Package ‘semnar’

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Title Constructing and Interacting with Databases of Presentations

Version 0.7.1

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).

License GPL-3

Encoding UTF-8

LazyData true

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**Description**

**seminar**: Methods and classes for constructing, maintaining and interacting with a database of presentations.

**See Also**

`add_presentation`, `presenter`, `plot.seminar`

---

**add_presentation**

Create or add to a `seminar` object.

**Description**

Create or add to a `seminar` object.

**Usage**

```r
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, 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 `seminar` or unspecified (default). See Details.
- `presenter`: either NA (default) or an object of class `seminar_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).
add_presentation

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).

lat
  latitude of the venue of the presentation; numeric or NA (default).

event
  name of the event at which the presentation is/was given; character string or NA (default).

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", "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).

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).
add_presentation

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.

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

library("magrittr")
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/yrn/",
  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 = -122.165338, lat = 37.429464,
  event = "userR! 2016",
  title = "brglm: Reduced-bias inference in generalized linear models",
  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
**get_presenter.semnar**

Get presenter information from a `semnar` object

### Description

Get presenter information from a `semnar` object

### Usage

```r
## S3 method for class 'semnar'
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

```r
library("magrittr")
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")
get_presenter(out)
```
guess_address семинар

**Description**

Guess presentation address in a семинар object using OSM’s API for reverse geocoding

**Usage**

```r
# S3 method for class 'seminar'
guess_address(object, all = FALSE)
guess_address(object, all = TRUE)
```

**Arguments**

- `object` an object of class семинар. 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](https://nominatim.openstreetmap.org). Please check at that link for requests limits.

**Value**

An object of class семинар with all (`all = TRUE`) or the missing presentation addresses (`all = FALSE`) completed.

**See Also**

- `add_presentation`

**Examples**

```r
library("magrittr")
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/yrn/",
  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,
venue = "userR 2016",
title = "brglm: Reduced-bias inference in generalized linear models",
materials = "https://bit.ly/2KCBbKg",
type = "presentation", institution = NA, department = NA,
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.seminar

Interactive seminar maps

Description

Interactive seminar maps

Usage

## S3 method for class 'seminar'
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 seminar. See add_presentation.

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 addProviderTiles. 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", "ymd", "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 shorten_url.

width

As in leaflet. Default is NULL.

height

As in leaflet. Default is NULL.

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).

opacity

As in markerOptions. 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.

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

library("magrittr")
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/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,
presenter

```r
end_hour = 17, end_min = 00) %>
add_presentation(country = "United States", city = "Stanford",
lon = -122.165330, lat = 37.429464,
event = "userR! 2016",
title = "brglm: Reduced-bias inference in generalized linear models",
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 seminar_presenter object with presenter details*

**Description**

Create a seminar_presenter object with presenter details

**Usage**

```r
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 = "http://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)

Description

Set presenter information from a semnar object

Usage

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

Arguments

- object: either an object an object of class "semnar".
- presenter: an object of class "semnar_presenter"

Value

A list of semnar object, with the presenter information as in presenter.

See Also

presenter get_presenter
shorten_url

Examples

```r
library("magrittr")
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 = "http://johndoe.nowhereland.com",
email = "johndoe@nowhereland.com")

out
set_presenter(out, john_doe)
```

shorten_url

Shorten the URLs of any links in a seminar object

Description

Shorten the URLs of any links in a seminar object

Usage

```r
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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