

Package ‘semnar’

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Title Constructing and Interacting with Databases of Presentations

Version 0.8.2

Description Provides methods for constructing and maintaining a database of presentations in R. The presentations are either ones that the user gives or gave or presentations at a particular event or event series. The package also provides a plot method for the interactive mapping of the presentations using 'leaflet' by grouping them according to country, city, year and other presentation attributes. The markers on the map come with popups providing presentation details (title, institution, event, links to materials and events, and so on).

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Encoding UTF-8

Depends R (>= 4.1.0)

Imports jsonlite, lubridate, parsedate, leaflet, urlshorteneR

RoxygenNote 7.3.2

Suggests curl, covr, tinytest

NeedsCompilation no

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semnr-package	<i>semnr: Methods and classes for constructing, maintaining and interacting with a database of presentations</i>
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Description

Provides methods for constructing and maintaining a database of presentations in R. The presentations are either ones that the user gives or gave or presentations at a particular event or event series. The package also provides a plot method for the interactive mapping of the presentations using 'leaflet' by grouping them according to country, city, year and other presentation attributes. The markers on the map come with popups providing presentation details (title, institution, event, links to materials and events, and so on).

Author(s)

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See Also

[add_presentation\(\)](#) [presenter\(\)](#) [event\(\)](#) [plot.semnr\(\)](#)

add_presentation	Create or add to a semnr object
------------------	---

Description

Create or add to a [semnr](#) object

Usage

```
add_presentation(  
  object,  
  presenter = NA,  
  presenter_name = NA,  
  presenter_midname = NA,  
  presenter_surname = NA,  
  presenter_affiliation = NA,  
  presenter_email = NA,  
  presenter_link = NA,  
  presenter_address = NA,  
  country = NA,  
)
```

```

    city = NA,
    state = NA,
    lon = NA,
    lat = NA,
    event = NA,
    title = NA,
    abstract = NA,
    type = NA,
    link = NA,
    materials = NA,
    institution = NA,
    department = NA,
    school = NA,
    venue = NA,
    address = NA,
    postcode = NA,
    room = NA,
    start = NA,
    end = NA,
    year = NA,
    month = NA,
    day = NA,
    start_hour = NA,
    end_hour = start_hour,
    start_min = 0L,
    end_min = start_min,
    start_sec = 0L,
    end_sec = 0L,
    tag = NA,
    tz = "UTC"
  )

```

Arguments

<code>object</code>	either an object an object of class <code>seminar</code> or unspecified (default). See Details.
<code>presenter</code>	either NA (default) or an object of class <code>seminar_presenter</code> . In the latter case, all input to the <code>presenter_*</code> arguments below is ignored and populated according to the supplied object.
<code>presenter_name</code>	name of the presenter of the presentation; character string or NA (default).
<code>presenter_midname</code>	middle name of the presenter of the presentation; character string or NA (default).
<code>presenter_surname</code>	surname of the presenter of the presentation; character string or NA (default).
<code>presenter_affiliation</code>	affiliation of the presenter of the presentation; character string or NA (default).
<code>presenter_email</code>	email of the presenter of the presentation; character string or NA (default).

