

Package ‘mapboxer’

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Title An R Interface to 'Mapbox GL JS'

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Description Makes 'Mapbox GL JS' <<https://docs.mapbox.com/mapbox-gl-js/api/>>, an open source JavaScript library that uses WebGL to render interactive maps, available within R via the 'htmlwidgets' package. Visualizations can be used from the R console, in R Markdown documents and in Shiny apps.

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Depends R (>= 2.10)

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LazyData true

RoxygenNote 6.1.1

Suggests knitr, rmarkdown, shiny

VignetteBuilder knitr

URL <https://github.com/crazycapivara/mapboxer>

BugReports <https://github.com/crazycapivara/mapboxer/issues>

NeedsCompilation no

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add_circle_layer	<i>Add a circle layer to the map</i>
------------------	--------------------------------------

Description

Add a circle layer to the map

Usage

```
add_circle_layer(map, source = NULL, filter = NULL,
  circle_blur = NULL, circle_color = NULL, circle_opacity = NULL,
  circle_pitch_alignment = NULL, circle_pitch_scale = NULL,
  circle_radius = NULL, circle_sort_key = NULL,
  circle_stroke_color = NULL, circle_stroke_opacity = NULL,
  circle_stroke_width = NULL, circle_translate = NULL,
  circle_translate_anchor = NULL, visibility = TRUE, popup = NULL,
  id = "circle-layer")
```

Arguments

map	A mapboxer object.
source	A Mapbox source. Uses the source from the mapboxer object if no source is supplied.
filter	A filter expression that is applied to the source.
circle_blur	(paint) Amount to blur the circle. 1 blurs the circle such that only the centerpoint is full opacity.
circle_color	(paint) The fill color of the circle.
circle_opacity	(paint) The opacity at which the circle will be drawn.
circle_pitch_alignment	(paint) Orientation of circle when map is pitched. One of "map", "viewport".
circle_pitch_scale	(paint) Controls the scaling behavior of the circle when the map is pitched. One of "map", "viewport".
circle_radius	(paint) The radius of the circle.
circle_sort_key	(layout) Sorts features in ascending order based on this value. Features with a higher sort key will appear above features with a lower sort key.
circle_stroke_color	(paint) The stroke color of the circle.
circle_stroke_opacity	(paint) The opacity of the circle's stroke.
circle_stroke_width	(paint) The width of the circle's stroke. Strokes are placed outside of the circle_radius.
circle_translate	(paint) The geometry's offset. Values are [x, y] where negatives indicate left and up, respectively.
circle_translate_anchor	(paint) Controls the frame of reference for circle_translate. One of "map", "viewport".
visibility	(layout) Whether the layer should be displayed.
popup	A mustache template in which the tags refer to the properties of the layer's data object.
id	The unique id of the layer.

See Also

<https://docs.mapbox.com/mapbox-gl-js/style-spec/layers/#circle>

Examples

```
map <- as_mapbox_source(motor_vehicle_collisions_nyc) %>%
  mapboxer() %>%
  set_view_state(-73.9165, 40.7114, 11) %>%
```

```

add_circle_layer(
  circle_color = "red",
  circle_radius = 5,
  popup = "{{date}} {{time}}"
)

if (interactive()) map

```

add_control

Add a standard control to the map

Description

Add a standard control to the map

Usage

```
add_control(map, control_name, ..., pos = NULL)
```

```
add_navigation_control(map, ..., pos = NULL)
```

```
add_scale_control(map, ..., pos = NULL)
```

```
add_fullscreen_control(map, pos = NULL)
```

Arguments

map	A mapboxer object.
control_name	The (class) name of the control.
...	The options of the control.
pos	The position of the control. One of top-left, top-right, bottom-right or bottom-left.

See Also

<https://docs.mapbox.com/mapbox-gl-js/api/markers/> for available options for the used control.

