# Package: semnar (via r-universe)

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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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semnar-package

semnar: Methods and classes for constructing, maintaining and interacting with a database of presentations

# 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.semnar()
```

add\_presentation

Create or add to a semnar object

## **Description**

Create or add to a semnar 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**

object either an object an object of class semnar or unspecified (default). See Details.

presenter either NA (default) or an object of class semnar\_presenter. In the latter case, all input to the presenter\_\* arguments below is ignored and populated according to the supplied object.

presenter\_name name of the presenter of the presentation; character string or NA (default). presenter\_midname

middle name of the presenter of the presentation; character string or NA (default). presenter\_surname

surname of the presenter of the presentation; character string or NA (default).

presenter\_affiliation

affiliation of the presenter of the presentation; character string or NA (default).

presenter\_email

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).

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 semnar\_event. 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 (de-

fault).

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; char-

acter 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 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 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

parsedate::parse\_date(). 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 parsedate::parse\_date(). 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 $(0\text{-}60)$ or NA (default).
start_sec	start second of the presentation; numeric (0-60) or NA (default).
end_sec	end second of the presentation; numeric $(0\text{-}60)$ 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()
```

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```
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 semnar\_event object with event details

#### **Description**

Create a semnar\_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 semnar\_event. 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 where the presentation took place; character string or NA (default).

city

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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 where the seminar/talk took place; character string or NA (default). address 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()
```

```
# A past talk of mine
IK_warwick <- presenter(name = "Ioannis",</pre>
                        surname = "Kosmidis"
                        affiliation = "University of Warwick",
                        link = "https://www.ikosmidis.com")
YRM <- event(event = "Young Researchers' Meeting",</pre>
             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(event = YRM,</pre>
                         presenter = IK_warwick,
                         title = "A workflow that most probably isn't yours",
```

get\_event.semnar

```
type = "presentation",
start = "20190528 16:00", end = "20190528 17:00")
```

get\_event.semnar

Get event information from a semnar object

## **Description**

Get event information from a semnar object

## Usage

```
## $3 method for class 'semnar'
get_event(object)
get_event(object)
```

# Arguments

object

either an object an object of class semnar.

## Value

A list of semnar\_event objects, with the unique presenters in the object.

## See Also

```
presenter() set_presenter()
```

```
IK_warwick <- presenter(name = "Ioannis",</pre>
                        surname = "Kosmidis",
                        affiliation = "University of Warwick",
                       link = "https://www.ikosmidis.com")
YRM <- event(event = "Young Researchers' Meeting",</pre>
             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)
```

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get\_presenter.semnar

Get presenter information from a semnar object

## **Description**

Get presenter information from a semnar object

# Usage

```
## $3 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()
```

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guess\_address.semnar

Guess presentation address in a semnar object using OSM's API for reverse geocoding

# **Description**

Guess presentation address in a semnar object using OSM's API for reverse geocoding

#### **Usage**

```
## $3 method for class 'semnar'
guess_address(object, all = FALSE)
guess_address(object, all = TRUE)
```

## **Arguments**

object an object of class semnar. 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 semnar with all (all = TRUE) or the missing presentation addresses (all = FALSE) completed.

#### See Also

```
add_presentation
```

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## **Examples**

```
out <- add_presentation(country = "England", city = "Coventry",</pre>
                        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/yrm/",
                       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$address
# Reverse geocoding
out <- guess_address(out)</pre>
out$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,
```

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```
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**

an object of class semnar. See add\_presentation(). Х group according to what should the semnars 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 leaflet::addProviderTiles(). Default is "OpenStreetMap.Mapnik". Should the start and end times in each popup be displayed as an interval (TRUE; interval 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. Should the URL links in "object\$link" be shortened? Default is FALSE. shorten\_url service to use for shortening URLs. Current options are "Is.gd" (default) and service "V.gd". See shorten\_url(). width As in leaflet::leaflet(). Default is NULL. As in leaflet::leaflet(). Default is NULL. height show\_event\_url Should the event or talk/seminar URL ("link" argument in add\_presentation()) be printed in the popups (TRUE), or the event name ("event" argument in add\_presentation()) become a hyperlink pointing to the event or talk/seminar URL (FALSE; default). As in leaflet::markerOptions(). Default is 0.2. opacity past\_year\_colour Colour to be used for past year's presentations. Default is "#ef3b2c". See 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.

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#### 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",</pre>
                        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/yrm/",
                       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

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## 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 of the presenter; character string or NA (default).

#### Value

A structured data. frame() that also inherits from class semnar\_presenter, including the supplied presenter details.

#### See Also

```
get_presenter set_presenter
```

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set\_event.semnar

Set event information in a semnar object

## **Description**

Set event information in a semnar object

## Usage

```
## $3 method for class 'semnar'
set_event(object, event)
set_event(object, event)
```

## **Arguments**

object either an object of class semnar.

event an object of class semnar\_event.

#### Value

The semnar object supplied in object, with the event information as in event. See the output of semnar:::get\_event\_variables() for what variables are affected.

## See Also

```
event() get_event()
```

```
out <- add_presentation(presenter_name = "Ioannis",</pre>
                        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)
```

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```
set_presenter.semnar Set presenter information from a semnar object
```

## **Description**

Set presenter information from a semnar object

## Usage

```
## $3 method for class 'semnar'
set_presenter(object, presenter)
set_presenter(object, presenter)
```

## **Arguments**

```
object either an object an object of class semnar.

presenter an object of class semnar_presenter.
```

## Value

The semnar object supplied in object, with the presenter information as in presenter. See the output of semnar:::get\_presenter\_variables() for what variables are affected.

## See Also

presenter get\_presenter

```
out <- add_presentation(presenter_name = "Ioannis",</pre>
                        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",</pre>
                      surname = "Doe",
                      affiliation = "Nowhereland",
                      link = "https://johndoe.nowhereland.com",
                      email = "john.doe@nowhereland.com")
out
set_presenter(out, john_doe)
```

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shorten\_url

Shorten the URLs of any links in a semnar object

# Description

Shorten the URLs of any links in a semnar object

# Usage

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

# Arguments

object an object of class semnar. See add\_presentation().

service service to use for shortening URLs. Current options are "V.gd" (default) and

"Is.gd".

## Value

An object of class semnar 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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