | numeric |
| pfx_wKC_C | numeric |
| pfx_wEP_C | numeric |
| pfx_wCH_C | numeric |
| pfx_wKN_C | numeric |
| pfx_O-Swing_pct | numeric |
| pfx_Z-Swing_pct | numeric |
| pfx_Swing_pct | numeric |
| pfx_O-Contact_pct | numeric |
| pfx_Z-Contact_pct | numeric |
| pfx_Contact_pct | numeric |
| pfx_Zone_pct | numeric |
| pfx_Pace | numeric |
| pi_CH_pct | numeric |
| pi_CS_pct | numeric |
| pi_CU_pct | numeric |
| pi_FA_pct | numeric |
| pi_FC_pct | numeric |
| pi_FS_pct | numeric |
| pi_KN_pct | numeric |
| pi_SI_pct | numeric |
| pi_SL_pct | numeric |
| pi_XX_pct | numeric |
| pi_vCH | numeric |
| pi_vCS | numeric |
| pi_vCU | numeric |
| pi_vFA | numeric |
| pi_vFC | numeric |
| pi_vFS | numeric |
| pi_vKN | numeric |
| pi_vSI | numeric |
| pi_vSL | numeric |
| pi_vXX | numeric |

| | |
|------------------|---------|
| pi_CH-X | numeric |
| pi_CS-X | numeric |
| pi_CU-X | numeric |
| pi_FA-X | numeric |
| pi_FC-X | numeric |
| pi_FS-X | numeric |
| pi_KN-X | numeric |
| pi_SI-X | numeric |
| pi_SL-X | numeric |
| pi_XX-X | numeric |
| pi_CH-Z | numeric |
| pi_CS-Z | numeric |
| pi_CU-Z | numeric |
| pi_FA-Z | numeric |
| pi_FC-Z | numeric |
| pi_FS-Z | numeric |
| pi_KN-Z | numeric |
| pi_SI-Z | numeric |
| pi_SL-Z | numeric |
| pi_XX-Z | numeric |
| pi_wCH | numeric |
| pi_wCS | numeric |
| pi_wCU | numeric |
| pi_wFA | numeric |
| pi_wFC | numeric |
| pi_wFS | numeric |
| pi_wKN | numeric |
| pi_wSI | numeric |
| pi_wSL | numeric |
| pi_wXX | numeric |
| pi_wCH_C | numeric |
| pi_wCS_C | numeric |
| pi_wCU_C | numeric |
| pi_wFA_C | numeric |
| pi_wFC_C | numeric |
| pi_wFS_C | numeric |
| pi_wKN_C | numeric |
| pi_wSI_C | numeric |
| pi_wSL_C | numeric |
| pi_wXX_C | numeric |
| pi_O-Swing_pct | numeric |
| pi_Z-Swing_pct | numeric |
| pi_Swing_pct | numeric |
| pi_O-Contact_pct | numeric |
| pi_Z-Contact_pct | numeric |
| pi_Contact_pct | numeric |
| pi_Zone_pct | numeric |
| pi_Pace | numeric |

| | |
|---------------|-----------|
| Events | integer |
| EV | numeric |
| LA | numeric |
| Barrels | integer |
| Barrel_pct | numeric |
| maxEV | numeric |
| HardHit | integer |
| HardHit_pct | numeric |
| Q | numeric |
| TG | integer |
| TPA | integer |
| team_name_abb | character |
| teamid | integer |
| Pos | numeric |
| pi_SB_pct | numeric |
| pi_vSB | numeric |
| pi_SB-X | numeric |
| pi_SB-Z | numeric |
| pi_wSB | numeric |
| pi_wSB_C | numeric |
| pfx_SC_pct | numeric |
| pfx_vSC | numeric |
| pfx_SC-X | numeric |
| pfx_SC-Z | numeric |
| pfx_wSC | numeric |
| pfx_wSC_C | numeric |

Examples

```
try(fg_team_batter(startseason = 2015, endseason = 2015, qual = 200))
```

| | |
|-----------------|---|
| fg_team_fielder | Scrape Team Fielder Leaderboards from FanGraphs |
|-----------------|---|

Description

Scrape Team Fielder Leaderboards from FanGraphs

Usage

```
fg_team_fielder(  
  age = "",  
  pos = "all",  
  stats = "fld",  
  lg = "all",
```

```

qual = "0",
startseason = "2023",
endseason = "2023",
startdate = "",
enddate = "",
month = "0",
hand = "",
team = "0,ts",
pageitems = "1000",
pagenum = "1",
ind = "0",
rost = "0",
players = "",
type = "1",
postseason = "",
sortdir = "default",
sortstat = "Defense"
)

```

Arguments

| | |
|-------------|---|
| age | (integer) Age of players |
| pos | (character) Position of players, defaults to "all". To exclude pitchers, use "np". |
| stats | (character) Statistic to return. Defaults to "bat". |
| lg | (character) League to return. Defaults to "all". Options are "al", "nl", or "all". |
| qual | (character) Whether you want only batters/pitchers that qualified in a given season, or the minimum number of plate appearances for inclusion. If you only want qualified hitters, use qual. If a minimum number of plate appearances/innings pitched, use the number desired. Defaults to "y". |
| startseason | (character) Season for which you want to scrape the data. |
| endseason | (character) Last season for which you want data. |
| startdate | (character) Start date for which you want data. |
| enddate | (character) End date for which you want data. |
| month | (character) Month for which you want data. |
| hand | (character) Handedness of batter. Options are "L", "R", or "B". Empty string returns all. |
| team | (character) Teams for which you want data, comma separated. |
| pageitems | (character) Number of items per page. |
| pagenum | (character) Page number. |
| ind | (character) Whether or not to break the seasons out individual, or roll them up together. 1 = split seasons, 0 = aggregate seasons. |
| rost | (character) Whether or not to include players on the roster. 1 = include, 0 = exclude. |

| | |
|------------|--|
| players | (character) Whether or not to include players on the roster. 1 = include only active roster players, 0 = exclude. |
| type | (character) Defaults to 8, which is the standard leaderboard. The values for the leaderboards appear to go to from type = 0 to 48+, which correspond to links on the leaderboard page. |
| postseason | (logical) Whether or not to include postseason data. TRUE = include postseason, FALSE = exclude postseason. |
| sortdir | (character) Sort direction. Options are "asc" or "desc" or "default". |
| sortstat | (character) Sort by stat. Default is "Defense". |

Value

A data frame of fielder data.

| col_name | types |
|-----------|-----------|
| Season | integer |
| team_name | character |
| SeasonMin | integer |
| SeasonMax | integer |
| Pos | character |
| G | integer |
| GS | integer |
| Inn | integer |
| PO | integer |
| A | integer |
| E | integer |
| FE | integer |
| TE | integer |
| DP | integer |
| DPS | integer |
| DPT | integer |
| DPF | integer |
| Scp | integer |
| SB | integer |
| CS | integer |
| PB | integer |
| WP | integer |
| FP | numeric |
| rSB | integer |
| rGDP | integer |
| rARM | integer |
| rGFP | integer |
| rPM | integer |
| rSZ | numeric |
| rTS | integer |
| rCERA | integer |
| DRS | integer |
| BIZ | integer |

| | |
|---------------|-----------|
| Plays | integer |
| RZR | numeric |
| OOZ | integer |
| ARM | numeric |
| DPR | numeric |
| RngR | numeric |
| ErrR | numeric |
| UZR | numeric |
| UZR_150 | numeric |
| Defense | numeric |
| CStrikes | numeric |
| CFraming | numeric |
| OAA | integer |
| rFRP | integer |
| Q | numeric |
| TIInn | numeric |
| teamid | integer |
| team_name_abb | character |

Examples

```
try(fg_team_fielder(startseason = 2023, endseason = 2023, qual = 150))
```

| | |
|-----------------|--|
| fg_team_pitcher | Scrape Team Pitcher Leaderboards from FanGraphs |
|-----------------|--|

Description

Scrape Team Pitcher Leaderboards from FanGraphs

Usage

```
fg_team_pitcher(  
  age = "",  
  pos = "all",  
  stats = "pit",  
  lg = "all",  
  qual = "y",  
  startseason = "2023",  
  endseason = "2023",  
  startdate = "",  
  enddate = "",  
  month = "0",  
  hand = "",  
  team = "0,ts",
```

```

    pageitems = "1000",
    pagenum = "1",
    ind = "0",
    rost = "0",
    players = "",
    type = "8",
    postseason = "",
    sortdir = "default",
    sortstat = "WAR"
)

```

Arguments

| | |
|-------------|---|
| age | (integer) Age of players |
| pos | (character) Position of players, defaults to "all". To exclude pitchers, use "np". |
| stats | (character) Statistic to return. Defaults to "bat". |
| lg | (character) League to return. Defaults to "all". Options are "al", "nl", or "all". |
| qual | (character) Whether you want only batters/pitchers that qualified in a given season, or the minimum number of plate appearances for inclusion. If you only want qualified hitters, use qual. If a minimum number of plate appearances/innings pitched, use the number desired. Defaults to "y". |
| startseason | (character) Season for which you want to scrape the data. |
| endseason | (character) Last season for which you want data. |
| startdate | (character) Start date for which you want data. |
| enddate | (character) End date for which you want data. |
| month | (character) Month for which you want data. |
| hand | (character) Handedness of batter. Options are "L", "R", or "B". Empty string returns all. |
| team | (character) Teams for which you want data, comma separated. |
| pageitems | (character) Number of items per page. |
| pagenum | (character) Page number. |
| ind | (character) Whether or not to break the seasons out individual, or roll them up together. 1 = split seasons, 0 = aggregate seasons. |
| rost | (character) Whether or not to include players on the roster. 1 = include, 0 = exclude. |
| players | (character) Whether or not to include players on the roster. 1 = include only active roster players, 0 = exclude. |
| type | (character) Defaults to 8, which is the standard leaderboard. The values for the leaderboards appear to go to from type = 0 to 48+, which correspond to links on the leaderboard page. |
| postseason | (logical) Whether or not to include postseason data. TRUE = include postseason, FALSE = exclude postseason. |
| sortdir | (character) Sort direction. Options are "asc" or "desc" or "default". |
| sortstat | (character) Sort by stat. Default is "WAR". |

Value

A data frame of pitcher data.

| col_name | types |
|-----------|-----------|
| Season | integer |
| team_name | character |
| SeasonMin | integer |
| SeasonMax | integer |
| W | integer |
| L | integer |
| ERA | numeric |
| G | integer |
| GS | integer |
| CG | integer |
| ShO | integer |
| SV | integer |
| BS | integer |
| IP | numeric |
| TBF | integer |
| H | integer |
| R | integer |
| ER | integer |
| HR | integer |
| BB | integer |
| IBB | integer |
| HBP | integer |
| WP | integer |
| BK | integer |
| SO | integer |
| GB | integer |
| FB | integer |
| LD | integer |
| IFFB | integer |
| Pitches | integer |
| Balls | integer |
| Strikes | integer |
| RS | integer |
| IFH | integer |
| BU | integer |
| BUH | integer |
| K_9 | numeric |
| BB_9 | numeric |
| K_BB | numeric |
| H_9 | numeric |
| HR_9 | numeric |
| AVG | numeric |
| WHIP | numeric |
| BABIP | numeric |

| | |
|-----------|---------|
| LOB_pct | numeric |
| FIP | numeric |
| GB_FB | numeric |
| LD_pct | numeric |
| GB_pct | numeric |
| FB_pct | numeric |
| IFFB_pct | numeric |
| HR_FB | numeric |
| IFH_pct | numeric |
| BUH_pct | numeric |
| TTO_pct | numeric |
| C Framing | numeric |
| Starting | numeric |
| Start_IP | numeric |
| Relieving | numeric |
| Relief_IP | numeric |
| RAR | numeric |
| WAR | numeric |
| Dollars | numeric |
| RA9-Wins | numeric |
| LOB-Wins | numeric |
| BIP-Wins | numeric |
| BS-Wins | numeric |
| tERA | numeric |
| xFIP | numeric |
| WPA | numeric |
| WPA_minus | numeric |
| WPA_plus | numeric |
| RE24 | numeric |
| REW | numeric |
| pLI | numeric |
| inLI | numeric |
| gmLI | numeric |
| exLI | numeric |
| Pulls | integer |
| Games | integer |
| WPA_LI | numeric |
| Clutch | numeric |
| FBall_pct | numeric |
| FBv | numeric |
| SL_pct | numeric |
| SLv | numeric |
| CT_pct | numeric |
| CTv | numeric |
| CB_pct | numeric |
| CBv | numeric |
| CH_pct | numeric |
| CHv | numeric |

| | |
|---------------|---------|
| SF_pct | numeric |
| SFv | numeric |
| XX_pct | numeric |
| wFB | numeric |
| wSL | numeric |
| wCT | numeric |
| wCB | numeric |
| wCH | numeric |
| wSF | numeric |
| wFB_C | numeric |
| wSL_C | numeric |
| wCT_C | numeric |
| wCB_C | numeric |
| wCH_C | numeric |
| wSF_C | numeric |
| O-Swing_pct | numeric |
| Z-Swing_pct | numeric |
| Swing_pct | numeric |
| O-Contact_pct | numeric |
| Z-Contact_pct | numeric |
| Contact_pct | numeric |
| Zone_pct | numeric |
| F-Strike_pct | numeric |
| SwStr_pct | numeric |
| CStr_pct | numeric |
| C+SwStr_pct | numeric |
| HLD | integer |
| SD | integer |
| MD | integer |
| ERA- | numeric |
| FIP- | numeric |
| xFIP- | numeric |
| K_pct | numeric |
| BB_pct | numeric |
| K-BB_pct | numeric |
| SIERA | numeric |
| kwERA | numeric |
| RS_9 | numeric |
| E-F | numeric |
| Pull | integer |
| Cent | integer |
| Oppo | integer |
| Soft | integer |
| Med | integer |
| Hard | integer |
| bipCount | integer |
| Pull_pct | numeric |
| Cent_pct | numeric |

| | |
|------------|---------|
| Oppo_pct | numeric |
| Soft_pct | numeric |
| Med_pct | numeric |
| Hard_pct | numeric |
| K_9+ | numeric |
| BB_9+ | numeric |
| K_BB+ | numeric |
| H_9+ | numeric |
| HR_9+ | numeric |
| AVG+ | numeric |
| WHIP+ | numeric |
| BABIP+ | numeric |
| LOB_pct+ | numeric |
| K_pct+ | numeric |
| BB_pct+ | numeric |
| LD_pct+ | numeric |
| GB_pct+ | numeric |
| FB_pct+ | numeric |
| HRFB_pct+ | numeric |
| Pull_pct+ | numeric |
| Cent_pct+ | numeric |
| Oppo_pct+ | numeric |
| Soft_pct+ | numeric |
| Med_pct+ | numeric |
| Hard_pct+ | numeric |
| rFTeamV | integer |
| rBTeamV | integer |
| rTV | integer |
| pfx_FA_pct | numeric |
| pfx_FT_pct | numeric |
| pfx_FC_pct | numeric |
| pfx_FS_pct | numeric |
| pfx_SI_pct | numeric |
| pfx_SL_pct | numeric |
| pfx_CU_pct | numeric |
| pfx_KC_pct | numeric |
| pfx_CH_pct | numeric |
| pfx_vFA | numeric |
| pfx_vFT | numeric |
| pfx_vFC | numeric |
| pfx_vFS | numeric |
| pfx_vSI | numeric |
| pfx_vSL | numeric |
| pfx_vCU | numeric |
| pfx_vKC | numeric |
| pfx_vCH | numeric |
| pfx_FA-X | numeric |
| pfx_FT-X | numeric |

| | |
|-------------------|---------|
| pfx_FC-X | numeric |
| pfx_FS-X | numeric |
| pfx_SI-X | numeric |
| pfx_SL-X | numeric |
| pfx_CU-X | numeric |
| pfx_KC-X | numeric |
| pfx_CH-X | numeric |
| pfx_FA-Z | numeric |
| pfx_FT-Z | numeric |
| pfx_FC-Z | numeric |
| pfx_FS-Z | numeric |
| pfx_SI-Z | numeric |
| pfx_SL-Z | numeric |
| pfx_CU-Z | numeric |
| pfx_KC-Z | numeric |
| pfx_CH-Z | numeric |
| pfx_wFA | numeric |
| pfx_wFT | numeric |
| pfx_wFC | numeric |
| pfx_wFS | numeric |
| pfx_wSI | numeric |
| pfx_wSL | numeric |
| pfx_wCU | numeric |
| pfx_wKC | numeric |
| pfx_wCH | numeric |
| pfx_wFA_C | numeric |
| pfx_wFT_C | numeric |
| pfx_wFC_C | numeric |
| pfx_wFS_C | numeric |
| pfx_wSI_C | numeric |
| pfx_wSL_C | numeric |
| pfx_wCU_C | numeric |
| pfx_wKC_C | numeric |
| pfx_wCH_C | numeric |
| pfx_O-Swing_pct | numeric |
| pfx_Z-Swing_pct | numeric |
| pfx_Swing_pct | numeric |
| pfx_O-Contact_pct | numeric |
| pfx_Z-Contact_pct | numeric |
| pfx_Contact_pct | numeric |
| pfx_Zone_pct | numeric |
| pfx_Pace | numeric |
| pi_CH_pct | numeric |
| pi_CU_pct | numeric |
| pi_FA_pct | numeric |
| pi_FC_pct | numeric |
| pi_FS_pct | numeric |
| pi_SI_pct | numeric |

| | |
|------------------|---------|
| pi_SL_pct | numeric |
| pi_XX_pct | numeric |
| pi_vCH | numeric |
| pi_vCU | numeric |
| pi_vFA | numeric |
| pi_vFC | numeric |
| pi_vFS | numeric |
| pi_vSI | numeric |
| pi_vSL | numeric |
| pi_vXX | numeric |
| pi_CH-X | numeric |
| pi_CU-X | numeric |
| pi_FA-X | numeric |
| pi_FC-X | numeric |
| pi_FS-X | numeric |
| pi_SI-X | numeric |
| pi_SL-X | numeric |
| pi_XX-X | numeric |
| pi_CH-Z | numeric |
| pi_CU-Z | numeric |
| pi_FA-Z | numeric |
| pi_FC-Z | numeric |
| pi_FS-Z | numeric |
| pi_SI-Z | numeric |
| pi_SL-Z | numeric |
| pi_XX-Z | numeric |
| pi_wCH | numeric |
| pi_wCU | numeric |
| pi_wFA | numeric |
| pi_wFC | numeric |
| pi_wFS | numeric |
| pi_wSI | numeric |
| pi_wSL | numeric |
| pi_wXX | numeric |
| pi_wCH_C | numeric |
| pi_wCU_C | numeric |
| pi_wFA_C | numeric |
| pi_wFC_C | numeric |
| pi_wFS_C | numeric |
| pi_wSI_C | numeric |
| pi_wSL_C | numeric |
| pi_wXX_C | numeric |
| pi_O-Swing_pct | numeric |
| pi_Z-Swing_pct | numeric |
| pi_Swing_pct | numeric |
| pi_O-Contact_pct | numeric |
| pi_Z-Contact_pct | numeric |
| pi_Contact_pct | numeric |

| | |
|---------------|-----------|
| pi_Zone_pct | numeric |
| pi_Pace | numeric |
| Events | integer |
| EV | numeric |
| LA | numeric |
| Barrels | integer |
| Barrel_pct | numeric |
| maxEV | numeric |
| HardHit | integer |
| HardHit_pct | numeric |
| Q | numeric |
| TG | integer |
| TIP | numeric |
| team_name_abb | character |
| teamid | integer |
| pfx_EP_pct | numeric |
| pfx_vEP | numeric |
| pfx_EP-X | numeric |
| pfx_EP-Z | numeric |
| pfx_wEP | numeric |
| pfx_wEP_C | numeric |
| pi_SB_pct | numeric |
| pi_vSB | numeric |
| pi_SB-X | numeric |
| pi_SB-Z | numeric |
| pi_wSB | numeric |
| pi_wSB_C | numeric |
| pi_CS_pct | numeric |
| pi_vCS | numeric |
| pi_CS-X | numeric |
| pi_CS-Z | numeric |
| pi_wCS | numeric |
| pi_wCS_C | numeric |
| pi_KN_pct | numeric |
| pi_vKN | numeric |
| pi_KN-X | numeric |
| pi_KN-Z | numeric |
| pi_wKN | numeric |
| pi_wKN_C | numeric |
| KN_pct | numeric |
| KNv | numeric |
| wKN | numeric |
| wKN_C | numeric |
| pfx_KN_pct | numeric |
| pfx_vKN | numeric |
| pfx_KN-X | numeric |
| pfx_KN-Z | numeric |
| pfx_wKN | numeric |

| | |
|------------|---------|
| pfx_wKN_C | numeric |
| pfx_SC_pct | numeric |
| pfx_vSC | numeric |
| pfx_SC-X | numeric |
| pfx_SC-Z | numeric |
| pfx_wSC | numeric |
| pfx_wSC_C | numeric |
| pfx_FO_pct | numeric |
| pfx_vFO | numeric |
| pfx_FO-X | numeric |
| pfx_FO-Z | numeric |
| pfx_wFO | numeric |
| pfx_wFO_C | numeric |

Examples

```
try(fg_team_pitcher(startseason = 2015, endseason = 2015, qual = 150))
```

fip_plus

Calculate FIP and related metrics for any set of data

Description

This function allows you to calculate FIP and related metrics for any given set of data, provided the right variables are in the data set. The function currently returns both FIP per inning pitched, wOBA against (based on batters faced), and wOBA against per instance of fair contact.

Usage

```
fip_plus(df)
```

Arguments

df A data frame of statistics that includes, at a minimum, the following columns: IP (innings pitched), BF (batters faced), uBB (unintentional walks), HBP (Hit By Pitch), x1B (singles), x2B (doubles), x3B (triples), HR (home runs), AB (at-bats), SH (sacrifice hits), SO (strike outs), and season.

Value

Returns a tibble with the following columns:

| | |
|----------|-----------|
| col_name | types |
| bbref_id | character |
| season | integer |

| | |
|------------------|-----------|
| Name | character |
| Age | numeric |
| Level | character |
| Team | character |
| G | numeric |
| GS | numeric |
| W | numeric |
| L | numeric |
| SV | numeric |
| IP | numeric |
| H | numeric |
| R | numeric |
| ER | numeric |
| uBB | numeric |
| BB | numeric |
| SO | numeric |
| HR | numeric |
| HBP | numeric |
| ERA | numeric |
| AB | numeric |
| X1B | numeric |
| X2B | numeric |
| X3B | numeric |
| IBB | numeric |
| GDP | numeric |
| SF | numeric |
| SB | numeric |
| CS | numeric |
| PO | numeric |
| BF | numeric |
| Pit | numeric |
| Str | numeric |
| StL | numeric |
| StS | numeric |
| GB.FB | numeric |
| LD | numeric |
| PU | numeric |
| WHIP | numeric |
| BAbip | numeric |
| SO9 | numeric |
| SO.W | numeric |
| SO_perc | numeric |
| uBB_perc | numeric |
| SO_uBB | numeric |
| FIP | numeric |
| wOBA_against | numeric |
| wOBA_CON_against | numeric |

Examples

```
try({  
  df <- bref_daily_pitcher("2015-04-05", "2015-04-30")  
  fip_plus(df)  
})
```

| | |
|--------------------|--|
| get_batting_orders | (legacy) Retrieve batting orders for a given MLB game |
|--------------------|--|

Description

(legacy) Retrieve batting orders for a given MLB game

Usage

```
get_batting_orders(game_pk, type = "starting")
```

Arguments

| | |
|---------|--|
| game_pk | The unique game_pk identifier for the game |
| type | Whether to just return the starting lineup ('starting') or all batters that appeared ('all') |

Value

Returns a tibble that includes probable starting pitchers and the home plate umpire for the game_pk requested

| | |
|---------------|---|
| get_draft_mlb | (legacy) Retrieve draft pick information by year |
|---------------|---|

Description

(legacy) Retrieve draft pick information by year

Usage

```
get_draft_mlb(year)
```

Arguments

| | |
|------|-----------------------------------|
| year | The year for which to return data |
|------|-----------------------------------|

Value

Returns a tibble with information for every draft pick in every round for the year requested

| | |
|-------------------|---|
| get_game_info_mlb | (legacy) Retrieve additional game information for major and minor league games |
|-------------------|---|

Description**(legacy) Retrieve additional game information for major and minor league games****Usage**

```
get_game_info_mlb(game_pk)
```

Arguments

| | |
|---------|--|
| game_pk | The unique game_pk identifier for the game |
|---------|--|

Value

Returns a tibble that includes supplemental information, such as weather, official scorer, attendance, etc., for the game_pk provided

| | |
|-------------------------|--|
| get_game_info_sup_petti | (legacy) Download a data frame of supplemental data about MLB games since 2008. |
|-------------------------|--|

Description**(legacy) Download a data frame of supplemental data about MLB games since 2008.****Usage**

```
get_game_info_sup_petti()
```

Value

Function returns a tibble with various columns, including:

- game_pk
- game_date
- venue id
- attendance
- game temperature
- wind speed
- direction
- start time
- end time

| | |
|------------------|---|
| get_game_pks_mlb | (legacy) Get MLB Game Info by Date and Level |
|------------------|---|

Description**(legacy) Get MLB Game Info by Date and Level****Usage**

```
get_game_pks_mlb(date, level_ids = c(1))
```

Arguments

| | |
|-----------|--|
| date | The date for which you want to find game_pk values for MLB games |
| level_ids | A numeric vector with ids for each level where game_pks are desired. See below for a reference of level ids. |

Value

Returns a tibble that includes game_pk values and additional information for games scheduled or played

| | |
|-----------------------|---|
| get_ncaa_baseball_pbp | (legacy) Get Play-By-Play Data for NCAA Baseball Games |
|-----------------------|---|

Description**(legacy) Get Play-By-Play Data for NCAA Baseball Games****(legacy) Get Play-By-Play Data for NCAA Baseball Games****Usage**

```
get_ncaa_baseball_pbp(
  game_info_url = NA_character_,
  game_pbp_url = NA_character_,
  raw_html_to_disk = FALSE,
  raw_html_path = "/",
  read_from_file = FALSE,
  file = NA_character_,
  ...
)

ncaa_baseball_pbp(
  game_info_url = NA_character_,
  game_pbp_url = NA_character_,
```

```

    raw_html_to_disk = FALSE,
    raw_html_path = "/",
    read_from_file = FALSE,
    file = NA_character_,
    ...
  )

```

Arguments

| | |
|------------------|---|
| game_info_url | The url for the game's boxscore data. This can be found using the <code>ncaa_schedule_info</code> function. |
| game_pbp_url | The url for the game's play-by-play data. This can be found using the <code>ncaa_schedule_info</code> function. |
| raw_html_to_disk | Write raw html to disk (saves as {game_pbp_id}.html in raw_html_path directory) |
| raw_html_path | Directory path to write raw html |
| read_from_file | Read from raw html on disk |
| file | File with full path to read raw html |
| ... | Additional arguments passed to an underlying function like <code>httr</code> . |

Value

A data frame with play-by-play data for an individual game.

A data frame with play-by-play data for an individual game.

| | |
|--------------------|---|
| get_ncaa_game_logs | (legacy) Get NCAA Baseball Game Logs |
|--------------------|---|

Description

(legacy) Get NCAA Baseball Game Logs

Usage

```
get_ncaa_game_logs(player_id, year, type = "batting", span = "game", ...)
```

Arguments

| | |
|-----------|---|
| player_id | A player's unique id. Can be found using the <code>get_ncaa_baseball_roster</code> function. |
| year | The year of interest. |
| type | The kind of statistics you want to return. Current options are 'batting' or 'pitching'. |
| span | The span of time; can either be 'game' for game logs in a season, or 'career' which returns seasonal stats for a player's career. |
| ... | Additional arguments passed to an underlying function like <code>httr</code> . |

Value

A data frame containing player and school information as well as game by game statistics

| | |
|------------------|--|
| get_ncaa_lineups | (legacy) Retrieve lineups for a given NCAA game via its game_info_url |
|------------------|--|

Description

(legacy) Retrieve lineups for a given NCAA game via its game_info_url

Usage

```
get_ncaa_lineups(game_info_url = NULL, ...)
```

Arguments

| | |
|---------------|--|
| game_info_url | The unique game info url |
| ... | Additional arguments passed to an underlying function like httr. |

Value

Returns a tibble of each school's starting lineup and starting pitcher

| | |
|----------------------|--|
| get_ncaa_park_factor | (legacy) Get Park Effects for NCAA Baseball Teams |
|----------------------|--|

Description

(legacy) Get Park Effects for NCAA Baseball Teams

Usage

```
get_ncaa_park_factor(team_id, years, type = "conference", ...)
```

Arguments

| | |
|---------|---|
| team_id | The team's unique NCAA id. |
| years | The season or seasons (i.e. use 2016 for the 2015-2016 season, etc., limited to just 2013-2023 seasons). |
| type | default is conference. the conference parameter adjusts for the conference the school plays in, the division parameter calculates based on the division the school plays in 1,2,or 3. Defaults to 'conference'. |
| ... | Additional arguments passed to an underlying function like httr. |

Value

A data frame with the following fields: school, home_game, away_game, runs_scored_home, runs_allowed_home, run_scored_away, runs_allowed_away, base_pf (base park factor), home_game_adj (an adjustment for the percentage of home games played) final_pf (park factor after adjustments)

| | |
|------------------------|---|
| get_ncaa_schedule_info | (legacy) Get Schedule and Results for NCAA Baseball Teams |
|------------------------|---|

Description

(legacy) Get Schedule and Results for NCAA Baseball Teams

Usage

```
get_ncaa_schedule_info(team_id = NULL, year = NULL, pbp_links = FALSE, ...)
```

Arguments

| | |
|-----------|---|
| team_id | The team's unique NCAA id. |
| year | The season (i.e. use 2016 for the 2015-2016 season, etc.) |
| pbp_links | Logical parameter to run process for scraping play_by_play urls for each game |
| ... | Additional arguments passed to an underlying function like httr. |

Value

A data frame with the following fields: date, opponent, result, score, innings (if more than regulation), and the url for the game itself.

| | |
|-------------|---|
| get_pbp_mlb | (legacy) Acquire pitch-by-pitch data for Major and Minor League games |
|-------------|---|

Description

(legacy) Acquire pitch-by-pitch data for Major and Minor League games
(legacy) Acquire pitch-by-pitch data for Major and Minor League games

Usage

```
get_pbp_mlb(game_pk)

get_pbp_mlb(game_pk)
```

Arguments

game_pk The date for which you want to find game_pk values for MLB games

Value

Returns a tibble that includes over 100 columns of data provided by the MLB Stats API at a pitch level.