Examples

```

map <- mapboxer() %>%
  add_navigation_control(
    pos = "top-left",
    showCompass = FALSE
  ) %>%
  add_fullscreen_control() %>%
  add_scale_control(
    unit = "nautical"
  )

```

```

    )
    if (interactive()) map

```

add_draw_control *Add a draw control to the map (experimental)*

Description

Add a draw control to the map (experimental)

Usage

```
add_draw_control(map, ..., pos = NULL, data = NULL)
```

Arguments

map	A mapboxer object.
...	The options of the control.
pos	The position of the control. One of top-left, top-right, bottom-right or bottom-left.
data	A GeoJSON or sf object.

See Also

<https://github.com/mapbox/mapbox-gl-draw/blob/main/docs/API.md> for available options for the draw control.

add_fill_layer *Add a fill layer to the map*

Description

Add a fill layer to the map

Usage

```

add_fill_layer(map, source = NULL, filter = NULL,
  fill_antialias = TRUE, fill_color = NULL, fill_opacity = NULL,
  fill_outline_color = NULL, fill_pattern = NULL,
  fill_sort_key = NULL, fill_translate = NULL,
  fill_translate_anchor = NULL, visibility = TRUE, popup = NULL,
  id = "fill-layer")

```

Arguments

map	A mapboxer object.
source	A Mapbox source. Uses the source from the mapboxer object if no source is supplied.
filter	A filter expression that is applied to the source.
fill_antialias	(paint) Whether or not the fill should be antialiased.
fill_color	(paint) The color of the filled part of this layer. This color can be specified as rgba with an alpha component and the color's opacity will not affect the opacity of the 1px stroke, if it is used.
fill_opacity	(paint) The opacity of the entire fill layer. In contrast to the <code>fill_color</code> , this value will also affect the 1px stroke around the fill, if the stroke is used.
fill_outline_color	(paint) The outline color of the fill. Matches the value of <code>fill_color</code> if unspecified.
fill_pattern	(paint) Name of image in sprite to use for drawing image fills.
fill_sort_key	(layout) Sorts features in ascending order based on this value. Features with a higher sort key will appear above features with a lower sort key.
fill_translate	(paint) The geometry's offset. Values are [x, y] where negatives indicate left and up, respectively.
fill_translate_anchor	(paint) Controls the frame of reference for <code>fill_translate</code> . One of "map", "viewport".
visibility	(layout) Whether the layer should be displayed.
popup	A mustache template in which the tags refer to the properties of the layer's data object.
id	The unique id of the layer.

See Also

<https://docs.mapbox.com/mapbox-gl-js/style-spec/layers/#fill>

Examples

```
map <- as_mapbox_source(geojsonsf::geo_melbourne) %>%
  mapboxer() %>%
  set_view_state(
    lng = 144.9624,
    lat = -37.8105,
    zoom = 10,
    pitch = 35
  ) %>%
  add_fill_layer(
    fill_color = c("get", "fillColor"),
    fill_opacity = 0.6,
    popup = "Area: {{AREASQKM}} km<sup>2</sup>",
    # AREASQKM > 5
```

```

    filter = list(">", c("get", "AREASQKM"), 5)
  )

  if (interactive()) map

```

add_filter_control *Add a filter control to the map*

Description

Add a filter control to the map

Usage

```

add_filter_control(map, layer_id, filter = NULL, pos = NULL,
  rows = 1, cols = 20)

```

Arguments

map	A mapboxer object.
layer_id	The ID of the layer to which the filter is attached.
filter	The initial filter expression.
pos	The position of the control. One of top-left, top-right, bottom-right or bottom-left.
rows	The number of rows of the textarea input.
cols	The number of columns of the textarea input.

add_layer *Add a layer to the map*

Description

Adds any kind of layer to the map. The type of the layer is specified by the `type` property of the layer definition.

Usage

```

add_layer(map, style, popup = NULL)

```

Arguments

map	A mapboxer object.
style	A named list that defines the style of the layer. See https://docs.mapbox.com/mapbox-gl-js/style-spec/layers/ for available style options for the used layer type.
popup	A mustache template in which the tags refer to the properties of the layer's data object.

See Also

[add_popups](#) for an example of a mustache template used to generate the popup text.

