

# Package: choroplethr (via r-universe)

May 28, 2026

**Title** Create Color-Coded Choropleth Maps in R

**Description** Easily create color-coded (choropleth) maps in R. No knowledge of cartography or shapefiles needed; go directly from your geographically identified data to a highly customizable map with a single line of code! Supported geographies: U.S. states, counties, census tracts, and zip codes, world countries and sub-country regions (e.g., provinces, prefectures, etc.).

**Version** 5.0.1

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**URL** <<https://github.com/eastnile/choroplethr>>

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**Imports** Hmisc, stringr, ggplot2 (>= 2.0.0), dplyr, R6, ggrepel, tigris (>= 1.0), sf, tidycensus

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**Depends** R (>= 3.5.0)

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---

admin1.map	<i>An sf containing geometry data for sub-country regions</i>
------------	---------------------------------------------------------------

---

### Description

An sf containing geometry data for sub-country regions

### Usage

```
data(admin1.map)
```

**References**

Data obtained using `rnaturalearth`

---

admin1.regions	<i>Supported world sub-country regions with lookup data in multiple languages</i>
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---

**Description**

This dataset contains feature names for world sub-country regions in many languages and formats, and can be used to join your data to the identifiers accepted by the `choropleth_admin1()` function. For feature names in even more languages, please see `rnaturalearth::ne_states()`.

**Usage**

```
data(admin1.regions)
```

**References**

Data obtained using `rnaturalearth`

---

admin1_choropleth	<i>Create a choropleth map using regional data at the sub-country level</i>
-------------------	-----------------------------------------------------------------------------

---

**Description**

This function can be used to plot regional data at the first sub-level of administration (ie., state, province, prefecture, etc.) for one or more countries. Use `choropleth::admin1_regions` to help you coerce your region names into the required format; see below for an example with Japanese data.

**Usage**

```
admin1_choropleth(
  df,
  geoid.name = "region",
  geoid.type = "auto",
  value.name = "value",
  num_colors = 7,
  color.max = NULL,
  color.min = NULL,
  na.color = "grey",
  custom.colors = NULL,
  nbreaks = 5,
  zoom = NULL,
  country_zoom = NULL,
```

```

projection = "cartesian",
limits_lat = NULL,
limits_lon = NULL,
reproject = TRUE,
whitespace = TRUE,
border_color = "grey15",
border_thickness = 0.2,
background_color = "white",
gridlines = FALSE,
latlon_ticks = FALSE,
label = NULL,
label_text_size = 3,
label_text_color = "black",
label_box_color = "white",
ggrepel_options = NULL,
legend = NULL,
legend_position = "right",
title = NULL,
return = "plot"
)

```

### Arguments

df	A dataframe containing regional data at the sub-country level for one or more countries.
geoid.name	The variable that identifies each administrative region
geoid.type	How the variable given by geoid.name specifies each region. The allowed geoid.type are given by the columns "adm1_code", "diss_me", "ne_id" in choroplethr::admin1_regions; use this dataframe to match the names of your regions to an allowed GEOID. If "auto", the function will try to automatically determine geoid.type.
value.name	The name of the variable you wish to plot.
num_colors	The number of colors you want in your graph when plotting continuous data. If num_colors > 1, the variable in question will be divided into quantiles and converted into a factor with that many levels. If num_colors = 1, a continuous color gradient will be used; if num_colors = 0, a diverging color gradient will be used (useful for visualizing negative and positive numbers). Use color.max and color.min to control the range of colors displayed. num_colors is ignored when plotting categorical data.
color.max	The color of the highest value in your data. Ignored if the plotted variable is categorical.
color.min	The color of the lowest value in your data. Ignored if the plotted variable is categorical.
na.color	The color you want to assign for regions with missing data
custom.colors	A vector of valid R color terms of the to use for the map when plotting factor variables. The length of this vector must match the number of levels in your factor variable, or num_colors for a continuous variable that will be discretized

	by the function, and the order should match the order of the levels in your factor variable.
nbreaks	The number of breaks you wish to show in the legend when using a continuous color scale. Ignored if num_colors > 1.
zoom	An optional vector of regions to zoom in on, written in the same manner as geoid.name.
country_zoom	An optional vector of countries to zoom in on, written as they appear in the "adm0_a3" column of choroplethr::admin1_regions.
projection	One of the following: "cartesian", "mercator", "robinson", or "albers", for the equirectangular, Mercator, Robinson, and Albers Equal Area projections, respectively. When using the Mercator projection for world maps, setting limits_lon is recommended to prevent exaggeration of the size of Antarctica.
limits_lat	A length two vector giving the minimum and maximum latitude you wish to include in your map.
limits_lon	A length two vector giving the minimum and maximum longitude you wish to include in your map.
reproject	If TRUE, the map will be cropped and centered prior to applying the projection. This will generally result in a better figure when using the Robinson and Albers, but may lead to countries near the edge of the map being occluded.
whitespace	Add some blank space to the sides of your map? For some projections, this must be set to FALSE in order for lat/lon ticks and display correctly.
border_color	The color of the borders on your map
border_thickness	The thickness of the borders on your map
background_color	The background color of your map
gridlines	Should gridlines appear on your map?
latlon_ticks	Should lat/lon tick marks appear on the edge of your map?
label	The name of variable you wish to use to label your map; must be one of the variables that appears in the spatial dataframe just prior plotting (use return = 'sf' to see this dataframe), and in general, can be any of the allowed geoid.type. This function uses ggplot2::geom_label_repel to create the labels and ensure that they do not overlap.
label_text_size	The size of the text that will appear in each label
label_text_color	The color of the text that will appear in each label
label_box_color	The color of the box around each label
ggrepel_options	A list containing additional arguments to be passed to geom_label_repel (see ?ggplot2::geom_label_repel)
legend	A title for your legend; if NULL, value.name will be used.

legend_position	The position of your legend relative to the rest of the map; can be "top", "bottom", "left", or "right".
title	A title for your plot; if NULL, no title will be added.
return	If "plot", the function will return the requested map as a ggplot object. If "sf", the function will return the spatial dataframe used to draw the map (useful if you wish to customize the map yourself).

