

# Package ‘gapminder’

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**Title** Data from Gapminder

**Version** 1.0.1

**Description** An excerpt of the data available at Gapminder.org. For each of 142 countries, the package provides values for life expectancy, GDP per capita, and population, every five years, from 1952 to 2007.

**License** CC0

**URL** <https://github.com/jennybc/gapminder>,  
<https://www.gapminder.org/data/>,  
<https://doi.org/10.5281/zenodo.594018>,  
<https://jennybc.github.io/gapminder/>

**BugReports** <https://github.com/jennybc/gapminder/issues>

**Depends** R (>= 3.1.0)

**Imports** tibble

**Suggests** dplyr, ggplot2 (>= 3.0.0), knitr, rmarkdown, testthat (>= 3.0.0)

**Encoding** UTF-8

**LazyData** true

**RoxygenNote** 7.3.2

**Config/testthat/edition** 3

**VignetteBuilder** knitr

**NeedsCompilation** no

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**Repository** CRAN

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country_codes	<i>Country codes</i>
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### Description

Country codes

### Usage

country\_codes

### Format

Data frame of Gapminder country names and ISO 3166-1 country codes:

**country** Country name.

**iso\_alpha** The 3-letter **ISO 3166-1 alpha-3** code.

**iso\_num** The 3-digit **ISO 3166-1 numeric-3** code.

Also includes the countries covered by the supplemental data frame [gapminder\\_unfiltered](#).

### Examples

```
if (require("dplyr")) {
  gapminder %>%
    filter(year == 2007, country %in% c("Kenya", "Peru", "Syria")) %>%
    select(country, continent) %>%
    left_join(country_codes)
}
```

---

country_colors	<i>Gapminder color schemes.</i>
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## Description

Color schemes for the countries and continents in the Gapminder data.

## Usage

```
country_colors
```

## Format

Named character vectors giving country and continent colors:

**country\_colors** colors for the 142 countries

**continent\_colors** colors for the 5 continents

## See Also

[gapminder](#) for a description of the dataset

## Examples

```
# ggplot2 examples are below these base graphics examples!

# using country_colors with base graphics

# for convenience, integrate the country colors into the data.frame
gap_with_colors <-
  data.frame(gapminder,
             cc = I(country_colors[match(
               gapminder$country,
               names(country_colors)
             )]))

# bubble plot, focus just on Africa and Europe in 2007
keepers <- with(
  gap_with_colors,
  continent %in% c("Africa", "Europe") & year == 2007
)
plot(lifeExp ~ gdpPercap, gap_with_colors,
     subset = keepers, log = "x", pch = 21,
     cex = sqrt(gap_with_colors$pop[keepers] / pi) / 1500,
     bg = gap_with_colors$cc[keepers]
)

if (require(ggplot2)) {
```

```

# with ggplot2, just provide country_colors to scale_color_manual():
# ... + scale_color_manual(values = country_colors) + ...

# simple line plot for 5 countries
h_countries <- c("Egypt", "Haiti", "Romania", "Thailand", "Venezuela")
h_dat <- droplevels(subset(gapminder, country %in% h_countries))
h_dat$country <- with(h_dat, reorder(country, lifeExp, max))
ggplot(h_dat, aes(x = year, y = lifeExp)) +
  geom_line(aes(color = country)) +
  scale_colour_manual(values = country_colors) +
  guides(color = guide_legend(reverse = TRUE))

# spaghetti plot for lots of countries
ggplot(
  subset(gapminder, continent != "Oceania"),
  aes(x = year, y = lifeExp, group = country, color = country)
) +
  geom_line(lwd = 1, show.legend = FALSE) +
  facet_wrap(~continent) +
  scale_color_manual(values = country_colors) +
  theme_bw() +
  theme(strip.text = element_text(size = rel(1.1)))

# bubble plot for lots of countries
gap_bit <- subset(gapminder, year == 2007 & continent != "Oceania")
gap_bit <- gap_bit[with(gap_bit, order(continent, -1 * pop)), ]
ggplot(gap_bit, aes(x = gdpPercap, y = lifeExp, size = pop)) +
  scale_x_log10(limits = c(150, 115000)) +
  ylim(c(16, 96)) +
  geom_point(pch = 21, color = "grey20", show.legend = FALSE) +
  scale_size_area(max_size = 40) +
  facet_wrap(~continent) +
  coord_fixed(ratio = 1 / 43) +
  aes(fill = country) +
  scale_fill_manual(values = country_colors) +
  theme_bw() +
  theme(strip.text = element_text(size = rel(1.1)))
}

```

---

gapminder

*Gapminder data*


---

## Description

Excerpt of the Gapminder data on life expectancy, GDP per capita, and population by country.

## Usage

```
gapminder
```

**Format**

The main data frame `gapminder` has 1704 rows and 6 variables:

**country** factor with 142 levels  
**continent** factor with 5 levels  
**year** ranges from 1952 to 2007 in increments of 5 years  
**lifeExp** life expectancy at birth, in years  
**pop** population  
**gdpPercap** GDP per capita (US\$, inflation-adjusted)

The supplemental data frame `gapminder_unfiltered` was not filtered on year or for complete data and has 3313 rows.

**Source**

<https://www.gapminder.org/data/>

**See Also**

[country\\_colors](#) for a nice color scheme for the countries

**Examples**

```
str(gapminder)
head(gapminder)
summary(gapminder)
table(gapminder$continent)
aggregate(lifeExp ~ continent, gapminder, median)
plot(lifeExp ~ year, gapminder, subset = country == "Cambodia", type = "b")
plot(lifeExp ~ gdpPercap, gapminder, subset = year == 2007, log = "x")

if (require("dplyr")) {
  gapminder %>%
    filter(year == 2007) %>%
    group_by(continent) %>%
    summarise(lifeExp = median(lifeExp))

  # how many unique countries does the data contain, by continent?
  gapminder %>%
    group_by(continent) %>%
    summarize(n_obs = n(), n_countries = n_distinct(country))

  # by continent, which country experienced the sharpest 5-year drop in
  # life expectancy and what was the drop?
  gapminder %>%
    group_by(continent, country) %>%
    select(country, year, continent, lifeExp) %>%
    mutate(le_delta = lifeExp - lag(lifeExp)) %>%
    summarize(worst_le_delta = min(le_delta, na.rm = TRUE)) %>%
    filter(min_rank(worst_le_delta) < 2) %>%
```

```
    arrange(worst_le_delta)  
  }
```

---

gapminder\_unfiltered *Gapminder data, unfiltered.*

---

**Description**

The supplemental data frame `gapminder_unfiltered` was not filtered on year or for complete data and has 3313 rows. Everything else is as documented in [gapminder](#).

**Usage**

```
gapminder_unfiltered
```

**Format**

An object of class `tbl_df` (inherits from `tbl`, `data.frame`) with 3313 rows and 6 columns.

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