Examples

```
image_src <- mapbox_source(  
  type = "image",  
  url = "https://docs.mapbox.com/mapbox-gl-js/assets/radar.gif",  
  coordinates = list(  
    c(-80.425, 46.437),  
    c(-71.516, 46.437),  
    c(-71.516, 37.936),  
    c(-80.425, 37.936)  
  )  
)  
  
raster_style <- list(  
  id = "overlay",  
  type = "raster",  
  source = image_src,  
  paint = list(  
    "raster-opacity" = 0.85  
  )  
)  
  
map <- mapboxer(  
  center = c(-75.789, 41.874),  
  zoom = 5  
) %>%  
  add_layer(raster_style)  
  
if (interactive()) map
```

add_line_layer

Add a line layer to the map

Description

Add a line layer to the map

Usage

```
add_line_layer(map, source = NULL, filter = NULL, line_blur = NULL,  
  line_cap = NULL, line_color = NULL, line_dasharray = NULL,  
  line_gap_width = NULL, line_gradient = NULL, line_join = NULL,  
  line_miter_limit = NULL, line_offset = NULL, line_opacity = NULL,  
  line_pattern = NULL, line_round_limit = NULL, line_sort_key = NULL,  
  line_translate = NULL, line_translate_anchor = NULL,  
  line_width = NULL, visibility = NULL, popup = NULL,  
  id = "line-layer")
```


Arguments

map	A mapboxer object.
source	A Mapbox source. Uses the source from the mapboxer object if no source is supplied.
filter	A filter expression that is applied to the source.
line_blur	(paint) Blur applied to the line, in pixels.
line_cap	(layout) The display of line endings. One of "butt", "round", "square".
line_color	(paint) The color with which the line will be drawn.
line_dasharray	(paint) Specifies the lengths of the alternating dashes and gaps that form the dash pattern.
line_gap_width	(paint) Draws a line casing outside of a line's actual path. The value indicates the width of the inner gap.
line_gradient	(paint) Defines a gradient with which to color a line feature. Can only be used with GeoJSON sources that specify <code>lineMetrics = TRUE</code> .
line_join	(layout) The display of lines when joining. One of "bevel", "round", "miter".
line_miter_limit	(layout) Used to automatically convert miter joins to bevel joins for sharp angles. Requires <code>line_join</code> to be "miter".
line_offset	(paint) The line's offset. For linear features, a positive value offsets the line to the right, relative to the direction of the line, and a negative value to the left. For polygon features, a positive value results in an inset, and a negative value results in an outset.
line_opacity	(paint) The opacity at which the line will be drawn.
line_pattern	(paint) Name of image in sprite to use for drawing image lines.
line_round_limit	(layout) Used to automatically convert round joins to miter joins for shallow angles.
line_sort_key	(layout) Sorts features in ascending order based on this value. Features with a higher sort key will appear above features with a lower sort key.
line_translate	(paint) The geometry's offset. Values are [x, y] where negatives indicate left and up, respectively.
line_translate_anchor	(paint) Controls the frame of reference for <code>line_translate</code> .
line_width	(paint) Stroke thickness.
visibility	(layout) Whether the layer should be displayed.
popup	A mustache template in which the tags refer to the properties of the layer's data object.
id	The unique id of the layer.

See Also

<https://docs.mapbox.com/mapbox-gl-js/style-spec/layers/#line>

Examples

```
map <- as_mapbox_source(geojsonsf::geo_melbourne) %>%
  mapboxer(
    center = c(144.9624, -37.8105),
    zoom = 11,
    pitch = 45
  ) %>%
  add_navigation_control() %>%
  add_line_layer(
    line_color = c("get", "strokeColor"),
    line_width = 2,
    popup = "{{SA2_NAME}}"
  )

if (interactive()) map
```

add_marker

Add a single marker to the map

Description

Add a single marker to the map

Usage

```
add_marker(map, lng, lat, popup = NULL)
```

Arguments

map	A mapboxer object.
lng	The longitude of the marker.
lat	The latitude of the marker.
popup	The popup text (HTML) that is displayed when you click on the marker.

