

Package ‘ggmapinset’

December 18, 2024

Type Package

Title Add Inset Panels to Maps

Version 0.4.0

Description Helper to add insets based on `geom_sf()` from 'ggplot2'.

This package gives you a drop-in replacement for `geom_sf()` that supports adding a zoomed inset map without having to create and embed a separate plot.

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Encoding UTF-8

Language en-GB

RoxygenNote 7.3.2

Depends R (>= 3.6), sf (>= 1.0)

Imports cli (>= 3.4.0), ggplot2 (>= 3.4.0), lifecycle, rlang (>= 1.0.0), vctrs (>= 0.6.5)

Suggests dplyr, forcats, ggrepel, knitr, nswgeo, purrr, rmarkdown, stringr, tibble, tidyr,

VignetteBuilder knitr

URL <https://github.com/cidm-ph/ggmapinset>,

<https://cidm-ph.github.io/ggmapinset/>

BugReports <https://github.com/cidm-ph/ggmapinset/issues>

LazyData true

NeedsCompilation no

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Repository CRAN

Date/Publication 2024-12-18 06:40:02 UTC

Contents

ggmapinset-package	2
build_sf_inset_layers	3
configure_inset	4
coord_sf_inset	6
geom_inset_frame	7
geom_sf_inset	8
geom_sf_text_inset	10
get_inset_config	13
mozzies_nsw2301	14
shape_circle	15
shape_rectangle	16
shape_sf	17
transform_to_inset	18
Index	20

ggmapinset-package *Add Inset Panels to Maps*

Description

This package helps with making zoomed map insets. See [geom_sf_inset\(\)](#).

Author(s)

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See Also

Useful links:

- <https://github.com/cidm-ph/ggmapinset>
- <https://cidm-ph.github.io/ggmapinset/>
- Report bugs at <https://github.com/cidm-ph/ggmapinset/issues>

build_sf_inset_layers *Build layers to implement an inset-compatible geometry*

Description

For plotting, use `geom_sf_inset()` instead. This helper is intended to be used when implementing custom geometries based on `geom_sf_inset()` so that they can provide parameters to control the inset.

Usage

```
build_sf_inset_layers(  
  data,  
  mapping,  
  stat,  
  position,  
  show.legend,  
  inherit.aes,  
  params,  
  inset,  
  map_base = "normal",  
  map_inset = "auto"  
)
```

Arguments

data, mapping, stat, position, show.legend, inherit.aes, params	See <code>ggplot2::layer()</code> .
inset	Inset configuration; see <code>configure_inset()</code> . If NA (the default), this is inherited from the coord (see <code>coord_sf_inset()</code>).
map_base	Controls the layer with the base map. Possible values are "normal" to create a layer as though the inset were not specified, "clip" to create a layer with the inset viewport cut out, and "none" to prevent the insertion of a layer for the base map.
map_inset	Controls the layer with the inset map. Possible values are "auto" to choose the behaviour based on whether inset is specified, "normal" to create a layer with the viewport cut out and transformed, and "none" to prevent the insertion of a layer for the viewport map.

Value

A ggplot layer, or a pair of layers.

Examples

```
my_custom_geom <- function(  
  mapping = ggplot2::aes(),  
  data = NULL,  
  stat = "my_custom_stat",  
  position = "identity",  
  ...,  
  inset = NA,  
  map_base = "normal",  
  map_inset = "auto",  
  na.rm = TRUE,  
  inherit.aes = TRUE  
) {  
  params <- rlang::list2(na.rm = na.rm, ...)  
  build_sf_inset_layers(  
    data = data, mapping = mapping,  
    stat = stat, position = position,  
    show.legend = show.legend,  
    inherit.aes = inherit.aes,  
    params = params,  
    inset = inset,  
    map_base = map_base,  
    map_inset = map_inset  
  )  
}
```

configure_inset

Configure transformations underpinning a map inset

Description

The configuration returned by this function will often be passed to the coordinate system via `coord_sf_inset()` so that it is propagated to all relevant layers.