Returns a tibble that includes over 100 columns of data provided by the MLB Stats API at a pitch level.

| | |
|-------------------|---|
| get_probables_mlb | (legacy) Retrieve probable starters for a given MLB game |
|-------------------|---|

Description

(legacy) Retrieve probable starters for a given MLB game

Usage

```
get_probables_mlb(game_pk)
```

Arguments

game_pk The unique game_pk identifier for the game

Value

Returns a tibble that includes probable starting pitchers and the home plate umpire for the game_pk requested

| | |
|---------------------|--|
| get_retrosheet_data | (legacy) Get, Parse, and Format Retrosheet Event and Roster Files |
|---------------------|--|

Description

(legacy) Get, Parse, and Format Retrosheet Event and Roster Files

Usage

```
get_retrosheet_data(
  path_to_directory = NULL,
  years_to_acquire = most_recent_mlb_season() - 1,
  sequence_years = FALSE
)
```

Arguments`path_to_directory`

(default: NULL) A file path that if set, either:

1. creates a new directory, or
2. uses the path to an existing directory

`years_to_acquire`

(format: YYYY) The seasons to collect. Single, multiple, and sequential years can be passed. If passing multiple years, enclose in a vector (i.e. `c(2017,2018)`). Defaults to `most_recent_mlb_season()`.

`sequence_years`

(logical, default: FALSE): If the seasons passed in the `years_to_acquire` parameter should be sequenced so that the function returns all years including and between the vector passed, set the argument to TRUE. Defaults to FALSE.

Value

If `path_to_directory` is not set (default), the process will return a named list of tibbles: 'events' and 'rosters' for each season provided to `years_to_acquire`. If `path_to_directory` is set, will also write two csv files to the unzipped directory: 1) a combined csv of the event data for a given year and 2) a combined csv of each team's roster for each year provided to `years_to_acquire`.

`get_umpire_ids_petti` **(legacy) Download a data frame of all umpires and their MLBAM IDs for games since 2008**

Description

(legacy) Download a data frame of all umpires and their MLBAM IDs for games since 2008

Usage

```
get_umpire_ids_petti()
```

Value

Function returns a tibble with the following columns:

- id
- position,
- name
- game_pk
- game_date

ggspraychart

Generate spray charts with ggplot2**Description**

This function allows you to create spray charts with ggplots given a data frame with batted ball location coordinates.

Usage

```
ggspraychart(
  data,
  x_value = "hc_x",
  y_value = "-hc_y",
  fill_value = NULL,
  fill_palette = NULL,
  fill_legend_title = NULL,
  density = FALSE,
  bin_size = 15,
  point_alpha = 0.75,
  point_size = 2,
  frame = NULL
)
```

Arguments

| | |
|--------------------------------|--|
| <code>data</code> | A data frame that includes batted ball coordinates. Typically, this coordinates will come from the GameDay xml feed or downloads from baseballsavant.com |
| <code>x_value</code> | The x coordindate. Typically <code>hc_x</code> . |
| <code>y_value</code> | The y coordinate. Typically <code>hc_y</code> . You generally need the inverse or negative of the <code>hc_y</code> values, so it is recommended you calculate before plotting. |
| <code>fill_value</code> | The categorical variable that you want the <code>geom_points</code> to base the fill on. Pass as a string. If left blank, defaults to blue. |
| <code>fill_palette</code> | An object containing a customer palette to be used with <code>ggplot2::scale_fill_manual</code> . |
| <code>fill_legend_title</code> | A string containing a custom legend title to be used with <code>ggplot2::scale_fill_manual</code> . |
| <code>density</code> | Chooses between a 2d density plot or a point plot. Defaults to FALSE. |
| <code>bin_size</code> | Size of bins used when building a density plot. Defaults to 15. |
| <code>point_alpha</code> | Alpha value whenever <code>geom_point</code> is used. Defaults to .75. Recommend .3 for density plots. To remove points on density points set use <code>point_alpha = 0</code> . |
| <code>point_size</code> | Set the size of <code>geom_point</code> if used. |
| <code>frame</code> | Variable to use as the frame argument if using <code>gganimate</code> to create animated plots. For density plots be sure your variable is a factor. |

Details

```
ggspraychart(df, x_value = "hc_x", y_value = "-hc_y", fill_value = "events")
```

Value

A plot of the spraychart for the supplied dataset

| |
|---------------------------------------|
| label_statcast_imputed_data |
| Label Statcast data as imputed |

Description

Based on a series of heuristics, this function attempts to label Statcast data for which the launch angle and speed have been imputed.

Usage

```
label_statcast_imputed_data(  
  statcast_df,  
  impute_file = NULL,  
  inverse_precision = 10000  
)
```

Arguments

- statcast_df A dataframe containing Statcast batted ball data
- impute_file A CSV file giving the launch angle, launch speed, bb_type, events fields to label as imputed. if NULL then it's read from the extdata folder of the package.
- inverse_precision
 inverse of how many digits to truncate the launch angle and speed to for comparison. Default is 10000, i.e. keep 4 digits of precision.

Value

A copy of the input dataframe with a new column imputed appended. imputed is 1 if launch angle and launch speed are likely imputed, 0 otherwise. Returns a tibble with the following columns:

| | |
|---------------|-----------|
| col_name | types |
| pitch_type | character |
| game_date | Date |
| release_speed | numeric |
| release_pos_x | numeric |
| release_pos_z | numeric |
| player_name | character |
| batter | numeric |

| | |
|-------------------------|-----------|
| pitcher | numeric |
| events | character |
| description | character |
| spin_dir | logical |
| spin_rate_deprecated | logical |
| break_angle_deprecated | logical |
| break_length_deprecated | logical |
| zone | numeric |
| des | character |
| game_type | character |
| stand | character |
| p_throws | character |
| home_team | character |
| away_team | character |
| type | character |
| hit_location | integer |
| bb_type | character |
| balls | integer |
| strikes | integer |
| game_year | integer |
| pfx_x | numeric |
| pfx_z | numeric |
| plate_x | numeric |
| plate_z | numeric |
| on_3b | numeric |
| on_2b | numeric |
| on_1b | numeric |
| outs_when_up | integer |
| inning | numeric |
| inning_topbot | character |
| hc_x | numeric |
| hc_y | numeric |
| tfs_deprecated | logical |
| tfs_zulu_deprecated | logical |
| fielder_2 | numeric |
| umpire | logical |
| sv_id | logical |
| vx0 | numeric |
| vy0 | numeric |
| vz0 | numeric |
| ax | numeric |
| ay | numeric |
| az | numeric |
| sz_top | numeric |
| sz_bot | numeric |
| hit_distance_sc | numeric |
| launch_speed | numeric |
| launch_angle | numeric |

| | |
|---------------------------------|-----------|
| effective_speed | numeric |
| release_spin_rate | numeric |
| release_extension | numeric |
| game_pk | numeric |
| pitcher_1 | numeric |
| fielder_2_1 | numeric |
| fielder_3 | numeric |
| fielder_4 | numeric |
| fielder_5 | numeric |
| fielder_6 | numeric |
| fielder_7 | numeric |
| fielder_8 | numeric |
| fielder_9 | numeric |
| release_pos_y | numeric |
| estimated_ba_using_speedangle | numeric |
| estimated_woba_using_speedangle | numeric |
| woba_value | numeric |
| woba_denom | integer |
| babip_value | integer |
| iso_value | integer |
| launch_speed_angle | integer |
| at_bat_number | numeric |
| pitch_number | numeric |
| pitch_name | character |
| home_score | numeric |
| away_score | numeric |
| bat_score | numeric |
| fld_score | numeric |
| post_away_score | numeric |
| post_home_score | numeric |
| post_bat_score | numeric |
| post_fld_score | numeric |
| if_fielding_alignment | character |
| of_fielding_alignment | character |
| spin_axis | numeric |
| delta_home_win_exp | numeric |
| delta_run_exp | numeric |
| ila | integer |
| ils | integer |
| imputed | numeric |

Examples

```
try({
  statcast_df <- statcast_search("2017-05-01", "2017-05-02")
  sc_df <- label_statcast_imputed_data(statcast_df)
  mean(sc_df$imputed)
})
```

| | |
|-----------------------|--|
| linear_weights_savant | Generate linear weight values for events using Baseball Savant data |
|-----------------------|--|

Description

This function allows a user to generate linear weight values for events using Baseball Savant data. Output includes both linear weights above average and linear weights above outs for home runs, triples, doubles, singles, walks, hit by pitches, and outs.

Usage

```
linear_weights_savant(df, level = "plate appearance")
```

Arguments

| | |
|-------|--|
| df | A data frame generated from Baseball Savant that has been run through the <code>run_expectancy_code()</code> function. |
| level | Whether to calculate linear weights the plate appearance or pitch level. Defaults to 'plate appearance'. |

Value

Returns a tibble with the following columns:

| col_name | types |
|------------------------------|-----------|
| events | character |
| linear_weights_above_average | numeric |
| linear_weights_above_outs | numeric |

Examples

```
try({
  df <- statcast_search(start_date = "2016-04-06", end_date = "2016-04-15",
                        playerid = 621043, player_type = 'batter')
  df <- run_expectancy_code(df, level = "plate appearances")
  linear_weights_savant(df, level = "plate appearance")
})
```

| | |
|--------------------|---|
| load_game_info_sup | Download a data frame of supplemental data about MLB games since 2008. |
|--------------------|---|

Description

Download a data frame of supplemental data about MLB games since 2008.

Usage

```
load_game_info_sup()
```

Value

Function returns a tibble with various columns, including:

- game_pk
- game_date
- venue id
- attendance
- game temperature
- wind speed
- direction
- start time
- end time

Examples

```
try(load_game_info_sup())
```

| | |
|------------------------|--|
| load_ncaa_baseball_pbp | Load cleaned NCAA baseball play-by-play data from the baseballr data repo |
|------------------------|--|

Description

helper that loads multiple seasons from the data repo either into memory or writes it into a db using some forwarded arguments in the dots

Usage

```
load_ncaa_baseball_pbp(
  seasons = most_recent_ncaa_baseball_season(),
  ...,
  dbConnection = NULL,
  tablename = NULL
)
```

Arguments

| | |
|--------------|--|
| seasons | A vector of 4-digit years associated with given NCAA college baseball seasons. (Min: 2022) |
| ... | Additional arguments passed to an underlying function that writes the season data into a database. |
| dbConnection | A DBIConnection object, as returned by |
| tablename | The name of the schedule data table within the database |

Value

Returns a tibble

Examples

```
try(load_ncaa_baseball_pbp(seasons = 2021))
```

```
load_ncaa_baseball_schedule
```

Load cleaned NCAA baseball schedule from the baseballr data repo

Description

helper that loads multiple seasons from the data repo either into memory or writes it into a db using some forwarded arguments in the dots

Usage

```
load_ncaa_baseball_schedule(
  seasons = most_recent_ncaa_baseball_season(),
  ...,
  dbConnection = NULL,
  tablename = NULL
)
```

Arguments

| | |
|--------------|--|
| seasons | A vector of 4-digit years associated with given NCAA college baseball seasons. (Min: 2012) |
| ... | Additional arguments passed to an underlying function that writes the season data into a database. |
| dbConnection | A DBIConnection object, as returned by |
| tablename | The name of the schedule data table within the database |

Value

Returns a tibble

Examples

```
try(load_ncaa_baseball_schedule(seasons = 2022))
```

```
load_ncaa_baseball_season_ids
```

Load cleaned NCAA men's college baseball season IDs from the baseballr data repo

Description

helper that loads multiple seasons of season IDs from the data repo either into memory or writes it into a db using some forwarded arguments in the dots

Usage

```
load_ncaa_baseball_season_ids(..., dbConnection = NULL, tablename = NULL)
```

Arguments

| | |
|--------------|--|
| ... | Additional arguments passed to an underlying function that writes the season data into a database. |
| dbConnection | A DBIConnection object, as returned by |
| tablename | The name of the data table within the database |

Value

Returns a tibble

Examples

```
try(load_ncaa_baseball_season_ids())
```

`load_ncaa_baseball_teams`

Load cleaned NCAA men's college baseball teams from the baseballr data repo

Description

helper that loads multiple seasons of teams from the data repo either into memory or writes it into a db using some forwarded arguments in the dots

Usage

```
load_ncaa_baseball_teams(..., dbConnection = NULL, tablename = NULL)
```

Arguments

| | |
|---------------------------|--|
| <code>...</code> | Additional arguments passed to an underlying function that writes the season data into a database. |
| <code>dbConnection</code> | A DBIConnection object, as returned by |
| <code>tablename</code> | The name of the data table within the database |

Value

Returns a tibble

Examples

```
try(load_ncaa_baseball_teams())
```

`load_umpire_ids`

Download a data frame of all umpires and their mlbamids for games since 2008

Description

Download a data frame of all umpires and their mlbamids for games since 2008

Usage

```
load_umpire_ids()
```

Value

Function returns a tibble with the following columns:

- id
- position
- name
- game_pk
- game_date

Examples

```
try(load_umpire_ids())
```

metrics

Metrics Functions Overview

Description

`fip_plus()`: Calculate FIP and related metrics for any set of data.

`woba_plus()` Calculate wOBA and related metrics for any set of data.

`team_consistency()` Calculate Team-level Consistency.

`label_statcast_imputed_data()` Label Statcast data as imputed.

`run_expectancy_code()` Generate run expectancy and related measures from Baseball Savant data.

`linear_weights_savant()` Generate linear weight values for events using Baseball Savant data.

Details**Calculate Team-level Consistency:**

```
team_consistency(year=2015)
```

Calculate FIP and related metrics for any set of data:

```
fips_plus(df)
```

Calculate wOBA and related metrics for any set of data:

```
woba_plus(df)
```

Label Statcast data as imputed:

```
statcast_df <- scrape_statcast_savant("2017-05-01", "2017-05-02")
sc_df <- label_statcast_imputed_data(statcast_df)
mean(sc_df$imputed)
```


Generate run expectancy and related measures from Baseball Savant data:

```
df <- statcast_search(start_date = "2016-04-06", end_date = "2016-04-15",  
                      playerid = 621043, player_type = 'batter')  
run_expectancy_code(df, level = "plate appearances")
```

Generate linear weight values for events using Baseball Savant data:

```
df <- statcast_search(start_date = "2016-04-06", end_date = "2016-04-15",  
                      playerid = 621043, player_type = 'batter')  
df <- run_expectancy_code(df, level = "plate appearances")  
linear_weights_savant(df, level = "plate appearance")
```

`milb_batter_game_logs_fg`**(legacy) Scrape MiLB game logs for batters from FanGraphs**

Description**(legacy) Scrape MiLB game logs for batters from FanGraphs****Usage**

```
milb_batter_game_logs_fg(playerid, year)
```

Arguments

| | |
|-----------------------|--|
| <code>playerid</code> | The batter's minor league ID from FanGraphs. |
| <code>year</code> | The season for which game logs should be returned. |

Value

Returns a tibble of Minor League batter game logs.

`milb_pitcher_game_logs_fg`**(legacy) Scrape MiLB game logs for pitchers from FanGraphs**

Description**(legacy) Scrape MiLB game logs for pitchers from FanGraphs****Usage**

```
milb_pitcher_game_logs_fg(playerid, year)
```

Arguments

| | |
|----------|--|
| playerid | The pitcher's minor league ID from FanGraphs.com. |
| year | The season for which game logs should be returned. |

Value

Returns a tibble of Minor League pitcher game logs.

| | |
|-----|-------------------------------|
| mlb | MLB Functions Overview |
|-----|-------------------------------|

Description

`mlb_batting_orders()`: Retrieve batting orders for a given MLB game.
`mlb_draft()`: Retrieve draft pick information by year.
`mlb_pbp()`: Acquire pitch-by-pitch data for Major and Minor League games.
`mlb_game_info()`: Retrieve additional game information for major and minor league games.
`mlb_game_pks()`: Get MLB Game Info by Date and Level.
`mlb_schedule()`: Find game_pk values for professional baseball games (major and minor leagues).
`mlb_probables()`: Retrieve probable starters for a given MLB game.

Details**Retrieve batting orders for a given MLB game:**

```
mlb_batting_orders(game_pk=566001)
```

Retrieve draft pick information by year:

```
mlb_draft(year= 2018)
```

Acquire pitch-by-pitch data for Major and Minor League games:

```
mlb_pbp(game_pk = 575156)
```

Retrieve additional game information for major and minor league games:

```
mlb_game_info(game_pk = 566001)
```

Get MLB Game Info by Date and Level:

```
mlb_game_pks("2019-04-29")
```

Find game_pk values for professional baseball games (major and minor leagues):

```
mlb_schedule(season = "2019")
```

Retrieve probable starters for a given MLB game:

```
mlb_probables(566001)
```

| | |
|----------------------|----------------------------------|
| mlb_all_star_ballots | Find MLB All-Star Ballots |
|----------------------|----------------------------------|

Description

Find MLB All-Star Ballots

Usage

```
mlb_all_star_ballots(league_id = NULL, season = NULL)
```

Arguments

- league_id League ID for league all-star ballot of interest.
- season The season of the all-star ballot.

Value

Returns a tibble with the following columns:

| | |
|----------------------|-----------|
| col_name | types |
| player_id | integer |
| full_name | character |
| link | character |
| first_name | character |
| last_name | character |
| primary_number | character |
| birth_date | character |
| current_age | integer |
| birth_city | character |
| birth_state_province | character |
| birth_country | character |
| height | character |
| weight | integer |
| active | logical |
| use_name | character |
| middle_name | character |
| boxscore_name | character |
| nick_name | character |
| gender | character |
| is_player | logical |
| is_verified | logical |
| draft_year | integer |
| mlb_debut_date | character |
| name_first_last | character |
| name_slug | character |
| first_last_name | character |

| | |
|-------------------------------|-----------|
| last_first_name | character |
| last_init_name | character |
| init_last_name | character |
| full_fml_name | character |
| full_lfm_name | character |
| strike_zone_top | numeric |
| strike_zone_bottom | numeric |
| pronunciation | character |
| name_matrilineal | character |
| name_title | character |
| primary_position_code | character |
| primary_position_name | character |
| primary_position_type | character |
| primary_position_abbreviation | character |
| bat_side_code | character |
| bat_side_description | character |
| pitch_hand_code | character |
| pitch_hand_description | character |
| league_id | numeric |
| season | numeric |

Examples

```
try(mlb_all_star_ballots(league_id = 103, season = 2021))
```

| |
|-------------------------------------|
| mlb_all_star_final_vote |
| Find MLB All-Star Final Vote |

Description

Find MLB All-Star Final Vote

Usage

```
mlb_all_star_final_vote(league_id = NULL, season = NULL)
```

Arguments

- league_id League ID for league all-star ballot of interest.
- season The season of the all-star ballot.

Value

Returns a tibble with the following columns:

| col_name | types |
|-------------------------------|-----------|
| player_id | integer |
| full_name | character |
| link | character |
| first_name | character |
| last_name | character |
| primary_number | character |
| birth_date | character |
| current_age | integer |
| birth_city | character |
| birth_state_province | character |
| birth_country | character |
| height | character |
| weight | integer |
| active | logical |
| use_name | character |
| middle_name | character |
| boxscore_name | character |
| nick_name | character |
| gender | character |
| is_player | logical |
| is_verified | logical |
| draft_year | integer |
| mlb_debut_date | character |
| name_first_last | character |
| name_slug | character |
| first_last_name | character |
| last_first_name | character |
| last_init_name | character |
| init_last_name | character |
| full_fml_name | character |
| full_lfm_name | character |
| strike_zone_top | numeric |
| strike_zone_bottom | numeric |
| pronunciation | character |
| name_matrilineal | character |
| name_title | character |
| primary_position_code | character |
| primary_position_name | character |
| primary_position_type | character |
| primary_position_abbreviation | character |
| bat_side_code | character |
| bat_side_description | character |
| pitch_hand_code | character |
| pitch_hand_description | character |

| | |
|-----------|---------|
| league_id | numeric |
| season | numeric |

Examples

```
try(mlb_all_star_final_vote(league_id = 103, season = 2021))
```

| |
|------------------------------------|
| mlb_all_star_write_ins |
| Find MLB All-Star Write-ins |

Description

Find MLB All-Star Write-ins

Usage

```
mlb_all_star_write_ins(league_id = NULL, season = NULL)
```

Arguments

| | |
|-----------|---|
| league_id | League ID for league all-star ballot of interest. |
| season | The season of the all-star ballot. |

Value

Returns a tibble with the following columns:

| | |
|----------------------|-----------|
| col_name | types |
| player_id | integer |
| full_name | character |
| link | character |
| first_name | character |
| last_name | character |
| primary_number | character |
| birth_date | character |
| current_age | integer |
| birth_city | character |
| birth_state_province | character |
| birth_country | character |
| height | character |
| weight | integer |
| active | logical |
| use_name | character |
| middle_name | character |

| | |
|-------------------------------|-----------|
| boxscore_name | character |
| nick_name | character |
| gender | character |
| is_player | logical |
| is_verified | logical |
| draft_year | integer |
| mlb_debut_date | character |
| name_first_last | character |
| name_slug | character |
| first_last_name | character |
| last_first_name | character |
| last_init_name | character |
| init_last_name | character |
| full_fml_name | character |
| full_lfm_name | character |
| strike_zone_top | numeric |
| strike_zone_bottom | numeric |
| pronunciation | character |
| name_matrilineal | character |
| name_title | character |
| primary_position_code | character |
| primary_position_name | character |
| primary_position_type | character |
| primary_position_abbreviation | character |
| bat_side_code | character |
| bat_side_description | character |
| pitch_hand_code | character |
| pitch_hand_description | character |
| league_id | numeric |
| season | numeric |

Examples

```
try(mlb_all_star_write_ins(league_id = 103, season = 2021))
```

| | |
|----------------|-----------------------|
| mlb_attendance | MLB Attendance |
|----------------|-----------------------|

Description

MLB Attendance

Usage

```
mlb_attendance(  
  team_id = NULL,  
  league_id = NULL,  
  season = NULL,  
  date = NULL,  
  league_list_id = NULL  
)
```

Arguments

| | |
|----------------|---|
| team_id | Return attendance information for a particular team_id(s). |
| league_id | Return attendance information for a particular league_id(s). Format: '103,104' |
| season | Return attendance information for particular year(s). |
| date | Return attendance information on a particular date. Format: MM/DD/YYYY |
| league_list_id | Unique league list identifier to return a directory of attendance for a specific league list_id Valid values include: <ul style="list-style-type: none">• milb_full• milb_short• milb_complex• milb_all• milb_all_nomex• milb_all_domestic• milb_noncomp• milb_noncomp_nomex• milb_domcomp• milb_intcomp• win_noabl• win_caribbean• win_all• abl• mlb• mlb_hist• mlb_milb• mlb_milb_hist• mlb_milb_win• baseball_all |

Value

Returns a tibble with the following columns

| | |
|----------------|---------|
| col_name | types |
| openings_total | integer |

| | |
|-----------------------------------|-----------|
| openings_total_away | integer |
| openings_total_home | integer |
| openings_total_lost | integer |
| games_total | integer |
| games_away_total | integer |
| games_home_total | integer |
| year | character |
| attendance_average_away | integer |
| attendance_average_home | integer |
| attendance_average_ytd | integer |
| attendance_high | integer |
| attendance_high_date | character |
| attendance_low | integer |
| attendance_low_date | character |
| attendance_opening_average | integer |
| attendance_total | integer |
| attendance_total_away | integer |
| attendance_total_home | integer |
| attendance_high_game_game_pk | integer |
| attendance_high_game_link | character |
| attendance_high_game_day_night | character |
| attendance_high_game_content_link | character |
| attendance_low_game_game_pk | integer |
| attendance_low_game_link | character |
| attendance_low_game_day_night | character |
| attendance_low_game_content_link | character |
| game_type_id | character |
| game_type_description | character |
| team_id | integer |
| team_name | character |
| team_link | character |

Examples

```
try(mlb_attendance(team_id = 109, season = 2021))
```

mlb_award

MLB All-Star, Awards, Home Run Derby Functions

Description

mlb_all_star_ballots(): Find MLB All-Star Ballots.

mlb_all_star_final_vote(): Find MLB All-Star Final Vote.

mlb_all_star_write_ins(): Find MLB All-Star Write-ins.

mlb_awards(): Find MLB Awards.

mlb_awards_recipient(): Find MLB Award Recipients.

mlb_homerun_derby(): Retrieve MLB Home Run Derby Data.

mlb_homerun_derby_bracket(): Retrieve MLB Home Run Derby Bracket.

mlb_homerun_derby_players(): Retrieve MLB Home Run Derby Players.

Details

Find MLB All-Star Ballots:

```
try(mlb_all_star_ballots(league_id = 103, season = 2021))
```

Find MLB All-Star Final Vote:

```
try(mlb_all_star_final_vote(league_id = 103, season = 2021))
```

Find MLB All-Star Write-ins:

```
try(mlb_all_star_write_ins(league_id = 103, season = 2021))
```

Find MLB Awards:

```
try(mlb_awards())
```

Find MLB Award Recipients:

```
try(mlb_awards_recipient(award_id = 'MLBHOF', season = 2020))
```

Retrieve MLB Home Run Derby Data:

```
try(mlb_homerun_derby(game_pk = 511101))
```

Retrieve MLB Home Run Derby Bracket:

```
try(mlb_homerun_derby_bracket(game_pk = 511101))
```

Retrieve MLB Home Run Derby Players:

```
try(mlb_homerun_derby_players(game_pk = 511101))
```

`mlb_awards`**MLB Awards**

Description**MLB Awards****Usage**`mlb_awards()`**Value**

Returns a tibble with the following columns

| col_name | types |
|-------------------|-----------|
| award_id | character |
| award_name | character |
| award_description | character |
| sort_order | integer |
| notes | character |
| sport_id | integer |
| sport_link | character |
| league_id | integer |
| league_link | character |

Examples

```
try(mlb_awards())
```

`mlb_awards_recipient`**MLB Award Recipients**

Description**MLB Award Recipients****Usage**

```
mlb_awards_recipient(  
  award_id = NULL,  
  sport_id = NULL,  
  league_id = NULL,  
  season = NULL  
)
```

Arguments

| | |
|-----------|--|
| award_id | award_id to return a directory of players for a given award. |
| sport_id | sport_id to return a directory of players for a given aware in a specific sport. |
| league_id | league_id(s) to return a directory of players for a given award in a specific league. Format '103,104' |
| season | Year(s) to return a directory of players for a given award in a given season. |

Value

Returns a tibble with the following columns

| col_name | types |
|--------------------------------------|-----------|
| award_id | character |
| award_name | character |
| date | character |
| season | character |
| votes | integer |
| notes | character |
| player_id | integer |
| player_link | character |
| player_name_first_last | character |
| player_primary_position_code | character |
| player_primary_position_name | character |
| player_primary_position_type | character |
| player_primary_position_abbreviation | character |
| team_id | integer |
| team_link | character |

Examples

```
try(mlb_awards_recipient(award_id = 'MLBHOF', season = 2020))
```

| | |
|--------------------|---------------------------|
| mlb_baseball_stats | MLB Baseball Stats |
|--------------------|---------------------------|

Description

MLB Baseball Stats

Usage

```
mlb_baseball_stats()
```

Value

Returns a tibble with the following columns:

| | |
|-------------------|-----------|
| col_name | types |
| stat_name | character |
| stat_lookup_param | character |
| is_counting | logical |
| stat_label | character |
| stat_group | character |

Examples

```
try(mlb_baseball_stats())
```

| | |
|--------------------|---|
| mlb_batting_orders | Retrieve batting orders for a given MLB game |
|--------------------|---|

Description

Retrieve batting orders for a given MLB game

Usage

```
mlb_batting_orders(game_pk, type = "starting")
```

Arguments

| | |
|---------|--|
| game_pk | The unique game_pk identifier for the game |
| type | Whether to just return the starting lineup ('starting') or all batters that appeared ('all') |

Value

Returns a tibble that includes probable starting pitchers and the home plate umpire for the game_pk requested

| | |
|----------------------|-----------|
| col_name | types |
| id | integer |
| fullName | character |
| abbreviation | character |
| batting_order | character |
| batting_position_num | character |
| team | character |
| teamName | character |

teamID integer

Examples

```
try(mlb_batting_orders(game_pk=566001))
```

| | |
|-----------------|---------------------------------|
| mlb_conferences | View all PCL conferences |
|-----------------|---------------------------------|

Description

View all PCL conferences

Usage

```
mlb_conferences(conference_id = NULL, season = NULL)
```

Arguments

- conference_id Conference ID to return information for.
- season Year to return to return conference information for.