presenter_link	link to the webpage of the presenter of the presentation; character string or NA (default).
presenter_address	address of the presenter; character string or NA (default).
country	country where the presentation took place; character string or NA (default).
city	city where the presentation took place; character string or NA (default).
state	state where the presentation took place; character string or NA (default).
lon	longitude of the venue of the presentation; numeric or NA (default).
lat	latitude of the venue of the presentation; numeric or NA (default).
event	either NA (default) or a character string with the name of the event at which the presentation is/was given or an object of class <code>seminar_event</code> . In the latter case, all input to country, city, state, lon, lat, link, institution, department, school, venue, address, postcode is ignored and populated according to the supplied object.
title	title of the presentation; character string or NA (default).
abstract	abstract of the presentation; character string or NA (default).
type	the type of the talk. Available options are NA (default), "seminar", "webinar", "lecture", "presentation", "talk", "poster".
link	link to the event or seminar/talk page; character string or NA (default).
materials	link to the slides or materials from the seminar/talk; character string or NA (default).
institution	institution at which the event or seminar/talk page took/will take space; character string or NA (default).
department	department at which the event or seminar/talk page took/will take space; character string or NA (default).
school	school at which the event or seminar/talk page took/will take space; character string or NA (default).
venue	venue at which the event or seminar/talk page took/will take space; character string or NA (default).
address	address where the seminar/talk took place; character string or NA (default).
postcode	post code where the seminar/talk took place; character string or NA (default).
room	room at which the event or seminar/talk page took/will take space; character string or NA (default).
start	NA (default) or a character string to be parsed into a calendar date and time using <code>parsedate::parse_date()</code> . If the latter, start overrides any input in year, month, day, start_hour, start_min, start_sec
end	NA (default) or a character string to be parsed into a calendar date and time using <code>parsedate::parse_date()</code> . If the latter, end overrides any input in year, month, day, end_hour, end_min, end_sec.
year	year of the presentation; numeric, e.g. 2019, or NA (default).
month	month of the presentation; numeric (1-12) or NA (default).

day	day of the presentation; numeric (1-31) or NA (default).
start_hour	start hour of the presentation; numeric (1-24) or NA (default).
end_hour	end hour of the presentation; numeric (1-24) or NA (default).
start_min	start minute of the presentation; numeric (0-60) or NA (default).
end_min	end minute of the presentation; numeric (0-60) or NA (default).
start_sec	start second of the presentation; numeric (0-60) or NA (default).
end_sec	end second of the presentation; numeric (0-60) or NA (default).
tag	a tag for the presentation; character string or NA (default).
tz	timezone. Default is "UTC". See DateTimeClasses for details.

Details

If object is not specified then `add_presentation()` will create an `semnar` object based on the supplied inputs, otherwise it will add the details of the new presentation on object.

If the start date and end date are specified (either through `start` and `end` or through `year`, `month`, `day`) and no information is provided or can be inferred about start/end times, then a time of 0 hours, 0 minutes and 0 seconds is assumed.

An error is thrown if the start date/time is after the end date/time.

Value

A structured `data.frame()` that also inherits from class `semnar`, including the supplied presentation details.

See Also

`presenter()` `plot.semnar()` `shorten_url()` `guess_address()`

Examples

```
# Two of my past talks
```

```
out <- add_presentation(country = "England", city = "Coventry",
  lon = -1.560843, lat = 52.384019,
  event = "Young Researchers' Meeting",
  title = "A workflow that most probably isn't yours",
  link = "https://warwick.ac.uk/fac/sci/statistics/news/ymr/",
  materials = "https://ikosmidis.com/files/ikosmidis_YRM_2019.pdf",
  type = "presentation", institution = "University of Warwick",
  department = "Department of Statistics",
  venue = "Mathematical Sciences Building", room = "M1.02",
  year = 2019, month = 5, day = 28,
  start_hour = 16, start_min = 00,
  end_hour = 17, end_min = 00) |>
  add_presentation(country = "United States", city = "Stanford",
    lon = -122.165330, lat = 37.429464,
    event = "useR! 2016",
```

```

    title = "brglm: Reduced-bias inference in generalized linear models",
    link = "https://user2016.r-project.org//files/abs-book.pdf",
    materials = "https://bit.ly/2KCBbKg",
    type = "presentation", institution = NA, department = NA,
    venue = "Stanford Institute for Economic Policy Research",
    room = "Siepr 120",
    year = 2016, month = 06, day = 29,
    start_hour = 14, start_min = 15,
    end_hour = 14, end_min = 35)

```

out

event

Create a `seminar_event` object with event details

Description

Create a `seminar_event` object with event details

Usage

```

event(
  event = NA,
  country = NA,
  city = NA,
  state = NA,
  lon = NA,
  lat = NA,
  link = NA,
  institution = NA,
  department = NA,
  school = NA,
  venue = NA,
  address = NA,
  postcode = NA
)