Usage

```
configure_inset(  
  shape,  
  scale = NULL,  
  translation = NULL,  
  units = "km",  
  crs_working = NULL,  
  centre = deprecated(),  
  radius = deprecated()  
)
```

Arguments

shape	Inset shape: see shape_circle() , shape_rectangle() , or shape_sf() .
scale	Zoom scale: values larger than one will make the inset bigger.
translation	Translation (shift) of the inset relative to the centre. This can be an <code>sf::st_point()</code> or simply a vector of length 2 containing the x and y offsets respectively. Units are specified by <code>crs_working</code> .
units	Base length unit (e.g. "km" or "mi"). Ignored if <code>crs_working</code> is provided. See Details for supported values.
crs_working	The coordinate reference system to use internally when applying the transformations. See Details.
centre, radius	[Deprecated] Use <code>shape = shape_circle(centre, radius)</code> instead.

Details

The default `crs_working` uses the equidistant cylindrical coordinate reference system with the latitude of true scale set to match the latitude of centre. This ensures that circular insets will appear circular in most cases since the projection is not distorted near the centre. The geometries are converted to this CRS for the inset transformation and constructing the inset frame, and are converted back to the CRS of centre at the end.

The default units are kilometres but can be changed with `units` instead of specifying the whole projection. The possible values for `units` are **those understood by proj**:

- "mm": millimetre
- "cm": centimetre
- "m": metre
- "ft": foot
- "us-ft": US survey foot
- "fath": fathom
- "kmi": nautical mile
- "us-ch": US survey chain
- "us-mi": US survey mile
- "km": kilometre
- "ind-ft": Indian foot (1937)
- "ind-yd": Indian yard (1937)
- "mi": Statute mile
- "yd": yard
- "ch": chain
- "link": link
- "dm": decimeter
- "in": inch
- "ind-ch": Indian chain
- "us-in": US survey inch
- "us-yd": US survey yard

Value

An inset configuration object of class `inset_config`.

Examples

```
library(sf)

# circular inset with a 2x enlargement
cfg <- configure_inset(
  shape_circle(centre = c(-82, 35), radius = 50),
  scale = 2,
  translation = c(70, -180),
  units = "mi"
)
```

coord_sf_inset	<i>Specify an inset configuration for the whole plot</i>
----------------	--

Description

This allows a default inset configuration to be provided to avoid having to repeat it for each layer. Any layer that is inset-aware can use this as the default configuration if none is specifically provided to that layer. This coord also expands the axis limits to include the inset area.

Usage

```
coord_sf_inset(inset, ...)
```

Arguments

<code>inset</code>	Inset configuration; see configure_inset() .
<code>...</code>	Arguments passed to <code>ggplot2::coord_sf()</code>

Value

A ggplot coordinate object to be added to a plot.

See Also

[geom_sf_inset\(\)](#)

Examples

```
library(ggplot2)

nc <- sf::st_read(system.file("shape/nc.shp", package = "sf"), quiet = TRUE)

ggplot(nc) +
  geom_sf_inset(aes(fill = AREA)) +
  geom_inset_frame() +
  coord_sf_inset(inset = configure_inset(
    centre = sf::st_sfc(sf::st_point(c(-80, 35.5)), crs = 4326),
    scale = 1.5, translation = c(-50, -140), radius = 50, units = "mi"))
```

<code>geom_inset_frame</code>	<i>Add a frame and burst lines for an inset</i>
-------------------------------	---

Description

The frame is computed from the inset configuration, so any data passed to this layer is ignored. The frame is an sf object consisting of three features: the source area, the target area (a scaled and translated version of the source area), and the connecting/burst lines.

Usage

```
geom_inset_frame(
  mapping = ggplot2::aes(),
  data = NULL,
  stat = "sf_inset",
  position = "identity",
  ...,
  inset = NA,
  na.rm = FALSE,
  source.aes = list(),
  target.aes = list(),
  lines.aes = list(),
  show.legend = NA,
  inherit.aes = FALSE
)
```

Arguments

`mapping`, `data`, `stat`, `position`, `na.rm`, `show.legend`, `inherit.aes`, ...
 See [ggplot2::geom_sf\(\)](#).

`inset` Inset configuration; see [configure_inset\(\)](#). If NA (the default), this is inherited from the coord (see [coord_sf_inset\(\)](#)).

`source.aes`, `target.aes`, `lines.aes`
 Override the aesthetics of the inset source, target, and lines respectively. The value should be a list named by the aesthetics, and the values should be scalars of length one.

Details

Burst lines for circular insets are bitangents (tangent to both the source and target circles) or absent if the circles are nested. Burst lines for rectangular insets are the shortest line from each corner of the source rectangle to any corner of the target rectangle, after excluding any such lines that intersect either rectangle or each other. When the burst lines are absent due to geometrical constraints, there will still be a corresponding (empty) feature in the frame layer's data.