Value

Returns a tibble with the following columns

| col_name | types |
|-------------------------|-----------|
| conference_id | integer |
| conference_name | character |
| link | character |
| conference_abbreviation | character |
| has_wildcard | logical |
| name_short | character |
| league_id | integer |
| league_link | character |
| sport_id | integer |
| sport_link | character |

Examples

```
try(mlb_conferences())
try(mlb_conferences(conference_id = 301, season = 2020))
```

mlb_divisions

MLB Divisions**Description****MLB Divisions****Usage**

```
mlb_divisions(division_id = NULL, league_id = NULL, sport_id = NULL)
```

Arguments

| | |
|--------------------------|--|
| <code>division_id</code> | Return division(s) data for a specific division |
| <code>league_id</code> | Return division(s) data for all divisions in a specific league |
| <code>sport_id</code> | Return division(s) for all divisions in a specific sport. |

Value

Returns a tibble with the following columns

| col_name | types |
|------------------------------------|-----------|
| <code>division_id</code> | integer |
| <code>division_name</code> | character |
| <code>season</code> | character |
| <code>division_name_short</code> | character |
| <code>division_link</code> | character |
| <code>division_abbreviation</code> | character |
| <code>has_wildcard</code> | logical |
| <code>sort_order</code> | integer |
| <code>num_playoff_teams</code> | integer |
| <code>active</code> | logical |
| <code>league_id</code> | integer |
| <code>league_link</code> | character |
| <code>sport_id</code> | integer |
| <code>sport_link</code> | character |

Examples

```
try(mlb_divisions(sport_id = 1))
```

mlb_draft

Retrieve draft pick information by year**Description****Retrieve draft pick information by year****Usage**

mlb_draft(year)

Arguments

year The year for which to return data

Value

Returns a tibble with information for every draft pick in every round for the year requested

| | |
|-----------------------|-----------|
| col_name | types |
| bis_player_id | integer |
| pick_round | character |
| pick_number | integer |
| round_pick_number | integer |
| rank | integer |
| pick_value | character |
| signing_bonus | character |
| scouting_report | character |
| blurb | character |
| headshot_link | character |
| is_drafted | logical |
| is_pass | logical |
| year | character |
| home_city | character |
| home_state | character |
| home_country | character |
| school_name | character |
| school_school_class | character |
| school_country | character |
| school_state | character |
| person_id | integer |
| person_full_name | character |
| person_link | character |
| person_first_name | character |
| person_last_name | character |
| person_primary_number | character |
| person_birth_date | character |

| | |
|--------------------------------------|-----------|
| person_current_age | integer |
| person_birth_city | character |
| person_birth_state_province | character |
| person_birth_country | character |
| person_height | character |
| person_weight | integer |
| person_active | logical |
| person_use_name | character |
| person_middle_name | character |
| person_boxscore_name | character |
| person_gender | character |
| person_is_player | logical |
| person_is_verified | logical |
| person_draft_year | integer |
| person_name_first_last | character |
| person_name_slug | character |
| person_first_last_name | character |
| person_last_first_name | character |
| person_last_init_name | character |
| person_init_last_name | character |
| person_full_fml_name | character |
| person_full_lfm_name | character |
| person_strike_zone_top | numeric |
| person_strike_zone_bottom | numeric |
| person_pronunciation | character |
| person_name_title | character |
| person_mlb_debut_date | character |
| person_name_matrilineal | character |
| person_primary_position_code | character |
| person_primary_position_name | character |
| person_primary_position_type | character |
| person_primary_position_abbreviation | character |
| person_bat_side_code | character |
| person_bat_side_description | character |
| person_pitch_hand_code | character |
| person_pitch_hand_description | character |
| team_id | integer |
| team_name | character |
| team_link | character |
| team_all_star_status | character |
| team_spring_league_id | integer |
| team_spring_league_name | character |
| team_spring_league_link | character |
| team_spring_league_abbreviation | character |
| draft_type_code | character |
| draft_type_description | character |

Examples

```
try(mlb_draft(year = 2020))
```

| | |
|------------------|---|
| mlb_draft_latest | Retrieve latest draft information by year |
|------------------|---|

Description

Retrieve latest draft information by year

Usage

```
mlb_draft_latest(year)
```

Arguments

year The year for which to return data

Value

Returns a tibble with the latest draft information for the year requested:

| | |
|-----------------------|-----------|
| col_name | types |
| bis_player_id | integer |
| pick_round | character |
| pick_number | integer |
| round_pick_number | integer |
| rank | integer |
| pick_value | character |
| signing_bonus | character |
| home_city | character |
| home_state | character |
| home_country | character |
| scouting_report | character |
| school_name | character |
| school_school_class | character |
| school_country | character |
| school_state | character |
| blurb | character |
| headshot_link | character |
| person_id | integer |
| person_full_name | character |
| person_link | character |
| person_first_name | character |
| person_last_name | character |
| person_primary_number | character |

| | |
|--------------------------------------|-----------|
| person_birth_date | character |
| person_current_age | integer |
| person_birth_city | character |
| person_birth_state_province | character |
| person_birth_country | character |
| person_height | character |
| person_weight | integer |
| person_active | logical |
| person_primary_position_code | character |
| person_primary_position_name | character |
| person_primary_position_type | character |
| person_primary_position_abbreviation | character |
| person_use_name | character |
| person_middle_name | character |
| person_boxscore_name | character |
| person_gender | character |
| person_is_player | logical |
| person_is_verified | logical |
| person_draft_year | integer |
| person_bat_side_code | character |
| person_bat_side_description | character |
| person_pitch_hand_code | character |
| person_pitch_hand_description | character |
| person_name_first_last | character |
| person_name_slug | character |
| person_first_last_name | character |
| person_last_first_name | character |
| person_last_init_name | character |
| person_init_last_name | character |
| person_full_fml_name | character |
| person_full_lfm_name | character |
| person_strike_zone_top | numeric |
| person_strike_zone_bottom | numeric |
| team_id | integer |
| team_name | character |
| team_link | character |
| team_season | integer |
| team_venue_id | integer |
| team_venue_name | character |
| team_venue_link | character |
| team_spring_venue_id | integer |
| team_spring_venue_link | character |
| team_team_code | character |
| team_file_code | character |
| team_abbreviation | character |
| team_team_name | character |
| team_location_name | character |
| team_first_year_of_play | character |

| | |
|---------------------------------|-----------|
| team_league_id | integer |
| team_league_name | character |
| team_league_link | character |
| team_division_id | integer |
| team_division_name | character |
| team_division_link | character |
| team_sport_id | integer |
| team_sport_link | character |
| team_sport_name | character |
| team_short_name | character |
| team_franchise_name | character |
| team_club_name | character |
| team_spring_league_id | integer |
| team_spring_league_name | character |
| team_spring_league_link | character |
| team_spring_league_abbreviation | character |
| team_all_star_status | character |
| team_active | logical |
| draft_type_code | character |
| draft_type_description | character |
| is_drafted | logical |
| is_pass | logical |
| year | character |

Examples

```
try(mlb_draft_latest(year = 2020))
```

| | |
|---------------------|--|
| mlb_draft_prospects | Retrieve draft prospect information by year |
|---------------------|--|

Description

Retrieve draft prospect information by year

Usage

```
mlb_draft_prospects(year)
```

Arguments

| | |
|------|-----------------------------------|
| year | The year for which to return data |
|------|-----------------------------------|

Value

Returns a tibble with information for every draft prospect for the year requested:

| col_name | types |
|-----------------------------|-----------|
| bis_player_id | integer |
| pick_round | character |
| pick_number | integer |
| rank | integer |
| scouting_report | character |
| blurb | character |
| headshot_link | character |
| is_drafted | logical |
| year | character |
| home_city | character |
| home_state | character |
| home_country | character |
| school_name | character |
| school_school_class | character |
| school_country | character |
| school_state | character |
| person_id | integer |
| person_full_name | character |
| person_link | character |
| person_first_name | character |
| person_last_name | character |
| person_birth_date | character |
| person_current_age | integer |
| person_birth_city | character |
| person_birth_state_province | character |
| person_birth_country | character |
| person_height | character |
| person_weight | integer |
| person_active | logical |
| person_use_name | character |
| person_middle_name | character |
| person_boxscore_name | character |
| person_gender | character |
| person_is_player | logical |
| person_is_verified | logical |
| person_draft_year | integer |
| person_name_first_last | character |
| person_name_slug | character |
| person_first_last_name | character |
| person_last_first_name | character |
| person_last_init_name | character |
| person_init_last_name | character |
| person_full_fml_name | character |
| person_full_lfm_name | character |

| | |
|--------------------------------------|-----------|
| person_strike_zone_top | numeric |
| person_strike_zone_bottom | numeric |
| person_primary_number | character |
| person_pronunciation | character |
| person_name_title | character |
| person_mlb_debut_date | character |
| person_name_matrilineal | character |
| person_nick_name | character |
| person_death_date | character |
| person_death_city | character |
| person_death_state_province | character |
| person_death_country | character |
| person_primary_position_code | character |
| person_primary_position_name | character |
| person_primary_position_type | character |
| person_primary_position_abbreviation | character |
| person_bat_side_code | character |
| person_bat_side_description | character |
| person_pitch_hand_code | character |
| person_pitch_hand_description | character |
| team_id | integer |
| team_name | character |
| team_link | character |
| team_season | integer |
| team_team_code | character |
| team_file_code | character |
| team_abbreviation | character |
| team_team_name | character |
| team_location_name | character |
| team_first_year_of_play | character |
| team_short_name | character |
| team_franchise_name | character |
| team_club_name | character |
| team_all_star_status | character |
| team_active | logical |
| team_venue_id | integer |
| team_venue_name | character |
| team_venue_link | character |
| team_spring_venue_id | integer |
| team_spring_venue_link | character |
| team_league_id | integer |
| team_league_name | character |
| team_league_link | character |
| team_division_id | integer |
| team_division_name | character |
| team_division_link | character |
| team_sport_id | integer |
| team_sport_link | character |

| | |
|---------------------------------|-----------|
| team_sport_name | character |
| team_spring_league_id | integer |
| team_spring_league_name | character |
| team_spring_league_link | character |
| team_spring_league_abbreviation | character |
| draft_type_code | character |
| draft_type_description | character |

Examples

```
try(mlb_draft_prospects(year = 2020))
```

| | |
|-----------------|------------------------|
| mlb_event_types | MLB Event Types |
|-----------------|------------------------|

Description

MLB Event Types

Usage

```
mlb_event_types()
```

Value

Returns a tibble with the following columns

| | |
|--------------------|-----------|
| col_name | types |
| plate_appearance | logical |
| hit | logical |
| event_code | character |
| base_running_event | logical |
| event_description | character |

Examples

```
try(mlb_event_types())
```

mlb_fielder_detail_types

MLB Fielder Detail Types

Description

MLB Fielder Detail Types

Usage

mlb_fielder_detail_types()

Value

Returns a tibble with the following columns

| | |
|-----------|-----------|
| col_name | types |
| stat_name | character |
| code | character |
| names | character |
| chance | logical |
| error | logical |

Examples

try(mlb_fielder_detail_types())

mlb_game_changes

Acquire time codes for Major and Minor League games

Description

Acquire time codes for Major and Minor League games

Usage

mlb_game_changes(updated_since, sport_id)

Arguments

- updated_since Updated since date time
- sport_id Return division(s) for all divisions in a specific sport.

Value

Returns a tibble that includes time codes from the game_pk requested

| col_name | types |
|---------------------------------|-----------|
| date | character |
| total_items | integer |
| total_events | integer |
| total_games | integer |
| total_games_in_progress | integer |
| game_pk | integer |
| link | character |
| game_type | character |
| season | character |
| game_date | character |
| official_date | character |
| is_tie | logical |
| game_number | integer |
| public_facing | logical |
| double_header | character |
| gameday_type | character |
| tiebreaker | character |
| calendar_event_id | character |
| season_display | character |
| day_night | character |
| description | character |
| scheduled_innings | integer |
| reverse_home_away_status | logical |
| inning_break_length | integer |
| games_in_series | integer |
| series_game_number | integer |
| series_description | character |
| record_source | character |
| if_necessary | character |
| if_necessary_description | character |
| status_abstract_game_state | character |
| status_coded_game_state | character |
| status_detailed_state | character |
| status_status_code | character |
| status_start_time_tbd | logical |
| status_abstract_game_code | character |
| teams_away_score | integer |
| teams_away_is_winner | logical |
| teams_away_split_squad | logical |
| teams_away_series_number | integer |
| teams_away_league_record_wins | integer |
| teams_away_league_record_losses | integer |
| teams_away_league_record_pct | character |
| teams_away_team_id | integer |

| | |
|---------------------------------|-----------|
| teams_away_team_name | character |
| teams_away_team_link | character |
| teams_home_score | integer |
| teams_home_is_winner | logical |
| teams_home_split_squad | logical |
| teams_home_series_number | integer |
| teams_home_league_record_wins | integer |
| teams_home_league_record_losses | integer |
| teams_home_league_record_pct | character |
| teams_home_team_id | integer |
| teams_home_team_name | character |
| teams_home_team_link | character |
| venue_id | integer |
| venue_name | character |
| venue_link | character |
| content_link | character |
| status_reason | character |
| rescheduled_from | character |
| rescheduled_from_date | character |
| resumed_from | character |
| resumed_from_date | character |
| events | list |

Examples

```
try(mlb_game_changes(updated_since = "2021-08-10T19:08:24.000004Z", sport_id = 1))
```

| | |
|------------------|--|
| mlb_game_content | Retrieve additional game content for major and minor league games |
|------------------|--|

Description

Retrieve additional game content for major and minor league games

Usage

```
mlb_game_content(game_pk)
```

Arguments

| | |
|---------|--|
| game_pk | The unique game_pk identifier for the game |
|---------|--|

Value

Returns a tibble of game content data with the following columns:

| col_name | types |
|---------------------|-----------|
| title | character |
| epg_id | integer |
| content_id | character |
| media_id | character |
| media_state | character |
| media_feed_type | character |
| media_feed_sub_type | character |
| call_letters | character |
| fox_auth_required | logical |
| tbs_auth_required | logical |
| espn_auth_required | logical |
| fs1auth_required | logical |
| mlbn_auth_required | logical |
| free_game | logical |
| type | character |
| description | character |
| rendition_name | character |
| language | character |

Examples

```
try(mlb_game_content(game_pk = 566001))
```

mlb_game_context_metrics

Acquire game context metrics for Major and Minor League games

Description

Acquire game context metrics for Major and Minor League games

Usage

```
mlb_game_context_metrics(game_pk, timecode)
```

Arguments

| | |
|----------|--|
| game_pk | The game_pk for the game requested |
| timecode | The time code for the MLB game (format: MMDDYYYY_HHMMSS) |

Value

Returns a tibble that includes time codes from the game_pk requested

| col_name | types |
|---------------------------------------|-----------|
| game_pk | integer |
| link | character |
| game_type | character |
| season | character |
| game_date | character |
| official_date | character |
| status_abstract_game_state | character |
| status_coded_game_state | character |
| status_detailed_state | character |
| status_status_code | character |
| status_start_time_tbd | logical |
| status_abstract_game_code | character |
| teams_away_league_record_wins | integer |
| teams_away_league_record_losses | integer |
| teams_away_league_record_pct | character |
| teams_away_score | integer |
| teams_away_team_id | integer |
| teams_away_team_name | character |
| teams_away_team_link | character |
| teams_away_is_winner | logical |
| teams_away_probable_pitcher_id | integer |
| teams_away_probable_pitcher_full_name | character |
| teams_away_probable_pitcher_link | character |
| teams_away_split_squad | logical |
| teams_away_series_number | integer |
| teams_home_league_record_wins | integer |
| teams_home_league_record_losses | integer |
| teams_home_league_record_pct | character |
| teams_home_score | integer |
| teams_home_team_id | integer |
| teams_home_team_name | character |
| teams_home_team_link | character |
| teams_home_is_winner | logical |
| teams_home_probable_pitcher_id | integer |
| teams_home_probable_pitcher_full_name | character |
| teams_home_probable_pitcher_link | character |
| teams_home_split_squad | logical |
| teams_home_series_number | integer |
| venue_id | integer |
| venue_name | character |
| venue_link | character |
| link_1 | character |
| is_tie | logical |
| game_number | integer |

| | |
|--------------------------|-----------|
| public_facing | logical |
| double_header | character |
| gameday_type | character |
| tiebreaker | character |
| calendar_event_id | character |
| season_display | character |
| day_night | character |
| scheduled_innings | integer |
| reverse_home_away_status | logical |
| inning_break_length | integer |
| games_in_series | integer |
| series_game_number | integer |
| series_description | character |
| record_source | character |
| if_necessary | character |
| if_necessary_description | character |
| game_id | character |
| home_win_probability | numeric |
| away_win_probability | numeric |

Examples

```
try(mlb_game_context_metrics(game_pk = 531060, timecode = "20180803_182458"))
```

| | |
|---------------|--|
| mlb_game_info | Retrieve additional game information for major and minor league games |
|---------------|--|

Description

Retrieve additional game information for major and minor league games

Usage

```
mlb_game_info(game_pk)
```

Arguments

game_pk The unique game_pk identifier for the game

Value

Returns a tibble that includes supplemental information, such as weather, official scorer, attendance, etc., for the game_pk provided

| | |
|-----------------|-----------|
| col_name | types |
| game_date | character |
| game_pk | numeric |
| venue_name | character |
| venue_id | integer |
| temperature | character |
| other_weather | character |
| wind | character |
| attendance | character |
| start_time | character |
| elapsed_time | character |
| game_id | character |
| game_type | character |
| home_sport_code | character |
| official_scorer | character |
| date | character |
| status_ind | character |
| home_league_id | integer |
| gameday_sw | character |

Examples

```
try(mlb_game_info(game_pk = 566001))
```

| | |
|--------------------|--|
| mlb_game_linescore | Retrieve game linescores for major and minor league games |
|--------------------|--|

Description

Retrieve game linescores for major and minor league games

Usage

```
mlb_game_linescore(game_pk)
```

Arguments

game_pk The unique game_pk identifier for the game

Value

Returns a tibble with the following columns

| | |
|----------|---------|
| col_name | types |
| game_pk | numeric |

| | |
|---|-----------|
| home_team_id | character |
| home_team_name | character |
| away_team_id | character |
| away_team_name | character |
| num | integer |
| ordinal_num | character |
| home_runs | integer |
| home_hits | integer |
| home_errors | integer |
| home_left_on_base | integer |
| away_runs | integer |
| away_hits | integer |
| away_errors | integer |
| away_left_on_base | integer |
| home_team_link | character |
| home_team_season | character |
| home_team_venue_id | character |
| home_team_venue_name | character |
| home_team_venue_link | character |
| home_team_team_code | character |
| home_team_file_code | character |
| home_team_abbreviation | character |
| home_team_team_name | character |
| home_team_location_name | character |
| home_team_first_year_of_play | character |
| home_team_league_id | character |
| home_team_league_name | character |
| home_team_league_link | character |
| home_team_division_id | character |
| home_team_division_name | character |
| home_team_division_link | character |
| home_team_sport_id | character |
| home_team_sport_link | character |
| home_team_sport_name | character |
| home_team_short_name | character |
| home_team_record_games_played | character |
| home_team_record_wild_card_games_back | character |
| home_team_record_league_games_back | character |
| home_team_record_spring_league_games_back | character |
| home_team_record_sport_games_back | character |
| home_team_record_division_games_back | character |
| home_team_record_conference_games_back | character |
| home_team_record_league_record_wins | character |
| home_team_record_league_record_losses | character |
| home_team_record_league_record_pct | character |
| home_team_record_division_leader | character |
| home_team_record_wins | character |
| home_team_record_losses | character |

| | |
|---|-----------|
| home_team_record_winning_percentage | character |
| home_team_franchise_name | character |
| home_team_club_name | character |
| home_team_all_star_status | character |
| home_team_active | character |
| away_team_link | character |
| away_team_season | character |
| away_team_venue_id | character |
| away_team_venue_name | character |
| away_team_venue_link | character |
| away_team_team_code | character |
| away_team_file_code | character |
| away_team_abbreviation | character |
| away_team_team_name | character |
| away_team_location_name | character |
| away_team_first_year_of_play | character |
| away_team_league_id | character |
| away_team_league_name | character |
| away_team_league_link | character |
| away_team_division_id | character |
| away_team_division_name | character |
| away_team_division_link | character |
| away_team_sport_id | character |
| away_team_sport_link | character |
| away_team_sport_name | character |
| away_team_short_name | character |
| away_team_record_games_played | character |
| away_team_record_wild_card_games_back | character |
| away_team_record_league_games_back | character |
| away_team_record_spring_league_games_back | character |
| away_team_record_sport_games_back | character |
| away_team_record_division_games_back | character |
| away_team_record_conference_games_back | character |
| away_team_record_league_record_wins | character |
| away_team_record_league_record_losses | character |
| away_team_record_league_record_pct | character |
| away_team_record_division_leader | character |
| away_team_record_wins | character |
| away_team_record_losses | character |
| away_team_record_winning_percentage | character |
| away_team_franchise_name | character |
| away_team_club_name | character |
| away_team_all_star_status | character |
| away_team_active | character |

Examples

```
try(mlb_game_linescore(game_pk = 566001))
```

| | |
|---------------|---|
| mlb_game_pace | Retrieve game pace metrics for major and minor league |
|---------------|---|

Description

Retrieve game pace metrics for major and minor league

Usage

```
mlb_game_pace(  
  season,  
  league_ids = NULL,  
  sport_ids = NULL,  
  team_ids = NULL,  
  game_type = NULL,  
  venue_ids = NULL,  
  org_type = NULL,  
  start_date = NULL,  
  end_date = NULL  
)
```

Arguments

| | |
|------------|--|
| season | Year for which to return information (<i>Required</i>). |
| league_ids | The league_id(s) for which to return information. |
| sport_ids | The sport_id(s) for which to return information. |
| team_ids | The team_id(s) for which to return information. |
| game_type | The game_type for which to return information. |
| venue_ids | Venue directorial information based venue_id. |
| org_type | pace of game metrics based on team ('T'), league ('L') or sport('S') |
| start_date | Date of first game for which you want data. Format must be in MM/DD/YYYY format. |
| end_date | Date of last game for which you want data. Format must be in MM/DD/YYYY format. |

Value

Returns a tibble with the following columns

| | |
|--------------|---------|
| col_name | types |
| hits_per9inn | numeric |
| runs_per9inn | numeric |

| | |
|---|-----------|
| pitches_per9inn | numeric |
| plate_appearances_per9inn | numeric |
| hits_per_game | numeric |
| runs_per_game | numeric |
| innings_played_per_game | numeric |
| pitches_per_game | numeric |
| pitchers_per_game | numeric |
| plate_appearances_per_game | numeric |
| total_game_time | character |
| total_innings_played | integer |
| total_hits | integer |
| total_runs | integer |
| total_plate_appearances | integer |
| total_pitchers | integer |
| total_pitches | integer |
| total_games | integer |
| total7inn_games | integer |
| total9inn_games | integer |
| total_extra_inn_games | integer |
| time_per_game | character |
| time_per_pitch | character |
| time_per_hit | character |
| time_per_run | character |
| time_per_plate_appearance | character |
| time_per9inn | character |
| time_per77plate_appearances | character |
| total_extra_inn_time | character |
| time_per7inn_game | character |
| time_per7inn_game_without_extra_inn | character |
| total7inn_games_scheduled | integer |
| total7inn_games_without_extra_inn | integer |
| total9inn_games_completed_early | integer |
| total9inn_games_without_extra_inn | integer |
| total9inn_games_scheduled | integer |
| hits_per_run | numeric |
| pitches_per_pitcher | numeric |
| season | character |
| sport_id | integer |
| sport_code | character |
| sport_link | character |
| pr_portal_calculated_fields_total7inn_games | integer |
| pr_portal_calculated_fields_total9inn_games | integer |
| pr_portal_calculated_fields_total_extra_inn_games | integer |
| pr_portal_calculated_fields_time_per7inn_game | character |
| pr_portal_calculated_fields_time_per9inn_game | character |
| pr_portal_calculated_fields_time_per_extra_inn_game | character |

Examples

```
try(mlb_game_pks(season = 2021, start_date = "09/14/2021", end_date = "09/16/2021"))
```

mlb_game_pks

Get MLB Game Info by Date and Level**Description**

Find game_pk values for professional baseball games (major and minor leagues) via the MLB api <https://www.mlb.com/>

Usage

```
mlb_game_pks(date, level_ids = c(1))
```

Arguments

| | |
|-----------|--|
| date | The date for which you want to find game_pk values for MLB games |
| level_ids | A numeric vector with ids for each level where game_pks are desired. See below for a reference of level ids. |

Details

Level IDs:

The following IDs can be passed to the level_ids argument:

1 = MLB 11 = Triple-A 12 = Doubl-A 13 = Class A Advanced 14 = Class A 15 = Class A Short Season 5442 = Rookie Advanced 16 = Rookie 17 = Winter League

Value

Returns a tibble that includes game_pk values and additional information for games scheduled or played with the following columns:

| col_name | types |
|--------------|-----------|
| game_pk | integer |
| link | character |
| gameType | character |
| season | character |
| gameDate | character |
| officialDate | character |
| isTie | logical |
| gameNumber | integer |
| publicFacing | logical |
| doubleHeader | character |
| gamedayType | character |

| | |
|--------------------------------|-----------|
| tiebreaker | character |
| calendarEventID | character |
| seasonDisplay | character |
| dayNight | character |
| scheduledInnings | integer |
| reverseHomeAwayStatus | logical |
| inningBreakLength | integer |
| gamesInSeries | integer |
| seriesGameNumber | integer |
| seriesDescription | character |
| recordSource | character |
| ifNecessary | character |
| ifNecessaryDescription | character |
| status.abstractGameState | character |
| status.codedGameState | character |
| status.detailedState | character |
| status.statusCode | character |
| status.startTimeTBD | logical |
| status.abstractGameCode | character |
| teams.away.score | integer |
| teams.away.isWinner | logical |
| teams.away.splitSquad | logical |
| teams.away.seriesNumber | integer |
| teams.away.leagueRecord.wins | integer |
| teams.away.leagueRecord.losses | integer |
| teams.away.leagueRecord.pct | character |
| teams.away.team.id | integer |
| teams.away.team.name | character |
| teams.away.team.link | character |
| teams.home.score | integer |
| teams.home.isWinner | logical |
| teams.home.splitSquad | logical |
| teams.home.seriesNumber | integer |
| teams.home.leagueRecord.wins | integer |
| teams.home.leagueRecord.losses | integer |
| teams.home.leagueRecord.pct | character |
| teams.home.team.id | integer |
| teams.home.team.name | character |
| teams.home.team.link | character |
| venue.id | integer |
| venue.name | character |
| venue.link | character |
| content.link | character |

Examples

```
try(mlb_game_pks("2019-04-29"))
```

| | |
|-----------------------|------------------------------|
| mlb_game_status_codes | MLB Game Status Codes |
|-----------------------|------------------------------|

Description

MLB Game Status Codes

Usage

mlb_game_status_codes()

Value

Returns a tibble with the following columns

| col_name | types |
|---------------------|-----------|
| abstract_game_state | character |
| coded_game_state | character |
| detailed_state | character |
| status_code | character |
| reason | character |
| abstract_game_code | character |

Examples

try(mlb_game_status_codes())

| | |
|--------------------|--|
| mlb_game_timecodes | Acquire time codes for Major and Minor League games |
|--------------------|--|

Description

Acquire time codes for Major and Minor League games

Usage

mlb_game_timecodes(game_pk)

Arguments

game_pk The game_pk for the game requested

Value

Returns a tibble that includes time codes from the game_pk requested

| col_name | types |
|-----------------------------|---------|
| timecodes (MMDDYYYY_HHMMSS) | numeric |

Examples

```
try(mlb_game_timecodes(game_pk = 632970))
```

| | |
|----------------|-----------------------|
| mlb_game_types | MLB Game Types |
|----------------|-----------------------|

Description

MLB Game Types

Usage

```
mlb_game_types()
```

Value

Returns a tibble with the following columns

| col_name | types |
|-----------------------|-----------|
| game_type_id | character |
| game_type_description | character |

Examples

```
try(mlb_game_types())
```

mlb_game_wpAcquire win probability for Major and Minor League games

Description**Acquire win probability for Major and Minor League games****Usage**

```
mlb_game_wp(game_pk, timecode = NULL)
```

Arguments

| | |
|----------|--|
| game_pk | The game_pk for the game requested |
| timecode | The time code for the MLB game (format: MMDDYYYY_HHMMSS) |

Value

Returns a tibble that includes time codes from the game_pk requested

| col_name | types |
|---------------------------------|---------|
| home_team_win_probability | numeric |
| away_team_win_probability | numeric |
| home_team_win_probability_added | numeric |
| at_bat_index | integer |
| leverage_index | numeric |

Examples

```
try(mlb_game_wp(game_pk = 531060))
```

mlb_high_low_statsAcquire high/low stats for Major and Minor Leagues

Description**Acquire high/low stats for Major and Minor Leagues**

Usage

```
mlb_high_low_stats(
  org_type,
  season,
  sort_stat,
  team_ids = NULL,
  league_ids = NULL,
  sport_ids = NULL,
  game_type = NULL,
  stat_group = NULL,
  limit = NULL
)
```

Arguments

org_type The organization type for return information (*Required*). Valid values include:

- player
- team
- division
- league
- sport

season The season for which you want to return information (*Required*).

sort_stat The stat to sort the return (*Required*). Valid values can be found from 'stat_lookup_param' below

| stat_name | stat_lookup_param | is_counting | stat_label | stat_groups |
|-------------------------|-------------------|-------------|-------------------------|------------------------------|
| at_bats | atBats | TRUE | At bats | hitting , pitching |
| total_plate_appearances | plateAppearances | TRUE | Total plate appearances | hitting |
| runs | runs | TRUE | Runs | hitting |
| runs_batted_in | rbi | TRUE | Runs batted in | hitting |
| home_team_runs | runs | TRUE | Home team runs | hitting |
| away_team_runs | runs | TRUE | Away team runs | hitting |
| hits | hits | TRUE | Hits | hitting |
| hits_risp | hitsRisp | TRUE | Hits risp | hitting |
| home_team_hits | hits | TRUE | Home team hits | hitting |
| away_team_hits | hits | TRUE | Away team hits | hitting |
| total_bases | totalBases | TRUE | Total bases | hitting , pitching |
| doubles | doubles | TRUE | Doubles | hitting , pitching |
| triples | triples | TRUE | Triples | hitting |
| home_runs | homeRuns | TRUE | Home runs | hitting , pitching |
| extra_base_hits | extraBaseHits | TRUE | Extra base hits | hitting |
| walks | baseOnBalls | TRUE | Walks | hitting , pitching |
| strikeouts | strikeouts | TRUE | Strikeouts | hitting , pitching |
| stolen_bases | stolenBases | TRUE | Stolen bases | hitting |
| caught_stealing | caughtStealing | TRUE | Caught stealing | hitting , pitching, fielding |
| sacrifice_flies | sacFlies | TRUE | Sacrifice flies | hitting |
| sacrifice_bunts | sacBunts | TRUE | Sacrifice bunts | hitting |

| | | | | |
|--------------------------|----------------------|------|--------------------------|--------------------|
| hit_by_pitches | hitByPitch | TRUE | Hit by pitches | hitting , pitching |
| left_on_base | leftOnBase | TRUE | Left on base | hitting |
| ground_into_double_plays | groundIntoDoublePlay | TRUE | Ground into double plays | hitting , pitching |
| strikes | strikes | TRUE | Strikes | pitching |
| pitches | pitchesThrown | TRUE | Pitches | pitching |
| balks | balks | TRUE | Balks | pitching |
| innings_pitched | inningsPitched | TRUE | Innings pitched | pitching |
| errors | errors | TRUE | Errors | fielding |
| home_team_errors | errors | TRUE | Home team errors | fielding |
| away_team_errors | errors | TRUE | Away team errors | fielding |
| chances | chances | TRUE | Chances | fielding |
| put_outs | putOuts | TRUE | Put outs | fielding |
| assists | assists | TRUE | Assists | fielding |
| double_plays | doublePlays | TRUE | Double plays | fielding |
| attendance | attendance | TRUE | Attendance | game |
| game_time | gameDuration | TRUE | Game time | game |
| delay_time | gameDuration | TRUE | Delay time | game |
| longest | gameDuration | TRUE | Longest | game |
| shortest | gameDuration | TRUE | Shortest | game |
| inning | innings | TRUE | Inning | game |
| win_streak | winStreak | TRUE | Win streak | streak |
| loss_streak | lossStreak | TRUE | Loss streak | streak |

| | |
|------------|---|
| team_ids | The team_id(s) for which to return information. |
| league_ids | The league_id(s) for which to return information. |
| sport_ids | The sport_id(s) for which to return information. |
| game_type | The game_type for which to return information. |
| stat_group | Stat group for which to return information. Valid values include: |

stat_group
hitting
pitching
fielding
catching
running
game
team
streak

| | |
|-------|---|
| limit | Number of records as the limit of the return. |
|-------|---|

Value

Returns a tibble with the following columns

| | |
|------------------------|-----------|
| col_name | types |
| total_splits | integer |
| season | integer |
| date | character |
| is_home | logical |
| rank | integer |
| game_innings | integer |
| stat_at_bats | integer |
| team_id | integer |
| team_name | character |
| team_link | character |
| opponent_id | integer |
| opponent_name | character |
| opponent_link | character |
| game_pk | integer |
| game_link | character |
| game_number | integer |
| game_content_link | character |
| home_team_id | integer |
| home_team_name | character |
| home_team_link | character |
| away_team_id | integer |
| away_team_name | character |
| away_team_link | character |
| combined_stats | logical |
| group_display_name | character |
| game_type_id | character |
| game_type_description | character |
| sort_stat_name | character |
| sort_stat_lookup_param | character |
| sort_stat_is_counting | logical |
| sort_stat_label | character |

Examples

```
try(mlb_high_low_stats(org_type = 'Team', season = 2020, sort_stat = 'atBats'))
```

| | |
|--------------------|-------------------------|
| mlb_high_low_types | MLB Stat High/Low Types |
|--------------------|-------------------------|

Description

MLB Stat High/Low Types

Usage

```
mlb_high_low_types()
```

Value

Returns a tibble with the following columns

| | |
|-------------------|-----------|
| col_name | types |
| stat_name | character |
| stat_lookup_param | character |
| is_counting | logical |
| stat_label | character |
| stat_groups | list |
| org_types | list |
| high_low_types | list |

Examples

```
try(mlb_high_low_types())
```

| | |
|----------------------|-----------------------------|
| mlb_hit_trajectories | MLB Hit Trajectories |
|----------------------|-----------------------------|

Description

MLB Hit Trajectories

Usage

```
mlb_hit_trajectories()
```

Value

Returns a tibble with the following columns

| | |
|----------------------------|-----------|
| col_name | types |
| hit_trajectory_code | character |
| hit_trajectory_description | character |

Examples

```
try(mlb_hit_trajectories())
```

| | |
|-------------------|------------------------------------|
| mlb_homerun_derby | Retrieve Homerun Derby data |
|-------------------|------------------------------------|

Description

Retrieve Homerun Derby data

Usage

mlb_homerun_derby(game_pk)

Arguments

game_pk The game_pk for which you want to return data

Value

Returns a tibble with the following columns

| | |
|------------------------------|-----------|
| col_name | types |
| game_pk | integer |
| event_name | character |
| event_date | character |
| event_type_code | character |
| event_type_name | character |
| venue_id | integer |
| venue_name | character |
| round | integer |
| num_batters | integer |
| batter | character |
| batter_id | integer |
| batter_link | character |
| top_seed_started | logical |
| top_seed_complete | logical |
| top_seed_winner | logical |
| bonus_time | logical |
| home_run | logical |
| tie_breaker | logical |
| is_home_run | logical |
| time_remaining | character |
| is_bonus_time | logical |
| is_tie_breaker | logical |
| hit_data_launch_speed | integer |
| hit_data_launch_angle | integer |
| hit_data_total_distance | integer |
| hit_data_coordinates_coord_x | numeric |
| hit_data_coordinates_coord_y | numeric |

| | |
|--|-----------|
| hit_data_coordinates_landing_pos_x | numeric |
| hit_data_coordinates_landing_pos_y | numeric |
| hit_data_trajectory_data_trajectory_polynomial_x | list |
| hit_data_trajectory_data_trajectory_polynomial_y | list |
| hit_data_trajectory_data_trajectory_polynomial_z | list |
| hit_data_trajectory_data_valid_time_interval | list |
| top_seed_seed | integer |
| top_seed_is_winner | logical |
| top_seed_is_complete | logical |
| top_seed_is_started | logical |
| top_seed_num_home_runs | integer |
| top_seed_player_id | integer |
| top_seed_player_full_name | character |
| top_seed_player_link | character |
| top_seed_top_derby_hit_data_launch_speed | integer |
| top_seed_top_derby_hit_data_total_distance | integer |
| bottom_seed_started | logical |
| bottom_seed_complete | logical |
| bottom_seed_winner | logical |
| bottom_seed_seed | integer |
| bottom_seed_is_winner | logical |
| bottom_seed_is_complete | logical |
| bottom_seed_is_started | logical |
| bottom_seed_num_home_runs | integer |
| bottom_seed_player_id | integer |
| bottom_seed_player_full_name | character |
| bottom_seed_player_link | character |
| bottom_seed_top_derby_hit_data_launch_speed | integer |
| bottom_seed_top_derby_hit_data_total_distance | integer |
| venue_link | character |
| is_multi_day | logical |
| is_primary_calendar | logical |
| file_code | character |
| event_number | integer |
| public_facing | logical |

Examples

```
try(mlb_homerun_derby(game_pk = 511101))
```

mlb_homerun_derby_bracket

Retrieve Homerun Derby Bracket

Description**Retrieve Homerun Derby Bracket****Usage**

```
mlb_homerun_derby_bracket(game_pk)
```

Arguments

game_pk The game_pk for which you want to return data

Value

Returns a tibble with the following columns

| col_name | types |
|--|-----------|
| game_pk | integer |
| event_name | character |
| event_type_code | character |
| event_type_name | character |
| event_date | character |
| venue_id | integer |
| venue_name | character |
| venue_link | character |
| is_multi_day | logical |
| is_primary_calendar | logical |
| file_code | character |
| event_number | integer |
| public_facing | logical |
| round | integer |
| num_batters | integer |
| top_seed_complete | logical |
| top_seed_started | logical |
| top_seed_winner | logical |
| top_seed_seed | integer |
| top_seed_is_winner | logical |
| top_seed_is_complete | logical |
| top_seed_is_started | logical |
| top_seed_num_home_runs | integer |
| top_seed_player_id | integer |
| top_seed_player_full_name | character |
| top_seed_player_link | character |
| top_seed_top_derby_hit_data_launch_speed | integer |
| top_seed_top_derby_hit_data_total_distance | integer |
| bottom_seed_complete | logical |
| bottom_seed_started | logical |
| bottom_seed_winner | logical |
| bottom_seed_seed | integer |
| bottom_seed_is_winner | logical |

| | |
|---|-----------|
| bottom_seed_is_complete | logical |
| bottom_seed_is_started | logical |
| bottom_seed_num_home_runs | integer |
| bottom_seed_player_id | integer |
| bottom_seed_player_full_name | character |
| bottom_seed_player_link | character |
| bottom_seed_top_derby_hit_data_launch_speed | integer |
| bottom_seed_top_derby_hit_data_total_distance | integer |

Examples

```
try(mlb_homerun_derby_bracket(game_pk = 511101))
```

mlb_homerun_derby_players

Retrieve Homerun Derby Players

Description**Retrieve Homerun Derby Players****Usage**

```
mlb_homerun_derby_players(game_pk)
```

Arguments

game_pk The game_pk for which you want to return data

Value

Returns a tibble with the following columns

| | |
|-------------------|-----------|
| col_name | types |
| game_pk | integer |
| event_name | character |
| event_date | character |
| event_type_code | character |
| event_type_name | character |
| venue_id | integer |
| venue_name | character |
| player_id | integer |
| player_full_name | character |
| player_link | character |
| player_first_name | character |

| | |
|--|-----------|
| player_last_name | character |
| player_primary_number | character |
| player_birth_date | character |
| player_current_age | integer |
| player_birth_city | character |
| player_birth_state_province | character |
| player_birth_country | character |
| player_height | character |
| player_weight | integer |
| player_active | logical |
| player_use_name | character |
| player_middle_name | character |
| player_boxscore_name | character |
| player_nick_name | character |
| player_gender | character |
| player_is_player | logical |
| player_is_verified | logical |
| player_draft_year | integer |
| player_pronunciation | character |
| player_mlb_debut_date | character |
| player_name_first_last | character |
| player_name_slug | character |
| player_first_last_name | character |
| player_last_first_name | character |
| player_last_init_name | character |
| player_init_last_name | character |
| player_full_fml_name | character |
| player_full_lfm_name | character |
| player_strike_zone_top | numeric |
| player_strike_zone_bottom | numeric |
| player_name_matrilineal | character |
| player_current_team_id | integer |
| player_current_team_name | character |
| player_current_team_link | character |
| player_current_team_season | integer |
| player_current_team_team_code | character |
| player_current_team_file_code | character |
| player_current_team_abbreviation | character |
| player_current_team_team_name | character |
| player_current_team_location_name | character |
| player_current_team_first_year_of_play | character |
| player_current_team_short_name | character |
| player_current_team_franchise_name | character |
| player_current_team_club_name | character |
| player_current_team_all_star_status | character |
| player_current_team_active | logical |
| player_current_team_parent_org_name | character |
| player_current_team_parent_org_id | integer |

| | |
|--|-----------|
| player_current_team_venue_id | integer |
| player_current_team_venue_name | character |
| player_current_team_venue_link | character |
| player_current_team_spring_venue_id | integer |
| player_current_team_spring_venue_link | character |
| player_current_team_league_id | integer |
| player_current_team_league_name | character |
| player_current_team_league_link | character |
| player_current_team_division_id | integer |
| player_current_team_division_name | character |
| player_current_team_division_link | character |
| player_current_team_sport_id | integer |
| player_current_team_sport_link | character |
| player_current_team_sport_name | character |
| player_current_team_spring_league_id | integer |
| player_current_team_spring_league_name | character |
| player_current_team_spring_league_link | character |
| player_current_team_spring_league_abbreviation | character |
| player_primary_position_code | character |
| player_primary_position_name | character |
| player_primary_position_type | character |
| player_primary_position_abbreviation | character |
| player_bat_side_code | character |
| player_bat_side_description | character |
| player_pitch_hand_code | character |
| player_pitch_hand_description | character |
| venue_link | character |
| is_multi_day | logical |
| is_primary_calendar | logical |
| file_code | character |
| event_number | integer |
| public_facing | logical |

Examples

```
try(mlb_homerun_derby_players(game_pk = 511101))
```

| | |
|----------|----------|
| mlb_jobs | MLB Jobs |
|----------|----------|

Description

MLB Jobs

Usage

```
mlb_jobs(job_type = "UMPR", sport_id = NULL, date = NULL)
```

Arguments

- job_type Return information for a given job_type. See mlb_job_types()
- sport_id Return information for a given sport_id.
- date Return information for a given date.

Value

Returns a tibble with the following columns

| | |
|------------------|-----------|
| col_name | types |
| jersey_number | character |
| job | character |
| job_code | character |
| title | character |
| person_id | integer |
| person_full_name | character |
| person_link | character |

Examples

```
try(mlb_jobs(job_type='UMPR'))
```

| | |
|----------------------|-----------------------------|
| mlb_jobs_datacasters | MLB Jobs Datacasters |
|----------------------|-----------------------------|

Description

MLB Jobs Datacasters

Usage

```
mlb_jobs_datacasters(sport_id = NULL, date = NULL)
```

Arguments

- sport_id Return information for a given sport_id.
- date Return information for a given date.

Value

Returns a tibble with the following columns

| | |
|------------------|-----------|
| col_name | types |
| jersey_number | character |
| job | character |
| job_code | character |
| title | character |
| person_id | integer |
| person_full_name | character |
| person_link | character |

Examples

```
try(mlb_jobs_datacasters(sport_id=1))
```

| |
|----------------------------------|
| mlb_jobs_official_scorers |
| MLB Jobs Official Scorers |

Description

MLB Jobs Official Scorers

Usage

```
mlb_jobs_official_scorers(sport_id = NULL, date = NULL)
```

Arguments

- sport_id Return information for a given sport_id.
- date Return information for a given date.

Value

Returns a tibble with the following columns

| | |
|------------------|-----------|
| col_name | types |
| jersey_number | character |
| job | character |
| job_code | character |
| title | character |
| person_id | integer |
| person_full_name | character |
| person_link | character |

Examples

```
try(mlb_jobs_official_scorers(sport_id=1))
```

| | |
|------------------|-------------------------|
| mlb_jobs_umpires | MLB Jobs Umpires |
|------------------|-------------------------|

Description

MLB Jobs Umpires

Usage

```
mlb_jobs_umpires(sport_id = NULL, date = NULL)
```

Arguments

- sport_id Return information for a given sport_id.
- date Return information for a given date.

Value

Returns a tibble with the following columns

| | |
|------------------|-----------|
| col_name | types |
| jersey_number | character |
| job | character |
| job_code | character |
| title | character |
| person_id | integer |
| person_full_name | character |
| person_link | character |

Examples

```
try(mlb_jobs_umpires(sport_id=1))
```

mlb_job_types

MLB Job Types**Description****MLB Job Types****Usage**

```
mlb_job_types()
```

Value

Returns a tibble with the following columns

| | |
|------------|-----------|
| col_name | types |
| job_code | character |
| job | character |
| sort_order | integer |

Examples

```
try(mlb_job_types())
```

mlb_languages

MLB API Language Options**Description****MLB API Language Options****Usage**

```
mlb_languages()
```

Value

Returns a tibble with the following columns

| | |
|---------------|-----------|
| col_name | types |
| language_name | character |
| language_code | character |
| locale | character |

Examples

```
try(mlb_languages())
```

| | |
|------------|--------------------|
| mlb_league | MLB Leagues |
|------------|--------------------|

Description

MLB Leagues

Usage

```
mlb_league(seasons = NULL, sport_id = NULL, league_id = NULL)
```

Arguments

- seasons Year(s) to return to return league information for.
- sport_id The sport_id to return league information for.
- league_id The league_id(s) to return league information for.

Value

Returns a tibble with the following columns

| | |
|-------------|-----------|
| col_name | types |
| leader_type | character |

Examples

```
try(mlb_league(seasons = 2021, sport_id = 1))
```

`mlb_league_leader_types`**MLB League Leader Types**

Description**MLB League Leader Types****Usage**`mlb_league_leader_types()`**Value**

Returns a tibble with the following columns

| | |
|-------------|-----------|
| col_name | types |
| leader_type | character |

Examples`try(mlb_league_leader_types())`

`mlb_logical_events`**MLB Logical Events**

Description**MLB Logical Events****Usage**`mlb_logical_events()`**Value**

Returns a tibble with the following columns

| | |
|------------|-----------|
| col_name | types |
| event_code | character |

Examples`try(mlb_logical_events())`

| | | | | | | | | | | | |
|---|--|----------|-------|-------------|-----------|-----------|---------|------------|-----------|-------------|-----------|
| mlb_metrics | MLB Metrics | | | | | | | | | | |
| Description | | | | | | | | | | | |
| MLB Metrics | | | | | | | | | | | |
| Usage | | | | | | | | | | | |
| mlb_metrics() | | | | | | | | | | | |
| Value | | | | | | | | | | | |
| Returns a tibble with the following columns | | | | | | | | | | | |
| | <table><tr><td>col_name</td><td>types</td></tr><tr><td>metric_name</td><td>character</td></tr><tr><td>metric_id</td><td>integer</td></tr><tr><td>stat_group</td><td>character</td></tr><tr><td>metric_unit</td><td>character</td></tr></table> | col_name | types | metric_name | character | metric_id | integer | stat_group | character | metric_unit | character |
| col_name | types | | | | | | | | | | |
| metric_name | character | | | | | | | | | | |
| metric_id | integer | | | | | | | | | | |
| stat_group | character | | | | | | | | | | |
| metric_unit | character | | | | | | | | | | |
| Examples | | | | | | | | | | | |
| try(mlb_metrics()) | | | | | | | | | | | |
| mlb_pbp | Acquire pitch-by-pitch data for Major and Minor League games | | | | | | | | | | |

Description

Acquire pitch-by-pitch data for Major and Minor League games

Usage

mlb_pbp(game_pk)

Arguments

game_pk The date for which you want to find game_pk values for MLB games

Value

Returns a tibble that includes over 100 columns of data provided by the MLB Stats API at a pitch level.

Some data will vary depending on the park and the league level, as most sensor data is not available in minor league parks via this API. Note that the column names have mostly been left as-is and there are likely duplicate columns in terms of the information they provide. I plan to clean the output up down the road, but for now I am leaving the majority as-is.

Both major and minor league pitch-by-pitch data can be pulled with this function.

| col_name | types |
|----------------------------|-----------|
| game_pk | numeric |
| game_date | character |
| index | integer |
| startTime | character |
| endTime | character |
| isPitch | logical |
| type | character |
| playId | character |
| pitchNumber | integer |
| details.description | character |
| details.event | character |
| details.awayScore | integer |
| details.homeScore | integer |
| details.isScoringPlay | logical |
| details.hasReview | logical |
| details.code | character |
| details.ballColor | character |
| details.isInPlay | logical |
| details.isStrike | logical |
| details.isBall | logical |
| details.call.code | character |
| details.call.description | character |
| count.balls.start | integer |
| count.strikes.start | integer |
| count.outs.start | integer |
| player.id | integer |
| player.link | character |
| pitchData.strikeZoneTop | numeric |
| pitchData.strikeZoneBottom | numeric |
| details.fromCatcher | logical |
| pitchData.coordinates.x | numeric |
| pitchData.coordinates.y | numeric |
| hitData.trajectory | character |
| hitData.hardness | character |
| hitData.location | character |
| hitData.coordinates.coordX | numeric |
| hitData.coordinates.coordY | numeric |

| | |
|-------------------------------|-----------|
| actionPlayId | character |
| details.eventType | character |
| details.runnerGoing | logical |
| position.code | character |
| position.name | character |
| position.type | character |
| position.abbreviation | character |
| battingOrder | character |
| atBatIndex | character |
| result.type | character |
| result.event | character |
| result.eventType | character |
| result.description | character |
| result.rbi | integer |
| result.awayScore | integer |
| result.homeScore | integer |
| about.atBatIndex | integer |
| about.halfInning | character |
| about.inning | integer |
| about.startTime | character |
| about.endTime | character |
| about.isComplete | logical |
| about.isScoringPlay | logical |
| about.hasReview | logical |
| about.hasOut | logical |
| about.captivatingIndex | integer |
| count.balls.end | integer |
| count.strikes.end | integer |
| count.outs.end | integer |
| matchup.batter.id | integer |
| matchup.batter.fullName | character |
| matchup.batter.link | character |
| matchup.batSide.code | character |
| matchup.batSide.description | character |
| matchup.pitcher.id | integer |
| matchup.pitcher.fullName | character |
| matchup.pitcher.link | character |
| matchup.pitchHand.code | character |
| matchup.pitchHand.description | character |
| matchup.splits.batter | character |
| matchup.splits.pitcher | character |
| matchup.splits.menOnBase | character |
| batted.ball.result | factor |
| home_team | character |
| home_level_id | integer |
| home_level_name | character |
| home_parentOrg_id | integer |
| home_parentOrg_name | character |

| | |
|--------------------------------|-----------|
| home_league_id | integer |
| home_league_name | character |
| away_team | character |
| away_level_id | integer |
| away_level_name | character |
| away_parentOrg_id | integer |
| away_parentOrg_name | character |
| away_league_id | integer |
| away_league_name | character |
| batting_team | character |
| fielding_team | character |
| last.pitch.of.ab | character |
| pfxId | character |
| details.trailColor | character |
| details.type.code | character |
| details.type.description | character |
| pitchData.startSpeed | numeric |
| pitchData.endSpeed | numeric |
| pitchData.zone | integer |
| pitchData.typeConfidence | numeric |
| pitchData.plateTime | numeric |
| pitchData.extension | numeric |
| pitchData.coordinates.aY | numeric |
| pitchData.coordinates.aZ | numeric |
| pitchData.coordinates.pfxX | numeric |
| pitchData.coordinates.pfxZ | numeric |
| pitchData.coordinates.pX | numeric |
| pitchData.coordinates.pZ | numeric |
| pitchData.coordinates.vX0 | numeric |
| pitchData.coordinates.vY0 | numeric |
| pitchData.coordinates.vZ0 | numeric |
| pitchData.coordinates.x0 | numeric |
| pitchData.coordinates.y0 | numeric |
| pitchData.coordinates.z0 | numeric |
| pitchData.coordinates.aX | numeric |
| pitchData.breaks.breakAngle | numeric |
| pitchData.breaks.breakLength | numeric |
| pitchData.breaks.breakY | numeric |
| pitchData.breaks.spinRate | integer |
| pitchData.breaks.spinDirection | integer |
| hitData.launchSpeed | numeric |
| hitData.launchAngle | numeric |
| hitData.totalDistance | numeric |
| injuryType | character |
| umpire.id | integer |
| umpire.link | character |
| isBaseRunningPlay | logical |
| isSubstitution | logical |

| | |
|-------------------------------|-----------|
| about.isTopInning | logical |
| matchup.postOnFirst.id | integer |
| matchup.postOnFirst.fullName | character |
| matchup.postOnFirst.link | character |
| matchup.postOnSecond.id | integer |
| matchup.postOnSecond.fullName | character |
| matchup.postOnSecond.link | character |
| matchup.postOnThird.id | integer |
| matchup.postOnThird.fullName | character |
| matchup.postOnThird.link | character |

Examples

```
try(mlb_pbp(game_pk = 632970))
```

| | |
|--------------|---|
| mlb_pbp_diff | Acquire pitch-by-pitch data between two timecodes for Major and Minor League games |
|--------------|---|

Description

Acquire pitch-by-pitch data between two timecodes for Major and Minor League games

Usage

```
mlb_pbp_diff(game_pk, start_timecode, end_timecode)
```

Arguments

- game_pk The date for which you want to find game_pk values for MLB games
- start_timecode The start time code for the MLB game (format: MMDDYYYY_HHMMSS)
- end_timecode The end time code for the MLB game (format: MMDDYYYY_HHMMSS)

Value

Returns a tibble that includes over 100 columns of data provided by the MLB Stats API at a pitch level between the start_timecode and end_timecode

| | |
|-----------|-----------|
| col_name | types |
| game_pk | numeric |
| game_date | character |
| index | integer |
| startTime | character |
| endTime | character |
| isPitch | logical |

| | |
|----------------------------|-----------|
| type | character |
| playId | character |
| pitchNumber | integer |
| details.description | character |
| details.event | character |
| details.awayScore | integer |
| details.homeScore | integer |
| details.isScoringPlay | logical |
| details.hasReview | logical |
| details.code | character |
| details.ballColor | character |
| details.isInPlay | logical |
| details.isStrike | logical |
| details.isBall | logical |
| details.call.code | character |
| details.call.description | character |
| count.balls.start | integer |
| count.strikes.start | integer |
| count.outs.start | integer |
| player.id | integer |
| player.link | character |
| pitchData.strikeZoneTop | numeric |
| pitchData.strikeZoneBottom | numeric |
| details.fromCatcher | logical |
| pitchData.coordinates.x | numeric |
| pitchData.coordinates.y | numeric |
| hitData.trajectory | character |
| hitData.hardness | character |
| hitData.location | character |
| hitData.coordinates.coordX | numeric |
| hitData.coordinates.coordY | numeric |
| actionPlayId | character |
| details.eventType | character |
| details.runnerGoing | logical |
| position.code | character |
| position.name | character |
| position.type | character |
| position.abbreviation | character |
| battingOrder | character |
| atBatIndex | character |
| result.type | character |
| result.event | character |
| result.eventType | character |
| result.description | character |
| result.rbi | integer |
| result.awayScore | integer |
| result.homeScore | integer |
| about.atBatIndex | integer |

| | |
|-------------------------------|-----------|
| about.halfInning | character |
| about.inning | integer |
| about.startTime | character |
| about.endTime | character |
| about.isComplete | logical |
| about.isScoringPlay | logical |
| about.hasReview | logical |
| about.hasOut | logical |
| about.captivatingIndex | integer |
| count.balls.end | integer |
| count.strikes.end | integer |
| count.outs.end | integer |
| matchup.batter.id | integer |
| matchup.batter.fullName | character |
| matchup.batter.link | character |
| matchup.batSide.code | character |
| matchup.batSide.description | character |
| matchup.pitcher.id | integer |
| matchup.pitcher.fullName | character |
| matchup.pitcher.link | character |
| matchup.pitchHand.code | character |
| matchup.pitchHand.description | character |
| matchup.splits.batter | character |
| matchup.splits.pitcher | character |
| matchup.splits.menOnBase | character |
| batted.ball.result | factor |
| home_team | character |
| home_level_id | integer |
| home_level_name | character |
| home_parentOrg_id | integer |
| home_parentOrg_name | character |
| home_league_id | integer |
| home_league_name | character |
| away_team | character |
| away_level_id | integer |
| away_level_name | character |
| away_parentOrg_id | integer |
| away_parentOrg_name | character |
| away_league_id | integer |
| away_league_name | character |
| batting_team | character |
| fielding_team | character |
| last.pitch.of.ab | character |
| pfxId | character |
| details.trailColor | character |
| details.type.code | character |
| details.type.description | character |
| pitchData.startSpeed | numeric |

| | |
|--------------------------------|-----------|
| pitchData.endSpeed | numeric |
| pitchData.zone | integer |
| pitchData.typeConfidence | numeric |
| pitchData.plateTime | numeric |
| pitchData.extension | numeric |
| pitchData.coordinates.aY | numeric |
| pitchData.coordinates.aZ | numeric |
| pitchData.coordinates.pfxX | numeric |
| pitchData.coordinates.pfxZ | numeric |
| pitchData.coordinates.pX | numeric |
| pitchData.coordinates.pZ | numeric |
| pitchData.coordinates.vX0 | numeric |
| pitchData.coordinates.vY0 | numeric |
| pitchData.coordinates.vZ0 | numeric |
| pitchData.coordinates.x0 | numeric |
| pitchData.coordinates.y0 | numeric |
| pitchData.coordinates.z0 | numeric |
| pitchData.coordinates.aX | numeric |
| pitchData.breaks.breakAngle | numeric |
| pitchData.breaks.breakLength | numeric |
| pitchData.breaks.breakY | numeric |
| pitchData.breaks.spinRate | integer |
| pitchData.breaks.spinDirection | integer |
| hitData.launchSpeed | numeric |
| hitData.launchAngle | numeric |
| hitData.totalDistance | numeric |
| injuryType | character |
| umpire.id | integer |
| umpire.link | character |
| about.isTopInning | logical |
| matchup.postOnFirst.id | integer |
| matchup.postOnFirst.fullName | character |
| matchup.postOnFirst.link | character |

Examples

```
try(mlb_pbp_diff(game_pk = 632970,
  start_timecode = "20210808_231704",
  end_timecode = "20210808_233711"))
```

mlb_people

Find Biographical Information for MLB Players

Description

Find Biographical Information for MLB Players

Usage

```
mlb_people(person_ids = NULL)
```

Arguments

person_ids MLBAMIDs for players of interest. Multiple IDs should be provided in a vector separated by a comma.

