

Package: geographer (via r-universe)

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Type Package

Title Geography Vizualisations

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Description Provides function and objects to establish vizualisations
for my Geography lessons.

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URL <https://geographer.nenuial.org>

BugReports <http://github.com/nenuial/geographer/issues/>

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df_cartography_projections
Showcase different projections

Description

These functions showcase different map projections.

Usage

```
df_cartography_project_equirectangular()

df_cartography_project_gallpeters()

df_cartography_project_hobodyer()

df_cartography_project_mercator()

df_cartography_project_winkeltripel()

df_cartography_project_robinson()

df_cartography_project_goodehomolosine()

df_cartography_project_equalearth()
```

Details

The following projections are available:

- Equi-rectangular: `df_cartography_project_equirectangular()`
- Gall-Peters: `df_cartography_project_gallpeters()`
- Hobo-Dyer: `df_cartography_project_hobodyer()`
- Mercator: `df_cartography_project_mercator()`
- Wikel-Tripel: `df_cartography_project_winkeltripel()`
- Robinson: `df_cartography_project_robinson()`
- Goode Homolosine: `df_cartography_project_goodehomolosine()`
- Equal Earth: `df_cartography_project_equalearth()`

Value

A ggplot2 object

Examples

```
df_cartography_project_equirectangular()
df_cartography_project_gallpeters()
df_cartography_project_hobdoyer()
df_cartography_project_mercator()
df_cartography_project_winkeltripel()
df_cartography_project_robinson()
df_cartography_project_goodehomolosine()
df_cartography_project_equalearth()
```

```
df_cosmology_graph_hubble
```

Hubble's detective work

Description

Velocity against distance of the 24 nebulae of Hubble (1929), printed for a figure 17×11 cm. The student version is an empty grid to plot the points by hand (distance 0 to 2.2 million parsecs, velocity -400 to 1200 km/s, a fine grid every 0.1 and 100). The key version adds the points, the least-squares line through the origin ($K = \Sigma rv / \Sigma r^2 = 424$ km/s per million parsecs) and Hubble's rounded $K = 500$ (dashed).

Usage

```
df_cosmology_graph_hubble(key = FALSE, theme = ggplot2::theme_minimal())
```

Arguments

key	TRUE for the answer key: points and lines
theme	A ggplot2 theme

Value

A ggplot2 graph

Examples

```
df_cosmology_graph_hubble()
df_cosmology_graph_hubble(key = TRUE)
```

```
df_demography_graph_world_population_current
```

World population

Description

World population graph

Usage

```
df_demography_graph_world_population_current(theme = ggplot2::theme_minimal())
```

Arguments

theme A ggplot2 theme

Value

A ggplot2 graph

Examples

```
df_demography_graph_world_population_current()
```

```
df_demography_graph_world_population_growth
```

World population growth rate

Description

World population growth rate graph

Usage

```
df_demography_graph_world_population_growth(theme = ggplot2::theme_minimal())
```

Arguments

theme A ggplot2 theme

Value

A ggplot2 graph

Examples

```
df_demography_graph_world_population_growth()
```

```
df_demography_graph_world_population_historical
```

Historical world population plot

Description

World population graph from 10'000 BCE to 1200 CE

Usage

```
df_demography_graph_world_population_historical(  
  theme = ggplot2::theme_minimal()  
)
```

Arguments

theme A ggplot2 theme

Value

A ggplot2 graph

Examples

```
df_demography_graph_world_population_historical()
```

```
df_demography_hc_malthus
```

Malthus's arithmetic

Description

Malthus's own example (1798): the population doubles every 25 years (1, 2, 4, 8... 256) while food grows by the same amount (1, 2, 3... 9).

Usage

```
df_demography_hc_malthus()
```

Value

A highcharter graph

Examples

```
df_demography_hc_malthus()
```

```
df_demography_hc_transition
```

A real demographic transition

Description

Crude birth and death rates of a country of the Human Mortality Database (`geodata::gdt_hmd_demography`), the natural increase shaded between them.

Usage

```
df_demography_hc_transition(code, events = NULL)
```

Arguments

<code>code</code>	The HMD country code, e.g. "SWE" or "CHE"
<code>events</code>	A named numeric vector of years to mark with a dashed line, e.g. <code>c("Spanish flu" = 1918)</code>

Value

A highcharter graph

Examples

```
df_demography_hc_transition("SWE", c(famine = 1773, "Spanish flu" = 1918))
```

```
df_demography_hc_world_hdi
```

Graph of the Human Development Index

Description

Every country of the world with the Human Development Index from 1990 to 2021.

Usage

```
df_demography_hc_world_hdi()
```

Value

A hicharter graph

Examples

```
df_demography_hc_world_hdi()
```

```
df_demography_hc_world_population
```

World population since year 0

Description

World population since year 0 (historical estimates, then the World Bank since 1960) with the dates of the billions (United Nations) and the Black Death.

Usage

```
df_demography_hc_world_population(from = 0)
```

Arguments

<code>from</code>	The first year
-------------------	----------------

Value

A highcharter graph

Examples

```
df_demography_hc_world_population()
```

```
df_demography_map_hc_world_hdi
```

Humand Development Index (HDI) map

Description

Humand Development Index (HDI) map

Usage

```
df_demography_map_hc_world_hdi(year)
```

Arguments

<code>year</code>	The year
-------------------	----------

Value

A highcharter map

Examples

```
df_demography_map_hc_world_hdi(2020)
```

```
df_geology_graph_cross_section
```

Plate detective cross-sections

Description

Depth of the earthquakes against their distance from the trench, along a line across a subduction zone (answer key of the plate detective exercise). Earthquakes within `half_width` degrees of latitude of the line are kept; volcanoes near the line are shown at the surface.

Usage

```
df_geology_graph_cross_section(
  region = c("A", "B"),
  half_width = 2,
  lat = NULL,
  from = NULL,
  to = NULL,
  title = TRUE,
  theme = ggplot2::theme_minimal()
)

df_geology_hc_cross_section(
  region = c("A", "B"),
  half_width = 2,
  lat = NULL,
  from = NULL,
  to = NULL,
  title = TRUE
)
```

Arguments

<code>region</code>	"A" (Japan, along 38° N from 145° E to 128° E) or "B" (Central Andes, along 22° S from 72° W to 62° W)
<code>half_width</code>	Half width of the band around the line, in degrees of latitude
<code>lat, from, to</code>	Latitude of the line and longitudes of its start (the trench side) and end, in degrees (west and south negative). <code>NULL</code> uses the default line of the region.
<code>title</code>	<code>TRUE</code> for a title with the region and the line, <code>FALSE</code> for no title, or a string
<code>theme</code>	A ggplot2 theme

Value

A ggplot2 graph (`df_geology_graph_cross_section()`) or a highcharts chart (`df_geology_hc_cross_section()`)

Examples

```
df_geology_graph_cross_section("A")
df_geology_hc_cross_section("B")
```

```
df_geology_graph_seismograms
```

Find the earthquake: seismograms

Description

Synthetic seismograms of the same earthquake at the three stations of the epicentre exercise, stacked on the same time axis (seconds after the earthquake, a tick every second): first the small P wave, then the larger S wave. The key version marks the arrivals of the P and S waves.