Value

A ggplot layer holding the inset frame.

Limitation

The frame cannot be drawn without another sf layer that contains data due to a limitation of the ggplot layout evaluation. Attempting to plot a frame by itself will result in the error: "Scale limits cannot be mapped onto spatial coordinates in coord_sf()".

Examples

```
library(ggplot2)

nc <- sf::st_read(system.file("shape/nc.shp", package = "sf"), quiet = TRUE)

ggplot(nc) +
  geom_sf_inset() +
  geom_inset_frame(
    source.aes = list(fill = "red", alpha = 0.2, linewidth = 0),
    target.aes = list(colour = "blue"),
    lines.aes = list(linetype = 2, linewidth = 2)
  ) +
  coord_sf_inset(inset = configure_inset(
    shape_circle(centre = c(-82, 35), radius = 50),
    scale = 5, translation = c(0, -260), units = "mi"
  ))
```

geom_sf_inset

Visualise sf objects with insets

Description

These geoms are wrappers around `ggplot2::geom_sf()` and its relatives that assist with creating map insets. In many cases all that is needed is to use `coord_sf_inset()` with `configure_inset()` to configure the location and transformation of the inset, and then replace the sf-related geoms with their `_inset` counterparts. Use `geom_inset_frame()` to add a frame around the inset that connects it to the main map.

Usage

```
geom_sf_inset(
  mapping = ggplot2::aes(),
  data = NULL,
  stat = "sf_inset",
  position = "identity",
  ...,
  inset = NA,
  map_base = "normal",
  map_inset = "auto",
  na.rm = TRUE,
  show.legend = NA,
  inherit.aes = TRUE
)

stat_sf_inset(
  mapping = ggplot2::aes(),
  data = NULL,
  geom = "sf_inset",
  position = "identity",
  ...,
  inset = NA,
  na.rm = TRUE,
  show.legend = NA,
  inherit.aes = TRUE
)
```

Arguments

mapping, data, stat, geom, position, na.rm, show.legend, inherit.aes, ...
 See [ggplot2::geom_sf\(\)](#).

inset Inset configuration; see [configure_inset\(\)](#). If NA (the default), this is inherited from the coord (see [coord_sf_inset\(\)](#)).

map_base Controls the layer with the base map. Possible values are "normal" to create a layer as though the inset were not specified, "clip" to create a layer with the inset viewport cut out, and "none" to prevent the insertion of a layer for the base map.

map_inset Controls the layer with the inset map. Possible values are "auto" to choose the behaviour based on whether inset is specified, "normal" to create a layer with the viewport cut out and transformed, and "none" to prevent the insertion of a layer for the viewport map.

Details

Internally this works by creating two layers: one for the base map, and one for the inset. These can be separately controlled by the map_base and map_inset parameters. If inset is not specified, this geom will instead behave like [ggplot2::geom_sf\(\)](#).

When an inset is configured, the default creates both base and inset layers using the same aesthetic mapping and params:

```
geom_sf_inset(...)
```

You can alternatively specify the two layers separately:

```
# draw the base map only (both versions are equivalent):
geom_sf(...)
geom_sf_inset(..., map_inset = "none")
```

```
# separately, draw the inset map only:
geom_sf_inset(..., map_base = "none")
```

`stat_sf_inset()` works the same `ggplot2::stat_sf()` except that it also expands the axis limits to account for the inset area.

Value

A ggplot layer similar to `ggplot2::geom_sf()` but transformed according to the inset configuration.

Examples

```
library(ggplot2)

nc <- sf::st_read(system.file("shape/nc.shp", package = "sf"), quiet = TRUE)

ggplot(nc) +
  geom_sf_inset(aes(fill = AREA)) +
  geom_inset_frame() +
  coord_sf_inset(figure_inset(
    shape_circle(
      centre = sf::st_sfc(sf::st_point(c(-80, 35.5))), crs = sf::st_crs(nc)),
      radius = 50
    ),
    scale = 1.5, translation = c(-50, -140), units = "mi"
  ))
```

geom_sf_text_inset *Extract coordinates from 'sf' objects (inset-aware)*

Description

Reduce spatial data to coordinates in the same way as `stat_sf_coordinates()`. The result can then be used by `geom_sf()` or `geom_sf_inset()` or any geom that needs x and y aesthetics. As this is particularly useful for text, wrappers are provided for `geom_text()` and `geom_label()`.