```

Arguments

event	either NA (default) or a character string with the name of the event at which the presentation is/was given or an object of class <code>seminar_event</code> . In the latter case, all input to country, city, state, lon, lat, link, institution, department, school, venue, address, postcode is ignored and populated according to the supplied object.
country	country where the presentation took place; character string or NA (default).
city	city where the presentation took place; character string or NA (default).
state	state where the presentation took place; character string or NA (default).

lon	longitude of the venue of the presentation; numeric or NA (default).
lat	latitude of the venue of the presentation; numeric or NA (default).
link	link to the event or seminar/talk page; character string or NA (default).
institution	institution at which the event or seminar/talk page took/will take space; character string or NA (default).
department	department at which the event or seminar/talk page took/will take space; character string or NA (default).
school	school at which the event or seminar/talk page took/will take space; character string or NA (default).
venue	venue at which the event or seminar/talk page took/will take space; character string or NA (default).
address	address where the seminar/talk took place; character string or NA (default).
postcode	post code where the seminar/talk took place; character string or NA (default).

Value

A structured `data.frame()` that also inherits from class `semnar_event`, including the supplied event details.

See Also

`get_event()` `set_event()` `presenter()` `get_presenter()` `set_presenter()`

Examples

```
# A past talk of mine
IK_warwick <- presenter(name = "Ioannis",
                        surname = "Kosmidis",
                        affiliation = "University of Warwick",
                        link = "https://www.ikosmidis.com")

YRM <- event(event = "Young Researchers' Meeting",
             country = "England",
             city = "Coventry",
             state = "NA",
             lon = -1.560843, lat = 52.384019,
             link = "https://warwick.ac.uk/fac/sci/statistics/news/ymr/",
             institution = "University of Warwick",
             department = "Department of Statistics",
             school = NA,
             venue = "Mathematical Sciences Building",
             address = NA,
             postcode = NA)

out <- add_presentation(event = YRM,
                       presenter = IK_warwick,
                       title = "A workflow that most probably isn't yours",
                       type = "presentation",
                       start = "20190528 16:00", end = "20190528 17:00")
```

get_event.semnr	<i>Get event information from a semnr object</i>
-----------------	--

Description

Get event information from a [semnr](#) object

Usage

```
## S3 method for class 'semnr'  
get_event(object)  
  
get_event(object)
```

Arguments

object either an object an object of class [semnr](#).

Value

A list of [semnr_event](#) objects, with the unique presenters in the object.

See Also

[presenter\(\)](#) [set_presenter\(\)](#)

Examples

```
IK_warwick <- presenter(name = "Ioannis",  
                        surname = "Kosmidis",  
                        affiliation = "University of Warwick",  
                        link = "https://www.ikosmidis.com")  
  
YRM <- event(event = "Young Researchers' Meeting",  
             country = "England",  
             city = "Coventry",  
             state = "NA",  
             lon = -1.560843, lat = 52.384019,  
             link = "https://warwick.ac.uk/fac/sci/statistics/news/yrm/",  
             institution = "University of Warwick",  
             department = "Department of Statistics",  
             school = NA,  
             venue = "Mathemtical Sciences Building",  
             address = NA,  
             postcode = NA)  
  
out <- add_presentation(presenter = IK_warwick,  
                       event = "A",  
                       country = "Greece",
```



```

                                title = "S") |>
add_presentation(presenter = IK_warwick,
                 event = "B",
                 city = "London",
                 country = "UK",
                 title = "T") |>
add_presentation(presenter = IK_warwick,
                 event = YRM,
                 title = "U")
get_event(out)

```

get_presenter.semnar *Get presenter information from a [semnar](#) object*

Description

Get presenter information from a [semnar](#) object

Usage

```

## S3 method for class 'semnar'
get_presenter(object)

get_presenter(object)

```

Arguments

object either an object an object of class [semnar](#).