Usage

```
df_geology_graph_seismograms(
  key = FALSE,
  title = TRUE,
  theme = ggplot2::theme_minimal()
)

df_geology_hc_seismograms(key = FALSE, title = TRUE)
```

Arguments

key	TRUE to mark the arrivals of the P and S waves
title	TRUE for a default title, FALSE for none, or a string
theme	A ggplot2 theme

Value

A ggplot2 graph (`df_geology_graph_seismograms()`) or a highcharts chart (`df_geology_hc_seismograms()`)

Examples

```
df_geology_graph_seismograms()
df_geology_hc_seismograms(key = TRUE)
```

df_geology_map_epicentre

Find the earthquake: map of the stations

Description

Map of Switzerland with the three seismic stations of the epicentre exercise (Sion, Bern and Lugano), for drawing circles with a compass. The map is in the Swiss projection LV95, so distances are true, and its panel has a fixed size: printed at 100 %, the map has the scale 1:scale. The key version adds the circles (radius: distance to the epicentre) and the epicentre of the Visp earthquake of 1855.

Usage

```
df_geology_map_epicentre(
  key = FALSE,
  scale = 2500000,
  title = TRUE,
  theme = ggplot2::theme_minimal()
)

df_geology_map_leaflet_epicentre(key = FALSE)
```

Arguments

key	TRUE for the answer key (circles and epicentre)
scale	Denominator of the printed scale
title	TRUE for a default title, FALSE for none, or a string
theme	A ggplot2 theme

Details

The panel of `df_geology_map_epicentre()` measures 360 km × 300 km at the chosen scale (14.4 cm × 12 cm at 1:2 500 000, 18 cm × 15 cm at 1:2 000 000): give the figure at least about 2 cm more in each direction and do not let the document rescale it.

Value

A ggplot2 map (`df_geology_map_epicentre()`) or a leaflet map (`df_geology_map_leaflet_epicentre()`)

Examples

```
df_geology_map_epicentre()
df_geology_map_epicentre(key = TRUE)
df_geology_map_leaflet_epicentre(key = TRUE)
```

```
df_geology_map_plate_detective
```

Plate detective maps

Description

Earthquakes (magnitude 5 or more, 1975–2025) and Holocene volcanoes of one of the five regions of the plate detective exercise, without plate boundaries: finding them is the exercise. Epicentres are coloured (and shaped, for greyscale printing) by depth class: 0–70 km, 70–300 km and 300–700 km. The size of the points shows the magnitude.

Usage

```
df_geology_map_plate_detective(
  region = c("A", "B", "C", "D", "E"),
  title = TRUE,
  theme = ggplot2::theme_minimal()
)

df_geology_map_hc_plate_detective(
  region = c("A", "B", "C", "D", "E"),
  title = TRUE
)
```

Arguments

region	Region code: "A" Japan, "B" Central Andes, "C" Iceland / North Atlantic, "D" Himalaya / Tibet or "E" California (see geodata::df_geology_regions)
title	TRUE for the region code and name, FALSE for no title, or a string
theme	A ggplot2 theme

Value

A ggplot2 map (`df_geology_map_plate_detective()`) or a highcharts chart (`df_geology_map_hc_plate_detective()`)

Examples

```
df_geology_map_plate_detective("A")
df_geology_map_hc_plate_detective("B")
```

```
df_geology_map_vesuvius
```

Vesuvius: where to draw the red line

Description

Map of the municipalities around Vesuvius with their names and population, the crater, the ancient sites of Pompeii and Herculaneum and rings showing the approximate reach of the pyroclastic flows of past eruptions. The key version colours the red zone of the national emergency plan (municipalities entirely or partly in it).

Usage

```
df_geology_map_vesuvius(  
  key = FALSE,  
  rings = c(`1631` = 10, `79` = 15),  
  half_width = 25,  
  title = TRUE,  
  theme = ggplot2::theme_minimal()  
)
```

```
df_geology_map_leaflet_vesuvius(key = FALSE, rings = c(`1631` = 10, `79` = 15))
```

Arguments

key	TRUE to colour the official red zone
rings	Named vector of ring radii in km around the crater; the names label the rings (approximate reach of pyroclastic flows)
half_width	Half width of the map around the crater in km (ggplot version)
title	TRUE for a default title, FALSE for none, or a string
theme	A ggplot2 theme

Value

A ggplot2 map (`df_geology_map_vesuvius()`) or a leaflet map (`df_geology_map_leaflet_vesuvius()`)

Examples

```
df_geology_map_vesuvius()  
df_geology_map_vesuvius(key = TRUE)  
df_geology_map_leaflet_vesuvius(key = TRUE)
```

df_geopolitics_graph_chokepoint
A chokepoint in crisis

Description

Daily number of ships passing a maritime chokepoint (IMF PortWatch, AIS estimates) over a period: daily total, 7-day centred mean of all ships and 7-day centred mean of tankers. The student version shows only `label` as title; the key version (`key = TRUE`) shows the name of the chokepoint and the period, and marks the `events`. Texts are in English or French, following `geotools::gtl_opt_set_i18n()` (`label` and `events` are passed as they are).

Usage

```
df_geopolitics_graph_chokepoint(
  chokepoint,
  from = NULL,
  to = NULL,
  key = FALSE,
  label = NULL,
  events = NULL,
  theme = ggplot2::theme_minimal()
)
```

```
df_geopolitics_hc_chokepoint(
  chokepoint,
  from = NULL,
  to = NULL,
  key = FALSE,
  label = NULL,
  events = NULL,
  daily_color = "#cfd8e3",
  total_color = "#1f3a5f",
  tanker_color = "#d95f02"
)
```

Arguments

<code>chokepoint</code>	PortWatch identifier, e.g. <code>"chokepoint1"</code> (Suez Canal), see <code>geodata::df_geopolitics_chokepoints</code>
<code>from, to</code>	First and last day (dates or "YYYY-MM-DD"); NULL for the first or the latest day available
<code>key</code>	TRUE for the answer key: real name, period and events
<code>label</code>	Title of the student version (e.g. <code>"Chokepoint A"</code>), NULL for none
<code>events</code>	A data frame with columns <code>date</code> and <code>label</code> (short), shown as vertical lines in the key version
<code>theme</code>	A ggplot2 theme

daily_color, total_color, tanker_color

Colours of the daily bars and of the 7-day means of all ships and of tankers
(highcharts version, e.g. for a dark theme)

Value

A ggplot2 graph (df_geopolitics_graph_chokepoint()) or a highcharts chart (df_geopolitics_hc_chokepoint()) to be themed with e.g. `ggeo::hc_web_theme()`

Examples

```
df_geopolitics_graph_chokepoint(
  "chokepoint1", "2021-02-15", "2021-05-15",
  key = TRUE,
  events = tibble::tibble(
    date = c("2021-03-23", "2021-03-29"),
    label = c("Ever Given runs aground", "freed")
  )
)
df_geopolitics_hc_chokepoint("chokepoint2", "2023-01-01", "2024-12-31", label = "Chokepoint A")
```

df_geopolitics_map_preah_vihhear

Read a conflict: maps

Description

Static maps for the exercise "Read a conflict".

Usage

```
df_geopolitics_map_preah_vihhear(theme = ggplot2::theme_minimal())

df_geopolitics_map_iran_war(theme = ggplot2::theme_minimal())
```

Arguments

theme A ggplot2 theme

Details

`df_geopolitics_map_preah_vihhear()`: the Thailand–Cambodia border along the Dân-grêk mountains, with the relief (the 1904 treaty put the border on the watershed, along the escarpment), the provinces and the disputed temples of Preah Vihear, Ta Muen Thom and Ta Krabey.