Usage

```
geom_sf_text_inset(  
  mapping = aes(),  
  data = NULL,  
  stat = "sf_coordinates_inset",  
  position = "identity",  
  ...,  
  where = "inset",  
  parse = FALSE,  
  check_overlap = FALSE,  
  na.rm = FALSE,  
  show.legend = NA,  
  inherit.aes = TRUE,  
  fun.geometry = NULL  
)
```

```
geom_sf_label_inset(  
  mapping = aes(),  
  data = NULL,  
  stat = "sf_coordinates_inset",  
  position = "identity",  
  ...,  
  where = "inset",  
  parse = FALSE,  
  na.rm = FALSE,  
  show.legend = NA,  
  inherit.aes = TRUE,  
  fun.geometry = NULL  
)
```

```
stat_sf_coordinates_inset(  
  mapping = ggplot2::aes(),  
  data = NULL,  
  geom = "point",  
  position = "identity",  
  ...,  
  inset = NA,  
  fun.geometry = NULL,  
  where = "inset",  
  na.rm = TRUE,  
  show.legend = NA,  
  inherit.aes = TRUE  
)
```

Arguments

mapping, data, geom, position, na.rm, show.legend, inherit.aes, fun.geometry, ...
 See [ggplot2::stat_sf_coordinates\(\)](#).

stat, parse, check_overlap
 See [ggplot2::geom_sf_text\(\)](#).

where Specifies how the text position interacts with the inset. "inset" means that any points in the inset area are drawn on the inset map, "base" puts them on the base map. This setting is merely a shorthand for setting the position aesthetics to `after_stat(x_inset)` or `after_stat(x)` respectively, so will have no effect if these are specified in the mapping.

inset Inset configuration; see [configure_inset\(\)](#). If NA (the default), this is inherited from the coord (see [coord_sf_inset\(\)](#)).

Value

A plot layer

Required aesthetics

geometry The sf geometry column containing spatial features

Computed variables

x X dimension of the simple feature

y Y dimension of the simple feature

x_inset X dimension of the simple feature after inset transformation

y_inset Y dimension of the simple feature after inset transformation

inside_inset logical indicating points inside the inset viewport

inset_scale 1 for points outside the inset, otherwise the configured inset scale parameter

Examples

```
library(ggplot2)

nc <- sf::st_read(system.file("shape/nc.shp", package = "sf"), quiet = TRUE)

ggplot(nc) +
  geom_sf_inset() +
  geom_inset_frame() +
  geom_sf_text(
    aes(x = after_stat(x_inset), y = after_stat(y_inset), label = NAME),
    stat = "sf_coordinates_inset") +
  coord_sf_inset(configure_inset(
    shape_circle(
      centre = sf::st_sfc(sf::st_point(c(-80, 35.5))), crs = 4326),
      radius = 50
    ),
  ),
```

```
    scale = 1.5, translation = c(-50, -140), units = "mi"
  ))
```

get_inset_config	<i>Get the inset configuration from the params or coord</i>
------------------	---

Description

This is a helper for implementing inset-aware ggplot layers. If the `inset` is missing (NA) then the default inset configuration is retrieved from the `coord`.

Usage

```
get_inset_config(inset, coord)
```

Arguments

<code>inset</code>	Inset passed in as a param to the layer
<code>coord</code>	Coord object for the plot

Value

Inset configuration or NULL

Examples

```
# defining a new geom deriving from geom_sf()
GeomCustom <- ggplot2::ggproto("GeomCustom", ggplot2::GeomSf,
  draw_panel = function(self, data, panel_params, coord, inset = NA) {
    inset <- get_inset_config(inset, coord)

    # do something with the inset ...

    # note that this example doesn't pass on the remaining geom_sf params but
    # in real usage you would probably want to do that
    ggplot2::ggproto_parent(ggplot2::GeomSf, self)$draw_panel(data, panel_params, coord)
  },
)
```

`mozzies_nsw2301`*Mosquito counts from NSW Arbovirus Surveillance program*

Description

This dataset is derived from the [NSW Arbovirus Surveillance and Mosquito Monitoring program](#). The program monitors mosquito-borne diseases in the state of New South Wales, Australia. A number of mosquito traps are managed by the program during the spring to autumn months when mosquitoes are active.