## Examples

```
library(dplyr)
# Our Japanese data is at the prefecture level, with names in English lower
# case. We match our data to one of the geoids ("adm1_code", "diss_me", or
# "ne_id" ) in choroplethr::admin1.regions.

admin1_lookup = choroplethr::admin1.regions
head(admin1_lookup)
# The "name_en" variable is very close to how the prefectures are named in
# our data.
admin1_lookup = admin1_lookup[admin1_lookup$admin == 'Japan',
                             c('adm1_code', 'name_en')]
admin1_lookup$name_lower = tolower(admin1_lookup$name_en)
# Remove accent marks
admin1_lookup$name_lower = iconv(admin1_lookup$name_lower,
                                 from = "UTF-8", to = "ASCII//TRANSLIT")
admin1_lookup$name_lower = gsub(pattern = ' prefecture', replacement = '',
                                x = admin1_lookup$name_lower)
# We join with lookup after making name_en resemble our data.
data_prepped = left_join(df_japan_census,
                        admin1_lookup[, c('adm1_code', 'name_lower')],
                        by = join_by(region == name_lower))
admin1_choropleth(data_prepped, geoid.name = 'adm1_code',
                  value.name = 'pop_2010',
                  country_zoom = 'JPN', num_colors = 4) # Create the map
```

---

Choropleth

*The base Choropleth object.*

---

## Description

The base Choropleth object.

The base Choropleth object.

## Methods

### Public methods:

- [Choropleth\\$new\(\)](#)

- `Choropleth$set_zoom()`
- `Choropleth$get_ggscale()`
- `Choropleth$get_projection()`
- `Choropleth$render()`
- `Choropleth$clone()`

**Method new():**

*Usage:*

```
Choropleth$new(  
  ref.regions,  
  ref.regions.name,  
  map.df,  
  geoid.all,  
  user.df,  
  geoid.name,  
  geoid.type,  
  value.name,  
  num_colors,  
  label_col  
)
```

**Method set\_zoom():**

*Usage:*

```
Choropleth$set_zoom(zoom)
```

**Method get\_ggscale():**

*Usage:*

```
Choropleth$get_ggscale(  
  choropleth.df = self$choropleth.df,  
  respect_zoom = TRUE,  
  custom.colors,  
  color.min,  
  color.max,  
  na.color,  
  nbreaks  
)
```

**Method get\_projection():**

*Usage:*

```
Choropleth$get_projection(  
  choropleth.df = self$choropleth.df,  
  respect_zoom = TRUE,  
  projection_name,  
  ignore_latlon,  
  limits_lat,  
  limits_lon,  
  reproject,
```

```
    whitespace  
  )
```

**Method** render():*Usage:*

```
Choropleth$render(  
  choropleth.df = self$choropleth.df,  
  ggsscale,  
  projection,  
  respect_zoom = TRUE,  
  occlude_latlon_limits,  
  border_color,  
  border_thickness,  
  background_color,  
  gridlines,  
  latlon_ticks,  
  label,  
  label_text_size,  
  label_text_color,  
  label_box_color,  
  ggrepel_options,  
  legend,  
  legend_position,  
  title,  
  addl_gglayer  
)
```

**Method** clone(): The objects of this class are cloneable with this method.*Usage:*

```
Choropleth$clone(deep = FALSE)
```

*Arguments:*

deep Whether to make a deep clone.

---

country.map

*An sf containing geometry data for countries of the world*

---

**Description**

An sf containing geometry data for countries of the world

**Usage**

```
data(country.map)
```

## References

Data obtained using the `ne_countries` function from `rnatuarearth`;  
<https://github.com/ropensci/rnatuarearth>,  
<https://www.naturalearthdata.com/>

---

country.regions	<i>Supported countries along with lookup data in multiple languages</i>
-----------------	-------------------------------------------------------------------------

---

## Description

Supported countries along with lookup data in multiple languages

## Usage

```
data(country.regions)
```

---

country_choropleth	<i>Create a choropleth map using country-level data</i>
--------------------	---------------------------------------------------------

---

## Description

See `choroplethr::country.regions` for an object which can help you coerce your country names into the required format; the allowed geoid for this function are columns `name.proper`, `name.lower`, `iso_a3`, and `iso_a2` which appear at the beginning of this object.

## Usage

```
country_choropleth(  
  df,  
  geoid.name = "region",  
  geoid.type = "auto",  
  value.name = "value",  
  num_colors = 7,  
  color.max = NULL,  
  color.min = NULL,  
  na.color = "grey",  
  custom.colors = NULL,  
  nbreaks = 5,  
  zoom = NULL,  
  continent_zoom = NULL,  
  projection = "cartesian",  
  limits_lat = NULL,  
  limits_lon = NULL,  
  reproject = TRUE,  
  border_color = "grey15",
```

```

border_thickness = 0.2,
background_color = "white",
gridlines = FALSE,
latlon_ticks = FALSE,
whitespace = TRUE,
label = NULL,
label_text_size = 3,
label_text_color = "black",
label_box_color = "white",
ggrepel_options = NULL,
legend = NULL,
legend_position = "right",
title = NULL,
return = "plot"
)