Value

A list of [semnar_presenter](#) objects, with the unique presenters in the object.

See Also

[presenter\(\)](#) [set_presenter\(\)](#)

Examples

```

out <- add_presentation(presenter_name = "Ioannis",
                       presenter_surname = "Kosmidis",
                       presenter_affiliation = "University of Warwick",
                       presenter_email = "ioannis.kosmidis@warwick.ac.uk",
                       title = "A") |>
add_presentation(presenter_name = "Ioannis",
                 presenter_surname = "Kosmidis",
                 presenter_affiliation = "University College London",
                 title = "B") |>
add_presentation(presenter_name = "Ioannis",

```

```

    presenter_surname = "Kosmidis",
    presenter_affiliation = "University College London",
    title = "C")
get_presenter(out)

```

guess_address.semnr	<i>Guess presentation address in a semnr object using OSM's API for reverse geocoding</i>
---------------------	---

Description

Guess presentation address in a [semnr](#) object using OSM's API for reverse geocoding

Usage

```

## S3 method for class 'semnr'
guess_address(object, all = FALSE)

guess_address(object, all = TRUE)

```

Arguments

object	an object of class semnr . See add_presentation() .
all	should we be guessing all addresses (TRUE) or only missing ones (FALSE; default)?

Details

[guess_address\(\)](#) is using reverse geocoding through the API at <https://nominatim.openstreetmap.org>. Please check at that link for requests limits.

Value

An object of class [semnr](#) with all (all = TRUE) or the missing presentation addresses (all = FALSE) completed.

See Also

[add_presentation](#)

Examples

```

out <- add_presentation(country = "England", city = "Coventry",
  lon = -1.560843, lat = 52.384019,
  event = "Young Researchers' Meeting",
  title = "A workflow that most probably isn't yours",
  link = "https://warwick.ac.uk/fac/sci/statistics/news/ym/",
  materials = "https://ikosmidis.com/files/ikosmidis_YRM_2019.pdf",
  type = "presentation", institution = "University of Warwick",

```

```

        department = "Department of Statistics",
        venue = "Mathematical Sciences Building", room = "M1.02",
        year = 2019, month = 5, day = 28,
        start_hour = 16, start_min = 00,
        end_hour = 17, end_min = 00) |>
add_presentation(country = "United States", city = "Stanford",
  lon = -122.165330, lat = 37.429464,
  event = "useR! 2016",
  title = "brglm: Reduced-bias inference in generalized linear models",
  link = "https://user2016.r-project.org//files/abs-book.pdf",
  materials = "https://bit.ly/2KCBbKg",
  type = "presentation", institution = NA, department = NA,
  venue = "Stanford Institute for Economic Policy Research",
  room = "Siepr 120",
  year = 2016, month = 06, day = 29,
  start_hour = 14, start_min = 15,
  end_hour = 14, end_min = 35)

out$address
# Reverse geocoding
out <- guess_address(out)
out$address

```

plot.semnar

Interactive [semnar](#) maps

Description

Interactive [semnar](#) maps

Usage

```

## S3 method for class 'semnar'
plot(
  x,
  group = "city",
  title = NA,
  title_position = "bottomleft",
  provider = "OpenStreetMap.Mapnik",
  interval = TRUE,
  date_format = "dmy",
  shorten_url = FALSE,
  service = "Is.gd",
  width = NULL,
  height = NULL,
  show_event_url = FALSE,
  opacity = 0.2,
  past_year_colour = "#737373",

```

```

    this_year_colour = "#ef3b2c",
    ...
  )