`df_geopolitics_map_iran_war()`: the region of the war around Iran, from Israel to Pakistan, with the capitals, the nuclear sites of Fordow, Natanz and Isfahan, the Al Udeid air base and the Strait of Hormuz.

Coordinates of the sites from Wikidata, borders from Natural Earth, relief from the Copernicus DEM. Both maps are drawn for a figure about 17 cm wide. Names, legends and sources are in English or French, following `geotools::gtl_opt_set_i18n()`.

Value

A ggplot2 map

Examples

```
df_geopolitics_map_preah_vihear()
df_geopolitics_map_iran_war()
```

```
df_geopolitics_map_sea_zones
      Draw the sea zones
```

Description

An imaginary coast with two states, Aldoria and Borania, for drawing the maritime zones of the United Nations Convention on the Law of the Sea (UNCLOS) with a compass: internal waters, territorial sea (12 nm), contiguous zone (24 nm), exclusive economic zone (200 nm), median line between the two states and the high seas. The key versions draw the zones, with the island of Kalos counting either as an island (it has its own zones) or as a rock (UNCLOS art. 121.3: territorial sea only, an enclave).

Usage

```
df_geopolitics_map_sea_zones(
  key = c("none", "island", "rock"),
  theme = ggplot2::theme_void()
)
```

Arguments

key	"none" for the student map, "island" or "rock" for the answer key with Kalos counting as an island or as a rock
theme	A ggplot2 theme

Details

Units are nautical miles. The map is 340 nm × 380 nm with no side margins: printed 17 cm wide (figure 17 cm × 19.9 cm), the scale is 1 cm = 20 nm. Pass a theme without axis text, titles or side margins, otherwise the panel shrinks and the scale is lost. A key version takes a few seconds (distances computed on a 0.5 nm grid for the median line).

Value

A ggplot2 map

Examples

```
df_geopolitics_map_sea_zones()
df_geopolitics_map_sea_zones("rock")
```

gph_base_map	<i>Get a base map for a country</i>
--------------	-------------------------------------

Description

This function renders a base map with the country highlighted.

Usage

```
gph_base_map(country)

gph_base_tmap(country)
```

Arguments

country	Country to highlight
---------	----------------------

Value

A leaflet map with the country borders

Examples

```
# Using Leaflet
gph_base_map("Switzerland")
gph_base_map("United Kingdom")

# Using tmap (v4)
gph_base_tmap("Switzerland")
gph_base_tmap("United Kingdom")
```

gph_boundbox	<i>NaturalEarth Bound box for planet Earth</i>
--------------	--

Description

NaturalEarth Bound box for planet Earth

Usage

```
gph_boundbox()
```

Value

A simple feature

Examples

```
gph_boundbox()
```

`gph_country_area_tree`

Create a treemap plot of the world countries by area

Description

Create a treemap plot of the world countries by area

Usage

```
gph_country_area_tree()
```

Value

A highcharter plot

Examples

```
gph_country_area_tree()
```

`gph_country_population_tree`

Create a treemap plot of the world countries by population

Description

Create a treemap plot of the world countries by population

Usage

```
gph_country_population_tree()
```

Value

A highcharter plot

Examples

```
gph_country_population_tree()
```

gph_demogram	Create demogram for country
--------------	-----------------------------

Description

Provides basic ggplot2 graph with the following data on it :

population the population curve (blue)

birth_rate the birth rate curve (grey)

death_rate the death_rate curve (black)

Usage

```
gph_demogram(  
  country,  
  theme = ggplot2::theme_minimal(),  
  population_color = "blue"  
)
```

Arguments

country	A string with the country name
theme	A ggplot2 theme
population_color	A color value for the population curve

Value

A ggplot2 graph

Examples

```
gph_demogram("Switzerland")
```

gph_hc_demogram	Create demogram for country
-----------------	-----------------------------

Description

Provides basic ggplot2 graph with the following data on it :

population the population curve (blue)

birth_rate the birth rate curve (grey)

death_rate the death_rate curve (black)

Usage

```
gph_hc_demogram(
  country,
  population_color = "blue",
  birth_color = "grey",
  death_color = "black"
)
```

Arguments

country	A string with the country name
population_color	Color of the population curve
birth_color	Color of the birth rate curve
death_color	Color of the death rate curve

Value

A highcharter graph

Examples

```
gph_hc_demogram("Switzerland")
# for a dark background
gph_hc_demogram("Switzerland", "#6ea8fe", "#8f99a8", "#dee2e6")
```

gph_hc_lexgram	<i>Create lexgram for country</i>
----------------	-----------------------------------

Description

Provides basic ggplot2 graph with the following data on it :

lex the total life expectancy (black dotted)

lex_male the male life expectancy (blue)

ley_female the male life expectancy (red)

Usage

```
gph_hc_lexgram(country, men = "blue", women = "red", all = "black")
```

Arguments

country	A string with the country name
men	Color for men line
women	Color for women line
all	Color for average line

Value

A highcharts graph

Examples

```
gph_hc_lexgram("Switzerland")
```

```
gph_hc_map_swiss_votes
```

Plot latest swiss votation using highcharts

Description

Plot latest swiss votation using highcharts

Usage

```
gph_hc_map_swiss_votes(
  geolevel = c("canton", "district", "municipality"),
  votedates,
  id,
  language = "FR"
)
```

Arguments

geolevel	One of "canton", "district" or "municipality"
votedates	The date of the vote
id	The vote id
language	One of "DE", "FR", "IT" or "RM"

Value

A highcharter map

Examples

```
gph_hc_map_swiss_votes("canton", votedates = "2024-03-03", id = 6650)
```

gph_hc_pyramid	Create highcharter population pyramid
----------------	---------------------------------------

Description

Create highcharter population pyramid

Usage

```
gph_hc_pyramid(country, year)
```

Arguments

country	A string with the country name
year	An integer for the year

Value

A highcharter graph

Examples

```
# Not run: need a valid IDB API key  
gph_hc_pyramid("Switzerland", 2020)
```

gph_hc_pyramid_relative	Create highcharter population pyramid with relative values
-------------------------	--

Description

Create highcharter population pyramid with relative values

Usage

```
gph_hc_pyramid_relative(country, year)
```

Arguments

country	A string with the country name
year	An integer for the year

Value

A highcharter graph

Examples

```
# Not run: need a valid IDB API key
gph_hc_pyramid_relative("Switzerland", 2020)
```

gph_hc_tfr

Total fertility rate chart

Description

The total fertility rate (children per woman) of one or more countries since 1960, with the replacement level (2.1). One country is drawn as an area, several as lines.

Usage

```
gph_hc_tfr(
  countries,
  events = NULL,
  periods = NULL,
  highlight = NULL,
  colors = c("#c03728", "#8a93a3", "#d9a441", "#919c4c", "#5b7fa6", "#6b452b", "#2b323f")
)
```

Arguments

<code>countries</code>	A character vector of country names or iso codes
<code>events</code>	A named numeric vector of years to mark with a dashed line, e.g. <code>c("one child" = 1980)</code>
<code>periods</code>	A named list of year ranges to shade, e.g. <code>list(famine = c(1959, 1961))</code>
<code>highlight</code>	Countries (as in <code>countries</code>) drawn with a thicker line
<code>colors</code>	Colours of the countries, in the order of <code>countries</code>

Value

A highcharter graph

Examples

```
gph_hc_tfr("China", events = c("one child" = 1980), periods = list(famine = c(1959, 1961)))
gph_hc_tfr(c("France", "Germany", "Italy"), highlight = "France")
```

gph_hc_working_age	<i>Working-age population chart</i>
--------------------	-------------------------------------

Description

The population aged 15 to 64 of a country since 1990, in millions, with its peak.