Examples

```
lng <- -0.09
lat <- 51.5

map <- mapboxer() %>%
  set_view_state(lng, lat) %>%
  add_marker(lng, lat, popup = "You are here!")

if (interactive()) map
```

`add_mouse_position_control`*Add a mouse position control to the map*

Description

Add a mouse position control to the map

Usage

```
add_mouse_position_control(map, mustache_template = NULL, pos = NULL,
  css_text = NULL)
```

Arguments

<code>map</code>	A mapboxer object.
<code>mustache_template</code>	A mustache template that contains the mustache tags lng and lat.
<code>pos</code>	The position of the control. One of top-left, top-right, bottom-right or bottom-left.
<code>css_text</code>	A <code>cssText</code> string that will modify the style of the control element.

Examples

```
map <- mapboxer(zoom = 4) %>%
  add_mouse_position_control(
    mustache_template = "<b>Lng:</b>{{lng}}, <b>Lat:</b>{{lat}}",
    pos = "bottom-left"
  )

if (interactive()) map
```

`add_popups`*Add popups to a layer*

Description

Usually you will add the popups in the [add_layer](#) function by setting the popup parameter.

Usage

```
add_popups(map, layer_id, popup)
```

Arguments

map	A mapboxer object.
layer_id	The ID of the layer to which you want to add the popups.
popup	A mustache template in which the tags refer to the properties of the layer's data object.

Examples

```
LAYER_ID <- "crashes"

mustache_tpl <- "
  <b>Date:</b> {{date}}</br>
  <b>Time:</b> {{time}}</br>
  <b>Number of persons injured:</b> {{injured}}
"

map <- motor_vehicle_collisions_nyc %>%
  as_mapbox_source() %>%
  mapboxer(
    center = c(-73.9165, 40.7114),
    zoom = 9
  ) %>%
  add_circle_layer(
    circle_color = "red",
    circle_blur = 1,
    filter = list(">", "injured", 0),
    id = LAYER_ID
  ) %>%
  add_popups(
    LAYER_ID,
    popup = mustache_tpl
  )

if (interactive()) map
```

`add_source`*Add a Mapbox source to the map*

Description

Add a Mapbox source to the map

Usage

```
add_source(map, source, id = "mapboxer")
```

Arguments

map	A mapboxer object.
source	A Mapbox source.
id	The unique id of the data source.

add_text_control *Add a text control to the map*

Description

Add a text control to the map

Usage

```
add_text_control(map, text, pos = NULL, css_text = NULL)
```

Arguments

map	A mapboxer object.
text	The text (HTML) that is displayed.
pos	The position of the control. One of top-left, top-right, bottom-right or bottom-left.
css_text	A <code>cssText</code> string that will modify the style of the control element.

add_tooltips *Add tooltips to a layer*

Description

Add tooltips to a layer

Usage

```
add_tooltips(map, layer_id, tooltip)
```

Arguments

map	A mapboxer object.
layer_id	The ID of the layer to which you want to add the tooltips.
tooltip	A mustache template in which the tags refer to the properties of the layer's data object.

as_mapbox_source	<i>Convert a data object to a Mapbox GeoJSON source</i>
------------------	---

Description

Convert a data object to a Mapbox GeoJSON source

Usage

```
as_mapbox_source(data, ...)

## S3 method for class 'json'
as_mapbox_source(data, ...)

## S3 method for class 'data.frame'
as_mapbox_source(data, lng = "lng", lat = "lat",
  ...)

## S3 method for class 'sf'
as_mapbox_source(data, ...)
```

Arguments

data	A data frame that contains longitudes and latitudes in separate columns or an sf-object.
...	The properties of the source. See https://docs.mapbox.com/mapbox-gl-js/style-spec/sources for available options for the given source type.
lng	The name of the column containing the longitudes.
lat	The name of the column containing the latitudes.

basemaps	<i>A list of basemap style URLs</i>
----------	-------------------------------------

Description

A list of basemap style URLs

Usage

```
basemaps
```

Format

An object of class `list` of length 2.

basemap_background_style
Create a background style

Description

Creates a background style that can be used as basemap.

Usage

```
basemap_background_style(color = "#111", opacity = 1)
```

Arguments

color	The color of the background.
opacity	The opacity of the background.

basemap_raster_style *Create a raster style*

Description

Creates a raster style that can be used as a basemap.