Value

Returns a tibble with the following columns:

| col_name | types |
|-----------------------|-----------|
| id | integer |
| full_name | character |
| link | character |
| first_name | character |
| last_name | character |
| primary_number | character |
| birth_date | character |
| current_age | integer |
| birth_city | character |
| birth_state_province | character |
| birth_country | character |
| height | character |
| weight | integer |
| active | logical |
| use_name | character |
| middle_name | character |
| boxscore_name | character |
| nick_name | character |
| gender | character |
| is_player | logical |
| is_verified | logical |
| draft_year | integer |
| mlb_debut_date | character |
| name_first_last | character |
| name_slug | character |
| first_last_name | character |
| last_first_name | character |
| last_init_name | character |
| init_last_name | character |
| full_fml_name | character |
| full_lfm_name | character |
| strike_zone_top | numeric |
| strike_zone_bottom | numeric |
| pronunciation | character |
| primary_position_code | character |

| | |
|-------------------------------|-----------|
| primary_position_name | character |
| primary_position_type | character |
| primary_position_abbreviation | character |
| bat_side_code | character |
| bat_side_description | character |
| pitch_hand_code | character |
| pitch_hand_description | character |

Examples

```
try(mlb_people(person_ids = 502671))
try(mlb_people(person_ids = c(502671,605151)))
```

mlb_people_free_agents

Find Information About MLB Free Agents

Description

Find Information About MLB Free Agents

Usage

```
mlb_people_free_agents(season = NULL)
```

Arguments

season Season preceding free agency

Value

Returns a tibble with the following columns:

| | |
|--------------------|-----------|
| col_name | types |
| date_declared | character |
| notes | character |
| date_signed | character |
| sort_order | integer |
| player_id | integer |
| player_full_name | character |
| player_link | character |
| original_team_id | integer |
| original_team_name | character |
| original_team_link | character |
| position_code | character |

| | |
|-----------------------|-----------|
| position_name | character |
| position_type | character |
| position_abbreviation | character |
| new_team_id | integer |
| new_team_name | character |
| new_team_link | character |

Examples

```
try(mlb_people_free_agents(season = 2018))
```

| | |
|-----------------|------------------------|
| mlb_pitch_codes | MLB Pitch Codes |
|-----------------|------------------------|

Description

MLB Pitch Codes

Usage

```
mlb_pitch_codes()
```

Value

Returns a tibble with the following columns

| | |
|-------------------|-----------|
| col_name | types |
| pitch_code | character |
| pitch_description | character |

Examples

```
try(mlb_pitch_codes())
```

| | |
|-----------------|------------------------|
| mlb_pitch_types | MLB Pitch Types |
|-----------------|------------------------|

Description**MLB Pitch Types****Usage**

```
mlb_pitch_types()
```

Value

Returns a tibble with the following columns

| col_name | types |
|------------------------|-----------|
| pitch_type_code | character |
| pitch_type_description | character |

Examples

```
try(mlb_pitch_types())
```

| | |
|-----------------------|-----------------------------------|
| mlb_player_game_stats | Find MLB Player Game Stats |
|-----------------------|-----------------------------------|

Description**Find MLB Player Game Stats****Usage**

```
mlb_player_game_stats(person_id = NULL, game_pk = NULL)
```

Arguments

| | |
|-----------|--|
| person_id | MLBAMIDs for player of interest. |
| game_pk | The game_pk to return game_log statistics for a specific player in a specific game and to complete the call. |

Value

Returns a tibble with the following columns:

| col_name | types |
|------------------------|-----------|
| type | character |
| group | character |
| assists | integer |
| put_outs | integer |
| errors | integer |
| chances | integer |
| fielding | character |
| caught_stealing | integer |
| passed_ball | integer |
| stolen_bases | integer |
| stolen_base_percentage | character |
| pickoffs | integer |
| games_played | integer |
| games_started | integer |
| fly_outs | integer |
| ground_outs | integer |
| air_outs | integer |
| runs | integer |
| doubles | integer |
| triples | integer |
| home_runs | integer |
| strike_outs | integer |
| base_on_balls | integer |
| intentional_walks | integer |
| hits | integer |
| hit_by_pitch | integer |
| at_bats | integer |
| number_of_pitches | integer |
| innings_pitched | character |
| wins | integer |
| losses | integer |
| saves | integer |
| save_opportunities | integer |
| holds | integer |
| blown_saves | integer |
| earned_runs | integer |
| batters_faced | integer |
| outs | integer |
| games_pitched | integer |
| complete_games | integer |
| shutouts | integer |
| pitches_thrown | integer |
| balls | integer |
| strikes | integer |

| | |
|--------------------------|-----------|
| strike_percentage | character |
| hit_batsmen | integer |
| balks | integer |
| wild_pitches | integer |
| rbi | integer |
| games_finished | integer |
| runs_scored_per9 | character |
| home_runs_per9 | character |
| inherited_runners | integer |
| inherited_runners_scored | integer |
| catchers_interference | integer |
| sac_bunts | integer |
| sac_flies | integer |
| ground_into_double_play | integer |
| ground_into_triple_play | integer |
| plate_appearances | integer |
| total_bases | integer |
| left_on_base | integer |
| at_bats_per_home_run | character |
| game_type | character |
| num_teams | integer |
| avg | character |
| obp | character |
| slg | character |
| ops | character |
| outs_pitched | integer |
| whip | character |
| ground_outs_to_airouts | character |
| pitches_per_inning | character |
| strikeout_walk_ratio | character |
| strikeouts_per9inn | character |
| walks_per9inn | character |
| hits_per9inn | character |
| team_id | integer |
| team_name | character |
| team_link | character |
| opponent_id | integer |
| opponent_name | character |
| opponent_link | character |
| pitcher_id | integer |
| pitcher_full_name | character |
| pitcher_link | character |
| pitcher_first_name | character |
| pitcher_last_name | character |
| batter_id | integer |
| batter_full_name | character |
| batter_link | character |
| batter_first_name | character |

| | |
|--------------------|-----------|
| batter_last_name | character |
| total_splits | integer |
| type_display_name | character |
| group_display_name | character |
| player_id | numeric |
| game_pk | numeric |

Examples

```
try(mlb_player_game_stats(person_id = 605151, game_pk = 531368))
```

| |
|--|
| mlb_player_game_stats_current |
| Find MLB Player Game Stats - Current Game |

Description

Find MLB Player Game Stats - Current Game

Usage

```
mlb_player_game_stats_current(person_id = NULL)
```

Arguments

person_id MLBAMIDs for player of interest.

Value

Returns a tibble with the following columns:

| | |
|-----------------------------|-----------|
| col_name | types |
| type | character |
| group | character |
| stat_assists | integer |
| stat_put_outs | integer |
| stat_errors | integer |
| stat_chances | integer |
| stat_fielding | character |
| stat_caught_stealing | integer |
| stat_passed_ball | integer |
| stat_stolen_bases | integer |
| stat_stolen_base_percentage | character |
| stat_pickoffs | integer |
| stat_games_played | integer |

| | |
|-------------------------------|-----------|
| stat_games_started | integer |
| stat_fly_outs | integer |
| stat_ground_outs | integer |
| stat_air_outs | integer |
| stat_runs | integer |
| stat_doubles | integer |
| stat_triples | integer |
| stat_home_runs | integer |
| stat_strike_outs | integer |
| stat_base_on_balls | integer |
| stat_intentional_walks | integer |
| stat_hits | integer |
| stat_hit_by_pitch | integer |
| stat_at_bats | integer |
| stat_number_of_pitches | integer |
| stat_innings_pitched | character |
| stat_wins | integer |
| stat_losses | integer |
| stat_saves | integer |
| stat_save_opportunities | integer |
| stat_holds | integer |
| stat_blow_n_saves | integer |
| stat_earned_runs | integer |
| stat_batters_faced | integer |
| stat_outs | integer |
| stat_games_pitched | integer |
| stat_complete_games | integer |
| stat_shutouts | integer |
| stat_pitches_thrown | integer |
| stat_balls | integer |
| stat_strikes | integer |
| stat_strike_percentage | character |
| stat_hit_batsmen | integer |
| stat_balks | integer |
| stat_wild_pitches | integer |
| stat_rbi | integer |
| stat_games_finished | integer |
| stat_runs_scored_per9 | character |
| stat_home_runs_per9 | character |
| stat_inherited_runners | integer |
| stat_inherited_runners_scored | integer |
| stat_catchers_interference | integer |
| stat_sac_bunts | integer |
| stat_sac_flies | integer |
| stat_ground_into_double_play | integer |
| stat_ground_into_triple_play | integer |
| stat_plate_appearances | integer |
| stat_total_bases | integer |

| | |
|-----------------------------|-----------|
| stat_left_on_base | integer |
| stat_at_bats_per_home_run | character |
| game_type | character |
| num_teams | integer |
| stat_avg | character |
| stat_obp | character |
| stat_slg | character |
| stat_ops | character |
| stat_outs_pitched | integer |
| stat_whip | character |
| stat_ground_outs_to_airouts | character |
| stat_pitches_per_inning | character |
| stat_strikeout_walk_ratio | character |
| stat_strikeouts_per9inn | character |
| stat_walks_per9inn | character |
| stat_hits_per9inn | character |
| team_id | integer |
| team_name | character |
| team_link | character |
| opponent_id | integer |
| opponent_name | character |
| opponent_link | character |
| pitcher_id | integer |
| pitcher_full_name | character |
| pitcher_link | character |
| pitcher_first_name | character |
| pitcher_last_name | character |
| batter_id | integer |
| batter_full_name | character |
| batter_link | character |
| batter_first_name | character |
| batter_last_name | character |
| total_splits | integer |
| type_display_name | character |
| group_display_name | character |
| player_id | numeric |
| game_pk | numeric |

Examples

```
try(mlb_player_game_stats_current(person_id = 660271))
```

| |
|--------------------------------|
| mlb_player_status_codes |
| MLB Player Status Codes |

Description

MLB Player Status Codes

Usage

```
mlb_player_status_codes()
```

Value

Returns a tibble with the following columns

| col_name | types |
|---------------------------|-----------|
| player_status_code | character |
| player_status_description | character |

Examples

```
try(mlb_player_status_codes())
```

| | |
|---------------|----------------------|
| mlb_positions | MLB Positions |
|---------------|----------------------|

Description

MLB Positions

Usage

```
mlb_positions()
```

Value

Returns a tibble with the following columns

| col_name | types |
|-----------------------|-----------|
| position_short_name | character |
| position_full_name | character |
| position_abbreviation | character |
| position_code | character |
| position_type | character |
| position_formal_name | character |
| game_position | logical |
| pitcher | logical |
| fielder | logical |
| outfield | logical |

position_display_name character

Examples

```
try(mlb_positions())
```

| | |
|---------------|--|
| mlb_probables | Retrieve probable starters for a given MLB game |
|---------------|--|

Description

Retrieve probable starters for a given MLB game

Usage

```
mlb_probables(game_pk)
```

Arguments

game_pk The unique game_pk identifier for the game

Value

Returns a tiible that includes probable starting pitchers and the home plate umpire for the game_pk requested including the following columns:

| | |
|----------------------|-----------|
| col_name | types |
| game_pk | integer |
| game_date | character |
| fullName | character |
| id | integer |
| team | character |
| team_id | integer |
| home_plate_full_name | character |
| home_plate_id | integer |

Examples

```
try(mlb_probables(566001))
```

| | |
|--------------------|---------------------------|
| mlb_review_reasons | MLB Review Reasons |
|--------------------|---------------------------|

Description

MLB Review Reasons

Usage

mlb_review_reasons()

Value

Returns a tibble with the following columns

| | |
|---------------------------|-----------|
| col_name | types |
| review_reason_code | character |
| review_reason_description | character |

Examples

try(mlb_review_reasons())

| | |
|-------------|--|
| mlb_rosters | Find MLB Rosters by Roster Type |
|-------------|--|

Description

Find MLB Rosters by Roster Type

Usage

mlb_rosters(team_id = NULL, season = NULL, date = NULL, roster_type = NULL)

Arguments

| | |
|-------------|---|
| team_id | team_id to return team roster information for a particular club. |
| season | Year to return team roster information for a particular club in a specific season. |
| date | Date to return team roster and their coaching staff directorial information for a particular team. |
| roster_type | roster_type to return team directorial information for. See mlb_roster_types() for more options. Valid options include: '40Man', 'fullSeason', 'fullRoster', 'nonRosterInvitees', 'active', 'allTime', 'depthChart', 'gameday', 'coach' |

Value

Returns a tibble with the following columns:

| col_name | types |
|-----------------------|-----------|
| jersey_number | character |
| person_id | integer |
| person_full_name | character |
| person_link | character |
| position_code | character |
| position_name | character |
| position_type | character |
| position_abbreviation | character |
| status_code | character |
| status_description | character |
| link | character |
| team_id | integer |
| roster_type | character |
| season | numeric |
| date | character |

Examples

```
try(mlb_rosters(team_id = 109, season = 2018, roster_type = 'active'))
try(mlb_rosters(team_id = 109, season = 2018, roster_type = 'coach'))
```

| | |
|------------------|-------------------------|
| mlb_roster_types | MLB Roster Types |
|------------------|-------------------------|

Description

MLB Roster Types

Usage

```
mlb_roster_types()
```

Value

Returns a tibble with the following columns

| col_name | types |
|-------------------------|-----------|
| roster_type_description | character |
| roster_type_lookup_name | character |
| roster_type_parameter | character |

Examples

```
try(mlb_roster_types())
```

| | |
|-------------------------|--------------------------------|
| mlb_runner_detail_types | MLB Runner Detail Types |
|-------------------------|--------------------------------|

Description

MLB Runner Detail Types

Usage

```
mlb_runner_detail_types()
```

Value

Returns a tibble with the following columns

| | |
|-----------|-----------|
| col_name | types |
| stat_name | character |

Examples

```
try(mlb_runner_detail_types())
```

| | |
|--------------|--|
| mlb_schedule | Find game_pk values for professional baseball games (major and minor leagues) |
|--------------|--|

Description

Find game_pk values for professional baseball games (major and minor leagues)

Usage

```
mlb_schedule(season = 2019, level_ids = "1")
```

Arguments

| | |
|-----------|--|
| season | The season for which you want to find game_pk values for MLB games |
| level_ids | A numeric vector with ids for each level where game_pks are desired. See below for a reference of level ids. |

| sport_id | sport_code | sport_link | sport_name | sport_abbreviation | sort_order | active |
|----------|------------|--------------------|---------------------------------------|--------------------|------------|--------|
| 1 | mlb | /api/v1/sports/1 | Major League Baseball | MLB | 11 | TRUE |
| 11 | aaa | /api/v1/sports/11 | Triple-A | AAA | 101 | TRUE |
| 12 | aax | /api/v1/sports/12 | Double-A | AA | 201 | TRUE |
| 13 | afa | /api/v1/sports/13 | High-A | A+ | 301 | TRUE |
| 14 | afx | /api/v1/sports/14 | Low-A | A | 401 | TRUE |
| 16 | rok | /api/v1/sports/16 | Rookie | ROK | 701 | TRUE |
| 17 | win | /api/v1/sports/17 | Winter Leagues | WIN | 1301 | TRUE |
| 8 | bbl | /api/v1/sports/8 | Organized Baseball | Pros | 1401 | TRUE |
| 21 | min | /api/v1/sports/21 | Minor League Baseball | Minors | 1402 | TRUE |
| 23 | ind | /api/v1/sports/23 | Independent Leagues | IND | 2101 | TRUE |
| 51 | int | /api/v1/sports/51 | International Baseball | INT | 3501 | TRUE |
| 508 | nat | /api/v1/sports/508 | International Baseball (Collegiate) | INTC | 3502 | TRUE |
| 509 | nae | /api/v1/sports/509 | International Baseball (18 and under) | 18U | 3503 | TRUE |
| 510 | nas | /api/v1/sports/510 | International Baseball (16 and under) | 16U | 3505 | TRUE |
| 22 | bbc | /api/v1/sports/22 | College Baseball | College | 5101 | TRUE |
| 586 | hsb | /api/v1/sports/586 | High School Baseball | H.S. | 6201 | TRUE |

Value

Returns a tibble which includes game_pk values and additional information for games scheduled or played with the following columns:

| col_name | types |
|-------------------------|-----------|
| date | character |
| total_items | integer |
| total_events | integer |
| total_games | integer |
| total_games_in_progress | integer |
| game_pk | integer |
| link | character |
| game_type | character |
| season | character |
| game_date | character |
| official_date | character |
| game_number | integer |
| public_facing | logical |
| double_header | character |
| gameday_type | character |
| tiebreaker | character |
| calendar_event_id | character |
| season_display | character |

| | |
|---------------------------------|-----------|
| day_night | character |
| scheduled_innings | integer |
| reverse_home_away_status | logical |
| inning_break_length | integer |
| games_in_series | integer |
| series_game_number | integer |
| series_description | character |
| record_source | character |
| if_necessary | character |
| if_necessary_description | character |
| status_abstract_game_state | character |
| status_coded_game_state | character |
| status_detailed_state | character |
| status_status_code | character |
| status_start_time_tbd | logical |
| status_reason | character |
| status_abstract_game_code | character |
| teams_away_split_squad | logical |
| teams_away_series_number | integer |
| teams_away_league_record_wins | integer |
| teams_away_league_record_losses | integer |
| teams_away_league_record_pct | character |
| teams_away_team_id | integer |
| teams_away_team_name | character |
| teams_away_team_link | character |
| teams_home_split_squad | logical |
| teams_home_series_number | integer |
| teams_home_league_record_wins | integer |
| teams_home_league_record_losses | integer |
| teams_home_league_record_pct | character |
| teams_home_team_id | integer |
| teams_home_team_name | character |
| teams_home_team_link | character |
| venue_id | integer |
| venue_name | character |
| venue_link | character |
| content_link | character |
| is_tie | logical |
| description | character |
| teams_away_score | integer |
| teams_away_is_winner | logical |
| teams_home_score | integer |
| teams_home_is_winner | logical |
| reschedule_date | character |
| reschedule_game_date | character |
| rescheduled_from | character |
| rescheduled_from_date | character |
| resume_date | character |

| | |
|-------------------|-----------|
| resume_game_date | character |
| resumed_from | character |
| resumed_from_date | character |
| events | list |

Level IDs

The following IDs can be passed to the level_ids argument:

- 1 = MLB
- 11 = Triple-A
- 12 = Doubl-A
- 13 = Class A Advanced
- 14 = Class A
- 15 = Class A Short Season
- 5442 = Rookie Advanced
- 16 = Rookie
- 17 = Winter League

Examples

```
try(mlb_schedule(season = "2019"))
```

| |
|---------------------------------|
| mlb_schedule_event_types |
| MLB Schedule Event Types |

Description

MLB Schedule Event Types

Usage

```
mlb_schedule_event_types()
```

Value

Returns a tibble with the following columns

| | |
|--------------------------|-----------|
| col_name | types |
| schedule_event_type_code | character |
| schedule_event_type_name | character |

Examples

```
try(mlb_schedule_event_types())
```

| | |
|-------------------------|--|
| mlb_schedule_games_tied | Find game_pk values for professional baseball games (major and minor leagues) that are tied |
|-------------------------|--|

Description

Find game_pk values for professional baseball games (major and minor leagues) that are tied

Usage

```
mlb_schedule_games_tied(season = 2021, game_type = "S")
```

Arguments

season The season for which you want to find game_pk values for MLB games
game_type game_type to return schedule information for all tied games in a particular game_type

| game_type_id | game_type_description |
|--------------|----------------------------|
| S | Spring Training |
| R | Regular Season |
| F | Wild Card Game |
| D | Division Series |
| L | League Championship Series |
| W | World Series |
| C | Championship |
| N | Nineteenth Century Series |
| P | Playoffs |
| A | All-Star Game |
| I | Intrasquad |
| E | Exhibition |

Value

Returns a tibble that includes game_pk values and additional information for games scheduled or played

| col_name | types |
|-------------------------|-----------|
| date | character |
| total_items | integer |
| total_events | integer |
| total_games | integer |
| total_games_in_progress | integer |
| game_pk | integer |

| | |
|---------------------------------|-----------|
| link | character |
| game_type | character |
| season | character |
| game_date | character |
| official_date | character |
| game_number | integer |
| public_facing | logical |
| double_header | character |
| gameday_type | character |
| tiebreaker | character |
| calendar_event_id | character |
| season_display | character |
| day_night | character |
| scheduled_innings | integer |
| reverse_home_away_status | logical |
| inning_break_length | integer |
| games_in_series | integer |
| series_game_number | integer |
| series_description | character |
| record_source | character |
| if_necessary | character |
| if_necessary_description | character |
| status_abstract_game_state | character |
| status_coded_game_state | character |
| status_detailed_state | character |
| status_status_code | character |
| status_start_time_tbd | logical |
| status_reason | character |
| status_abstract_game_code | character |
| teams_away_split_squad | logical |
| teams_away_series_number | integer |
| teams_away_league_record_wins | integer |
| teams_away_league_record_losses | integer |
| teams_away_league_record_pct | character |
| teams_away_team_id | integer |
| teams_away_team_name | character |
| teams_away_team_link | character |
| teams_home_split_squad | logical |
| teams_home_series_number | integer |
| teams_home_league_record_wins | integer |
| teams_home_league_record_losses | integer |
| teams_home_league_record_pct | character |
| teams_home_team_id | integer |
| teams_home_team_name | character |
| teams_home_team_link | character |
| venue_id | integer |
| venue_name | character |
| venue_link | character |

| | |
|-----------------------|-----------|
| content_link | character |
| is_tie | logical |
| description | character |
| teams_away_score | integer |
| teams_away_is_winner | logical |
| teams_home_score | integer |
| teams_home_is_winner | logical |
| reschedule_date | character |
| reschedule_game_date | character |
| rescheduled_from | character |
| rescheduled_from_date | character |
| resume_date | character |
| resume_game_date | character |
| resumed_from | character |
| resumed_from_date | character |
| events | list |

Examples

```
try(mlb_schedule_games_tied(season = 2021))
```

| | |
|-------------------------|---|
| mlb_schedule_postseason | Find game_pk values for professional baseball postseason games (major and minor leagues) |
|-------------------------|---|

Description

Find game_pk values for professional baseball postseason games (major and minor leagues)

Usage

```
mlb_schedule_postseason(  
  season = 2021,  
  game_type = NULL,  
  series_number = NULL,  
  sport_id = 1,  
  team_id = NULL  
)
```

Arguments

| | |
|-----------|---|
| season | The season for which you want to find game_pk values for MLB games |
| game_type | game_type to return schedule information for all tied games in a particular game_type |

series_number The Series number to return schedule information for all tied games in a particular series number
sport_id The sport_id to return schedule information for.
team_id The team_id to return schedule information for.

| game_type_id | game_type_description |
|--------------|----------------------------|
| S | Spring Training |
| R | Regular Season |
| F | Wild Card Game |
| D | Division Series |
| L | League Championship Series |
| W | World Series |
| C | Championship |
| N | Nineteenth Century Series |
| P | Playoffs |
| A | All-Star Game |
| I | Intrasquad |
| E | Exhibition |

Value

Returns a tibble that includes game_pk values and additional information for games scheduled or played

| col_name | types |
|-------------------------|-----------|
| date | character |
| total_items | integer |
| total_events | integer |
| total_games | integer |
| total_games_in_progress | integer |
| game_pk | integer |
| link | character |
| game_type | character |
| season | character |
| game_date | character |
| official_date | character |
| is_tie | logical |
| is_featured_game | logical |
| game_number | integer |
| public_facing | logical |
| double_header | character |
| gameday_type | character |
| tiebreaker | character |
| calendar_event_id | character |
| season_display | character |
| day_night | character |
| description | character |

| | |
|---------------------------------|-----------|
| scheduled_innings | integer |
| reverse_home_away_status | logical |
| games_in_series | integer |
| series_game_number | integer |
| series_description | character |
| record_source | character |
| if_necessary | character |
| if_necessary_description | character |
| status_abstract_game_state | character |
| status_coded_game_state | character |
| status_detailed_state | character |
| status_status_code | character |
| status_start_time_tbd | logical |
| status_abstract_game_code | character |
| teams_away_score | integer |
| teams_away_is_winner | logical |
| teams_away_split_squad | logical |
| teams_away_series_number | integer |
| teams_away_league_record_wins | integer |
| teams_away_league_record_losses | integer |
| teams_away_league_record_pct | character |
| teams_away_team_id | integer |
| teams_away_team_name | character |
| teams_away_team_link | character |
| teams_home_score | integer |
| teams_home_is_winner | logical |
| teams_home_split_squad | logical |
| teams_home_series_number | integer |
| teams_home_league_record_wins | integer |
| teams_home_league_record_losses | integer |
| teams_home_league_record_pct | character |
| teams_home_team_id | integer |
| teams_home_team_name | character |
| teams_home_team_link | character |
| venue_id | integer |
| venue_name | character |
| venue_link | character |
| content_link | character |
| inning_break_length | integer |
| reschedule_date | character |
| reschedule_game_date | character |
| status_reason | character |
| rescheduled_from | character |
| rescheduled_from_date | character |
| is_default_game | logical |
| events | list |

Examples

```
try(mlb_schedule_postseason(season = 2021))
```

| |
|--|
| mlb_schedule_postseason_series |
| Find game_pk values for professional baseball postseason series games (major and minor leagues) |

Description

Find game_pk values for professional baseball postseason series games (major and minor leagues)

Usage

```
mlb_schedule_postseason_series(  
  season = 2021,  
  game_type = NULL,  
  series_number = NULL,  
  sport_id = 1,  
  team_id = NULL  
)
```

Arguments

| | |
|---------------|---|
| season | The season for which you want to find game_pk values for MLB games |
| game_type | game_type to return schedule information for all tied games in a particular game_type |
| series_number | The Series number to return schedule information for all tied games in a particular series number |
| sport_id | The sport_id to return schedule information for. |
| team_id | The team_id to return schedule information for. |

| game_type_id | game_type_description |
|--------------|----------------------------|
| S | Spring Training |
| R | Regular Season |
| F | Wild Card Game |
| D | Division Series |
| L | League Championship Series |
| W | World Series |
| C | Championship |
| N | Nineteenth Century Series |
| P | Playoffs |
| A | All-Star Game |

| | |
|---|------------|
| I | Intrasquad |
| E | Exhibition |

Value

Returns a tibble that includes game_pk values and additional information for games scheduled or played

| col_name | types |
|----------------------------|-----------|
| total_items | integer |
| total_games | integer |
| total_games_in_progress | integer |
| game_pk | integer |
| link | character |
| game_type | character |
| season | character |
| game_date | character |
| official_date | character |
| is_tie | logical |
| is_featured_game | logical |
| game_number | integer |
| public_facing | logical |
| double_header | character |
| gameday_type | character |
| tiebreaker | character |
| calendar_event_id | character |
| season_display | character |
| day_night | character |
| description | character |
| scheduled_innings | integer |
| reverse_home_away_status | logical |
| inning_break_length | integer |
| games_in_series | integer |
| series_game_number | integer |
| series_description | character |
| record_source | character |
| if_necessary | character |
| if_necessary_description | character |
| is_default_game | logical |
| status_abstract_game_state | character |
| status_coded_game_state | character |
| status_detailed_state | character |
| status_status_code | character |
| status_start_time_tbd | logical |
| status_abstract_game_code | character |
| teams_away_score | integer |
| teams_away_is_winner | logical |

| | |
|---------------------------------|-----------|
| teams_away_split_squad | logical |
| teams_away_series_number | integer |
| teams_away_league_record_wins | integer |
| teams_away_league_record_losses | integer |
| teams_away_league_record_pct | character |
| teams_away_team_id | integer |
| teams_away_team_name | character |
| teams_away_team_link | character |
| teams_home_score | integer |
| teams_home_is_winner | logical |
| teams_home_split_squad | logical |
| teams_home_series_number | integer |
| teams_home_league_record_wins | integer |
| teams_home_league_record_losses | integer |
| teams_home_league_record_pct | character |
| teams_home_team_id | integer |
| teams_home_team_name | character |
| teams_home_team_link | character |
| venue_id | integer |
| venue_name | character |
| venue_link | character |
| content_link | character |
| reschedule_date | character |
| reschedule_game_date | character |
| rescheduled_from | character |
| rescheduled_from_date | character |
| status_reason | character |
| sort_order | integer |
| series_id | character |
| series_sort_number | integer |
| series_is_default | logical |
| series_game_type | character |

Examples

```
try(mlb_schedule_postseason_series(season = 2021, sport_id = 1))
```

| | |
|-------------|-------------------------|
| mlb_seasons | Find MLB Seasons |
|-------------|-------------------------|

Description

Find MLB Seasons

Usage

```
mlb_seasons(sport_id = 1, with_game_type_dates = TRUE)
```

Arguments

- sport_id The sport_id to return season information for.
- with_game_type_dates with_game_type_dates to return season information

Value

Returns a tibble with the following columns:

| col_name | types |
|-----------------------------|-----------|
| season_id | character |
| has_wildcard | logical |
| pre_season_start_date | character |
| pre_season_end_date | character |
| season_start_date | character |
| spring_start_date | character |
| spring_end_date | character |
| regular_season_start_date | character |
| last_date1st_half | character |
| all_star_date | character |
| first_date2nd_half | character |
| regular_season_end_date | character |
| post_season_start_date | character |
| post_season_end_date | character |
| season_end_date | character |
| offseason_start_date | character |
| off_season_end_date | character |
| season_level_gameday_type | character |
| game_level_gameday_type | character |
| qualifier_plate_appearances | numeric |
| qualifier_outs_pitched | integer |

Examples

```
try(mlb_seasons(sport_id = 1))
```

| | |
|-----------------|----------------------|
| mlb_seasons_all | Find MLB Seasons all |
|-----------------|----------------------|

Description

Find MLB Seasons all

Usage

```
mlb_seasons_all(  
  sport_id = 1,  
  division_id = NULL,  
  league_id = NULL,  
  with_game_type_dates = TRUE  
)
```

Arguments

- sport_id The sport_id to return season information for.
- division_id The division_id to return season information for.
- league_id The league_id to return season information for.
- with_game_type_dates with_game_type_dates to return season information for.