```

Arguments

x	an object of class <code>semnar</code> . See <code>add_presentation()</code> .
group	according to what should the seminars be selected on the map? Available options are "none", "year", "month", "presenter", "event", "country", "city" (default), "year+country".
title	character string for the title of the map. Default is NA, which produces no title.
title_position	the position of the title on the map, if title is not NA. Available options are "bottomleft" (default), "bottomright", "topleft", "topright".
provider	the provider of tiles for the base map. See <code>leaflet::addProviderTiles()</code> . Default is "OpenStreetMap.Mapnik".
interval	Should the start and end times in each popup be displayed as an interval (TRUE; default) or in two separate lines (FALSE)?
date_format	In what format should the dates be displayed? Available options are "dmy", "mdy", "ydm", "ymd", where "y" stands for year, "m" stands for month, and "d" stands for day.
shorten_url	Should the URL links in "object\$link" be shortened? Default is FALSE.
service	service to use for shortening URLs. Current options are "Is.gd" (default) and "V.gd". See <code>shorten_url()</code> .
width	As in <code>leaflet::leaflet()</code> . Default is NULL.
height	As in <code>leaflet::leaflet()</code> . Default is NULL.
show_event_url	Should the event or talk/seminar URL ("link" argument in <code>add_presentation()</code>) be printed in the popups (TRUE), or the event name ("event" argument in <code>add_presentation()</code>) become a hyperlink pointing to the event or talk/seminar URL (FALSE; default).
opacity	As in <code>leaflet::markerOptions()</code> . Default is 0.2.
past_year_colour	Colour to be used for past year's presentations. Default is "#ef3b2c". See Details.
this_year_colour	Colour to be used for this year's presentations. Default is "#737373". See Details.
...	Arguments to be passed to other methods. Currently unused.

Value

An interactive map (opens in browser) with the locations of the events. When the locations are clicked, pup-ups appear which give access to event details. A legend with the colour-year combination is printed only if `this_year_colour != past_year_colour`. The current year is determined by `lubridate::year(Sys.time())`.

See Also[add_presentation\(\)](#)**Examples**

```

out <- add_presentation(country = "England", city = "Coventry",
  lon = -1.560843, lat = 52.384019,
  event = "Young Researchers' Meeting",
  title = "A workflow that most probably isn't yours",
  link = "https://warwick.ac.uk/fac/sci/statistics/news/ymr/",
  materials = "https://ikosmidis.com/files/ikosmidis_YRM_2019.pdf",
  type = "presentation", institution = "University of Warwick",
  department = "Department of Statistics",
  venue = "Mathematical Sciences Building", room = "M1.02",
  year = 2019, month = 5, day = 28,
  start_hour = 16, start_min = 00,
  end_hour = 17, end_min = 00) |>
  add_presentation(country = "United States", city = "Stanford",
    lon = -122.165330, lat = 37.429464,
    event = "useR! 2016",
    title = "brglm: Reduced-bias inference in generalized linear models",
    link = "https://user2016.r-project.org//files/abs-book.pdf",
    materials = "https://bit.ly/2KCBbKg",
    type = "presentation", institution = NA, department = NA,
    venue = "Stanford Institute for Economic Policy Research",
    room = "Siepr 120",
    year = 2016, month = 06, day = 29,
    start_hour = 14, start_min = 15,
    end_hour = 14, end_min = 35)

if (interactive()) {
  plot(out, group = "city",
    title = "<a href='https://cran.r-project.org/package=semnar'>semnar</a> map")
}

```

presenter

*Create a semnar_presenter() object with presenter details***Description**Create a `semnar_presenter()` object with presenter details**Usage**

```

presenter(
  name = NA,
  midname = NA,
  surname = NA,
  affiliation = NA,
  link = NA,

```

```

    email = NA,
    address = NA
  )

```

Arguments

name	name of the presenter; character string or NA (default).
midname	middle name of the presenter; character string or NA (default).
surname	surname of the presenter; character string or NA (default).
affiliation	affiliation of the presenter; character string or NA (default).
link	link to the webpage of the presenter; character string or NA (default).
email	email of the presenter; character string or NA (default).
address	address of the presenter; character string or NA (default).

Value

A structured `data.frame()` that also inherits from class `seminar_presenter`, including the supplied presenter details.