Usage

```
basemap_raster_style(tiles = stamen_raster_tiles("terrain"),  
  attribution = NULL)
```

Arguments

tiles	A list of tile URLs.
attribution	The attribution text of the tile layer.

fit_bounds	<i>Fit the map to a bounding box</i>
------------	--------------------------------------

Description

Fit the map to a bounding box

Usage

```
fit_bounds(map, bounds, ...)
```

Arguments

map	A mapboxer object.
bounds	The bounding box as a vector in [west, south, east, north] order or a bbox object.
...	Optional arguments, see https://docs.mapbox.com/mapbox-gl-js/api/map/#map#fitbounds .

mapboxer	<i>Create a mapboxer widget</i>
----------	---------------------------------

Description

Create a mapboxer widget

Usage

```
mapboxer(source = NULL, style = basemaps$Carto$dark_matter, ...,
  width = NULL, height = NULL, element_id = NULL,
  token = Sys.getenv("MAPBOX_API_TOKEN"))
```

Arguments

source	A mapbox_source that is added to the map with the ID MAPBOXER.
style	The map's Mapbox style.
...	The properties of the map, see https://docs.mapbox.com/mapbox-gl-js/api/map/ .
width	The width of the widget.
height	The height of the widget.
element_id	The unique ID of the widget.
token	A Mapbox API access token. Only needed if you want to use styles from Mapbox.

Examples

```
map <- mapboxer(
  center = c(-73.9165, 40.7114),
  zoom = 10,
  minZoom = 6,
  pitch = 30,
  bearing = 45
)

if (interactive()) map
```

mapboxer-shiny

Shiny bindings for mapboxer

Description

Output and render functions for using mapboxer within Shiny applications and interactive Rmd documents.

Usage

```
mapboxerOutput(outputId, width = "100%", height = "400px")

renderMapboxer(expr, env = parent.frame(), quoted = FALSE)
```

Arguments

outputId	output variable to read from
width, height	Must be a valid CSS unit (like '100%', '400px', 'auto') or a number, which will be coerced to a string and have 'px' appended.
expr	An expression that generates a mapboxer
env	The environment in which to evaluate expr.
quoted	Is expr a quoted expression (with quote())? This is useful if you want to save an expression in a variable.

Examples

```
library(shiny)
library(mapboxer)

LAYER_ID <- "mvc"

view <- basicPage(
  h1("mapboxer"),
  sliderInput(
    "slider",
    "Number of persons injured",
```

```

    min = 0,
    max = max(motor_vehicle_collisions_nyc$injured),
    step = 1,
    value = 0
  ),
  checkboxInput("hide", "Hide layer"),
  mapboxerOutput("map"),
  htmlOutput("datetime")
)

server <- function(input, output) {
  output$map <- renderMapboxer({
    as_mapbox_source(motor_vehicle_collisions_nyc) %>%
    mapboxer(
      center = c(-73.9165, 40.7114),
      zoom = 10,
      style = basemap_raster_style(stamen_raster_tiles())
    ) %>%
    add_circle_layer(
      circle_color = "black",
      popup = "Number of persons injured {{injured}}",
      id = LAYER_ID
    ) %>%
    add_mouse_position_control(
      "Lng: {{lng}}<br>Lat: {{lat}}",
      css_text = "text-align: left; width: 180px;"
    ) %>%
    add_navigation_control(pos = "top-left")
  })

  observeEvent(input$slider, {
    mapboxer_proxy("map") %>%
    set_filter(LAYER_ID, list("==", "injured", input$slider)) %>%
    update_mapboxer()
  })

  observeEvent(input$hide, {
    mapboxer_proxy("map") %>%
    set_layout_property(LAYER_ID, "visibility", !input$hide) %>%
    update_mapboxer()
  })

  output$datetime <- renderText({
    props <- input$map_onclick$props
    sprintf("<p>%s %s</p>", props$date, props$time)
  })
}

if (interactive()) shinyApp(view, server)

```

Description

Create a [mapboxer](#)-like object that can be used to update a mapboxer object that has already been rendered in a Shiny app.

