

Package ‘humanFormat’

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Type Package

Depends testthat

Title Human-Friendly Formatting Functions

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Description Format quantities of time or bytes into human-friendly strings.

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URL <https://github.com/dustin/humanFormat>

BugReports <https://github.com/dustin/humanFormat/issues>

NeedsCompilation no

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durationConstants	<i>Duration constants</i>
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Description

These constants are used to express the number of nanoseconds in different time units.

Usage

```
kNanosecond  
kMicrosecond  
kMillisecond  
kSecond  
kMinute  
kHour
```

Details

These are useful for computing specific time durations or for converting from quantities in one unit to another unit (e.g. time in milliseconds to time in nanoseconds for duration formatting).

- kNanosecond: One nanosecond;
- kMicrosecond: One microsecond (1000 nanosecond);
- kMillisecond: One millisecond (1000 microseconds);
- kSecond: One second (1000 milliseconds);
- kMinute: One minute (60 seconds);
- kHour: One hour (60 minutes).

Examples

```
# To calculate 4 minute, 3 seconds and 14 microseconds:  
4*kMinute + 3*kSecond + 14*kMicrosecond
```

formatBytes	<i>Format a number of bytes into a human readable string.</i>
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Description

Formats a number of bytes into a human readable string.

When invoked as formatBytes, SI sizes are used. You may specify IEC sizes by using formatIECBytes.

Usage

```
formatBytes(b, fmt="%.2f")  
formatSIBytes(b, fmt="%.2f")  
formatIECBytes(b, fmt="%.2f")
```

Arguments

b	Number of bytes
fmt	String format for the numeric part of the bytes

Examples

```
# returns "934.82 MB"
formatBytes(934818582)

# returns "891.51 MiB"
formatIECBytes(934818582)

# returns c("8.43 KB", "3.52 KB", "624.62 KB", "46", "7.36 KB")
formatBytes(c(8429, 3525, 624624, 46, 7357))
```

formatDuration	<i>Format nanosecond durations into human readable strings.</i>
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Description

Format individual or vectors of durations into human friendly text.

Usage

```
formatDuration(ns)
formatNanoseconds(ns)

formatMicroseconds(us)
formatMilliseconds(ms)
formatSeconds(s)
```

Arguments

ns	Duration in nanoseconds
us	Duration in microseconds
ms	Duration in milliseconds
s	Duration in seconds

See Also

[durationConstants](#) constants for various duration lengths

Examples

```
formatDuration(0)
formatDuration(1)
formatNanoseconds(34)

formatMicroseconds(235)

formatMilliseconds(2487)

formatSeconds(7213)

formatDuration(c(0, 1, 1000, 2039, 205958, 284859249525))
```

humanFormat	<i>Format numbers into human readable strings</i>
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Description

When working with durations, bytes, and other items with odd bases, it's often useful to format the numbers into human readable units.

Details

- [formatDuration](#): format durations
- [formatBytes](#): format byte sizes

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