```

### Arguments

<code>df</code>	A dataframe containing country level data
<code>geoid.name</code>	The variable that identifies each country
<code>geoid.type</code>	How the variable given by <code>geoid.name</code> specifies each country. The allowed <code>geoid.type</code> are given by the columns <code>name.proper</code> , <code>name.lower</code> , <code>iso_a3</code> , and <code>iso_a2</code> in <code>choroplethr::country.regions</code> . If "auto", the function will try to automatically determine <code>geoid.type</code> .
<code>value.name</code>	The name of the variable you wish to plot.
<code>num_colors</code>	The number of colors you want in your graph when plotting continuous data. If <code>num_colors &gt; 1</code> , the variable in question will be divided into quantiles and converted into a factor with that many levels. If <code>num_colors = 1</code> , a continuous color gradient will be used; if <code>num_colors = 0</code> , a diverging color gradient will be used (useful for visualizing negative and positive numbers). Use <code>color.max</code> and <code>color.min</code> to control the range of colors displayed. <code>num_colors</code> is ignored when plotting categorical data.
<code>color.max</code>	The color of the highest value in your data. Ignored if the plotted variable is categorical.
<code>color.min</code>	The color of the lowest value in your data. Ignored if the plotted variable is categorical.
<code>na.color</code>	The color you want to assign for regions with missing data
<code>custom.colors</code>	A vector of valid R color terms of the to use for the map when plotting factor variables. The length of this vector must match the number of levels in your factor variable, or <code>num_colors</code> for a continuous variable that will be discretized by the function, and the order should match the order of the levels in your factor variable.
<code>nbreaks</code>	The number of breaks you wish to show in the legend when using a continuous color scale. Ignored if <code>num_colors &gt; 1</code> .
<code>zoom</code>	An optional vector of countries to zoom in on, written in the same manner as <code>geoid.name</code> .

continent_zoom	Zoom in on a particular continent; to see which countries belong to which continent, see <code>choroplethr::country.regions</code>
projection	One of the following: "cartesian", "mercator", "robinson", or "albers", for the equirectangular, Mercator, Robinson, and Albers Equal Area projections, respectively. When using the Mercator projection for world maps, setting <code>limits_lon</code> is recommended to prevent exaggeration of the size of Antarctica.
limits_lat	A length two vector giving the minimum and maximum latitude you wish to include in your map.
limits_lon	A length two vector giving the minimum and maximum longitude you wish to include in your map.
reproject	If TRUE, the map will be cropped and centered prior to applying the projection. This will generally result in a better figure when using the Robinson and Albers, but may lead to countries near the edge of the map being occluded.
border_color	The color of the borders on your map
border_thickness	The thickness of the borders on your map
background_color	The background color of your map
gridlines	Should gridlines appear on your map?
latlon_ticks	Should lat/lon tick marks appear on the edge of your map?
whitespace	Add some blank space to the sides of your map? For some projections, this must be set to FALSE in order for lat/lon ticks and display correctly.
label	The name of variable you wish to use to label your map; must be one of the variables that appears in the spatial dataframe just prior plotting (use <code>return = 'sf'</code> to see this dataframe), and in general, can be any of the allowed <code>geoid.type</code> . This function uses <code>ggplot2::geom_label_repel</code> to create the labels and ensure that they do not overlap.
label_text_size	The size of the text that will appear in each label
label_text_color	The color of the text that will appear in each label
label_box_color	The color of the box around each label
ggrepel_options	A list containing additional arguments to be passed to <code>geom_label_repel</code> (see <code>?ggplot2::geom_label_repel</code> )
legend	A title for your legend; if NULL, <code>value.name</code> will be used.
legend_position	The position of your legend relative to the rest of the map; can be "top", "bottom", "left", or "right".
title	A title for your plot; if NULL, no title will be added.
return	If "plot", the function will return the requested map as a <code>ggplot</code> object. If "sf", the function will return the spatial dataframe used to draw the map (useful if you wish to customize the map yourself).

## Examples

```
# Create a choropleth map using country level data:
data(df_country_demographics)
country_choropleth(df_country_demographics, geoid.name = 'region',
                  geoid.type = 'iso_a3', value.name = 'gdp',
                  title = "GDP of Countries in the World",
                  legend = 'GDP (millions)')

# Use a divergent continuous color scale and customize map appearance:
country_choropleth(df_country_demographics, geoid.name = 'region',
                  geoid.type = 'iso_a3', value.name = 'gdp',
                  num_colors = 0, border_color = 'grey',
                  color.max = 'gold', color.min = 'navyblue',
                  projection = 'robinson', latlon_ticks = TRUE,
                  gridlines = TRUE, whitespace = FALSE,
                  background_color = 'azure',
                  title = "GDP of Countries in the World",
                  legend = 'GDP (millions)')

# Zoom in on South America:
country_choropleth(df_country_demographics, geoid.name = 'region',
                  geoid.type = 'iso_a3',
                  value.name = 'gdp', num_colors = 0, border_color = 'grey',
                  continent_zoom = 'South America',
                  color.max = 'gold', color.min = 'navyblue',
                  projection = 'robinson', latlon_ticks = TRUE,
                  gridlines = TRUE, whitespace = FALSE,
                  background_color = 'azure',
                  title = "GDP of Countries in the World",
                  legend = 'GDP (millions)',
                  label = 'iso_a2', label_text_size = 5)
```

---

county.map.2015

*An sf containing geometry data for US counties in 2015*

---

## Description

An sf containing geometry data for US counties in 2015

## Usage

```
data(county.map.2015)
```

## References

obtained using `tigris::counties()`

---

county.map.2024      *An sf containing geometry data for US counties in 2024*

---

**Description**

An sf containing geometry data for US counties in 2024

**Usage**

```
data(county.map.2024)
```

**References**

obtained using `tigris::counties()`

---

county.regions.2015      *Supported regions for US counties in 2015*

---

**Description**

Supported regions for US counties in 2015

**Usage**

```
data(county.regions.2015)
```

---

county.regions.2024      *Supported regions for US counties in 2024*

---

**Description**

Supported regions for US counties in 2024

**Usage**

```
data(county.regions.2024)
```

---

county\_choropleth      *Create a choropleth map using U.S. county level data:*

---

### Description

Counties must be identified by FIPS code; see `choroplethr::county.regions.2015` or `choroplethr::county.regions.2024` for an object that can help you coerce your county names into this format.