Usage

```
gph_hc_working_age(  
  country,  
  start = 1990,  
  color = "#5b7fa6",  
  peak_color = "#c03728"  
)
```

Arguments

country	A string with the country name or iso code
start	The first year
color	Colour of the curve
peak_color	Colour of the peak and its label

Value

A highcharter graph

Examples

```
gph_hc_working_age("China")
```

gph_historical_world_map	<i>Return Historical World Map</i>
--------------------------	------------------------------------

Description

Return Historical World Map

Usage

```
gph_historical_world_map(date)
```

Arguments

date A date object

Value

An sf object

Examples

```
lubridate::ymd("1945-06-01") |>
  gph_historical_world_map() |>
  ggplot2::ggplot() +
  ggplot2::geom_sf()
```

gph_lexgram	<i>Create lexgram for country</i>
--------------------	-----------------------------------

Description

Provides basic ggplot2 graph with the following data on it :

lex the total life expectancy (black dotted)

lex_male the male life expectancy (blue)

lex_female the female life expectancy (red)

Usage

```
gph_lexgram(
  country,
  theme = ggplot2::theme_minimal(),
  men = "blue",
  women = "red",
  all = "black"
)
```

Arguments

country A string with the country name

theme A ggplot2 theme

men Color for men line

women Color for women line

all Color for average line

Value

A ggplot2 graph

Examples

```
gph_lexgram("Switzerland")
```

`gph_map_swiss_lakes` *Swiss lakes for maps*

Description

Swiss lakes for maps

Usage

```
gph_map_swiss_lakes(  
  fill_color = "skyblue",  
  source = themakart::thema_topo("seen")  
)
```

Arguments

`fill_color` A color for the lakes (default: skyblue)
`source` The geometry for lakes (default: ThemaKart lakes)

Value

A ggplot2 layer for Swiss lakes

Examples

```
ggplot2::ggplot() +  
  gph_map_swiss_relief() +  
  gph_map_swiss_lakes()
```

`gph_map_swiss_relief` *Swiss relief background for maps*

Description

Swiss relief background for maps

Usage

```
gph_map_swiss_relief()
```

Value

A list of ggplot 2 layers for Swiss relief backgroup

Examples

```
ggplot2::ggplot() +
  gph_map_swiss_relief() +
  gph_map_swiss_lakes()
```

`gph_map_swiss_votes` *Plot latest swiss votation*

Description

Plot latest swiss votation

Usage

```
gph_map_swiss_votes(
  geolevel = c("canton", "district", "municipality"),
  votedates,
  id,
  language = "FR"
)
```

Arguments

<code>geolevel</code>	One of "canton", "district" or "municipality"
<code>votedates</code>	The date of the vote
<code>id</code>	The vote id
<code>language</code>	One of "DE", "FR", "IT" or "RM"

Value

A ggplot2 map

Examples

```
gph_map_swiss_votes("canton", votedates = "2024-03-03", id = 6650)
```

<code>gph_mini_globe</code>	<i>Create a globe with the countries in the list highlighted</i>
-----------------------------	--

Description

Create a globe with the countries in the list highlighted

Usage

```
gph_mini_globe(countries)
```

Arguments

<code>countries</code>	A vector of country names
------------------------	---------------------------

Value

A ggplot map

Examples

```
gph_mini_globe("Switzerland")
```

<code>gph_project_world</code>	<i>Project simple world map</i>
--------------------------------	---------------------------------

Description

Project simple world map

Usage

```
gph_project_world(crs)
```

Arguments

<code>crs</code>	A valid CRS string or object
------------------	------------------------------

Value

A ggplot map

Examples

```
gph_project_world("+proj=eqearth")
```

`gph_project_world_tissot`*Projet world map with Tissot matrices*

Description

Projet world map with Tissot matrices

Usage

```
gph_project_world_tissot(crs)
```

Arguments

`crs` A valid CRS string or object

Value

A ggplot object

Examples

```
gph_project_world_tissot("+proj=eqearth")
```

`gph_pyramid`*Create population pyramid*

Description

Create population pyramid

Usage

```
gph_pyramid(country, year, theme = ggplot2::theme_minimal())
```

Arguments

`country` A string with the country name
`year` An integer for the year
`theme` A ggplot2 theme

Value

A ggplot graph

Examples

```
# Not run: needs a valid IDB API key
gph_pyramid("Switzerland", 2020)
```

`gph_pyramid_relative` *Create relative population pyramid (5 year cohorts)*

Description

Create relative population pyramid (5 year cohorts)

Usage

```
gph_pyramid_relative(country, year, theme = ggplot2::theme_minimal())
```

Arguments

<code>country</code>	A string with the country name
<code>year</code>	An integer for the year
<code>theme</code>	A ggplot2 theme

Value

A ggplot graph

Examples

```
# Not run: needs a valid IDB API key
gph_pyramid_relative("Switzerland", 2020)
```

`gph_wb_world_map` *Create world maps for an indicator*

Description

Create world maps for an indicator

Usage

```
gph_wb_world_map(indicator)

gph_wb_world_hc(indicator)
```

Arguments

- indicator** A list of lists. Each list should contain:
- code** A named vector with the name of the indicator and it's World Bank code
 - operation** An expression that can make operations based on the indicator names
 - title** Title of the map
 - file** Name of the file
 - palette** List with parameters *palette* for the name of the palette, *type* for the type of palette and *dir* for the direction
 - breaks** Breaks for cutting the data
 - center** Where is the center of the data (for diverging palettes), -1 otherwise
 - unit** The unit of the indicator
 - year** A vector with each year wanted

Examples

```
# Not run: saves the plots on file
indicators <- list(
  list(
    code = c("population" = "EN.POP.DNST"),
    operation = rlang::expr(population),
    title = geotools::gtl_translate_enfr(
      "Population density", "Densité de population"
    ),
    file = "density",
    palette = list(
      palette = "viridis::viridis",
      type = "cont", dir = -1
    ),
    breaks = c(10, 25, 50, 75, 100, 150, 300, 1000),
    center = -1,
    unit = "pp/km²",
    years = c(2019)
  )
)

gph_wb_world_map(indicators)
```

oc_chine_carte_2018_sex_ratio_par_region
Sex-ratio par régions en Chine

Description

Une carte du rapport du nombre d'hommes par rapport aux femmes par régions pour 2018.

Usage

```
oc_chine_carte_2018_sex_ratio_par_region(theme = ggplot2::theme_minimal())
```

Arguments

theme	A ggplot2 theme
--------------	-----------------

Value

A ggplot2 map

Examples

```
oc_chine_carte_2018_sex_ratio_par_region()
```

oc_chine_hc_sex_ratio	
	<i>Sex-ratio à la naissance</i>

Description

Sex-ratio à la naissance

Usage

```
oc_chine_hc_sex_ratio()
```

Value

A highcharter plot

Examples

```
oc_chine_hc_sex_ratio()
```

```
oc_ecocitoyennete_graph_energy_per_source
```

Consommation d'énergie par source

Description

Consommation d'énergie par source

Usage

```
oc_ecocitoyennete_graph_energy_per_source(theme = ggplot2::theme_minimal())
```

Arguments

theme A ggplot2 theme

Value

A ggplot2 graph

Examples

```
oc_ecocitoyennete_graph_energy_per_source()
```

```
oc_geo_au_feminin_carte_hc_contraception
```

Contraception

Description

Carte mondiale interactive de la prévalence de la contraception.

