

Report gapminder

DV

Caricamento librerie e dati

I package per caricare ed elaborare il dataset **gapminder** sono i seguenti:

```
library(tidyverse)
```

```
— Attaching core tidyverse packages — tidyverse 2.0.0
—
✓ dplyr      1.1.4    ✓ readr      2.1.5
✓ forcats    1.0.1    ✓ stringr    1.5.2
✓ ggplot2    4.0.0    ✓ tibble     3.3.0
✓ lubridate  1.9.4    ✓ tidyr      1.3.1
✓ purrr      1.1.0
— Conflicts — tidyverse_conflicts()
—
✖ dplyr::filter() masks stats::filter()
✖ dplyr::lag()     masks stats::lag()
i Use the conflicted package (<http://conflicted.r-lib.org/>) to force all
conflicts to become errors
```

```
library(janitor)
```

```
Attaching package: 'janitor'
```

```
The following objects are masked from 'package:stats':
```

```
chisq.test, fisher.test
```

```
library(gapminder)
library(knitr)
library(gt)
```

Mostriamo a video una stampa delle prime 5 righe della tabella, usando una stampa “brutale”:

```
slice(gapminder, 1:5)
```

```
# A tibble: 5 × 6
  country    continent  year lifeExp      pop gdpPercap
  <fct>      <fct>    <int>  <dbl>   <int>   <dbl>
1 Afghanistan Asia      1952   28.8  8425333    779.
2 Afghanistan Asia      1957   30.3  9240934    821.
3 Afghanistan Asia      1962   32.0 10267083    853.
4 Afghanistan Asia      1967   34.0 11537966    836.
5 Afghanistan Asia      1972   36.1 13079460    740.
```

Posso sfruttare la funzione `kable` del package `knitr` per ottenere una stampa più gradevole di un output tabellare:

```
gapminder |> slice(1:5) |> kable()
```

country	continent	year	lifeExp	pop	gdpPercap
Afghanistan	Asia	1952	28.801	8425333	779.4453
Afghanistan	Asia	1957	30.332	9240934	820.8530
Afghanistan	Asia	1962	31.997	10267083	853.1007
Afghanistan	Asia	1967	34.020	11537966	836.1971
Afghanistan	Asia	1972	36.088	13079460	739.9811

Creazione di una tabella di riepilogo

La seguente tabella riporta il valore dei tre indicatori disponibili in `gapminder` per i cinque continenti relativamente all'anno 2007:

```
gapminder |>
  filter(year == 2007) |>
  group_by(continent) |>
  summarise(across(.cols = c(lifeExp, pop, gdpPercap), .fns = mean)) |>
  gt()
```

continent	lifeExp	pop	gdpPercap
Africa	54.80604	17875763	3089.033
Americas	73.60812	35954847	11003.032
Asia	70.72848	115513752	12473.027
Europe	77.64860	19536618	25054.482
Oceania	80.71950	12274974	29810.188

Scheda 1

Testo normale

Scheda 2

```
hist(rnorm(100))
```



Scheda 3

```
hist(rexp(100, rate = 1/10))
```