### Usage

```
county_choropleth(  
  df,  
  map_year = 2024,  
  geoid.name = "region",  
  geoid.type = "auto",  
  value.name = "value",  
  num_colors = 7,  
  color.max = NULL,  
  color.min = NULL,  
  na.color = "grey",  
  custom.colors = NULL,  
  nbreaks = 5,  
  county_zoom = NULL,  
  state_zoom = NULL,  
  projection = "albers",  
  border_color = "grey15",  
  border_thickness = 0.2,  
  background_color = "white",  
  gridlines = FALSE,  
  latlon_ticks = FALSE,  
  whitespace = TRUE,  
  label = NULL,  
  label_text_size = 2.25,  
  label_text_color = "black",  
  label_box_color = "white",  
  ggrepel_options = NULL,  
  legend = NULL,  
  legend_position = "right",  
  title = NULL,  
  return = "plot",  
  add_state_outline = TRUE  
)
```

### Arguments

`df`                      A dataframe containing U.S. county level data

map_year	Either 2015 or 2024; uses county definitions from that particular year.
geoid.name	The name of the variable that identifies each county
geoid.type	Either "fips.numeric" or "fips.character"; if "auto", the function will try to automatically determine geoid.type. See choroplethr::county.regions.2015 or choroplethr::county.regions.2024 a lookup table.
value.name	The name of the variable you wish to plot.
num_colors	The number of colors you want in your graph when plotting continuous data. If num_colors > 1, the variable in question will be divided into quantiles and converted into a factor with that many levels. If num_colors = 1, a continuous color gradient will be used; if num_colors = 0, a diverging color gradient will be used (useful for visualizing negative and positive numbers). Use color.max and color.min to control the range of colors displayed. num_colors is ignored when plotting categorical data.
color.max	The color of the highest value in your data. Ignored if the plotted variable is categorical.
color.min	The color of the lowest value in your data. Ignored if the plotted variable is categorical.
na.color	The color you want to assign for regions with missing data
custom.colors	A vector of valid R color terms of the to use for the map when plotting factor variables. The length of this vector must match the number of levels in your factor variable, or num_colors for a continuous variable that will be discretized by the function, and the order should match the order of the levels in your factor variable.
nbreaks	The number of breaks you wish to show in the legend when using a continuous color scale. Ignored if num_colors > 1.
county_zoom	An optional vector of counties to zoom in on, written in the same manner as geoid.name.
state_zoom	An optional vector of states to zoom in on. Elements of this vector must match one of the columns in choroplethr::state.regions.
projection	One of the following: "cartesian", "mercator", "robinson", or "albers", for the equirectangular, Mercator, Robinson, and Albers Equal Area projections, respectively. When using the Mercator projection for world maps, setting limits_lon is recommended to prevent exaggeration of the size of Antarctica.
border_color	The color of the borders on your map
border_thickness	The thickness of the borders on your map
background_color	The background color of your map
gridlines	Should gridlines appear on your map?
latlon_ticks	Should lat/lon tick marks appear on the edge of your map?
whitespace	Add some blank space to the sides of your map? For some projections, this must be set to FALSE in order for lat/lon ticks and display correctly.

label	The name of variable you wish to use to label your map; must be one of the variables that appears in the spatial dataframe just prior plotting (use <code>return = 'sf'</code> to see this dataframe), and in general, can be any of the allowed <code>geoid.type</code> . This function uses <code>ggplot2::geom_label_repel</code> to create the labels and ensure that they do not overlap.
label_text_size	The size of the text that will appear in each label
label_text_color	The color of the text that will appear in each label
label_box_color	The color of the box around each label
ggrepel_options	A list containing additional arguments to be passed to <code>geom_label_repel</code> (see <code>?ggplot2::geom_label_repel</code> )
legend	A title for your legend; if <code>NULL</code> , <code>value.name</code> will be used.
legend_position	The position of your legend relative to the rest of the map; can be "top", "bottom", "left", or "right".
title	A title for your plot; if <code>NULL</code> , no title will be added.
return	If "plot", the function will return the requested map as a <code>ggplot</code> object. If "sf", the function will return the spatial dataframe used to draw the map (useful if you wish to customize the map yourself).
add_state_outline	Should state borders be outlined in your map?

## Examples

```
# Create a map based on US county data:
data("df_county_demographics")
county_choropleth(df_county_demographics, geoid.name = 'region',
                  geoid.type = 'fips.numeric',
                  value.name = 'median_hh_income',
                  title = "Median Household Income of U.S. Counties",
                  legend = 'Median HH Income')

county_choropleth(df_county_demographics, geoid.name = 'region',
                  geoid.type = 'fips.numeric',
                  value.name = 'median_hh_income',
                  state_zoom = c('CA', 'OR', 'WA'),
                  title = "Median Household Income of West Coast Counties",
                  legend = 'Median HH Income')
```

---

county\_choropleth\_acs *Create a US County choropleth from ACS data*

---

### Description

Creates a choropleth of US counties using the US Census' American Community Survey (ACS) data.

### Usage

```
county_choropleth_acs(
  variable = NULL,
  tableId = NULL,
  column_idx = NULL,
  endyear,
  span = 5,
  title = NULL,
  census_api_key = NULL,
  ...
)
```

### Arguments

variable	The variable you wish to plot. A list of available census variables can be obtained using <code>tidycensus::load_variables()</code>
tableId	Alternatively, you may specify the ACS table you wish to plot. If the table has more than one variable inside it, you must also specify the index of the column you wish to plot.
column_idx	The index of the desired column within the table.
endyear	The end year of the survey to use.
span	Either 1, 3, or 5, the ACS vintage you wish to use.
title	A title for the plot; if not specified, a title will be assigned based on the variable.
census_api_key	Optional. Census API keys can be obtained at: <a href="https://api.census.gov/data/key_signup.html">https://api.census.gov/data/key_signup.html</a>
...	Other arguments passed to <code>county_choropleth</code> ; see <code>?county_choropleth()</code>

### Value

A choropleth.