Usage

```
oc_geo_au_feminin_carte_hc_contraception()
```

Value

A highcharts map

Examples

```
oc_geo_au_feminin_carte_hc_contraception()
```

```
oc_geo_au_feminin_carte_hc_femmes_parlement
```

Représentation politique

Description

Carte interactive du nombre de femmes au parlement.

Usage

```
oc_geo_au_feminin_carte_hc_femmes_parlement()
```

Value

A highcharts map

Examples

```
oc_geo_au_feminin_carte_hc_femmes_parlement()
```

```
oc_geo_au_feminin_carte_hc_mondiale_suffrage_feminin
```

Suffrage féminin mondial

Description

Carte interactive de l'accès au suffrage féminin par pays

Usage

```
oc_geo_au_feminin_carte_hc_mondiale_suffrage_feminin()
```

Value

A highcharts map

Examples

```
oc_geo_au_feminin_carte_hc_mondiale_suffrage_feminin()
```

```
oc_geo_au_feminin_carte_hc_suisse_suffrage_feminin
```

Suffrage féminin suisse

Description

Carte interactive de l'accès au suffrage féminin par canton

Usage

```
oc_geo_au_feminin_carte_hc_suisse_suffrage_feminin()
```

Value

A highcharts map

Examples

```
oc_geo_au_feminin_carte_hc_suisse_suffrage_feminin()
```

```
oc_geo_au_feminin_cartes_afghanistan
```

Géopolitique de l'Afghanistan

Description

Cartes qui permettent de retracer l'évolution géopolitique de l'Afghanistan depuis 1912.

Usage

```
oc_geo_au_feminin_carte_afghanistan_independance(
  theme = ggplot2::theme_minimal()
)

oc_geo_au_feminin_carte_afghanistan(theme = ggplot2::theme_minimal())
```

Arguments

theme A ggplot2 theme

Details

Carte disponibles:

- 1912: `oc_geo_au_feminin_carte_afghanistan_independance()`
- 1950: `oc_geo_au_feminin_carte_afghanistan()`

Value

A ggplot2 map

Examples

```
oc_geo_au_feminin_carte_afghanistan_independance()  
oc_geo_au_feminin_carte_afghanistan()
```

```
oc_geo_au_feminin_cartes_avortements  
  Avortement
```

Description

Cartes des droits en matière d'avortement ainsi que des taux d'avortement.

Usage

```
oc_geo_au_feminin_carte_hc_abortion_rights()  
  
oc_geo_au_feminin_carte_abortion_rights(theme = ggplot2::theme_minimal())  
  
oc_geo_au_feminin_carte_hc_taux_avortement()  
  
oc_geo_au_feminin_carte_taux_avortement(theme = ggplot2::theme_minimal())
```

Arguments

theme A ggplot2 theme

Value

A map

Examples

```
oc_geo_au_feminin_carte_hc_abortion_rights()  
oc_geo_au_feminin_carte_abortion_rights()  
oc_geo_au_feminin_carte_hc_taux_avortement()  
oc_geo_au_feminin_carte_taux_avortement()
```

```
oc_geo_au_feminin_cartes_esperance_de_vie
```

Différence d'espérance de vie

Description

Cartes pour mettre en évidence les différences d'espérance de vie entre hommes et femmes.

Usage

```
oc_geo_au_feminin_carte_esperance_de_vie_wpp2012_2005_a_2010(  
  theme = ggplot2::theme_minimal()  
)  
  
oc_geo_au_feminin_carte_esperance_de_vie_wpp2019_2005_a_2010(  
  theme = ggplot2::theme_minimal()  
)  
  
oc_geo_au_feminin_carte_esperance_de_vie_wpp2019_2015_a_2020(  
  theme = ggplot2::theme_minimal()  
)
```

Arguments

theme	A ggplot2 theme
-------	-----------------

Value

A map

Examples

```
oc_geo_au_feminin_carte_esperance_de_vie_wpp2012_2005_a_2010()  
oc_geo_au_feminin_carte_esperance_de_vie_wpp2019_2005_a_2010()  
oc_geo_au_feminin_carte_esperance_de_vie_wpp2019_2015_a_2020()
```

```
oc_geo_au_feminin_cartes_inegalites
```

Mesure d'inégalité

Description

Ces différentes cartes présente plusieurs indicateurs de l'inégalité entre hommes et femmes.

Usage

```
oc_geo_au_feminin_carte_sigi_2023(theme = ggplot2::theme_minimal())

oc_geo_au_feminin_carte_hc_sigi_2023()

oc_geo_au_feminin_carte_hc_gii_2021()

oc_geo_au_feminin_carte_hc_wbl()
```

Arguments

theme A ggplot2 theme

Details

Indicateurs à disposition:

- SIGI 2023: oc_geo_au_feminin_carte_sigi_2023() et oc_geo_au_feminin_carte_hc_sigi_2023()
- GII 2021: oc_geo_au_feminin_carte_hc_gii_2021()
- WB WBL 2022: oc_geo_au_feminin_carte_hc_wbl()

Value

A map

Examples

```
# Sigi 2023
oc_geo_au_feminin_carte_sigi_2023()
oc_geo_au_feminin_carte_hc_sigi_2023()

# GII 2021
oc_geo_au_feminin_carte_hc_gii_2021()

# WB WBL 2022
oc_geo_au_feminin_carte_hc_wbl()
```

oc_geo_au_feminin_cartes_sex_ratio

Sex ratio à la naissance

Description

Cartes du sex ratio à la naissance.

Usage

```
oc_geo_au_feminin_carte_sex_ratio(year, theme = ggplot2::theme_minimal())

oc_geo_au_feminin_carte_hc_sex_ratio()
```

Arguments

<code>year</code>	The year
<code>theme</code>	A ggplot2 theme

Value

A ggplot2 map

Examples

```
oc_geo_au_feminin_carte_sex_ratio(2015)
oc_geo_au_feminin_carte_hc_sex_ratio()
```

```
oc_geo_au_feminin_cartes_viol_europe
Viols
```

Description

Cartes du taux de viols déclarés en Europe.

Usage

```
oc_geo_au_feminin_carte_viol_europe(theme = ggplot2::theme_minimal())

oc_geo_au_feminin_carte_hc_viol_europe()
```

Arguments

<code>theme</code>	A ggplot2 theme
--------------------	-----------------

Value

A map

Examples

```
oc_geo_au_feminin_carte_viol_europe()
oc_geo_au_feminin_carte_hc_viol_europe()
```

oc_geo_au_feminin_graph_proportion_parlements
OC Géo au féminin: représentation politique

Description

Pourcentage de femmes dans les parlements nationaux par régions

Usage

```
oc_geo_au_feminin_graph_proportion_parlements(theme = ggplot2::theme_minimal())
```

Arguments

theme A ggplot2 theme

Value

A ggplot2 graph

Examples

```
oc_geo_au_feminin_graph_proportion_parlements()
```

oc_geo_au_feminin_graphs_2019_violences_sexuelles
Expérience de violences sexuelles

Description

Graphiques visualisant les résultats de l'enquête sur les violences sexuelles en Suisse réalisée par GFS.Bern sur demande d'Amnesty international en avril 2019.