See Also

`get_presenter` `set_presenter`

Examples

```

# A past talk of mine
ik_warwick <- presenter(name = "Ioannis", surname = "Kosmidis",
                        affiliation = "University of Warwick", link = "https://www.ikosmidis.com")
out <- add_presentation(country = "England", city = "Coventry",
                       lon = -1.560843, lat = 52.384019,
                       event = "Young Researchers' Meeting",
                       title = "A workflow that most probably isn't yours",
                       presenter = ik_warwick,
                       link = "https://warwick.ac.uk/fac/sci/statistics/news/yrm/",
                       type = "presentation", institution = "University of Warwick",
                       department = "Department of Statistics",
                       venue = "Mathematical Sciences Building", room = "M1.02",
                       year = 2019, month = 5, day = 28,
                       start_hour = 16, start_min = 00,
                       end_hour = 17, end_min = 00)

```

set_event.semnr	<i>Set event information in a semnr object</i>
-----------------	--

Description

Set event information in a [semnr](#) object

Usage

```
## S3 method for class 'semnr'
set_event(object, event)

set_event(object, event)
```

Arguments

object	either an object or an object of class semnr .
event	an object of class semnr_event .

Value

The [semnr](#) object supplied in object, with the event information as in event. See the output of `semnr::get_event_variables()` for what variables are affected.

See Also

[event\(\)](#) [get_event\(\)](#)

Examples

```
out <- add_presentation(presenter_name = "Ioannis",
  presenter_surname = "Kosmidis",
  presenter_affiliation = "University of Warwick",
  title = "A",
  country = "UK") |>
  add_presentation(presenter_name = "Ioannis",
  presenter_surname = "Kosmidis",
  presenter_affiliation = "University College London",
  title = "B") |>
  add_presentation(presenter_name = "Ioannis",
  presenter_surname = "Kosmidis",
  presenter_affiliation = "University College London",
  title = "C",
  country = "Greece", city = "Athens")
WA <- event("WA", "UK", "Lon", "Lon", NA, NA, NA, "British Library")

out
set_event(out, WA)
```

`set_presenter.semnr` *Set presenter information from a [semnr](#) object*

Description

Set presenter information from a [semnr](#) object

Usage

```
## S3 method for class 'semnr'
set_presenter(object, presenter)

set_presenter(object, presenter)
```

Arguments

`object` either an object an object of class [semnr](#).
`presenter` an object of class [semnr_presenter](#).

Value

The [semnr](#) object supplied in `object`, with the presenter information as in `presenter`. See the output of `semnr::get_presenter_variables()` for what variables are affected.

See Also

`presenter` `get_presenter`

Examples

```
out <- add_presentation(presenter_name = "Ioannis",
                       presenter_surname = "Kosmidis",
                       presenter_affiliation = "University of Warwick",
                       title = "A") |>
  add_presentation(presenter_name = "Ioannis",
                  presenter_surname = "Kosmidis",
                  presenter_affiliation = "University College London",
                  title = "B") |>
  add_presentation(presenter_name = "Ioannis",
                  presenter_surname = "Kosmidis",
                  presenter_affiliation = "University College London",
                  title = "C")
john_doe <- presenter(name = "John",
                     surname = "Doe",
                     affiliation = "Nowhereland",
                     link = "https://johndoe.nowhereland.com",
                     email = "john.doe@nowhereland.com")

out
set_presenter(out, john_doe)
```

shorten_url	<i>Shorten the URLs of any links in a seminar object</i>
-------------	--

Description

Shorten the URLs of any links in a [seminar](#) object

Usage

```
shorten_url(object, service = "V.gd")  
  
## S3 method for class 'seminar'  
shorten_url(object, service = "Is.gd")
```

Arguments

object	an object of class seminar . See add_presentation() .
service	service to use for shortening URLs. Current options are "V.gd" (default) and "Is.gd".

Value

An object of class [seminar](#) with any URLs in object\$link replace with shorter ones according to the value of service.

See Also

[add_presentation\(\)](#) [guess_address\(\)](#)

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