### Examples

```
# Median household income, zooming in on all counties in New York, New
# Jersey and Connecticut
county_choropleth_acs(variable = "B19013_001", num_colors=1, endyear = 2011,
state_zoom=c("new york", "new jersey", "connecticut"))
```

df\_country\_demographics

*A data.frame containing population estimates for Countries in 2012.*

---

### **Description**

A data.frame containing population estimates for Countries in 2012.

### **Usage**

```
data(df_country_demographics)
```

### **References**

Data obtained using the ne\_countries function from rnaturalearth  
<https://github.com/ropensci/rnaturalearth>,  
<https://www.naturalearthdata.com/>

---

df\_county\_demographics

*A data.frame containing demographic statistics for each county in the United States.*

---

### **Description**

A data.frame containing demographic statistics for each county in the United States.

### **Usage**

```
data(df_county_demographics)
```

### **References**

Data comes from the 2013 5-year American Community Survey (ACS).  
Data generated by get\_county\_demographics().

---

df_japan_census	<i>A data.frame containing basic demographic information about Japan.</i>
-----------------	---------------------------------------------------------------------------

---

**Description**

A data.frame containing basic demographic information about Japan.

**Usage**

```
data(df_japan_census)
```

**References**

Taken from the "Total Population" table from the Statistics Bureau of Japan website (<https://www.stat.go.jp/english/data/nenkan/1431-02.html>) on 12/1/2014.

---

df_ny_tract_demographics	<i>A data.frame containing demographic statistics for each Census Tract in New York State.</i>
--------------------------	------------------------------------------------------------------------------------------------

---

**Description**

A data.frame containing demographic statistics for each Census Tract in New York State.

**Usage**

```
data(df_ny_tract_demographics)
```

**References**

Data comes from the 2013 5-year American Community Survey (ACS).  
Data generated by get\_tract\_demographics().

---

df_president	<i>A data.frame containing election results from the 2012 US Presidential election.</i>
--------------	-----------------------------------------------------------------------------------------

---

**Description**

A data.frame containing election results from the 2012 US Presidential election.

**Usage**

```
data(df_president)
```

**Author(s)**

Ari Lamstein and Richard Careaga

**References**

Taken from the FEC website on 11/21/2014.

---

df_ri_zip_demographics	<i>A data.frame containing demographic statistics for each zip code in Rhode Island.</i>
------------------------	------------------------------------------------------------------------------------------

---

**Description**

A data.frame containing demographic statistics for each zip code in Rhode Island.

**Usage**

```
data(df_ri_zip_demographics)
```

**References**

Data comes from the 2013 5-year American Community Survey (ACS).

---

df\_state\_demographics *A data.frame containing demographic statistics for each state plus the District of Columbia.*

---

**Description**

A data.frame containing demographic statistics for each state plus the District of Columbia.

**Usage**

```
data(df_state_demographics)
```

**References**

Data comes from the 2013 5-year American Community Survey (ACS).  
Data generated by get\_state\_demographics().

---

get\_acs\_data *Use tidycensus to obtain the data needed to create a choropleth map.*

---

**Description**

Use tidycensus to obtain the data needed to create a choropleth map.

**Usage**

```
get_acs_data(  
  variable = NULL,  
  tableId = NULL,  
  column_idx = NULL,  
  map,  
  endyear,  
  span,  
  census_api_key,  
  include_moe = FALSE  
)
```

**Arguments**

variable	The variable you wish to plot. A list of available census variables can be obtained using tidycensus::load_variables()
tableId	Alternatively, you may specify the ACS table you wish to plot. If the table has more than one variable inside it, you must also specify the index of the column you wish to plot.
column_idx	The index of the desired column within the table.

map	The type map you wish to create; either 'state', 'county', 'zip', or 'tract'
endyear	The end year of the survey to use.
span	Either 1, 3, or 5, the ACS vintage you wish to use.
census_api_key	Optional. Census API keys can be obtained at: <a href="https://api.census.gov/data/key_signup.html">https://api.census.gov/data/key_signup.html</a>
include_moe	Whether to include the 90 percent margin of error.

---

get\_tract\_map                      *Download a map of all census tracts in a given state*

---

### Description

The map returned is exactly the same map which tract\_choropleth uses. It is downloaded using the "tracts" function in the tigris package, and then it is modified for use with choroplethr.

### Usage

```
get_tract_map(state_name, map_year, drop_geometry = TRUE)
```

### Arguments

state_name	The name of the state, given by proper name, abbreviation, for FIPS code.
map_year	The year of the map you want to download.
drop_geometry	Drop geometry data?

---

get\_zip\_map                              *Download a map of requested zip codes*

---

### Description

The map returned is exactly the same map which zip\_choropleth() uses. It is downloaded using the "zctas" function in the tigris package, and then it is modified for use with choroplethr.

### Usage

```
get_zip_map(zipcodes, map_year, drop_geometry = TRUE)
```

### Arguments

zipcodes	The zipcodes for which you want to download map data.
map_year	The year of the map you want to download. Only years after 2013 are available.
drop_geometry	Drop geometry data?

---

state.map.bigdc	<i>An sf containing geometry data for US states with DC enlarged</i>
-----------------	----------------------------------------------------------------------

---

**Description**

An sf containing geometry data for US states with DC enlarged

**Usage**

```
data(state.map.bigdc)
```

---

state.map.hex	<i>An sf containing a hexagonal tile map for US states</i>
---------------	------------------------------------------------------------

---

**Description**

An sf containing a hexagonal tile map for US states

**Usage**

```
data(state.map.hex)
```

**References**

obtained from: [Cedric Scherer's Github](#)

---

state.map.hires	<i>An sf containing higher resolution geometry data for US states</i>
-----------------	-----------------------------------------------------------------------

---

**Description**

An sf containing higher resolution geometry data for US states

**Usage**

```
data(state.map.hires)
```

**References**

obtained using `tigris::states()`

---

state.map.lores	<i>An sf containing lower resolution geometry data for US states</i>
-----------------	----------------------------------------------------------------------

---

**Description**

An sf containing lower resolution geometry data for US states

**Usage**

```
data(state.map.lores)
```

**References**

obtained using `tigris::states()`

---

state.regions	<i>Supported regions for US states</i>
---------------	----------------------------------------

---

**Description**

Supported regions for US states

**Usage**

```
data(state.regions)
```

---

state_choropleth	<i>Create a choropleth map using U.S. state level data</i>
------------------	------------------------------------------------------------

---

**Description**

To see the list of allowed state names, see `choroplethr::state.regions`.