Usage

```
oc_geo_au_feminin_graph_2019_violences_sexuelles_experiences(  
  theme = ggplot2::theme_minimal()  
)  
  
oc_geo_au_feminin_graph_2019_violences_sexuelles_actes(  
  theme = ggplot2::theme_minimal()  
)  
  
oc_geo_au_feminin_graph_2019_violences_sexuelles_police(  
  theme = ggplot2::theme_minimal()  
)
```

Arguments

theme A ggplot2 theme

Value

A graph

Examples

```
oc_geo_au_feminin_graph_2019_violences_sexuelles_experiences()  
oc_geo_au_feminin_graph_2019_violences_sexuelles_actes()  
oc_geo_au_feminin_graph_2019_violences_sexuelles_police()
```

```
oc_geo_au_feminin_graphs_difference_salariale  
  Différences salariales en Suisse
```

Description

Graphiques présentant les différences salariale en Suisse par formation et par position.

Usage

```
oc_geo_au_feminin_graph_difference_salariale_brut_par_formation(  
  theme = ggplot2::theme_minimal()  
)  
  
oc_geo_au_feminin_graph_difference_salariale_pourcent_par_formation(  
  theme = ggplot2::theme_minimal()  
)  
  
oc_geo_au_feminin_graph_difference_salariale_brut_par_position(  
  theme = ggplot2::theme_minimal()  
)  
  
oc_geo_au_feminin_graph_difference_salariale_pourcent_par_position(  
  theme = ggplot2::theme_minimal()  
)
```

Arguments

theme A ggplot2 theme

Value

A graph

Examples

```
oc_geo_au_feminin_graph_difference_salariale_brut_par_formation()
oc_geo_au_feminin_graph_difference_salariale_brut_par_position()
oc_geo_au_feminin_graph_difference_salariale_pourcent_par_formation()
oc_geo_au_feminin_graph_difference_salariale_pourcent_par_position()
```

```
oc_geo_au_feminin_graphs_esperances_de_vie
      Espérance de vie
```

Description

Graphiques sur l'évolution de l'espérance de vie.

Usage

```
oc_geo_au_feminin_graph_esperances_de_vie(theme = ggplot2::theme_minimal())

oc_geo_au_feminin_graph_difference_esperance_de_vie(
  theme = ggplot2::theme_minimal()
)
```

Arguments

theme	A ggplot2 theme
-------	-----------------

Value

A graph

Examples

```
oc_geo_au_feminin_graph_esperances_de_vie()

# Not run: need credentials for HMD database
oc_geo_au_feminin_graph_difference_esperance_de_vie()
```

oc_geo_au_feminin_graphs_programmation_16_24_ans
Taux de jeunes apprenant à coder

Description

Taux de jeunes apprenant à coder

Usage

```
oc_geo_au_feminin_graph_programmation_16_24_ans(  
  theme = ggplot2::theme_minimal()  
)  
  
oc_geo_au_feminin_hc_programmation_16_24_ans()
```

Arguments

theme A ggplot2 theme

Value

A ggplot2 graph

Examples

```
oc_geo_au_feminin_graph_programmation_16_24_ans()  
oc_geo_au_feminin_hc_programmation_16_24_ans()
```

oc_geo_au_feminin_graphs_scolarisation_filles_afghanistan
Scolarisation des filles en Afghanistan

Description

Scolarisation des filles en Afghanistan

Usage

```
oc_geo_au_feminin_graph_scolarisation_filles_afghanistan(  
  theme = ggplot2::theme_minimal(),  
  line_color = "black"  
)  
  
oc_geo_au_feminin_hc_scolarisation_filles_afghanistan()
```

Arguments

<code>theme</code>	A ggplot2 theme
<code>line_color</code>	Graph line color

Value

A graph

Examples

```
oc_geo_au_feminin_graph_scolarisation_filles_afghanistan()  
oc_geo_au_feminin_hc_scolarisation_filles_afghanistan()
```

```
oc_geo_au_feminin_graphs_situation_eco_afghanistan  
  PIB de l'Afghanistan par habitant
```

Description

Graphiques avec l'évolution du PIB par habitant en Afghanistan

Usage

```
oc_geo_au_feminin_graph_situation_eco_afghanistan(  
  theme = ggplot2::theme_minimal(),  
  line_color = "black"  
)  
  
oc_geo_au_feminin_hc_situation_eco_afghanistan()
```

Arguments

<code>theme</code>	A ggplot2 theme
<code>line_color</code>	Graph line color

Value

A graph

Examples

```
oc_geo_au_feminin_graph_situation_eco_afghanistan()  
oc_geo_au_feminin_hc_situation_eco_afghanistan()
```

```
oc_geo_au_feminin_graphs_suisse_avortements
```

Avortement en Suisse

Description

Graphiques sur l'évolution du taux d'avortement en Suisse et l'évolution politique à ce sujet.

Usage

```
oc_geo_au_feminin_graph_suisse_avortements(theme = ggplot2::theme_minimal())

oc_geo_au_feminin_hc_suisse_avortements_par_ages()

oc_geo_au_feminin_graph_suisse_avortements_par_ages(
  theme = ggplot2::theme_minimal()
)

oc_geo_au_feminin_hc_suisse_avortements_par_regions()

oc_geo_au_feminin_graph_suisse_avortements_par_regions(
  theme = ggplot2::theme_minimal()
)

oc_geo_au_feminin_hc_suisse_votations_avortement()

oc_geo_au_feminin_graph_suisse_votations_avortement(
  theme = ggplot2::theme_minimal()
)
```

Arguments

theme	A ggplot2 theme
-------	-----------------

Value

A graph

Examples

```
oc_geo_au_feminin_graph_suisse_avortements()
oc_geo_au_feminin_graph_suisse_avortements_par_ages()
oc_geo_au_feminin_hc_suisse_avortements_par_ages()
oc_geo_au_feminin_graph_suisse_avortements_par_regions()
oc_geo_au_feminin_hc_suisse_avortements_par_regions()
oc_geo_au_feminin_graph_suisse_votations_avortement()
oc_geo_au_feminin_hc_suisse_votations_avortement()
```

```
oc_israel_palestine_graph_gaza_victimes
```

Victimes

Description

Victimes

Usage

```
oc_israel_palestine_graph_gaza_victimes(theme = ggplot2::theme_minimal())

oc_israel_palestine_hc_gaza_victimes()
```

Arguments

theme A ggplot2 theme

Value

A graph

```
oc_israel_palestine_graphs_migration
```

Migrations

Description

Graphiques sur le thème de l'immigration en Israël.

Usage

```
oc_israel_palestine_graph_migration_israel(theme = ggplot2::theme_minimal())

oc_israel_palestine_hc_migration_israel()

oc_israel_palestine_graph_population_nae(theme = ggplot2::theme_minimal())

oc_israel_palestine_hc_immigration_sioniste()
```

Arguments

theme A ggplot2 theme

Value

A graph

Examples

```
oc_israel_palestine_graph_migration_israel()
oc_israel_palestine_hc_migration_israel()
oc_israel_palestine_graph_population_nae()
oc_israel_palestine_hc_immigration_sioniste()
```

```
oc_russie_carte_accroissement
```

Accroissement naturel en Russie

Description

Une carte de l'accroissement naturel (2017 à 2024) au niveau régional en Russie.