Value

Returns a tibble with the following columns:

| col_name | types |
|-----------------------------|-----------|
| season_id | character |
| has_wildcard | logical |
| pre_season_start_date | character |
| season_start_date | character |
| regular_season_start_date | character |
| regular_season_end_date | character |
| season_end_date | character |
| offseason_start_date | character |
| off_season_end_date | character |
| season_level_gameday_type | character |
| game_level_gameday_type | character |
| qualifier_plate_appearances | numeric |
| qualifier_outs_pitched | integer |
| post_season_start_date | character |
| post_season_end_date | character |
| last_date1st_half | character |
| all_star_date | character |

| | |
|---------------------|-----------|
| first_date2nd_half | character |
| pre_season_end_date | character |
| spring_start_date | character |
| spring_end_date | character |

Examples

```
try(mlb_seasons_all(sport_id = 1))
```

| | |
|---------------------|----------------------------|
| mlb_situation_codes | MLB Situation Codes |
|---------------------|----------------------------|

Description

MLB Situation Codes

Usage

```
mlb_situation_codes()
```

Value

Returns a tibble with the following columns

| | |
|----------------------------|-----------|
| col_name | types |
| situation_code | character |
| sort_order | integer |
| navigation_menu | character |
| situation_code_description | character |
| team | logical |
| batting | logical |
| fielding | logical |
| pitching | logical |

Examples

```
try(mlb_situation_codes())
```

| | |
|---------|--------------------------------|
| mlb_sky | MLB Sky (Weather) Codes |
|---------|--------------------------------|

Description

MLB Sky (Weather) Codes

Usage

mlb_sky()

Value

Returns a tibble with the following columns

| | |
|-----------------|-----------|
| col_name | types |
| sky_code | character |
| sky_description | character |

Examples

try(mlb_sky())

| | |
|------------|----------------------|
| mlb_sports | MLB Sport IDs |
|------------|----------------------|

Description

MLB Sport IDs

Usage

mlb_sports(sport_id = NULL)

Arguments

sport_id The sport_id to return information for.

Value

Returns a tibble with the following columns

| | |
|--------------------|-----------|
| col_name | types |
| sport_id | integer |
| sport_code | character |
| sport_link | character |
| sport_name | character |
| sport_abbreviation | character |
| sort_order | integer |
| active_status | logical |

and the following values:

| sport_id | sport_code | sport_link | sport_name | sport_abbreviation | sort_order | active |
|----------|------------|--------------------|---------------------------------------|--------------------|------------|--------|
| 1 | mlb | /api/v1/sports/1 | Major League Baseball | MLB | 11 | TRUE |
| 11 | aaa | /api/v1/sports/11 | Triple-A | AAA | 101 | TRUE |
| 12 | aax | /api/v1/sports/12 | Double-A | AA | 201 | TRUE |
| 13 | afa | /api/v1/sports/13 | High-A | A+ | 301 | TRUE |
| 14 | afx | /api/v1/sports/14 | Low-A | A | 401 | TRUE |
| 16 | rok | /api/v1/sports/16 | Rookie | ROK | 701 | TRUE |
| 17 | win | /api/v1/sports/17 | Winter Leagues | WIN | 1301 | TRUE |
| 8 | bbl | /api/v1/sports/8 | Organized Baseball | Pros | 1401 | TRUE |
| 21 | min | /api/v1/sports/21 | Minor League Baseball | Minors | 1402 | TRUE |
| 23 | ind | /api/v1/sports/23 | Independent Leagues | IND | 2101 | TRUE |
| 51 | int | /api/v1/sports/51 | International Baseball | INT | 3501 | TRUE |
| 508 | nat | /api/v1/sports/508 | International Baseball (Collegiate) | INTC | 3502 | TRUE |
| 509 | nae | /api/v1/sports/509 | International Baseball (18 and under) | 18U | 3503 | TRUE |
| 510 | nas | /api/v1/sports/510 | International Baseball (16 and under) | 16U | 3505 | TRUE |
| 22 | bbc | /api/v1/sports/22 | College Baseball | College | 5101 | TRUE |
| 586 | hsb | /api/v1/sports/586 | High School Baseball | H.S. | 6201 | TRUE |

Examples

```
try(mlb_sports())
```

| | |
|-----------------|---------------------------|
| mlb_sports_info | MLB Sport IDs Information |
|-----------------|---------------------------|

Description

MLB Sport IDs Information

Usage

```
mlb_sports_info(sport_id = 1)
```

Arguments

sport_id The sport_id to return information for.

Value

Returns a tibble with the following columns

| | |
|--------------------|-----------|
| col_name | types |
| sport_id | integer |
| sport_code | character |
| sport_link | character |
| sport_name | character |
| sport_abbreviation | character |
| sort_order | integer |
| active_status | logical |

Examples

```
try(mlb_sports_info(sport_id = 1))
```

| | |
|--------------------|--------------------------|
| mlb_sports_players | MLB Sport Players |
|--------------------|--------------------------|

Description

MLB Sport Players

Usage

```
mlb_sports_players(sport_id = 1, season = 2021)
```

Arguments

sport_id The sport_id to return information for.
season The season to return information for.

Value

Returns a tibble with the following columns:

| col_name | types |
|-------------------------------|-----------|
| player_id | integer |
| full_name | character |
| link | character |
| first_name | character |
| last_name | character |
| primary_number | character |
| birth_date | character |
| current_age | integer |
| birth_city | character |
| birth_country | character |
| height | character |
| weight | integer |
| active | logical |
| use_name | character |
| middle_name | character |
| boxscore_name | character |
| nick_name | character |
| gender | character |
| is_player | logical |
| is_verified | logical |
| pronunciation | character |
| mlb_debut_date | character |
| name_first_last | character |
| name_slug | character |
| first_last_name | character |
| last_first_name | character |
| last_init_name | character |
| init_last_name | character |
| full_fml_name | character |
| full_lfm_name | character |
| strike_zone_top | numeric |
| strike_zone_bottom | numeric |
| birth_state_province | character |
| draft_year | integer |
| name_matrilineal | character |
| name_title | character |
| last_played_date | character |
| current_team_id | integer |
| current_team_name | character |
| current_team_link | character |
| primary_position_code | character |
| primary_position_name | character |
| primary_position_type | character |
| primary_position_abbreviation | character |

| | |
|------------------------|-----------|
| bat_side_code | character |
| bat_side_description | character |
| pitch_hand_code | character |
| pitch_hand_description | character |

Examples

```
try(mlb_sports_players(sport_id = 1, season = 2021))
```

| | |
|---------------|----------------------|
| mlb_standings | MLB Standings |
|---------------|----------------------|

Description

MLB Standings

Usage

```
mlb_standings(  
  season = NULL,  
  date = NULL,  
  standings_type = NULL,  
  league_id = NULL  
)
```

Arguments

| | |
|----------------|--|
| season | Year(s) to return to return standings information for. |
| date | Date to return to return standings information for. |
| standings_type | The standings_type(s) to return standings information for. Description of all standings_types <div><div>1. regularSeason - Regular Season Standings</div><div>2. wildCard - Wild card standings</div><div>3. divisionLeaders - Division Leader standings</div><div>4. wildCardWithLeaders - Wild card standings with Division Leaders</div><div>5. firstHalf - First half standings. Only valid for leagues with a split season (Mexican League).</div><div>6. secondHalf - Second half standings. Only valid for leagues with a split season (Mexican League).</div><div>7. springTraining - Spring Training Standings</div><div>8. postseason - Postseason Standings</div><div>9. byDivision - Standings by Division</div><div>10. byConference - Standings by Conference</div><div>11. byLeague - Standings by League</div></div> |
| league_id | The league_id(s) to return standings information for. |

Value

Returns a tibble with the following columns

| col_name | types |
|---|-----------|
| standings_type | character |
| last_updated | character |
| team_records_season | character |
| team_records_clinch_indicator | character |
| team_records_division_rank | character |
| team_records_league_rank | character |
| team_records_sport_rank | character |
| team_records_games_played | integer |
| team_records_games_back | character |
| team_records_wild_card_games_back | character |
| team_records_league_games_back | character |
| team_records_spring_league_games_back | character |
| team_records_sport_games_back | character |
| team_records_division_games_back | character |
| team_records_conference_games_back | character |
| team_records_last_updated | character |
| team_records_runs_allowed | integer |
| team_records_runs_scored | integer |
| team_records_division_champ | logical |
| team_records_division_leader | logical |
| team_records_has_wildcard | logical |
| team_records_clinched | logical |
| team_records_elimination_number | character |
| team_records_wild_card_elimination_number | character |
| team_records_magic_number | character |
| team_records_wins | integer |
| team_records_losses | integer |
| team_records_run_differential | integer |
| team_records_winning_percentage | character |
| team_records_wild_card_rank | character |
| team_records_wild_card_leader | logical |
| team_records_team_id | integer |
| team_records_team_name | character |
| team_records_team_link | character |
| team_records_streak_streak_type | character |
| team_records_streak_streak_number | integer |
| team_records_streak_streak_code | character |
| team_records_league_record_wins | integer |
| team_records_league_record_losses | integer |
| team_records_league_record_ties | integer |
| team_records_league_record_pct | character |
| team_records_records_split_records | list |
| team_records_records_division_records | list |
| team_records_records_overall_records | list |

| | |
|---------------------------------------|-----------|
| team_records_records_league_records | list |
| team_records_records_expected_records | list |
| league_id | integer |
| league_link | character |
| division_id | integer |
| division_link | character |
| sport_id | integer |
| sport_link | character |

Examples

```
try(mlb_standings(season = 2021, league_id = 103))
```

| | |
|---------------------|----------------------------|
| mlb_standings_types | MLB Standings Types |
|---------------------|----------------------------|

Description

MLB Standings Types

Usage

```
mlb_standings_types()
```

Value

Returns a tibble with the following columns

| | |
|----------------------------|-----------|
| col_name | types |
| standings_type_name | character |
| standings_type_description | character |

Examples

```
try(mlb_standings_types())
```

| | |
|-----------|-----------|
| mlb_stats | MLB Stats |
|-----------|-----------|

Description

MLB Stats

Usage

```
mlb_stats(  
  stat_type = NULL,  
  player_pool = NULL,  
  game_type = NULL,  
  team_id = NULL,  
  position = NULL,  
  stat_group = NULL,  
  season = NULL,  
  league_id = NULL,  
  sport_ids = NULL,  
  sort_stat = NULL,  
  order = NULL,  
  limit = 1000,  
  offset = NULL  
)
```

Arguments

| | |
|-------------|--|
| stat_type | Stat type to return statistics for. |
| player_pool | There are 4 different types of player pools to return statistics for a particular player pool across a sport. Acceptable values include: All, Qualified, Rookies, or Qualified_rookies |
| game_type | Game type to return information for a particular statistic in a particular game type. |
| team_id | Team ID to return information and ranking for a particular statistic for a particular team. |
| position | Position to return statistics for a given position. Default to "Qualified" player pool Acceptable values include: <ul style="list-style-type: none">• P• C• 1B• 2B• 3B• SS• LF |

| | |
|------------|---|
| | <ul style="list-style-type: none">• CF• RF• DH• PH• PR• BR• OF• IF• SP• RP• CP• UT• UI• UO• RHP• LHP• RHS• LHS• LHR• RHR• B• X |
| stat_group | Stat group to return information and ranking for a particular statistic in a particular group. |
| season | Year to return information and ranking for a particular statistic in a given year. |
| league_id | League ID to return statistics for a given league. Default to "Qualified" player pool. |
| sport_ids | The sport_id(s) to return information and ranking information for. |
| sort_stat | Sort return based on stat. |
| order | Order return based on either desc or asc. |
| limit | A limit to limit return to a particular number of records. |
| offset | An offset to returns i+1 as the first record in the set of players. |

Value

Returns a tibble with the following columns

| | |
|--------------|-----------|
| col_name | types |
| total_splits | integer |
| season | character |
| num_teams | integer |
| rank | integer |
| games_played | integer |

| | |
|-------------------------|-----------|
| ground_outs | integer |
| air_outs | integer |
| runs | integer |
| doubles | integer |
| triples | integer |
| home_runs | integer |
| strike_outs | integer |
| base_on_balls | integer |
| intentional_walks | integer |
| hits | integer |
| hit_by_pitch | integer |
| avg | character |
| at_bats | integer |
| obp | character |
| slg | character |
| ops | character |
| caught_stealing | integer |
| stolen_bases | integer |
| stolen_base_percentage | character |
| ground_into_double_play | integer |
| number_of_pitches | integer |
| plate_appearances | integer |
| total_bases | integer |
| rbi | integer |
| left_on_base | integer |
| sac_bunts | integer |
| sac_flies | integer |
| babip | character |
| ground_outs_to_airouts | character |
| catchers_interference | integer |
| at_bats_per_home_run | character |
| team_id | integer |
| team_name | character |
| team_link | character |
| player_id | integer |
| player_full_name | character |
| player_link | character |
| player_first_name | character |
| player_last_name | character |
| league_id | integer |
| league_name | character |
| league_link | character |
| sport_id | integer |
| sport_link | character |
| sport_abbreviation | character |
| position_code | character |
| position_name | character |
| position_type | character |

| | |
|-------------------------|-----------|
| position_abbreviation | character |
| splits_tied_with_offset | list |
| splits_tied_with_limit | list |
| player_pool | character |
| type_display_name | character |
| group_display_name | character |

Examples

```
try(mlb_stats(stat_type = 'season', stat_group = 'hitting', season = 2021))
```

| | |
|-------------------|-------------------|
| mlb_stats_leaders | MLB Stats Leaders |
|-------------------|-------------------|

Description

MLB Stats Leaders

Usage

```
mlb_stats_leaders(  
  leader_categories = NULL,  
  player_pool = NULL,  
  leader_game_types = NULL,  
  sit_codes = NULL,  
  position = NULL,  
  stat_group = NULL,  
  season = NULL,  
  league_id = NULL,  
  sport_id = NULL,  
  start_date = NULL,  
  end_date = NULL,  
  stat_type = NULL,  
  limit = 1000  
)
```

Arguments

| | |
|-------------------|--|
| leader_categories | League leader category to return information and ranking for a particular statistic. |
| player_pool | There are 4 different types of player pools to return statistics for a particular player pool across a sport. Acceptable values include: All, Qualified, Rookies, or Qualified_rookies |

| | |
|-------------------|---|
| leader_game_types | Game type to return information and ranking for a particular statistic in a particular game type. |
| sit_codes | Situation code to return information and ranking for a particular statistic in a particular game type. |
| position | Position to return statistics for a given position. Default to "Qualified" player pool Acceptable values include: <ul style="list-style-type: none"> • P • C • 1B • 2B • 3B • SS • LF • CF • RF • DH • PH • PR • BR • OF • IF • SP • RP • CP • UT • UI • UO • RHP • LHP • RHS • LHS • LHR • RHR • B • X |
| stat_group | Stat group to return information and ranking for a particular statistic in a particular group. |
| season | Year to return information and ranking for a particular statistic in a given year. |
| league_id | League ID to return statistics for a given league. Default to "Qualified" player pool. |
| sport_id | The sport_id to return information and ranking information for. |

| | |
|------------|---|
| start_date | Start date to return information and ranking for a particular statistic for a particular date range. Format: MM/DD/YYYY <i>start_date must be coupled with end_date and byDateRange stat_type</i> |
| end_date | End date to return information and ranking for a particular statistic for a particular date range. Format: MM/DD/YYYY <i>end_date must be coupled with start_date and byDateRange stat_type</i> |
| stat_type | The stat_type to return information and ranking for a particular statistic for a particular stat type. |
| limit | A limit to limit return to a particular number of records. |

Value

Returns a tibble with the following columns

| col_name | types |
|-----------------------|-----------|
| leader_category | character |
| rank | integer |
| value | character |
| season | character |
| num_teams | integer |
| team_id | integer |
| team_name | character |
| team_link | character |
| league_id | integer |
| league_name | character |
| league_link | character |
| person_id | integer |
| person_full_name | character |
| person_link | character |
| person_first_name | character |
| person_last_name | character |
| sport_id | integer |
| sport_link | character |
| sport_abbreviation | character |
| stat_group | character |
| total_splits | integer |
| game_type_id | character |
| game_type_description | character |

Examples

```
try(mlb_stats_leaders(leader_categories='homeRuns',sport_id=1, season = 2021))
```

| | |
|-----------------|-----------------|
| mlb_stat_groups | MLB Stat Groups |
|-----------------|-----------------|

Description

MLB Stat Groups

Usage

mlb_stat_groups()

Value

Returns a tibble with the following columns

| | |
|-----------------|-----------|
| col_name | types |
| stat_group_name | character |

Examples

try(mlb_stat_groups())

| | |
|----------------|----------------|
| mlb_stat_types | MLB Stat Types |
|----------------|----------------|

Description

MLB Stat Types

Usage

mlb_stat_types()

Value

Returns a tibble with the following columns

| | |
|----------------|-----------|
| col_name | types |
| stat_type_name | character |

Examples

try(mlb_stat_types())

| | |
|-----------|------------------|
| mlb_teams | MLB Teams |
|-----------|------------------|

Description

MLB Teams

Usage

```
mlb_teams(  
  season = NULL,  
  active_status = NULL,  
  all_star_statuses = NULL,  
  league_ids = NULL,  
  sport_ids = NULL,  
  game_type = NULL  
)
```

Arguments

- season Year to return to return team information for.
- active_status The active statuses to populate teams for a given season.
- all_star_statuses The all-star statuses to populate teams for a given season.
- league_ids The league_id(s) to return team information for.
- sport_ids The sport_id(s) to return team information for.
- game_type The game_type to return team information for.

Value

Returns a tibble with the following columns

| col_name | types |
|--------------------|-----------|
| team_id | integer |
| team_full_name | character |
| link | character |
| season | integer |
| team_code | character |
| file_code | character |
| team_abbreviation | character |
| team_name | character |
| location_name | character |
| first_year_of_play | character |
| short_name | character |
| franchise_name | character |

| | |
|----------------------------|-----------|
| club_name | character |
| all_star_status | character |
| active | logical |
| venue_id | integer |
| venue_name | character |
| venue_link | character |
| spring_venue_id | integer |
| spring_venue_link | character |
| league_id | integer |
| league_name | character |
| league_link | character |
| division_id | integer |
| division_name | character |
| division_link | character |
| sport_id | integer |
| sport_link | character |
| sport_name | character |
| spring_league_id | integer |
| spring_league_name | character |
| spring_league_link | character |
| spring_league_abbreviation | character |

Examples

```
try(mlb_teams(season = 2021, sport_ids = c(1)))
```

| | |
|-----------------|-----------------|
| mlb_teams_stats | MLB Teams Stats |
|-----------------|-----------------|

Description

MLB Teams Stats

Usage

```
mlb_teams_stats(  
  stat_type = NULL,  
  game_type = NULL,  
  stat_group = NULL,  
  season = NULL,  
  sport_ids = NULL,  
  sort_stat = NULL,  
  order = NULL  
)
```

Arguments

| | |
|------------|--|
| stat_type | Stat type to return statistics for. |
| game_type | Game type to return information for a particular statistic in a particular game type. |
| stat_group | Stat group to return information and ranking for a particular statistic in a particular group. |
| season | Year to return information and ranking for a particular statistic in a given year. |
| sport_ids | The sport_id(s) to return information and ranking information for. |
| sort_stat | Sort return based on stat. |
| order | Order return based on either desc or asc. |

Value

Returns a tibble with the following columns

| | |
|-------------------------|-----------|
| col_name | types |
| total_splits | integer |
| season | character |
| rank | integer |
| games_played | integer |
| ground_outs | integer |
| air_outs | integer |
| runs | integer |
| doubles | integer |
| triples | integer |
| home_runs | integer |
| strike_outs | integer |
| base_on_balls | integer |
| intentional_walks | integer |
| hits | integer |
| hit_by_pitch | integer |
| avg | character |
| at_bats | integer |
| obp | character |
| slg | character |
| ops | character |
| caught_stealing | integer |
| stolen_bases | integer |
| stolen_base_percentage | character |
| ground_into_double_play | integer |
| number_of_pitches | integer |
| plate_appearances | integer |
| total_bases | integer |
| rbi | integer |
| left_on_base | integer |
| sac_bunts | integer |

| | |
|-------------------------|-----------|
| sac_flies | integer |
| babip | character |
| ground_outs_to_airouts | character |
| catchers_interference | integer |
| at_bats_per_home_run | character |
| team_id | integer |
| team_name | character |
| team_link | character |
| splits_tied_with_offset | list |
| splits_tied_with_limit | list |
| type_display_name | character |
| group_display_name | character |

Examples

```
try(mlb_teams_stats(stat_type = 'season', stat_group = 'hitting', season = 2021))
```

| |
|--------------------------------|
| mlb_teams_stats_leaders |
| MLB Teams Stats Leaders |

Description

MLB Teams Stats Leaders

Usage

```
mlb_teams_stats_leaders(  
  leader_categories = NULL,  
  leader_game_types = NULL,  
  sit_codes = NULL,  
  stat_group = NULL,  
  season = NULL,  
  league_id = NULL,  
  sport_id = NULL,  
  start_date = NULL,  
  end_date = NULL,  
  stat_type = NULL,  
  limit = 1000  
)
```

Arguments

leader_categories
League leader category to return information and ranking for a particular statistic.

| | |
|-------------------|---|
| leader_game_types | Game type to return information and ranking for a particular statistic in a particular game type. |
| sit_codes | Situation code to return information and ranking for a particular statistic in a particular game type. |
| stat_group | Stat group to return information and ranking for a particular statistic in a particular group. |
| season | Year to return information and ranking for a particular statistic in a given year. |
| league_id | League ID to return statistics for a given league. Default to "Qualified" player pool. |
| sport_id | The sport_id to return information and ranking information for. |
| start_date | Start date to return information and ranking for a particular statistic for a particular date range. Format: MM/DD/YYYY <i>start_date must be coupled with end_date and byDateRange stat_type</i> |
| end_date | End date to return information and ranking for a particular statistic for a particular date range. Format: MM/DD/YYYY <i>end_date must be coupled with start_date and byDateRange stat_type</i> |
| stat_type | The stat_type to return information and ranking for a particular statistic for a particular stat type. |
| limit | A limit to limit return to a particular number of records. |

Value

Returns a tibble with the following columns

| col_name | types |
|--------------------|-----------|
| leader_category | character |
| rank | integer |
| value | character |
| season | character |
| num_teams | integer |
| team_id | integer |
| team_name | character |
| team_link | character |
| league_id | integer |
| league_name | character |
| league_link | character |
| person_id | integer |
| person_full_name | character |
| person_link | character |
| person_first_name | character |
| person_last_name | character |
| sport_id | integer |
| sport_link | character |
| sport_abbreviation | character |
| stat_group | character |

| | |
|-----------------------|-----------|
| total_splits | integer |
| game_type_id | character |
| game_type_description | character |

Examples

```
try(mlb_teams_stats_leaders(leader_categories='homeRuns',sport_id=1, season = 2021))
```

| | |
|---------------------|----------------------------|
| mlb_team_affiliates | MLB Team Affiliates |
|---------------------|----------------------------|

Description

MLB Team Affiliates

Usage

```
mlb_team_affiliates(team_ids = NULL, sport_ids = NULL, season = NULL)
```

Arguments

- team_ids The team_id(s) to return affiliates data for.
- sport_ids The sport_id to return team affiliates information for.
- season The season to return team affiliates data for the particular season.

Value

Returns a tibble with the following columns

| | |
|--------------------|-----------|
| col_name | types |
| all_star_status | character |
| team_id | integer |
| team_full_name | character |
| link | character |
| season | integer |
| team_code | character |
| file_code | character |
| team_abbreviation | character |
| team_name | character |
| location_name | character |
| first_year_of_play | character |
| short_name | character |
| franchise_name | character |
| club_name | character |
| active | logical |

| | |
|----------------------------|-----------|
| parent_org_name | character |
| parent_org_id | integer |
| spring_league_id | integer |
| spring_league_name | character |
| spring_league_link | character |
| spring_league_abbreviation | character |
| venue_id | integer |
| venue_name | character |
| venue_link | character |
| spring_venue_id | integer |
| spring_venue_link | character |
| league_id | integer |
| league_name | character |
| league_link | character |
| division_id | integer |
| division_name | character |
| division_link | character |
| sport_id | integer |
| sport_link | character |
| sport_name | character |

Examples

```
try(mlb_team_affiliates(team_ids = 147))
```

| | |
|-----------------|------------------------|
| mlb_team_alumni | MLB Team Alumni |
|-----------------|------------------------|

Description

MLB Team Alumni

Usage

```
mlb_team_alumni(team_id = NULL, stat_group = NULL, season = NULL)
```

Arguments

| | |
|------------|--|
| team_id | Team ID to return information and ranking for a particular statistic for a particular team. |
| stat_group | Stat group to return information and ranking for a particular statistic in a particular group. |
| season | Year to return information and ranking for a particular statistic in a given year. |

Value

Returns a tibble with the following columns

| | |
|-------------------------------|-----------|
| col_name | types |
| player_id | integer |
| player_full_name | character |
| link | character |
| first_name | character |
| last_name | character |
| primary_number | character |
| birth_date | character |
| current_age | integer |
| birth_city | character |
| birth_country | character |
| height | character |
| weight | integer |
| active | logical |
| use_name | character |
| middle_name | character |
| boxscore_name | character |
| nick_name | character |
| gender | character |
| name_matrilineal | character |
| is_player | logical |
| is_verified | logical |
| pronunciation | character |
| mlb_debut_date | character |
| name_first_last | character |
| name_slug | character |
| first_last_name | character |
| last_first_name | character |
| last_init_name | character |
| init_last_name | character |
| full_fml_name | character |
| full_lfm_name | character |
| strike_zone_top | numeric |
| strike_zone_bottom | numeric |
| alumni_last_season | character |
| birth_state_province | character |
| draft_year | integer |
| primary_position_code | character |
| primary_position_name | character |
| primary_position_type | character |
| primary_position_abbreviation | character |
| bat_side_code | character |
| bat_side_description | character |
| pitch_hand_code | character |
| pitch_hand_description | character |

Examples

```
try(mlb_team_alumni(team_id = 137, stat_group = 'hitting', season = 2021))
```

| | |
|------------------|-------------------------|
| mlb_team_coaches | MLB Team Coaches |
|------------------|-------------------------|

Description

MLB Team Coaches

Usage

```
mlb_team_coaches(team_id = NULL, date = NULL, season = NULL)
```

Arguments

- team_id Team ID to return team coach information for.
- date Date to return team coach information for.
- season Year to return team coach information for.