**Usage**

```
state_choropleth(  
  df,  
  geoid.name = "region",  
  geoid.type = "auto",  
  value.name = "value",  
  style = "geographic_bigdc",  
  num_colors = 7,  
  color.max = NULL,  
  color.min = NULL,  
)
```

```

na.color = "grey",
custom.colors = NULL,
nbreaks = 5,
zoom = NULL,
projection = "albers",
border_color = "grey15",
border_thickness = 0.2,
background_color = "white",
gridlines = FALSE,
latlon_ticks = FALSE,
whitespace = TRUE,
label = NULL,
label_text_size = 2.25,
label_text_color = "black",
label_box_color = "white",
ggrepel_options = list(force = 0.01, box.padding = 0.15, label.padding = 0.15,
  max.overlaps = Inf),
legend = NULL,
legend_position = "right",
title = NULL,
return = "plot"
)

```

### Arguments

<code>df</code>	A dataframe containing U.S. state level data
<code>geoid.name</code>	The variable that identifies each state
<code>geoid.type</code>	How the variable given by <code>geoid.name</code> specifies each state (full name, abbreviation, etc). The allowed <code>geoid.type</code> are given in <code>choroplethr::state.regions</code> . If "auto", the function will try to automatically determine <code>geoid.type</code> .
<code>value.name</code>	The name of the variable you wish to plot.
<code>style</code>	Either "geographic" for a literal map of US states, "geographic_bigdc" to make Washington DC more visible, or "hexgrid" for a stylized hexagonal tile map. Note: <code>projection = 'mercator'</code> is suggested when using the hexgrid map.
<code>num_colors</code>	The number of colors you want in your graph when plotting continuous data. If <code>num_colors &gt; 1</code> , the variable in question will be divided into quantiles and converted into a factor with that many levels. If <code>num_colors = 1</code> , a continuous color gradient will be used; if <code>num_colors = 0</code> , a diverging color gradient will be used (useful for visualizing negative and positive numbers). Use <code>color.max</code> and <code>color.min</code> to control the range of colors displayed. <code>num_colors</code> is ignored when plotting categorical data.
<code>color.max</code>	The color of the highest value in your data. Ignored if the plotted variable is categorical.
<code>color.min</code>	The color of the lowest value in your data. Ignored if the plotted variable is categorical.
<code>na.color</code>	The color you want to assign for regions with missing data

custom.colors	A vector of valid R color terms of the to use for the map when plotting factor variables. The length of this vector must match the number of levels in your factor variable, or num_colors for a continuous variable that will be discretized by the function, and the order should match the order of the levels in your factor variable.
nbreaks	The number of breaks you wish to show in the legend when using a continuous color scale. Ignored if num_colors > 1.
zoom	An optional vector of states to zoom in on, written in the same manner as geoid.name.
projection	One of the following: "cartesian", "mercator", "robinson", or "albers", for the equirectangular, Mercator, Robinson, and Albers Equal Area projections, respectively. When using the Mercator projection for world maps, setting limits_lon is recommended to prevent exaggeration of the size of Antarctica.
border_color	The color of the borders on your map
border_thickness	The thickness of the borders on your map
background_color	The background color of your map
gridlines	Should gridlines appear on your map?
latlon_ticks	Should lat/lon tick marks appear on the edge of your map?
whitespace	Add some blank space to the sides of your map? For some projections, this must be set to FALSE in order for lat/lon ticks and display correctly.
label	The name of variable you wish to use to label your map; must be one of the variables that appears in the spatial dataframe just prior plotting (use return = 'sf' to see this dataframe), and in general, can be any of the allowed geoid.type. This function uses ggplot2::geom_label_repel to create the labels and ensure that they do not overlap.
label_text_size	The size of the text that will appear in each label
label_text_color	The color of the text that will appear in each label
label_box_color	The color of the box around each label
ggrepel_options	A list containing additional arguments to be passed to geom_label_repel (see ?ggplot2::geom_label_repel)
legend	A title for your legend; if NULL, value.name will be used.
legend_position	The position of your legend relative to the rest of the map; can be "top", "bottom", "left", or "right".
title	A title for your plot; if NULL, no title will be added.
return	If "plot", the function will return the requested map as a ggplot object. If "sf", the function will return the spatial dataframe used to draw the map (useful if you wish to customize the map yourself).

## Examples

```
# Plot continuous state level data:
data(df_state_demographics)
state_choropleth(df = df_state_demographics,
                 geoid.name = 'region',
                 geoid.type = 'name.lower',
                 value.name = 'population',
                 title = "U.S. State Population",
                 legend = "Population")

# Plot categorical data with custom colors:
data("df_president")
state_choropleth(df = df_president,
                 geoid.name = 'region',
                 geoid.type = 'name.lower',
                 value.name = 'value',
                 title = "2012 US Presidential Election Results",
                 legend = "Candidate",
                 custom.colors = c('blue4', 'red3'),
                 border_color = 'lightgrey')

# Label states and pass additional arguments to ggmap
state_choropleth(df = df_president,
                 geoid.name = 'region',
                 geoid.type = 'name.lower',
                 value.name = 'value',
                 title = "2012 US Presidential Election Results",
                 legend = "Candidate",
                 custom.colors = c('blue4', 'red3'),
                 border_color = 'lightgrey',
                 label = 'state.abb',
                 label_text_size = 4,
                 ggmap_options = list(label.r = 0, force = 0.02))

# Use a styled hexagonal tile map instead of actual state shapes:
state_choropleth(df = df_president,
                 style = 'hexgrid',
                 projection = 'mercator',
                 geoid.name = 'region',
                 geoid.type = 'name.lower',
                 value.name = 'value',
                 title = "2012 US Presidential Election Results",
                 legend = "Candidate",
                 custom.colors = c('blue4', 'red3'),
                 border_color = 'lightgrey',
                 label = 'state.abb',
                 label_text_size = 3)
```

**Description**

Creates a choropleth of US states using the US Census' American Community Survey (ACS) data.