Usage

```
oc_russie_carte_accroissement(
  theme = ggplot2::theme_minimal(),
  barwidth = 40,
  greyscale = FALSE,
  year = 2024
)

oc_russie_carte_hc_accroissement(year = 2024)
```

Arguments

<code>theme</code>	A ggplot2 theme
<code>barwidth</code>	Width of legend bar
<code>greyscale</code>	Boolean: whether to create a grey scale map
<code>year</code>	Year of the data (2017 to 2024)

Value

A map

Examples

```
oc_russie_carte_accroissement()
oc_russie_carte_hc_accroissement()
```

```
oc_russie_carte_adhesion_otan
```

Adhésion à l'OTAN

Description

Carte de l'adhésion à l'OTAN par années

Usage

```
oc_russie_carte_adhesion_otan(theme = ggplot2::theme_minimal())

oc_russie_carte_hc_adhesion_otan(layout = "proximate", zoom = 3.5)
```

Arguments

theme	A ggplot2 theme
layout	Layout of the legend, either 'horizontal', 'vertical' or 'proximate'
zoom	Map zoom (defaults to 3.5)

Value

A ggplot2 map

Examples

```
oc_russie_carte_adhesion_otan()
oc_russie_carte_hc_adhesion_otan()
```

```
oc_russie_carte_divorces
```

Taux de divorce en Russie

Description

Une carte des divorces pour 1000 habitants par régions en 2019.

Usage

```
oc_russie_carte_divorces(theme = ggplot2::theme_minimal())
```

Arguments

theme	A ggplot2 theme
-------	-----------------

Value

A ggplot2 map

Examples

```
oc_russie_carte_divorces()
```

```
oc_russie_carte_evolution_population
```

Évolution démographique en Russie

Description

Une carte de l'évolution démographique Russe entre 1990 et 2020.

Usage

```
oc_russie_carte_evolution_population(  
  theme = ggplot2::theme_minimal(),  
  barwidth = 40  
)
```

Arguments

<code>theme</code>	A ggplot2 theme
<code>barwidth</code>	Width of legend bar

Value

A ggplot2 map

Examples

```
oc_russie_carte_evolution_population()
```

`oc_russie_carte_fecondite`*Indice de fécondité en Russie*

Description

Une carte de l'indice de fécondité (2012 à 2024) au niveau régional en Russie.

Usage

```
oc_russie_carte_fecondite(  
  theme = ggplot2::theme_minimal(),  
  barwidth = 40,  
  greyscale = FALSE,  
  year = 2024  
)  
  
oc_russie_carte_hc_fecondite(year = 2024)
```

Arguments

<code>theme</code>	A ggplot2 theme
<code>barwidth</code>	Width of legend bar
<code>greyscale</code>	Boolean: whether to create a grey scale map
<code>year</code>	Year of the data (2012 to 2024)

Value

A map

Examples

```
oc_russie_carte_fecondite()  
oc_russie_carte_hc_fecondite()
```

`oc_russie_carte_hc_elections_ukraine`*Cartes des élections présidentielles ukrainiennes*

Description

Cartes des élections présidentielles ukrainiennes en 2010, 2014 et 2019.

Usage

```
oc_russie_carte_hc_elections_ukraine_2010()  
oc_russie_carte_hc_elections_ukraine_2014()  
oc_russie_carte_hc_elections_ukraine_2019()
```

Value

A higcharts map

Examples

```
oc_russie_carte_hc_elections_ukraine_2010()  
oc_russie_carte_hc_elections_ukraine_2014()  
oc_russie_carte_hc_elections_ukraine_2019()
```

```
oc_russie_carte_hc_religion
```

Carte de la religion majoritaire en 2012

Description

Religion avec le plus de pourcentage en 2012 par région.

Usage

```
oc_russie_carte_hc_religion()
```

Value

A higcharts map

Examples

```
oc_russie_carte_hc_religion()
```

`oc_russie_carte_mariages`*Taux de mariage en Russie*

Description

Une carte des mariages pour 1000 habitants par régions en 2019.

Usage

```
oc_russie_carte_mariages(theme = ggplot2::theme_minimal())
```

Arguments

<code>theme</code>	A ggplot2 theme
--------------------	-----------------

Value

A ggplot2 map

Examples

```
oc_russie_carte_mariages()
```

`oc_russie_carte_mortalite`*Taux de mortalité en Russie*

Description

Une carte du taux de mortalité en 2019 au niveau régional en Russie.

Usage

```
oc_russie_carte_mortalite(theme = ggplot2::theme_minimal(), barwidth = 40)
```

Arguments

<code>theme</code>	A ggplot2 theme
<code>barwidth</code>	Width of legend bar

Value

A ggplot2 map

Examples

```
oc_russie_carte_mortalite()
```

`oc_russie_carte_natalite`*Taux de natalité en Russie*

Description

Une carte du taux de natalité en 2019 au niveau régional en Russie.

Usage

```
oc_russie_carte_natalite(theme = ggplot2::theme_minimal(), barwidth = 40)
```

Arguments

<code>theme</code>	A ggplot2 theme
<code>barwidth</code>	Width of legend bar

Value

A ggplot2 map

Examples

```
oc_russie_carte_natalite()
```

`oc_russie_graph_demo_exa`*Demogram (exa 2022)*

Description

Graphique de l'évolution démographique de la Russie entre 1980 et 2020. Graphique destiné à l'examen de maturité 2022.

Usage

```
oc_russie_graph_demo_exa(theme = ggplot2::theme_minimal())
```

Arguments

<code>theme</code>	A ggplot2 theme
--------------------	-----------------

Value

A ggplot2 graph

Examples

```
oc_russie_graph_demo_exa()
```

```
oc_russie_graph_demo_exa_2025
```

Demogram (exa 2025)

Description

Graphique de l'évolution démographique de la Russie entre 1980 et 2023. Graphique destiné à l'examen de maturité 2025.

Usage

```
oc_russie_graph_demo_exa_2025(theme = ggplot2::theme_minimal())
```

Arguments

theme	A ggplot2 theme
-------	-----------------

Value

A ggplot2 graph

Examples

```
oc_russie_graph_demo_exa_2025()
```

```
oc_russie_graph_depense_militaire
```

Dépenses militaires

Description

"Race plot" avec l'évolution des dépenses militaires entre 2000 et 2020.

Usage

```
oc_russie_graph_depense_militaire(theme = ggplot2::theme_minimal())
```

Arguments

theme	A ggplot2 theme
-------	-----------------

Value

An animated ggplot2

Examples

```
# Not run: needs ffmpeg
oc_russie_graph_depense_militaire()
```

```
oc_russie_graph_immigration
      Immigration
```

Description

Graphique de l'immigration en Russie avec les 5 pays les plus représentés et une catégorie autres.

Usage

```
oc_russie_graph_immigration(theme = ggplot2::theme_minimal())
```

Arguments

theme	A ggplot2 theme
-------	-----------------

Value

A ggplot2 graph

Examples

```
oc_russie_graph_immigration()
```

```
oc_russie_graph_mariages_et_divorces
      Mariages et divorces
```

Description

Graphiques des mariages et divorces en Russie

Usage

```
oc_russie_graph_mariages_et_divorces(theme = ggplot2::theme_minimal())
```

Arguments

theme	A ggplot2 theme
-------	-----------------

Value

A ggplot2 graph

Examples

```
oc_russie_graph_mariages_et_divorces()
```

```
oc_russie_graph_naissances
```

Naissances et avortements en Russie

Description

Graphique des naissances et des avortements en Russie de 1999 à 2024.