Usage

`mozzies_nsw2301`

Format

Data frame with the following fields:

location Location of the mosquito trap

week_ending Date of the end of the week of observation

species Mosquito species counted, or "total" for the total count

count Binned mosquito abundance

type Category of the site

lat Latitude of trap in WGS 84 coordinates

long Longitude of trap in WGS 84 coordinates

Details

Each week traps are collected and the mosquito species are identified and counted. This is analysed alongside climate conditions, and arbovirus detections in the traps to inform public health management of human disease risk from arboviruses in NSW. This dataset includes the mosquito abundance tables for January 2023. Additional context and analysis can be found in the original report published by NSW Health.

The trap locations are classified as inland or coastal (since the species found will depend on the environmental conditions). A separate group of sites are labelled as being in the Sydney region (i.e. with the highest human population density).

The counts are binned with the following definition:

NA No observation

low < 50

medium 50 - 100

high 101 - 1,000

very high 1,001 - 10,000

extreme > 10,000

Source

Surveillance and Risk Unit, Environmental Health Branch, Health Protection NSW, NSW Health. "NSW Arbovirus Surveillance and Mosquito Monitoring 2022-2023; Weekly Update: Week ending 25 February 2023 (Report Number 19)" <https://www.health.nsw.gov.au/environment/pests/vector/Publications/nswasp-weekly-report-2023-02-25.pdf>, accessed 15 January 2024.

The original dataset is published under the [Creative Commons Attribution 4.0](#) licence © State of New South Wales NSW Ministry of Health 2023.

shape_circle	<i>Circular insets</i>
--------------	------------------------

Description

Circular insets

Usage

```
shape_circle(centre, radius)
```

Arguments

centre	Coordinates of the inset centre. Ideally this should be an <code>sfc</code> object (see <code>sf::st_sfc()</code>) including a coordinate reference system. An <code>sf::st_point()</code> or a vector of longitude and latitude are also accepted. If a CRS cannot be determined, WGS 84 is assumed.
radius	Radius of the inset circle in the units of the inset's <code>crs_working</code> .

Value

A shape definition suitable for use with `configure_inset()`.

See Also

`configure_inset()`

Other shapes: `shape_rectangle()`, `shape_sf()`

Examples

```
library(ggplot2)
nc <- sf::st_read(system.file("shape/nc.shp", package = "sf"), quiet = TRUE)
make_demo <- function(...) {
  ggplot(nc) +
    geom_sf(fill = "grey95", colour = "grey85") +
    # For a filled frame, we want to interleave it between the base layer
    # (above this line) and the target layer (below the following line).
    geom_inset_frame(target.aes = list(fill = "white")) +
```

```

    geom_sf_inset(map_base = "none") +
    coord_sf_inset(inset = configure_inset(...)) +
    theme_void()
}
circle <- shape_circle(sf::st_centroid(nc[21,]), radius = 50)

make_demo(circle, scale = 3, translation = c(-200, -200))
make_demo(circle, scale = 3, translation = c(-100, -100))
make_demo(circle, scale = 3, translation = c(0, 0))
make_demo(circle, scale = 0.5, translation = c(0, 0))

```

shape_rectangle	<i>Rectangular insets</i>
-----------------	---------------------------

Description

Rectangular insets

Usage

```
shape_rectangle(centre, hwidth, hheight = NULL)
```

Arguments

centre	Coordinates of the inset centre. Ideally this should be an <code>sfc</code> object (see <code>sf::st_sfc()</code>) including a coordinate reference system. An <code>sf::st_point()</code> or a vector of longitude and latitude are also accepted. If a CRS cannot be determined, WGS 84 is assumed.
hwidth	Half width of the inset in the units of the inset's <code>crs_working</code> .
hheight	Half height of the inset in the units of the inset's <code>crs_working</code> . Defaults to the same value as <code>hwidth</code> .

Value

A shape definition suitable for use with `configure_inset()`.

See Also

`configure_inset()`

Other shapes: `shape_circle()`, `shape_sf()`

Examples

```

library(ggplot2)
nc <- sf::st_read(system.file("shape/nc.shp", package = "sf"), quiet = TRUE)
make_demo <- function(...) {
  ggplot(nc) +
    geom_sf(fill = "grey95", colour = "grey85") +
    # For a filled frame, we want to interleave it between the base layer
    # (above this line) and the target layer (below the following line).
    geom_inset_frame(target.aes = list(fill = "white")) +
    geom_sf_inset(map_base = "none") +
    coord_sf_inset(inset = configure_inset(...)) +
    theme_void()
}
rectangle <- shape_rectangle(sf::st_centroid(nc[21,]), hwidth = 50, hheight = 40)

make_demo(rectangle, scale = 3, translation = c(-300, 0))
make_demo(rectangle, scale = 3, translation = c(-250, -200))
make_demo(rectangle, scale = 3, translation = c(-150, -100))
make_demo(rectangle, scale = 3, translation = c(0, 0))
make_demo(rectangle, scale = 0.5, translation = c(0, 0))

```

shape_sf

Arbitrary geometry as insets

Description

You can use any polygon to define the shape of the inset, including a feature from your base map layer.