**Usage**

```
state_choropleth_acs(
  variable = NULL,
  tableId = NULL,
  column_idx = NULL,
  endyear,
  span = 5,
  title = NULL,
  census_api_key = NULL,
  ...
)
```

**Arguments**

variable	The variable you wish to plot. A list of available census variables can be obtained using <code>tidycensus::load_variables()</code>
tableId	Alternatively, you may specify the ACS table you wish to plot. If the table has more than one variable inside it, you must also specify the index of the column you wish to plot.
column_idx	The index of the desired column within the table.
endyear	The end year of the survey to use.
span	Either 1, 3, or 5, the ACS vintage you wish to use.
title	A title for the plot; if not specified, a title will be assigned based on the variable.
census_api_key	Optional. Census API keys can be obtained at: <a href="https://api.census.gov/data/key_signup.html">https://api.census.gov/data/key_signup.html</a>
...	Other arguments passed to <code>state_choropleth</code> ; see <code>?state_choropleth()</code>

**Value**

A choropleth.

**Examples**

```
# Create a state choropleth for median household income zooming in
# on New York, New Jersey and Connecticut
state_choropleth_acs(variable = "B19013_001", endyear = 2011, num_colors=1,
zoom=c("new york", "new jersey", "connecticut"))
```

---

tract_choropleth	<i>Create a choropleth map using census tract level data for a given state.</i>
------------------	---------------------------------------------------------------------------------

---

### Description

Create a choropleth map using census tract level data for a given state.

### Usage

```
tract_choropleth(  
  df,  
  state_name,  
  geoid.name = "region",  
  geoid.type = "auto",  
  value.name = "value",  
  map_year = 2020,  
  num_colors = 7,  
  color.max = NULL,  
  color.min = NULL,  
  na.color = "grey",  
  custom.colors = NULL,  
  nbreaks = 5,  
  tract_zoom = NULL,  
  county_zoom = NULL,  
  projection = "cartesian",  
  border_color = "grey15",  
  border_thickness = 0.2,  
  background_color = "white",  
  gridlines = FALSE,  
  latlon_ticks = FALSE,  
  whitespace = TRUE,  
  label = NULL,  
  label_text_size = 2.25,  
  label_text_color = "black",  
  label_box_color = "white",  
  ggrepel_options = NULL,  
  legend = NULL,  
  legend_position = "right",  
  title = NULL,  
  return = "plot"  
)
```

### Arguments

df	A dataframe containing census tract level data for a given state.
state_name	The state in question, given by either proper name, abbreviation, or FIPS code.

<code>geoid.name</code>	The variable that identifies each tract.
<code>geoid.type</code>	How the variable given by <code>geoid.name</code> specifies each tract; the allowed <code>geoid.type</code> are given by the columns "GEOID", or "tractid.numeric" variable obtained from <code>get_tract_map()</code> . If "auto", the function will try to automatically determine <code>geoid.type</code> .
<code>value.name</code>	The name of the variable you wish to plot.
<code>map_year</code>	Uses tract definitions for that particular year, as reported by the <code>tigris</code> package. Only years 2013 and later are supported.
<code>num_colors</code>	The number of colors you want in your graph when plotting continuous data. If <code>num_colors &gt; 1</code> , the variable in question will be divided into quantiles and converted into a factor with that many levels. If <code>num_colors = 1</code> , a continuous color gradient will be used; if <code>num_colors = 0</code> , a diverging color gradient will be used (useful for visualizing negative and positive numbers). Use <code>color.max</code> and <code>color.min</code> to control the range of colors displayed. <code>num_colors</code> is ignored when plotting categorical data.
<code>color.max</code>	The color of the highest value in your data. Ignored if the plotted variable is categorical.
<code>color.min</code>	The color of the lowest value in your data. Ignored if the plotted variable is categorical.
<code>na.color</code>	The color you want to assign for regions with missing data
<code>custom.colors</code>	A vector of valid R color terms of the to use for the map when plotting factor variables. The length of this vector must match the number of levels in your factor variable, or <code>num_colors</code> for a continuous variable that will be discretized by the function, and the order should match the order of the levels in your factor variable.
<code>nbreaks</code>	The number of breaks you wish to show in the legend when using a continuous color scale. Ignored if <code>num_colors &gt; 1</code> .
<code>tract_zoom</code>	An optional vector of tracts to zoom in on, written in the same manner as <code>geoid.name</code> .
<code>county_zoom</code>	An optional vector of counties to zoom in on, written as they appear in the "county.fips.numeric" column of the object returned from <code>get_tract_map()</code> .
<code>projection</code>	One of the following: "cartesian", "mercator", "robinson", or "albers", for the equirectangular, Mercator, Robinson, and Albers Equal Area projections, respectively. When using the Mercator projection for world maps, setting <code>limits_lon</code> is recommended to prevent exaggeration of the size of Antarctica.
<code>border_color</code>	The color of the borders on your map
<code>border_thickness</code>	The thickness of the borders on your map
<code>background_color</code>	The background color of your map
<code>gridlines</code>	Should gridlines appear on your map?
<code>latlon_ticks</code>	Should lat/lon tick marks appear on the edge of your map?
<code>whitespace</code>	Add some blank space to the sides of your map? For some projections, this must be set to <code>FALSE</code> in order for lat/lon ticks and display correctly.

label	The name of variable you wish to use to label your map; must be one of the variables that appears in the spatial dataframe just prior plotting (use <code>return = 'sf'</code> to see this dataframe), and in general, can be any of the allowed <code>geoid.type</code> . This function uses <code>ggplot2::geom_label_repel</code> to create the labels and ensure that they do not overlap.
label_text_size	The size of the text that will appear in each label
label_text_color	The color of the text that will appear in each label
label_box_color	The color of the box around each label
ggrepel_options	A list containing additional arguments to be passed to <code>geom_label_repel</code> (see <code>?ggplot2::geom_label_repel</code> )
legend	A title for your legend; if NULL, <code>value.name</code> will be used.
legend_position	The position of your legend relative to the rest of the map; can be "top", "bottom", "left", or "right".
title	A title for your plot; if NULL, no title will be added.
return	If "plot", the function will return the requested map as a ggplot object. If "sf", the function will return the spatial dataframe used to draw the map (useful if you wish to customize the map yourself).