Usage

```
mapboxer_proxy(shiny_id, session = shiny::getDefaultReactiveDomain())
```

Arguments

`shiny_id` The output ID of the mapboxer object that should be updated.

`session` The current Shiny session object. Usually the default value can be used.

See Also

[update_mapboxer](#)

mapbox_source	<i>Create a Mapbox source</i>
---------------	-------------------------------

Description

Create a Mapbox source

Usage

```
mapbox_source(type, ...)
```

Arguments

`type` The type of the source, e. g. geojson.

`...` The properties of the source. See <https://docs.mapbox.com/mapbox-gl-js/style-spec/sources> for available options for the given source type.

motor_vehicle_collisions_nyc
Motor Vehicle Collisions in NYC

Description

Motor Vehicle Collisions in NYC

Usage

```
motor_vehicle_collisions_nyc
```

Format

A data frame with 1601 rows and 6 variables, where each row is a Motor Vehicle Collision:

date occurrence date of collision

time occurrence time of collision

lng latitude coordinate for Global Coordinate System, WGS 1984, decimal degrees (EPSG 4326)

lat longitude coordinate for Global Coordinate System, WGS 1984, decimal degrees (EPSG 4326)

injured number of persons injured

killed number of persons killed

Source

<https://opendata.cityofnewyork.us/>

set_data *Update the data of a Mapbox source*

Description

Update the data of a Mapbox source

Usage

```
set_data(map, data, source_id = NULL, ...)
```

```
## S3 method for class 'character'  
set_data(map, data, source_id = NULL, ...)
```

```
## S3 method for class 'json'  
set_data(map, data, source_id = NULL, ...)
```

```
## S3 method for class 'data.frame'
set_data(map, data, source_id = NULL, lng = "lng",
  lat = "lat", ...)

## S3 method for class 'sf'
set_data(map, data, source_id, ...)
```

Arguments

map	A mapboxer_proxy object.
data	A GeoJSON object, an url pointing to an external GeoJSON document, a data frame that contains longitudes and latitudes in separate columns or an sf-object.
source_id	The ID of the source whose data should be updated.
...	unused
lng	The name of the column containing the longitudes.
lat	The name of the column containing the latitudes.

See Also

- [df_geojson](#)
- [sf_geojson](#)

set_filter

Set the filter of a layer

Description

Set the filter of a layer

Usage

```
set_filter(map, layer_id, filter)
```

Arguments

map	A mapboxer object.
layer_id	The ID of the layer whose property should be updated.
filter	A filter expression that is applied to the source.

set_layer_properties *Update layer properties*

Description

Update layer properties

Usage

```
set_paint_property(map, layer_id, property, value)
```

```
set_layout_property(map, layer_id, property, value)
```

Arguments

map	A mapboxer object.
layer_id	The ID of the layer whose property should be updated.
property	The name of the property that should be updated.
value	The new value of the property.

Functions

- set_paint_property: Update a paint property of a layer.
- set_layout_property: Update a layout property of a layer.

set_style *Set the style of the map*

Description

Set the style of the map

Usage

```
set_style(map, style)
```

Arguments

map	A mapboxer object.
style	The map's Mapbox style.

set_view_state	<i>Set the view state of the map</i>
----------------	--------------------------------------

Description

Set the view state of the map

Usage

```
set_view_state(map, lng, lat, zoom = 9, pitch = 0, bearing = 0)
```

Arguments

map	A mapboxer object.
lng	The longitude of the geographical center point of the map.
lat	The latitude of the geographical center point of the map.
zoom	The zoom level of the map.
pitch	The pitch (tilt) of the map.
bearing	The bearing (rotation) of the map.

stamen_raster_tiles	<i>Get Stamen raster tile URLs</i>
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Description

Get Stamen raster tile URLs

Usage

```
stamen_raster_tiles(theme = c("watercolor"))
```

Arguments

theme	The theme of the tiles.
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update_mapboxer	<i>Update a mapboxer proxy object in a Shiny app</i>
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Description

Update a mapboxer proxy object in a Shiny app

Usage

```
update_mapboxer(proxy_obj, ...)
```

Arguments

proxy_obj	A mapboxer_proxy object.
...	unused

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