Usage

```
oc_russie_graph_naissances(theme = ggplot2::theme_minimal())  
oc_russie_graph_avortements(theme = ggplot2::theme_minimal())  
oc_russie_graph_naissance_et_avortements(theme = ggplot2::theme_minimal())  
oc_russie_hc_naissances_et_avortements()
```

Arguments

theme A ggplot2 theme

Value

A ggplot2 graph

A highcharts graph

Examples

```
oc_russie_graph_naissances()  
oc_russie_graph_avortements()  
oc_russie_hc_naissances_et_avortements()  
  
# Not run: needs patchwork to assemble the plot and only  
# works if the package is loaded  
oc_russie_graph_naissance_et_avortements()
```

```
oc_russie_graph_solde_migratoire
```

Solde migratoire

Description

Graphique du solde migratoire en Russie par décénies.

Usage

```
oc_russie_graph_solde_migratoire(theme = ggplot2::theme_minimal())
```

Arguments

theme A ggplot2 theme

Value

A ggplot2 graph

Examples

```
oc_russie_graph_solde_migratoire()
```

```
oc_russie_graphs_attitude
```

Attitude envers l'étranger

Description

Graphiques avec l'évolution de l'attitude des russes envers l'étranger.

Usage

```
oc_russie_graph_attitude_us(theme = ggplot2::theme_minimal())
```

```
oc_russie_graph_attitude_eu(theme = ggplot2::theme_minimal())
```

Arguments

theme A ggplot2 theme

Value

A ggplot2 graph

Examples

```
oc_russie_graph_attitude_us()
oc_russie_graph_attitude_eu()
```

```
oc_russie_graphs_esperance_de_vie
    Espérance de vie russe
```

Description

Graphiques qui montrent l'évolution de l'espérance de vie de la Russie.

Usage

```
oc_russie_graph_esperance_europe(theme = ggplot2::theme_minimal())

oc_russie_hc_esperance_europe(
  others_color = "#d7d7d7",
  russia_color = "#41afeb"
)

oc_russie_graph_esperance_65_femmes(theme = ggplot2::theme_minimal())

oc_russie_graph_esperance_65_hommes(theme = ggplot2::theme_minimal())
```

Arguments

<code>theme</code>	A ggplot2 theme
<code>others_color</code>	Color of the other European countries (highcharts)
<code>russia_color</code>	Color of Russia (highcharts)

Value

A ggplot2 graph

Examples

```
oc_russie_graph_esperance_europe()
oc_russie_hc_esperance_europe()

# Not run: needs credentials for HMD database
oc_russie_graph_esperance_65_femmes()
oc_russie_graph_esperance_65_hommes()
```

```
oc_russie_graphs_fertilite_europe
```

Indice de fécondité

Description

Graphique de l'évolution de l'indice de fécondité de la Russie comparé au reste de l'Europe.

Usage

```
oc_russie_graph_fertilite_europe(theme = ggplot2::theme_minimal())  
  
oc_russie_hc_fertilite_europe()
```

Arguments

`theme` A ggplot2 theme

Value

A ggplot2 graph
A highcharts graph

Examples

```
oc_russie_graph_fertilite_europe()  
oc_russie_hc_fertilite_europe()
```

```
oc_russie_hc_ethnies
```

Ethnies en Russie

Description

Graphique des 10 ethnies les plus fréquentes (hors Russes)

Usage

```
oc_russie_hc_ethnies(colors = palettetown::ichooseyou("salamence", 9))
```

Arguments

`colors` Colours of the columns

Value

A highcharts graph

Examples

```
oc_russie_hc_ethnies()
# for a dark background
oc_russie_hc_ethnies(colors = c(
  "#f2c46d", "#7fd1a7", "#6ea8fe", "#ff8a7a", "#c9a0dc",
  "#9fd3ff", "#ffd27a", "#e8a65d", "#b8e08c", "#f4a6c6"
))
```

```
oc_russie_hc_pib_vs_suisse
```

PIB par habitant comparé entre la Russie et la Suisse

Description

PIB par habitant comparé entre la Russie et la Suisse

Usage

```
oc_russie_hc_pib_vs_suisse(
  russia_color = "#657062",
  switzerland_color = "#d14e3e"
)
```

Arguments

```
russia_color    Colour of the Russian curve
switzerland_color
                  Colour of the Swiss curve
```

Value

A highcharts graph

Examples

```
oc_russie_hc_pib_vs_suisse()
# for a dark background
oc_russie_hc_pib_vs_suisse(russia_color = "#9fd3ff", switzerland_color = "#ff8a7a")
```

```
oc_russie_hc_religion
```

Religion en Russie

Description

Religion en Russie

Usage

```
oc_russie_hc_religion()
```

Value

A highcharts graph

Source

<https://www.levada.ru/en/2023/06/02/religious-beliefs/>

Examples

```
oc_russie_hc_religion()
```

```
oc_suisse_carte_1970_suffrage_feminin_valais
```

Suffrage féminin au valais

Description

Une carte du résultat de la votation sur le suffrage féminin au canton du Valais le 12 avril 1970.

Usage

```
oc_suisse_carte_1970_suffrage_feminin_valais(theme = ggplot2::theme_minimal())
```

Arguments

theme A ggplot2 theme

Value

ggplot2 map

Examples

```
oc_suisse_carte_1970_suffrage_feminin_valais()
```

```
oc_suisse_carte_hc_2020_religion
```

Religion par commune

Description

Religion par commune

Usage

```
oc_suisse_carte_hc_2020_religion()
```

Value

A highcharts map

Examples

```
oc_suisse_carte_hc_2020_religion()
```

```
oc_suisse_carte_suffrage_feminin
```

Suffrage féminin

Description

Une carte de l'introduction du suffrage féminin au niveau cantonal en Suisse.

Usage

```
oc_suisse_carte_suffrage_feminin(theme = ggplot2::theme_minimal())
```

Arguments

<code>theme</code>	A ggplot2 theme
--------------------	-----------------

Value

ggplot2 map

Examples

```
oc_suisse_carte_suffrage_feminin()
```

```
oc_suisse_graph_2021_immigration_italienne
```

Immigration italienne en Suisse

Description

Un graphique avec l'évolution de l'immigration italienne en Suisse de 1981 jusqu'en 2021.

Usage

```
oc_suisse_graph_2021_immigration_italienne(theme = ggplot2::theme_minimal())
```

Arguments

<code>theme</code>	A ggplot2 theme
--------------------	-----------------

Value

A ggplot2 graph

Examples

```
oc_suisse_graph_2021_immigration_italienne()
```

```
oc_suisse_hc_2023_nationalite
```

Nationalité en Suisse en 2023

Description

Graphique des principales nationalité en Suisse en 2023 hors Suisses.

Usage

```
oc_suisse_hc_2023_nationalite(colors = palettetown::ichooseyou("salamence", 9))
```

Arguments

<code>colors</code>	Colours of the columns
---------------------	------------------------

Value

A highcharts graph

Examples

```
oc_suisse_hc_2023_nationalite()
# for a dark background
oc_suisse_hc_2023_nationalite(colors = c(
  "#f2c46d", "#7fd1a7", "#6ea8fe", "#ff8a7a", "#c9a0dc",
  "#9fd3ff", "#ffd27a", "#e8a65d", "#b8e08c", "#f4a6c6"
))
```

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