### See Also

<https://www.census.gov/data/academy/data-gems/2018/tract.html> for more information on Census Tracts

### Examples

```
# Plot tract level data from New York state:
df_ny_tract_demographics = choroplethr::df_ny_tract_demographics
tract_choropleth(df = df_ny_tract_demographics, state_name = 'NY',
                 geoid.name = 'region', value.name = 'population')

# Zoom in on the five counties that comprise New York City:
tract_choropleth(df = df_ny_tract_demographics, state_name = 'NY',
                 geoid.name = 'region', value.name = 'population',
                 county_zoom = c(36005, 36047, 36061, 36081, 36085))
```

---

zip_choropleth	<i>Create a choropleth map using zip code level data</i>
----------------	----------------------------------------------------------

---

### Description

To link zip codes to counties, states, or CBSA (Census Based Statistical Areas), see `choroplethr::zip_lookup`.

### Usage

```
zip_choropleth(  
  df,  
  geoid.name = "region",  
  value.name = "value",  
  map_year = 2020,  
  num_colors = 7,  
  color.max = NULL,  
  color.min = NULL,  
  na.color = "grey",  
  custom.colors = NULL,  
  nbreaks = 5,  
  zoom = NULL,  
  projection = "cartesian",  
  border_color = "grey15",  
  border_thickness = 0.2,  
  background_color = "white",  
  gridlines = FALSE,  
  latlon_ticks = FALSE,  
  whitespace = TRUE,  
  label = NULL,  
  label_text_size = 2.25,  
  label_text_color = "black",  
  label_box_color = "white",  
  ggrepel_options = NULL,  
  legend = NULL,  
  legend_position = "right",  
  title = NULL,  
  return = "plot"  
)
```

### Arguments

<code>df</code>	A dataframe containing zip code level data.
<code>geoid.name</code>	The variable that contains the zip code for each observation, written as a five digit character (string) vector.
<code>value.name</code>	The name of the variable you wish to plot.

map_year	Uses zip code definitions for that particular year, as reported by the tigris package. Only years 2013 and later are supported.
num_colors	The number of colors you want in your graph when plotting continuous data. If num_colors > 1, the variable in question will be divided into quantiles and converted into a factor with that many levels. If num_colors = 1, a continuous color gradient will be used; if num_colors = 0, a diverging color gradient will be used (useful for visualizing negative and positive numbers). Use color.max and color.min to control the range of colors displayed. num_colors is ignored when plotting categorical data.
color.max	The color of the highest value in your data. Ignored if the plotted variable is categorical.
color.min	The color of the lowest value in your data. Ignored if the plotted variable is categorical.
na.color	The color you want to assign for regions with missing data
custom.colors	A vector of valid R color terms of the to use for the map when plotting factor variables. The length of this vector must match the number of levels in your factor variable, or num_colors for a continuous variable that will be discretized by the function, and the order should match the order of the levels in your factor variable.
nbreaks	The number of breaks you wish to show in the legend when using a continuous color scale. Ignored if num_colors > 1.
zoom	An optional vector of zip codes to zoom in on, written as five digit characters.
projection	One of the following: "cartesian", "mercator", "robinson", or "albers", for the equirectangular, Mercator, Robinson, and Albers Equal Area projections, respectively. When using the Mercator projection for world maps, setting limits_lon is recommended to prevent exaggeration of the size of Antarctica.
border_color	The color of the borders on your map
border_thickness	The thickness of the borders on your map
background_color	The background color of your map
gridlines	Should gridlines appear on your map?
latlon_ticks	Should lat/lon tick marks appear on the edge of your map?
whitespace	Add some blank space to the sides of your map? For some projections, this must be set to FALSE in order for lat/lon ticks and display correctly.
label	The name of variable you wish to use to label your map; must be one of the variables that appears in the spatial dataframe just prior plotting (use return = 'sf' to see this dataframe), and in general, can be any of the allowed geoid.type. This function uses ggplot2::geom_label_repel to create the labels and ensure that they do not overlap.
label_text_size	The size of the text that will appear in each label
label_text_color	The color of the text that will appear in each label

label_box_color	The color of the box around each label
ggrepel_options	A list containing additional arguments to be passed to geom_label_repel (see ?ggplot2::geom_label_repel)
legend	A title for your legend; if NULL, value.name will be used.
legend_position	The position of your legend relative to the rest of the map; can be "top", "bottom", "left", or "right".
title	A title for your plot; if NULL, no title will be added.
return	If "plot", the function will return the requested map as a ggplot object. If "sf", the function will return the spatial dataframe used to draw the map (useful if you wish to customize the map yourself).

### Examples

```
# Plot zip code level data for Rhode Island:
df_zip = choroplethr::df_ri_zip_demographics
zip_choropleth(df = df_zip, geoid.name = 'region',
               value.name = 'population')
# Label each zip code on the map:
zip_choropleth(df = df_zip, geoid.name = 'region',
               value.name = 'population', label = 'zip_code')
```

---

zip\_lookup

*A dataset that maps zip codes to counties, states, and CBSAs*

---

### Description

A dataset that maps zip codes to counties, states, and CBSAs

### Usage

```
data(zip_lookup)
```

### References

Data obtained from Census Department

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