Value

Returns a tibble with the following columns

| | |
|------------------|-----------|
| col_name | types |
| jersey_number | character |
| job | character |
| job_id | character |
| title | character |
| person_id | integer |
| person_full_name | character |
| person_link | character |

Examples

```
try(mlb_team_coaches(team_id = 137, season = 2021))
```

| | |
|------------------|--------------------------|
| mlb_team_history | MLB Teams History |
|------------------|--------------------------|

Description**MLB Teams History****Usage**

```
mlb_team_history(team_ids = NULL, start_season = NULL, end_season = NULL)
```

Arguments

| | |
|--------------|---|
| team_ids | The team_id(s) to return historical data for. |
| start_season | The start_season to return historical data for from the given year to present. |
| end_season | The end_season to return historical data for from the the creation to the given year. |

Value

Returns a tibble with the following columns

| col_name | types |
|--------------------|-----------|
| all_star_status | character |
| team_id | integer |
| team_full_name | character |
| link | character |
| season | integer |
| team_code | character |
| file_code | character |
| team_abbreviation | character |
| team_name | character |
| location_name | character |
| first_year_of_play | character |
| short_name | character |
| franchise_name | character |
| club_name | character |
| active | logical |
| venue_id | integer |
| venue_name | character |
| venue_link | character |
| spring_venue_id | integer |
| spring_venue_link | character |
| league_id | integer |
| league_name | character |
| league_link | character |

| | |
|------------|-----------|
| sport_id | integer |
| sport_link | character |
| sport_name | character |

Examples

```
try(mlb_team_history(team_ids = 147))
```

| | |
|---------------|----------------------|
| mlb_team_info | MLB Team Info |
|---------------|----------------------|

Description

MLB Team Info

Usage

```
mlb_team_info(team_id = NULL, season = NULL, sport_id = NULL)
```

Arguments

| | |
|----------|---|
| team_id | The team_id to return team data for. |
| season | The season to return team data for the given year. |
| sport_id | The sport_id to return a directory of team data for a particular club in a sport. |

Value

Returns a tibble with the following columns

| | |
|--------------------|-----------|
| col_name | types |
| all_star_status | character |
| team_id | integer |
| team_full_name | character |
| link | character |
| season | integer |
| team_code | character |
| file_code | character |
| team_abbreviation | character |
| team_name | character |
| location_name | character |
| first_year_of_play | character |
| short_name | character |
| franchise_name | character |
| club_name | character |
| active | logical |

| | |
|-------------------|-----------|
| venue_id | integer |
| venue_name | character |
| venue_link | character |
| spring_venue_id | integer |
| spring_venue_link | character |
| league_id | integer |
| league_name | character |
| league_link | character |
| sport_id | integer |
| sport_link | character |
| sport_name | character |

Examples

```
try(mlb_team_info(team_id = 147))
```

| | |
|------------------|------------------|
| mlb_team_leaders | MLB Team Leaders |
|------------------|------------------|

Description

MLB Team Leaders

Usage

```
mlb_team_leaders(  
  team_id = NULL,  
  leader_categories = NULL,  
  leader_game_types = NULL,  
  season = NULL,  
  limit = 1000  
)
```

Arguments

- team_id Team ID to return team leader information for.
- leader_categories Team leader category to return information and ranking for a particular statistic.
- leader_game_types Game type to return information and ranking for a particular statistic in a particular game type.
- season Season to return team leader information for.
- limit A limit to limit return to a particular number of records.

Value

Returns a tibble with the following columns

| col_name | types |
|-----------------------|-----------|
| leader_category | character |
| rank | integer |
| value | character |
| season | character |
| team_id | integer |
| team_name | character |
| team_link | character |
| league_id | integer |
| league_name | character |
| league_link | character |
| person_id | integer |
| person_full_name | character |
| person_link | character |
| person_first_name | character |
| person_last_name | character |
| sport_id | integer |
| sport_link | character |
| sport_abbreviation | character |
| stat_group | character |
| total_splits | integer |
| game_type_id | character |
| game_type_description | character |

Examples

```
try(mlb_team_leaders(team_id = 137, leader_categories = "homeRuns", season = 2021))
```

| | |
|--------------------|---------------------------|
| mlb_team_personnel | MLB Team Personnel |
|--------------------|---------------------------|

Description

MLB Team Personnel

Usage

```
mlb_team_personnel(team_id = NULL, date = NULL)
```

Arguments

| | |
|---------|---|
| team_id | Team ID to return team coach information for. |
| date | Date to return team coach information for. |

Value

Returns a tibble with the following columns

| | |
|------------------|-----------|
| col_name | types |
| jersey_number | character |
| job | character |
| job_id | character |
| title | character |
| person_id | integer |
| person_full_name | character |
| person_link | character |

Examples

```
try(mlb_team_personnel(team_id = 137, date = "08/28/2016"))
```

| | |
|----------------|----------------------------------|
| mlb_team_stats | MLB Team Individual Stats |
|----------------|----------------------------------|

Description

MLB Team Individual Stats

Usage

```
mlb_team_stats(  
  team_id = NULL,  
  stat_type = NULL,  
  game_type = NULL,  
  stat_group = NULL,  
  season = NULL,  
  sport_ids = NULL  
)
```

Arguments

| | |
|------------|--|
| team_id | Team ID to return information and ranking for a particular statistic for a particular team. |
| stat_type | Stat type to return statistics for. |
| game_type | Game type to return information for a particular statistic in a particular game type. |
| stat_group | Stat group to return information and ranking for a particular statistic in a particular group. |
| season | Year to return information and ranking for a particular statistic in a given year. |
| sport_ids | The sport_id(s) to return information and ranking information for. |

Value

Returns a tibble with the following columns

| col_name | types |
|-------------------------|-----------|
| season | character |
| games_played | integer |
| ground_outs | integer |
| air_outs | integer |
| runs | integer |
| doubles | integer |
| triples | integer |
| home_runs | integer |
| strike_outs | integer |
| base_on_balls | integer |
| intentional_walks | integer |
| hits | integer |
| hit_by_pitch | integer |
| avg | character |
| at_bats | integer |
| obp | character |
| slg | character |
| ops | character |
| caught_stealing | integer |
| stolen_bases | integer |
| stolen_base_percentage | character |
| ground_into_double_play | integer |
| number_of_pitches | integer |
| plate_appearances | integer |
| total_bases | integer |
| rbi | integer |
| left_on_base | integer |
| sac_bunts | integer |
| sac_flies | integer |
| babip | character |
| ground_outs_to_airouts | character |
| catchers_interference | integer |
| at_bats_per_home_run | character |
| team_id | integer |
| team_name | character |
| team_link | character |
| type_display_name | character |
| group_display_name | character |

Examples

```
try(mlb_team_stats(team_id = 137, stat_type = 'season', stat_group = 'hitting', season = 2021))
```

| | |
|------------|------------------------|
| mlb_venues | Find MLB Venues |
|------------|------------------------|

Description

Find MLB Venues

Usage

```
mlb_venues(venue_ids = NULL, sport_ids = NULL, season = NULL)
```

Arguments

- venue_ids Venue directorial information based venue_id.
- sport_ids The sport_id(s) for which to return venue directorial information.
- season Year for which to return venue directorial information for a given season.

Value

Returns a tibble with the following columns:

| col_name | types |
|------------|-----------|
| venue_id | integer |
| venue_name | character |
| venue_link | character |
| active | logical |
| season | logical |

Examples

```
try(mlb_venues())
try(mlb_venues(venue_ids = 4781))
try(mlb_venues(sport_ids = 1))
```

| | |
|--------------------------|---------------------------------|
| mlb_wind_direction_codes | MLB Wind Direction Codes |
|--------------------------|---------------------------------|

Description

MLB Wind Direction Codes

Usage

`mlb_wind_direction_codes()`

Value

Returns a tibble with the following columns

| col_name | types |
|----------------------------|-----------|
| wind_direction_code | character |
| wind_direction_description | character |

Examples

`try(mlb_wind_direction_codes())`

| |
|-------------------------------------|
| <code>most_recent_mlb_season</code> |
| Most Recent MLB Season |

Description

Most Recent MLB Season

Usage

`most_recent_mlb_season()`

Value

An integer indicating the year of the most recent season of Major League Baseball

| |
|---|
| <code>most_recent_ncaa_baseball_season</code> |
| Most Recent NCAA Baseball Season |

Description

Most Recent NCAA Baseball Season

Usage

`most_recent_ncaa_baseball_season()`

Value

An integer indicating the year of the most recent season of NCAA baseball

Description

`ncaa_team_player_stats()`: This function allows the user to obtain batting or pitching statistics for any school affiliated with the NCAA at the division I, II, or III levels. The function acquires data from the NCAA's website (stats.ncaa.org) and returns a tibble.

`ncaa_pbp()`: Get Play-By-Play Data for NCAA Baseball Games.

`ncaa_roster()`: Get NCAA Baseball Rosters.

`ncaa_game_logs()`: Get NCAA Baseball Game Logs.

`ncaa_lineups()`: Get NCAA Baseball Game Lineups.

`ncaa_park_factor()`: Get Park Effects for NCAA Baseball Teams.

`ncaa_schedule_info()`: Get Schedule and Results for NCAA Baseball Teams.

`ncaa_school_id_lu()`: Lookup NCAA School IDs (Division I, II, and III)

`ncaa_teams()`: Lookup NCAA Teams by Division (I, II, and III) and Season

Details**Scrape NCAA baseball data (Division I, II, and III):**

```
ncaa_team_player_stats(team_id = 255, year = 2013, type = "batting")
```

Get Play-By-Play Data for NCAA Baseball Games:

```
x <- ncaa_schedule_info(736, 2021)$game_info_url[2]
ncaa_pbp(game_info_url = x)
```

Get NCAA Baseball Rosters:

```
ncaa_roster(team_id = 104, year = 2021)
```

Get NCAA Baseball Game Logs:

```
ncaa_game_logs(player_id = 2113782, year = 2021, type = "pitching", span = "game")
```

Get NCAA Baseball Game Lineups:

```
ncaa_lineups(game_info_url="https://stats.ncaa.org/game/index/4587474?org_id=528", year=2018)
```

Get Park Effects for NCAA Baseball Teams:

```
ncaa_park_factor(team_id = 736, years = c(2017:2019), type = "conference")
```

Get Schedule and Results for NCAA Baseball Teams:

```
ncaa_schedule_info(team_id = 736, year = 2021)
```

Lookup NCAA School IDs (Division I, II, and III):

```
ncaa_school_id_lu("VAN")
```

Scrape NCAA baseball Teams (Division I, II, and III):

```
ncaa_teams(year = 2023, division = 1)
```

| | |
|----------------------|---|
| ncaa_baseball_roster | (legacy) Get NCAA Baseball Rosters |
|----------------------|---|

Description

(legacy) Get NCAA Baseball Rosters

(legacy) Get NCAA Baseball Rosters

Usage

```
ncaa_baseball_roster(team_id = NULL, year, ...)  
  
get_ncaa_baseball_roster(team_id = NULL, year, ...)
```

Arguments

- team_id NCAA id for a school
- year The year of interest
- ... Additional arguments passed to an underlying function like httr.

Value

A data frame containing roster information, including IDs and urls for each player (if available)
A data frame containing roster information, including IDs and urls for each player (if available)

| | |
|----------------|------------------------------------|
| ncaa_game_logs | Get NCAA Baseball Game Logs |
|----------------|------------------------------------|

Description

Get NCAA Baseball Game Logs

Usage

```
ncaa_game_logs(player_id, year, type = "batting", span = "game", ...)
```

Arguments

| | |
|-----------|---|
| player_id | A player's unique id. Can be found using the get_ncaa_baseball_roster function. |
| year | The year of interest. |
| type | The kind of statistics you want to return. Current options are 'batting' or 'pitching'. |
| span | The span of time; can either be 'game' for game logs in a season, or 'career' which returns seasonal stats for a player's career. |
| ... | Additional arguments passed to an underlying function like httr. |

Value

A data frame containing player and school information as well as game by game statistics

| col_name | types |
|---------------|-----------|
| player_id | numeric |
| player_name | character |
| Date | character |
| Opponent | character |
| Result | character |
| App | numeric |
| G | numeric |
| GS | numeric |
| IP | numeric |
| CG | numeric |
| H | numeric |
| R | numeric |
| ER | numeric |
| BB | numeric |
| SO | numeric |
| SHO | numeric |
| BF | numeric |
| P-OAB | numeric |
| 2B-A | numeric |
| 3B-A | numeric |
| Bk | numeric |
| HR-A | numeric |
| WP | numeric |
| HB | numeric |
| IBB | numeric |
| Inh Run | numeric |
| Inh Run Score | numeric |
| SHA | numeric |
| SFA | numeric |
| Pitches | numeric |
| GO | numeric |
| FO | numeric |
| W | numeric |

| | |
|-------------|-----------|
| L | numeric |
| SV | numeric |
| OrdAppeared | numeric |
| KL | numeric |
| pickoffs | character |

Examples

```
try(ncaa_game_logs(player_id = 2649785, year = 2023, type = "pitching", span = "game"))
try(ncaa_game_logs(player_id = 2477974, year = 2023, type = "pitching", span = "career"))
try(ncaa_game_logs(player_id = 2680961, year = 2023, type = "batting", span = "game"))
try(ncaa_game_logs(player_id = 2486588, year = 2023, type = "batting", span = "career"))
```

| | |
|--------------|---|
| ncaa_lineups | Retrieve lineups for a given NCAA game via its game_info_url |
|--------------|---|

Description

Retrieve lineups for a given NCAA game via its game_info_url

Usage

```
ncaa_lineups(game_info_url = NULL, ...)
```

Arguments

- game_info_url The unique game info url
- ... Additional arguments passed to an underlying function like httr.

Value

Returns a tibble of each school’s starting lineup and starting pitcher

| | |
|---------------|-----------|
| col_name | types |
| year | numeric |
| player_name | character |
| position | character |
| slug | character |
| batting_order | character |
| team_name | character |
| sub | numeric |
| attendance | character |
| game_date | character |
| location | character |
| player_id | integer |

| | |
|---------------|-----------|
| team_id | numeric |
| team_url | character |
| conference_id | numeric |
| conference | character |
| division | numeric |
| season_id | numeric |

Examples

```
try(ncaa_lineups(game_info_url="https://stats.ncaa.org/contests/2167178/box_score"))
try(ncaa_lineups(game_info_url="https://stats.ncaa.org/game/index/4587474?org_id=528"))
```

| | |
|------------------|---|
| ncaa_park_factor | Get Park Effects for NCAA Baseball Teams |
|------------------|---|

Description

Get Park Effects for NCAA Baseball Teams

Usage

```
ncaa_park_factor(team_id, years, type = "conference", ...)
```

Arguments

| | |
|---------|---|
| team_id | The team's unique NCAA id. |
| years | The season or seasons (i.e. use 2016 for the 2015-2016 season, etc., limited to just 2013-2023 seasons). |
| type | default is conference. the conference parameter adjusts for the conference the school plays in, the division parameter calculates based on the division the school plays in 1,2,or 3. Defaults to 'conference'. |
| ... | Additional arguments passed to an underlying function like httr. |

Details

```
try(ncaa_park_factor(team_id = 736, years = c(2018:2019), type = "conference"))
```

Value

A data frame with the following fields: school, home_game, away_game, runs_scored_home, runs_allowed_home, run_scored_away, runs_allowed_away, base_pf (base park factor), home_game_adj (an adjustment for the percentage of home games played) final_pf (park factor after adjustments)

| | |
|----------|-----------|
| col_name | types |
| school | character |

| | |
|-------------------|---------|
| home_game | numeric |
| away_game | numeric |
| runs_scored_home | numeric |
| runs_allowed_home | numeric |
| runs_scored_away | numeric |
| runs_allowed_away | numeric |
| base_pf | numeric |
| home_game_adj | numeric |
| final_pf | numeric |

| | |
|----------|--|
| ncaa_pbp | Get Play-By-Play Data for NCAA Baseball Games |
|----------|--|

Description

Get Play-By-Play Data for NCAA Baseball Games

Usage

```
ncaa_pbp(  
  game_info_url = NA_character_,  
  game_pbp_url = NA_character_,  
  raw_html_to_disk = FALSE,  
  raw_html_path = "/",  
  read_from_file = FALSE,  
  file = NA_character_,  
  ...  
)
```

Arguments

| | |
|------------------|---|
| game_info_url | The url for the game’s boxscore data. This can be found using the <code>ncaa_schedule_info</code> function. |
| game_pbp_url | The url for the game’s play-by-play data. This can be found using the <code>ncaa_schedule_info</code> function. |
| raw_html_to_disk | Write raw html to disk (saves as {game_pbp_id}.html in raw_html_path directory) |
| raw_html_path | Directory path to write raw html |
| read_from_file | Read from raw html on disk |
| file | File with full path to read raw html |
| ... | Additional arguments passed to an underlying function like <code>httr</code> . |

Value

A data frame with play-by-play data for an individual game.

| col_name | types |
|----------------|-----------|
| game_date | character |
| location | character |
| attendance | logical |
| inning | character |
| inning_top_bot | character |
| score | character |
| batting | character |
| fielding | character |
| description | character |
| game_pbp_url | character |
| game_pbp_id | integer |

Examples

```
try(ncaa_pbp(game_info_url = "https://stats.ncaa.org/contests/2167178/box_score"))
```

| | |
|-------------|----------------------------------|
| ncaa_roster | Get NCAA Baseball Rosters |
|-------------|----------------------------------|

Description

Get NCAA Baseball Rosters

Usage

```
ncaa_roster(team_id = NULL, year, ...)
```

Arguments

| | |
|---------|--|
| team_id | NCAA id for a school |
| year | The year of interest |
| ... | Additional arguments passed to an underlying function like httr. |

Value

A data frame containing roster information, including IDs and urls for each player (if available)

| col_name | types |
|-------------|-----------|
| player_name | character |
| class | character |

| | |
|---------------|-----------|
| player_id | character |
| season | numeric |
| number | character |
| position | character |
| player_url | character |
| team_name | character |
| conference | character |
| team_id | numeric |
| division | numeric |
| conference_id | numeric |

Examples

```
try(ncaa_roster(team_id = 104, year = 2023))
```

| | |
|--------------------|---|
| ncaa_schedule_info | Get Schedule and Results for NCAA Baseball Teams |
|--------------------|---|

Description

Get Schedule and Results for NCAA Baseball Teams

Usage

```
ncaa_schedule_info(team_id = NULL, year = NULL, pbp_links = FALSE, ...)
```

Arguments

| | |
|-----------|---|
| team_id | The team’s unique NCAA id. |
| year | The season (i.e. use 2016 for the 2015-2016 season, etc.) |
| pbp_links | Logical parameter to run process for scraping play_by_play urls for each game |
| ... | Additional arguments passed to an underlying function like httr. |

Details

```
try(ncaa_schedule_info(team_id = 736, year = 2019))
```

Value

A data frame with the following fields: date, opponent, result, score, innings (if more than regulation), and the url for the game itself.

| | |
|-----------|---------|
| col_name | types |
| year | integer |
| season_id | integer |

| | |
|-------------------------|-----------|
| date | character |
| home_team | character |
| home_team_id | integer |
| home_team_conference | character |
| home_team_conference_id | integer |
| home_team_slug | character |
| home_team_division | integer |
| away_team | character |
| away_team_id | integer |
| away_team_conference | character |
| away_team_conference_id | integer |
| away_team_slug | character |
| away_team_division | integer |
| neutral_site | character |
| result | character |
| score | character |
| innings | character |
| slug | character |
| game_info_url | character |
| contest_id | integer |

| | |
|-------------------|--|
| ncaa_school_id_lu | Lookup NCAA baseball school IDs (Division I, II, and III) |
|-------------------|--|

Description

This function allows the user to look up the team_id needed for the ncaa_team_player_stats() function.

Usage

```
ncaa_school_id_lu(team_name = NULL)
```

Arguments

team_name A string that will be searched for in the names of the teams.

Value

Returns a tibble with school identification data: team_id, team_name, team_url, conference, conference_id, division, year, and season_id

| | |
|-----------|-----------|
| col_name | types |
| team_id | numeric |
| team_name | character |
| team_url | character |

| | |
|---------------|-----------|
| conference_id | numeric |
| conference | character |
| division | numeric |
| year | numeric |
| season_id | numeric |

Examples

```
try(ncaa_school_id_lu("Van"))
```

| | |
|-------------|--|
| ncaa_scrape | (legacy) Scrape NCAA baseball Team Player Stats (Division I, II, and III) |
|-------------|--|

Description

(legacy) Scrape NCAA baseball Team Player Stats (Division I, II, and III)

Usage

```
ncaa_scrape(  
  team_id,  
  year = most_recent_ncaa_baseball_season(),  
  type = "batting",  
  ...  
)
```

Arguments

| | |
|---------|--|
| team_id | The numerical ID that the NCAA website uses to identify a team |
| year | The season for which data should be returned, in the form of "YYYY". Years currently available: 2013-2017. |
| type | A string indicating whether to return "batting" or "pitching" statistics |
| ... | Additional arguments passed to an underlying function like httr. |

Value

A data frame with the following variables

| | |
|---------------|-----------|
| col_name | types |
| year | integer |
| team_name | character |
| team_id | numeric |
| conference_id | integer |

| | |
|-------------|-----------|
| conference | character |
| division | numeric |
| player_id | integer |
| player_url | character |
| player_name | character |
| Yr | character |
| Pos | character |
| Jersey | character |
| GP | numeric |
| GS | numeric |
| BA | numeric |
| OBPct | numeric |
| SlgPct | numeric |
| R | numeric |
| AB | numeric |
| H | numeric |
| 2B | numeric |
| 3B | numeric |
| TB | numeric |
| HR | numeric |
| RBI | numeric |
| BB | numeric |
| HBP | numeric |
| SF | numeric |
| SH | numeric |
| K | numeric |
| DP | numeric |
| CS | numeric |
| Picked | numeric |
| SB | numeric |
| RBI2out | numeric |

| | |
|------------|--|
| ncaa_teams | Scrape NCAA baseball Teams (Division I, II, and III) |
|------------|--|

Description

This function allows the user to obtain NCAA teams by year and division

Usage

ncaa_teams(year = most_recent_ncaa_baseball_season(), division = 1, ...)

Arguments

| | |
|----------|--|
| year | The season for which data should be returned, in the form of "YYYY". Years currently available: 2002 onward. |
| division | Division - 1, 2, 3 |
| ... | Additional arguments passed to an underlying function like httr. |

Details

ncaa_teams(2023, 1)

Value

A data frame with the following variables

| col_name | types |
|---------------|-----------|
| team_id | character |
| team_name | character |
| team_url | character |
| conference_id | character |
| conference | character |
| division | numeric |
| year | numeric |
| season_id | character |

| |
|---|
| ncaa_team_player_stats |
| Scrape NCAA baseball Team Player Stats (Division I, II, and III) |

Description

This function allows the user to obtain batting or pitching statistics for any school affiliated with the NCAA at the division I, II, or III levels. The function acquires data from the NCAA's website (stats.ncaa.org) and returns a tibble.

Usage

```
ncaa_team_player_stats(  
  team_id,  
  year = most_recent_ncaa_baseball_season(),  
  type = "batting",  
  ...  
)
```

Arguments

| | |
|---------|--|
| team_id | The numerical ID that the NCAA website uses to identify a team |
| year | The season for which data should be returned, in the form of "YYYY". Years currently available: 2013-2017. |
| type | A string indicating whether to return "batting" or "pitching" statistics |
| ... | Additional arguments passed to an underlying function like <code>httr</code> . |

Value

A data frame with the following variables

| col_name | types |
|---------------|-----------|
| year | integer |
| team_name | character |
| team_id | numeric |
| conference_id | integer |
| conference | character |
| division | numeric |
| player_id | integer |
| player_url | character |
| player_name | character |
| Yr | character |
| Pos | character |
| Jersey | character |
| GP | numeric |
| GS | numeric |
| BA | numeric |
| OBPct | numeric |
| SlgPct | numeric |
| R | numeric |
| AB | numeric |
| H | numeric |
| 2B | numeric |
| 3B | numeric |
| TB | numeric |
| HR | numeric |
| RBI | numeric |
| BB | numeric |
| HBP | numeric |
| SF | numeric |
| SH | numeric |
| K | numeric |
| DP | numeric |
| CS | numeric |
| Picked | numeric |
| SB | numeric |
| RBI2out | numeric |

Examples

```
try(ncaa_team_player_stats(team_id = 234, year = 2023, type = "batting"))
```

| | |
|----------------------|---|
| pitcher_game_logs_fg | (legacy) Scrape Pitcher Game Logs from FanGraphs |
|----------------------|---|

Description

(legacy) Scrape Pitcher Game Logs from FanGraphs

Usage

```
pitcher_game_logs_fg(playerid, year)
```

Arguments

- | | |
|----------|---|
| playerid | This is the playerid used by FanGraphs for a given player |
| year | The season for which game logs should be returned (use the YYYY format) |

Value

A data frame of pitcher game logs.

| | |
|-----------------|---|
| playerid_lookup | Look up Baseball Player IDs by Player Name |
|-----------------|---|

Description

This function allows you to query the Chadwick Bureau’s public register of baseball players and the various IDs associated with them in different systems of record.

Usage

```
playerid_lookup(last_name = NULL, first_name = NULL)
```

Arguments

- | | |
|------------|--|
| last_name | A text string used to return results for players with that string in their last name. |
| first_name | A text string used to return results for players with that string in their first name. |

Value

A data frame of baseball players and the various IDs associated with them in different systems of record.

| col_name | types |
|------------------|-----------|
| first_name | character |
| last_name | character |
| given_name | character |
| name_suffix | character |
| nick_name | character |
| birth_year | integer |
| mlb_played_first | integer |
| mlbam_id | integer |
| retrosheet_id | character |
| bbref_id | character |
| fangraphs_id | integer |

Examples

```
try(playerid_lookup("Garcia", "Karim"))
```

 playername_lookup

Look up Baseball Player Name by ID

Description

This function allows you to query the Chadwick Bureau's public register of baseball players and the various IDs associated with them in different systems of record.

Usage

```
playername_lookup(id)
```

Arguments

| | |
|----|---|
| id | An integer or character string representing a player ID in a baseball database, cross-referenced through the Chadwick Bureau's public register of baseball players. |
|----|---|

Value

A data frame of baseball players and the various IDs associated with them in different systems of record.

| col_name | types |
|----------|-------|
|----------|-------|

| | |
|------------------|-----------|
| name_first | character |
| name_last | character |
| name_given | character |
| name_suffix | character |
| name_nick | character |
| birth_year | integer |
| mlb_played_first | integer |
| key_mlbam | integer |
| key_retro | character |
| key_bbref | character |
| key_fangraphs | integer |

Examples

```
try(playername_lookup(4885))
try(playername_lookup("kaaihki01"))
```

| |
|--|
| process_statcast_payload |
| Process Baseball Savant CSV payload |

Description

This is a helper function for all `statcast_search()` functions. The function processes the initial csv payload acquired from Baseball Savant to ensure consistency in formatting across downloads

Usage

```
process_statcast_payload(payload)
```

Arguments

| | |
|---------|--|
| payload | payload from a Baseball Savant request |
|---------|--|

Value

A tibble with the processed Statcast data coerced to the correct types.

retrosheet_data

Get, Parse, and Format Retrosheet Event and Roster Files**Description**

This function requires the use of the **Chadwick CLI**. Follow the directions at the repository for installation of the CLI release for your platform. Specifically from the Chadwick CLI tools, this function requires the cwevent application to be available from the command line. For unix platform users: the retrosheet_data() function uses the system() interface under the hood. For Windows and other platform users: the retrosheet_data() function interacts with the cwevent application using the shell() interface under the hood.

Usage

```
retrosheet_data(
  path_to_directory = NULL,
  years_to_acquire = most_recent_mlb_season() - 1,
  sequence_years = FALSE
)
```

Arguments

path_to_directory

(default: NULL) A file path that if set, either:

1. creates a new directory, or
2. uses the path to an existing directory

years_to_acquire

(format: YYYY) The seasons to collect. Single, multiple, and sequential years can be passed. If passing multiple years, enclose in a vector (i.e. c(2017,2018)). Defaults to most_recent_mlb_season().

sequence_years (logical, default: FALSE): If the seasons passed in the years_to_acquire parameter should be sequenced so that the function returns all years including and between the vector passed, set the argument to TRUE. Defaults to FALSE.

Details

```
retrosheet_data(path_to_directory = NULL,
  years_to_acquire = most_recent_mlb_season()-1,
  sequence_years = FALSE)
```

Value

If path_to_directory is not set (default), the process will return a named list of tibbles: 'events' and 'rosters' for each season provided to years_to_acquire. If path_to_directory is set, will also write two csv files to the unzipped directory: 1) a combined csv of the event data for a given year and 2) a combined csv of each team's roster for each year provided to years_to_acquire.

| | |
|---------------------|---|
| run_expectancy_code | Generate run expectancy and related measures from Baseball Savant data |
|---------------------|---|

Description

These functions allow a user to generate run expectancy and related measures and variables from Baseball Savant data. Measures and variables will be added to the data frame.