Usage

```
shape_sf(geometry)
```

Arguments

geometry	A simple features geometry that is either a polygon or multipolygon, and is valid and simple.
----------	---

Value

A shape definition suitable for use with [configure_inset\(\)](#).

See Also

[configure_inset\(\)](#)

Other shapes: [shape_circle\(\)](#), [shape_rectangle\(\)](#)

Examples

```

library(ggplot2)
nc <- sf::st_read(system.file("shape/nc.shp", package = "sf"), quiet = TRUE)
make_demo <- function(...) {
  ggplot(nc) +
    geom_sf(fill = "grey95", colour = "grey85") +
    # For a filled frame, we want to interleave it between the base layer
    # (above this line) and the target layer (below the following line).
    geom_inset_frame(target.aes = list(fill = "white")) +
    geom_sf_inset(map_base = "none", colour = NA) +
    coord_sf_inset(inset = configure_inset(...)) +
    theme_void()
}
shape <- shape_sf(nc[21,])

make_demo(shape, scale = 6, translation = c(-200, -200))
make_demo(shape, scale = 6, translation = c(-100, -100))
make_demo(shape, scale = 6, translation = c(100, 100))
make_demo(shape, scale = 0.5, translation = c(0, 0))

```

transform_to_inset *Transform coordinates according to inset configuration*

Description

This helper operates on an sf object to scale and translate its geometry according to the inset specification.

Usage

```
transform_to_inset(x, inset)
```

Arguments

x Spatial data frame or other sf object; see `sf::st_geometry()`.
inset Inset configuration; see `configure_inset()`.

Value

A copy of x with the geometry replaced by the transformed version.

Examples

```

library(sf)

nc <- sf::st_read(system.file("shape/nc.shp", package = "sf"), quiet = TRUE)
cfg <- configure_inset(
  centre = st_sfc(st_point(c(-82, 35))), crs = 4326),
  scale = 2,

```

```
translation = c(10, -60),  
radius = 50,  
units = "mi")  
  
transform_to_inset(nc, cfg)
```

Index

- * **datasets**
 - geom_sf_inset, 8
 - geom_sf_text_inset, 10
 - mozzies_nsw2301, 14
- * **shapes**
 - shape_circle, 15
 - shape_rectangle, 16
 - shape_sf, 17
- build_sf_inset_layers, 3
- configure_inset, 4
- configure_inset(), 3, 6–9, 12, 15–18
- coord_sf_inset, 6
- coord_sf_inset(), 3, 4, 7–9, 12
- geom_inset_frame, 7
- geom_inset_frame(), 8
- geom_label(), 10
- geom_sf(), 10
- geom_sf_inset, 8
- geom_sf_inset(), 2, 3, 6, 10
- geom_sf_label_inset
 - (geom_sf_text_inset), 10
- geom_sf_text_inset, 10
- geom_text(), 10
- GeomSfInset (geom_sf_inset), 8
- get_inset_config, 13
- ggmapinset (ggmapinset-package), 2
- ggmapinset-package, 2
- ggplot2::coord_sf(), 6
- ggplot2::geom_sf(), 7–10
- ggplot2::geom_sf_text(), 12
- ggplot2::layer(), 3
- ggplot2::stat_sf(), 10
- ggplot2::stat_sf_coordinates(), 12
- mozzies_nsw2301, 14
- sf::st_geometry(), 18
- sf::st_point(), 15, 16
- sf::st_sfc(), 15, 16
- shape_circle, 15, 16, 17
- shape_circle(), 5
- shape_rectangle, 15, 16, 17
- shape_rectangle(), 5
- shape_sf, 15, 16, 17
- shape_sf(), 5
- stat_sf_coordinates(), 10
- stat_sf_coordinates_inset
 - (geom_sf_text_inset), 10
- stat_sf_inset (geom_sf_inset), 8
- StatSfCoordinatesInset
 - (geom_sf_text_inset), 10
- StatSfInset (geom_sf_inset), 8
- transform_to_inset, 18