Usage

```
run_expectancy_code(df, level = "plate appearance")
```

Arguments

| | |
|-------|--|
| df | A data frame generated from Baseball Savant. |
| level | Whether you want run expectancy calculated at the plate appearance or pitch level. Defaults to plate appearance. |

Value

Returns a tibble with the following columns:

| | |
|-------------------------|-----------|
| col_name | types |
| pitch_type | character |
| game_date | Date |
| release_speed | numeric |
| release_pos_x | numeric |
| release_pos_z | numeric |
| player_name | character |
| batter | numeric |
| pitcher | numeric |
| events | character |
| description | character |
| spin_dir | logical |
| spin_rate_deprecated | logical |
| break_angle_deprecated | logical |
| break_length_deprecated | logical |
| zone | numeric |
| des | character |
| game_type | character |
| stand | character |
| p_throws | character |
| home_team | character |
| away_team | character |
| type | character |
| hit_location | integer |

| | |
|---------------------------------|-----------|
| bb_type | character |
| balls | integer |
| strikes | integer |
| game_year | integer |
| pfx_x | numeric |
| pfx_z | numeric |
| plate_x | numeric |
| plate_z | numeric |
| on_3b | numeric |
| on_2b | numeric |
| on_1b | numeric |
| outs_when_up | integer |
| inning | numeric |
| inning_topbot | character |
| hc_x | numeric |
| hc_y | numeric |
| tfs_deprecated | logical |
| tfs_zulu_deprecated | logical |
| fielder_2 | numeric |
| umpire | logical |
| sv_id | character |
| vx0 | numeric |
| vy0 | numeric |
| vz0 | numeric |
| ax | numeric |
| ay | numeric |
| az | numeric |
| sz_top | numeric |
| sz_bot | numeric |
| hit_distance_sc | numeric |
| launch_speed | numeric |
| launch_angle | numeric |
| effective_speed | numeric |
| release_spin_rate | numeric |
| release_extension | numeric |
| game_pk | numeric |
| pitcher_1 | numeric |
| fielder_2_1 | numeric |
| fielder_3 | numeric |
| fielder_4 | numeric |
| fielder_5 | numeric |
| fielder_6 | numeric |
| fielder_7 | numeric |
| fielder_8 | numeric |
| fielder_9 | numeric |
| release_pos_y | numeric |
| estimated_ba_using_speedangle | numeric |
| estimated_woba_using_speedangle | numeric |

| | |
|---------------------------|-----------|
| woba_value | numeric |
| woba_denom | integer |
| babip_value | integer |
| iso_value | integer |
| launch_speed_angle | integer |
| at_bat_number | numeric |
| pitch_number | numeric |
| pitch_name | character |
| home_score | numeric |
| away_score | numeric |
| bat_score | numeric |
| fld_score | numeric |
| post_away_score | numeric |
| post_home_score | numeric |
| post_bat_score | numeric |
| post_fld_score | numeric |
| if_fielding_alignment | character |
| of_fielding_alignment | character |
| spin_axis | numeric |
| delta_home_win_exp | numeric |
| delta_run_exp | numeric |
| final_pitch_game | numeric |
| final_pitch_at_bat | numeric |
| runs_scored_on_pitch | numeric |
| bat_score_after | numeric |
| final_pitch_inning | numeric |
| bat_score_start_inning | numeric |
| bat_score_end_inning | numeric |
| cum_runs_in_inning | numeric |
| runs_to_end_inning | numeric |
| count_base_out_state | character |
| avg_re | numeric |
| next_count_base_out_state | character |
| next_avg_re | numeric |
| change_re | numeric |
| re24 | numeric |

Examples

```
try({
  df <- statcast_search(start_date = "2016-04-06", end_date = "2016-04-15",
    playerid = 621043, player_type = 'batter')
  run_expectancy_code(df, level = "plate appearances")
})
```

| | |
|--------------|---|
| school_id_lu | (legacy) Lookup NCAA baseball school IDs (Division I, II, and III) |
|--------------|---|

Description**(legacy) Lookup NCAA baseball school IDs (Division I, II, and III)****Usage**

```
school_id_lu(team_name = NULL)
```

Arguments

| | |
|-----------|---|
| team_name | A string that will be searched for in the names of the teams. |
|-----------|---|

Value

Returns a tibble with school identification data: team_id, team_name, team_url, conference, conference_id, division, year, and season_id

| | |
|----------------------------|--|
| scrape_savant_leaderboards | (legacy) Query Baseball Savant Leaderboards |
|----------------------------|--|

Description**(legacy) Query Baseball Savant Leaderboards****Usage**

```
scrape_savant_leaderboards(
  leaderboard = "exit_velocity_barrels",
  year = 2020,
  abs = 50,
  min_pa = "q",
  min_pitches = 100,
  min_throws = 100,
  min_field = "q",
  min_run = 0,
  player_type = "batter",
  fielding_type = "player",
  oaa_position = "",
  oaa_roles = "",
  team = "",
  arsenal_type = "n",
```

```

run_type = "raw",
min2b = 5,
min3b = 0,
position = "",
bats = "",
hand = ""
)

```

Arguments

| | |
|---------------|--|
| leaderboard | The type of leaderboard to retrieve, input as a string. Current options include exit_velocity_barrels, expected_statistics, pitch_arsenal, outs_above_average, directional_oaa, catch_probability, pop_time, sprint_speed, and running_splits_90_ft, arm_strength. |
| year | The season for which you want data. |
| abs | The minimum number of batted balls. Applies only to exit_velocity_barrels leaderboards. |
| min_pa | Minimum number of plate appearances. Can be a number or 'q' for qualified batters. |
| min_pitches | Minimum number of pitches thrown. |
| min_throws | Minimum number of throwing opportunities. |
| min_field | Minimum number of fieding opportunities. |
| min_run | Minimum number of running opportunities. |
| player_type | One of either 'batter' or pitcher. For the expected_statistics leaderboard, 'batter-team' and 'pitcher-team' are also available. |
| fielding_type | One of either 'player' or 'team'. |
| oaa_position | Can be either the number position of a player or 'if' or 'of' for position categories. |
| oaa_roles | Can be either the number position of a player or 'if' or 'of' for position categories. |
| team | An abbreviation for a team. Can be left blank. |
| arsenal_type | One of either 'n_', 'avg_spin', or 'avg_speed'. |
| run_type | One of either 'percent' or 'raw'. |
| min2b | The minimum number of throwing attempts to second base. |
| min3b | The minimum number of throwing attempts to third base. |
| position | The numeric position of the player. For DH use 10. Can be left blank. |
| bats | The handedness of the batter. One of 'R' or 'L'. Can be left blank. |
| hand | The handedness of the pitcher. One of 'R' or 'L'. Can be left blank. |

Value

Returns a tibble of Statcast leaderboard data.

`scrape_statcast_savant`**(legacy) Query Statcast by Date Range and Players**

Description**(legacy) Query Statcast by Date Range and Players****Usage**

```
scrape_statcast_savant(  
  start_date = Sys.Date() - 1,  
  end_date = Sys.Date(),  
  playerid = NULL,  
  player_type = "batter",  
  ...  
)  
  
scrape_statcast_savant.Date(  
  start_date = Sys.Date() - 1,  
  end_date = Sys.Date(),  
  playerid = NULL,  
  player_type = "batter",  
  ...  
)  
  
scrape_statcast_savant.default(  
  start_date = Sys.Date() - 1,  
  end_date = Sys.Date(),  
  playerid = NULL,  
  player_type = "batter",  
  ...  
)  
  
scrape_statcast_savant_batter(start_date, end_date, batterid = NULL, ...)  
  
scrape_statcast_savant_batter_all(start_date, end_date, batterid = NULL, ...)  
  
scrape_statcast_savant_pitcher(start_date, end_date, pitcherid = NULL, ...)  
  
scrape_statcast_savant_pitcher_all(start_date, end_date, pitcherid = NULL, ...)
```

Arguments

| | |
|-------------------------|--|
| <code>start_date</code> | Date of first game for which you want data. Format must be in YYYY-MM-DD format. |
|-------------------------|--|

| | |
|-------------|---|
| end_date | Date of last game for which you want data. Format must be in YYYY-MM-DD format. |
| playerid | The MLBAM ID for the player whose data you want to query. |
| player_type | The player type. Can be batter or pitcher. Default is batter |
| ... | currently ignored |
| batterid | The MLBAM ID for the batter whose data you want to query. |
| pitcherid | The MLBAM ID for the pitcher whose data you want to query. |

Value

- Returns a tibble with Statcast data.
- Returns a tibble with Statcast data.
- Returns a tibble with Statcast data.
- Returns a tibble with Statcast data.
- Returns a tibble with Statcast data.
- Returns a tibble with Statcast data.
- Returns a tibble with Statcast data.

| | |
|-----------------------|--|
| sptrc_league_payrolls | Scrape League Payroll Breakdowns from Spotrac |
|-----------------------|--|

Description

This function allows you to scrape each team’s payroll from Spotrac.

Usage

```
sptrc_league_payrolls(year = most_recent_mlb_season())
```

Arguments

| | |
|------|--------------|
| year | Year to load |
|------|--------------|

Value

A data frame of contract data.

| | |
|-------------|-----------|
| col_name | types |
| year | character |
| team | character |
| team_abbr | character |
| rank | numeric |
| win_percent | numeric |
| roster | numeric |

| | |
|----------------------|---------|
| active_man_payroll | numeric |
| injured_reserve | numeric |
| retained | numeric |
| buried | numeric |
| suspended | numeric |
| yearly_total_payroll | numeric |

Examples

```
try(sptrc_league_payrolls(year = most_recent_mlb_season()))
```

sptrc_team_active_payroll

Scrape Team Active Payroll Breakdown from Spotrac

Description

This function allows you to scrape a team’s active payroll from Spotrac.

Usage

```
sptrc_team_active_payroll(team_abbr, year = most_recent_mlb_season())
```

Arguments

| | |
|-----------|-------------------|
| team_abbr | Team abbreviation |
| year | Year to load |

Value

A data frame of contract data.

| | |
|----------------|-----------|
| col_name | types |
| year | numeric |
| team | character |
| player_name | character |
| roster_status | character |
| age | numeric |
| pos | numeric |
| status | numeric |
| waiver_options | numeric |
| base_salary | numeric |
| signing_bonus | numeric |
| payroll_salary | numeric |
| adj_salary | numeric |

| | |
|-----------------|---------|
| payroll_percent | numeric |
| lux_tax_salary | numeric |
| total_salary | numeric |

Examples

```
try(sptrc_team_active_payroll(team_abbr = "BAL", year = most_recent_mlb_season()))
```

| |
|---|
| standings_on_date_bref |
| (legacy) Scrape MLB Standings on a Given Date |

Description

(legacy) Scrape MLB Standings on a Given Date

Usage

```
standings_on_date_bref(date, division, from = FALSE)
```

Arguments

| | |
|----------|---|
| date | a date object |
| division | One or more of AL East, AL Central, AL West, AL Overall, NL East, NL Central, NL West, and NL Overall |
| from | a logical indicating whether you want standings up to and including the date (FALSE, default) or rather standings for games played after the date |

Value

Returns a tibble of MLB standings

| | |
|----------|-----------------------------|
| statcast | Statcast Functions Overview |
|----------|-----------------------------|

Description

- statcast_search(): Query Statcast by Date Range and Players.
- statcast_search_batters(): Query Statcast Batters by Date Range and Player.
- statcast_search_pitchers(): Query Statcast Pitchers by Date Range and Player.
- statcast_leaderboards(): Query Baseball Savant Leaderboards.

Details**Query Statcast Batters by Date Range:**

```
statcast_search(start_date = "2016-04-06",
                end_date = "2016-04-15",
                player_type = 'batter')

## The above is equivalent to:
statcast_search_batters(start_date = "2016-04-06",
                        end_date = "2016-04-15",
                        batterid = NULL)
```

Query Statcast Pitchers by Date Range:

```
statcast_search(start_date = "2016-04-06",
                end_date = "2016-04-15",
                player_type = 'pitcher')

## The above is equivalent to:
statcast_search_pitchers(start_date = "2016-04-06",
                        end_date = "2016-04-15",
                        pitcherid = NULL)
```

Query Statcast Batters by Date Range and Player ID:

```
correa <- statcast_search(start_date = "2016-04-06",
                        end_date = "2016-04-15",
                        playerid = 621043,
                        player_type = 'batter')

## The above is equivalent to:
correa <- statcast_search_batters(start_date = "2016-04-06",
                                end_date = "2016-04-15",
                                batterid = 621043)
```

Query Statcast Pitchers by Date Range and Player ID:

```
noah <- statcast_search(start_date = "2016-04-06",
                      end_date = "2016-04-15",
                      playerid = 592789,
                      player_type = 'pitcher')

## The above is equivalent to:
noah <- statcast_search_pitchers(start_date = "2016-04-06",
                               end_date = "2016-04-15",
                               pitcherid = 592789)
```

Query Baseball Savant Leaderboards:

```
statcast_leaderboards(leaderboard = "exit_velocity_barrels", year = 2021)
```

| | |
|-----------------|----------------------------------|
| statcast_impute | Statcast Label Imputation |
|-----------------|----------------------------------|

Description

Statcast Label Imputation

Usage

statcast_impute

Format

An object of class `data.frame` with 44 rows and 4 columns.

| | |
|-----------------------|---|
| statcast_leaderboards | Query Baseball Savant Leaderboards |
|-----------------------|---|

Description

This function allows you to read leaderboard data from BaseballSavant directly into R as data frame.

Usage

```
statcast_leaderboards(  
  leaderboard = "exit_velocity_barrels",  
  year = 2020,  
  abs = 50,  
  min_pa = "q",  
  min_pitches = 100,  
  min_throws = 100,  
  min_field = "q",  
  min_run = 0,  
  player_type = "batter",  
  fielding_type = "player",  
  oaa_position = "",  
  oaa_roles = "",  
  team = "",  
  arsenal_type = "n",  
  run_type = "raw",  
  min2b = 5,  
  min3b = 0,  
  position = "",  
  bats = "",  
  hand = ""  
)
```

Arguments

| | |
|---------------|--|
| leaderboard | The type of leaderboard to retrieve, input as a string. Current options include exit_velocity_barrels, expected_statistics, pitch_arsenal, outs_above_average, directional_oaa, catch_probability, pop_time, sprint_speed, and running_splits_90_ft, arm_strength. |
| year | The season for which you want data. |
| abs | The minimum number of batted balls. Applies only to exit_velocity_barrels leaderboards. |
| min_pa | Minimum number of plate appearances. Can be a number or 'q' for qualified batters. |
| min_pitches | Minimum number of pitches thrown. |
| min_throws | Minimum number of throwing opportunities. |
| min_field | Minimum number of fielding opportunities. |
| min_run | Minimum number of running opportunities. |
| player_type | One of either 'batter' or 'pitcher'. For the expected_statistics leaderboard, 'batter-team' and 'pitcher-team' are also available. |
| fielding_type | One of either 'player' or 'team'. |
| oaa_position | Can be either the number position of a player or 'if' or 'of' for position categories. |
| oaa_roles | Can be either the number position of a player or 'if' or 'of' for position categories. |
| team | An abbreviation for a team. Can be left blank. |
| arsenal_type | One of either 'n_', 'avg_spin', or 'avg_speed'. |
| run_type | One of either 'percent' or 'raw'. |
| min2b | The minimum number of throwing attempts to second base. |
| min3b | The minimum number of throwing attempts to third base. |
| position | The numeric position of the player. For DH use 10. Can be left blank. |
| bats | The handedness of the batter. One of 'R' or 'L'. Can be left blank. |
| hand | The handedness of the pitcher. One of 'R' or 'L'. Can be left blank. |

Details

oaa_roles argument: 30 = 1B - Straight Up 31 = 1B - Towards 1B/2B Hole 32 = 1B - Close to Line 40 = 2B - Straight Up 41 = 2B - Shaded Towards 2B Bag 42 = 2B - Towards 1B/2B Hole 43 = 2B - Behind First Basemen 46 = 2B - Up the Middle 60 = SS - Straight Up 61 = SS - Towards 3B/SS Hole 62 = SS - Shaded Towards 2B Bag 64 = SS - Up the Middle 50 = 3B - Straight Up 51 = 3B - Close to Line 52 = 3B - Towards 3B/SS Hole 77 = LF - Close to Line 71 = LF - Leaning Left 70 = LF - Straight Up 72 = LF - Leaning Right 78 = LF - LF Gap 87 = CF - LF Gap 81 = CF - Leaning Left 82 = CF - Leaning Right 89 = CF - RF Gap 98 = RF - RF Gap 91 = RF - Leaning Left 90 = RF - Straight Up 92 = RF - Leaning Right 99 = RF - Close to Line

Value

Returns a tibble of Statcast leaderboard data with the following columns (for leaderboard: 'exit_velocity_barrels'):

| col_name | types |
|-----------------------|-----------|
| year | numeric |
| last_name | character |
| first_name | character |
| player_id | integer |
| attempts | integer |
| avg_hit_angle | numeric |
| anglesweetspotpercent | numeric |
| max_hit_speed | numeric |
| avg_hit_speed | numeric |
| fbld | numeric |
| gb | numeric |
| max_distance | integer |
| avg_distance | integer |
| avg_hr_distance | integer |
| ev95plus | integer |
| ev95per-swing | numeric |
| ev95percent | numeric |
| barrels | integer |
| brl_percent | numeric |
| brl_pa | numeric |

Examples

```
try(statcast_leaderboards(leaderboard = "expected_statistics", year = 2018))
try(statcast_leaderboards(leaderboard = "arm_strength", year = 2020))
```

| | |
|-----------------|---|
| statcast_search | Query Statcast by Date Range and Players |
|-----------------|---|

Description

This function allows you to query Statcast data as provided on <https://baseballsavant.mlb.com>

Usage

```
statcast_search(
  start_date = Sys.Date() - 1,
  end_date = Sys.Date(),
  playerid = NULL,
  player_type = "batter",
  ...
)
```



```
)

statcast_search.default(
  start_date = Sys.Date() - 1,
  end_date = Sys.Date(),
  playerid = NULL,
  player_type = "batter",
  ...
)

statcast_search.batters(start_date, end_date, batterid = NULL, ...)

statcast_search.pitchers(start_date, end_date, pitcherid = NULL, ...)
```

Arguments

| | |
|-------------|--|
| start_date | Date of first game for which you want data. Format must be in YYYY-MM-DD format. |
| end_date | Date of last game for which you want data. Format must be in YYYY-MM-DD format. |
| playerid | The MLBAM ID for the player whose data you want to query. |
| player_type | The player type. Can be batter or pitcher. Default is batter |
| ... | currently ignored |
| batterid | The MLBAM ID for the batter whose data you want to query. |
| pitcherid | The MLBAM ID for the pitcher whose data you want to query. |

Value

Returns a tibble with Statcast data with the following columns:

| col_name | types |
|-------------------------|-----------|
| pitch_type | character |
| game_date | Date |
| release_speed | numeric |
| release_pos_x | numeric |
| release_pos_z | numeric |
| player_name | character |
| batter | numeric |
| pitcher | numeric |
| events | character |
| description | character |
| spin_dir | logical |
| spin_rate_deprecated | logical |
| break_angle_deprecated | logical |
| break_length_deprecated | logical |
| zone | numeric |
| des | character |

| | |
|---------------------|-----------|
| game_type | character |
| stand | character |
| p_throws | character |
| home_team | character |
| away_team | character |
| type | character |
| hit_location | integer |
| bb_type | character |
| balls | integer |
| strikes | integer |
| game_year | integer |
| pfx_x | numeric |
| pfx_z | numeric |
| plate_x | numeric |
| plate_z | numeric |
| on_3b | numeric |
| on_2b | numeric |
| on_1b | numeric |
| outs_when_up | integer |
| inning | numeric |
| inning_topbot | character |
| hc_x | numeric |
| hc_y | numeric |
| tfs_deprecated | logical |
| tfs_zulu_deprecated | logical |
| fielder_2 | numeric |
| umpire | logical |
| sv_id | character |
| vx0 | numeric |
| vy0 | numeric |
| vz0 | numeric |
| ax | numeric |
| ay | numeric |
| az | numeric |
| sz_top | numeric |
| sz_bot | numeric |
| hit_distance_sc | numeric |
| launch_speed | numeric |
| launch_angle | numeric |
| effective_speed | numeric |
| release_spin_rate | numeric |
| release_extension | numeric |
| game_pk | numeric |
| pitcher_1 | numeric |
| fielder_2_1 | numeric |
| fielder_3 | numeric |
| fielder_4 | numeric |
| fielder_5 | numeric |

| | |
|---------------------------------|-----------|
| fielder_6 | numeric |
| fielder_7 | numeric |
| fielder_8 | numeric |
| fielder_9 | numeric |
| release_pos_y | numeric |
| estimated_ba_using_speedangle | numeric |
| estimated_woba_using_speedangle | numeric |
| woba_value | numeric |
| woba_denom | integer |
| babip_value | integer |
| iso_value | integer |
| launch_speed_angle | integer |
| at_bat_number | numeric |
| pitch_number | numeric |
| pitch_name | character |
| home_score | numeric |
| away_score | numeric |
| bat_score | numeric |
| fld_score | numeric |
| post_away_score | numeric |
| post_home_score | numeric |
| post_bat_score | numeric |
| post_fld_score | numeric |
| if_fielding_alignment | character |
| of_fielding_alignment | character |
| spin_axis | numeric |
| delta_home_win_exp | numeric |
| delta_run_exp | numeric |

Returns a tibble with Statcast data.

Returns a tibble with Statcast data with the following columns:

| | |
|-------------------------|-----------|
| col_name | types |
| pitch_type | character |
| game_date | Date |
| release_speed | numeric |
| release_pos_x | numeric |
| release_pos_z | numeric |
| player_name | character |
| batter | numeric |
| pitcher | numeric |
| events | character |
| description | character |
| spin_dir | logical |
| spin_rate_deprecated | logical |
| break_angle_deprecated | logical |
| break_length_deprecated | logical |

| | |
|---------------------|-----------|
| zone | numeric |
| des | character |
| game_type | character |
| stand | character |
| p_throws | character |
| home_team | character |
| away_team | character |
| type | character |
| hit_location | integer |
| bb_type | character |
| balls | integer |
| strikes | integer |
| game_year | integer |
| pfx_x | numeric |
| pfx_z | numeric |
| plate_x | numeric |
| plate_z | numeric |
| on_3b | numeric |
| on_2b | numeric |
| on_1b | numeric |
| outs_when_up | integer |
| inning | numeric |
| inning_topbot | character |
| hc_x | numeric |
| hc_y | numeric |
| tfs_deprecated | logical |
| tfs_zulu_deprecated | logical |
| fielder_2 | numeric |
| umpire | logical |
| sv_id | character |
| vx0 | numeric |
| vy0 | numeric |
| vz0 | numeric |
| ax | numeric |
| ay | numeric |
| az | numeric |
| sz_top | numeric |
| sz_bot | numeric |
| hit_distance_sc | numeric |
| launch_speed | numeric |
| launch_angle | numeric |
| effective_speed | numeric |
| release_spin_rate | numeric |
| release_extension | numeric |
| game_pk | numeric |
| pitcher_1 | numeric |
| fielder_2_1 | numeric |
| fielder_3 | numeric |

| | |
|---------------------------------|-----------|
| fielder_4 | numeric |
| fielder_5 | numeric |
| fielder_6 | numeric |
| fielder_7 | numeric |
| fielder_8 | numeric |
| fielder_9 | numeric |
| release_pos_y | numeric |
| estimated_ba_using_speedangle | numeric |
| estimated_woba_using_speedangle | numeric |
| woba_value | numeric |
| woba_denom | integer |
| babip_value | integer |
| iso_value | integer |
| launch_speed_angle | integer |
| at_bat_number | numeric |
| pitch_number | numeric |
| pitch_name | character |
| home_score | numeric |
| away_score | numeric |
| bat_score | numeric |
| fld_score | numeric |
| post_away_score | numeric |
| post_home_score | numeric |
| post_bat_score | numeric |
| post_fld_score | numeric |
| if_fielding_alignment | character |
| of_fielding_alignment | character |
| spin_axis | numeric |
| delta_home_win_exp | numeric |
| delta_run_exp | numeric |

Returns a tibble with Statcast data with the following columns:

| | |
|------------------------|-----------|
| col_name | types |
| pitch_type | character |
| game_date | Date |
| release_speed | numeric |
| release_pos_x | numeric |
| release_pos_z | numeric |
| player_name | character |
| batter | numeric |
| pitcher | numeric |
| events | character |
| description | character |
| spin_dir | logical |
| spin_rate_deprecated | logical |
| break_angle_deprecated | logical |

| | |
|-------------------------|-----------|
| break_length_deprecated | logical |
| zone | numeric |
| des | character |
| game_type | character |
| stand | character |
| p_throws | character |
| home_team | character |
| away_team | character |
| type | character |
| hit_location | integer |
| bb_type | character |
| balls | integer |
| strikes | integer |
| game_year | integer |
| pfx_x | numeric |
| pfx_z | numeric |
| plate_x | numeric |
| plate_z | numeric |
| on_3b | numeric |
| on_2b | numeric |
| on_1b | numeric |
| outs_when_up | integer |
| inning | numeric |
| inning_topbot | character |
| hc_x | numeric |
| hc_y | numeric |
| tfs_deprecated | logical |
| tfs_zulu_deprecated | logical |
| fielder_2 | numeric |
| umpire | logical |
| sv_id | character |
| vx0 | numeric |
| vy0 | numeric |
| vz0 | numeric |
| ax | numeric |
| ay | numeric |
| az | numeric |
| sz_top | numeric |
| sz_bot | numeric |
| hit_distance_sc | numeric |
| launch_speed | numeric |
| launch_angle | numeric |
| effective_speed | numeric |
| release_spin_rate | numeric |
| release_extension | numeric |
| game_pk | numeric |
| pitcher_1 | numeric |
| fielder_2_1 | numeric |

| | |
|---------------------------------|-----------|
| fielder_3 | numeric |
| fielder_4 | numeric |
| fielder_5 | numeric |
| fielder_6 | numeric |
| fielder_7 | numeric |
| fielder_8 | numeric |
| fielder_9 | numeric |
| release_pos_y | numeric |
| estimated_ba_using_speedangle | numeric |
| estimated_woba_using_speedangle | numeric |
| woba_value | numeric |
| woba_denom | integer |
| babip_value | integer |
| iso_value | integer |
| launch_speed_angle | integer |
| at_bat_number | numeric |
| pitch_number | numeric |
| pitch_name | character |
| home_score | numeric |
| away_score | numeric |
| bat_score | numeric |
| fld_score | numeric |
| post_away_score | numeric |
| post_home_score | numeric |
| post_bat_score | numeric |
| post_fld_score | numeric |
| if_fielding_alignment | character |
| of_fielding_alignment | character |
| spin_axis | numeric |
| delta_home_win_exp | numeric |
| delta_run_exp | numeric |

Examples

```
### Harper
try(statcast_search(start_date = "2022-10-06",
  end_date = "2022-10-16",
  playerid = 547180,
  player_type = 'batter'))

### Framber
try(statcast_search(start_date = "2022-10-06",
  end_date = "2022-10-16",
  playerid = 664285,
  player_type = 'pitcher'))

### Daily
try(statcast_search(start_date = "2022-11-04",
  end_date = "2022-11-06"))
```

```

try({
  correa <- statcast_search_batters(start_date = "2016-04-06",
    end_date = "2016-04-15", batterid = 621043)
  daily <- statcast_search_batters(start_date = "2016-04-06",
    end_date = "2016-04-06", batterid = NULL)
})

try({
  x <- statcast_search_pitchers(start_date = "2016-04-06",
    end_date = "2016-04-15", pitcherid = 592789)
  daily <- statcast_search_pitchers(start_date = "2016-04-06",
    end_date = "2016-04-06", pitcherid = NULL)
})

```

statline_from_statcast

Create stat lines from Statcast data

Description

This function allows you to create stat lines of statistics for players or groups of players from raw Statcast. When calculating wOBA, the most recent year in the data frame is used for weighting.

Usage

```
statline_from_statcast(df, base = "pa")
```

Arguments

| | |
|------|---|
| df | A data frame of statistics that includes, at a minimum, the following columns: events, description, game_date, and type. |
| base | Tells the function what to use as the population of pitches to use for the stat line. Options include "swings", "contact", or "pa". Defaults to "pa". |

Details

```
statline_from_statcast(df, base = "contact")
```

Value

A tibble with the additional columns calculated using the Statcast data.

| | |
|---|----------------------------------|
| stats_api_live_empty_df | |
| Column structure of MLB Stats Live Game API data frame | |
| Description | |
| An empty tibble | |
| Usage | |
| stats_api_live_empty_df | |
| Format | |
| An object of class tbl_df (inherits from tbl, data.frame) with 0 rows and 131 columns. | |
| <hr/> | |
| teams_lu_table | A Team Lookup Table |
| <hr/> | |
| Description | |
| A Team Lookup Table | |
| Usage | |
| teams_lu_table | |
| Format | |
| An object of class data.frame with 797 rows and 31 columns. | |
| <hr/> | |
| team_consistency | Calculate Team-level Consistency |
| <hr/> | |
| Description | |
| This function allows you to calculate team-level consistency in run scoring and run prevention over the course of an entire season. | |
| Usage | |
| team_consistency(year) | |

Arguments

year Season consistency should be run for.

Details

```
try(team_consistency(year=2021))
```

Value

Returns a tibble with the following columns

| col_name | types |
|--------------|-----------|
| Team | character |
| Con_R | numeric |
| Con_RA | numeric |
| Con_R_Ptile | numeric |
| Con_RA_Ptile | numeric |

| | |
|-------------------|-------------------------------------|
| team_results_bref | (legacy) Scrape Team Results |
|-------------------|-------------------------------------|

Description

(legacy) Scrape Team Results

Usage

```
team_results_bref(Tm, year)
```

Arguments

Tm The abbreviation used by Baseball-Reference.com for the team whose results you want to scrape.

year Season for which you want to scrape the park factors.

Value

Returns a tibble of MLB team results

| | |
|-----------|--|
| woba_plus | Calculate wOBA and related metrics for any set of data |
|-----------|--|

Description

This function allows you to calculate wOBA for any given set of data, provided the right variables are in the data set. The function currently returns both wOBA per plate appearance on wOBA per instance of fair contact.

Usage

```
woba_plus(df)
```

Arguments

df A data frame of statistics that includes, at a minimum, the following columns: uBB (unintentional walks), HBP (Hit By Pitch), X1B (singles), X2B (doubles), X3B (triples), HR (home runs), AB (at-bats), SH (sacrifice hits), SO (strike outs), and season.

Value

Returns a tibble with the wOBA factors calculated and the following columns:

| col_name | types |
|----------|-----------|
| bbref_id | character |
| season | integer |
| Name | character |
| Age | numeric |
| Level | character |
| Team | character |
| G | numeric |
| PA | numeric |
| AB | numeric |
| R | numeric |
| H | numeric |
| X1B | numeric |
| X2B | numeric |
| X3B | numeric |
| HR | numeric |
| RBI | numeric |
| BB | numeric |
| IBB | numeric |
| uBB | numeric |
| SO | numeric |
| HBP | numeric |
| SH | numeric |

| | |
|----------|---------|
| SF | numeric |
| GDP | numeric |
| SB | numeric |
| CS | numeric |
| BA | numeric |
| OBP | numeric |
| SLG | numeric |
| OPS | numeric |
| wOBA | numeric |
| wOBA_CON | numeric |

Examples

```
try({  
  df <- bref_daily_batter("2015-08-01", "2015-10-03")  
  woba_plus(df)  
})
```

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