Introdução ao *tidyverse*

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1 O *dataset* gapminder

Visão geral dos dados:

```
gapminder

## # A tibble: 1,704 x 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.
##  6 Afghanistan Asia       1977   38.4 14880372      786.
##  7 Afghanistan Asia       1982   39.9 12881816      978.
##  8 Afghanistan Asia       1987   40.8 13867957      852.
##  9 Afghanistan Asia       1992   41.7 16317921      649.
## 10 Afghanistan Asia       1997   41.8 22227415      635.
## # ... with 1,694 more rows
```

1.1 Filtragem de dados

```
gapminder %>%
    filter(year==2007)

## # A tibble: 142 x 6
##    country     continent  year lifeExp      pop gdpPercap
##    <fct>       <fct>     <int>  <dbl>    <int>     <dbl>
##  1 Afghanistan Asia       2007   43.8 31889923      975.
##  2 Albania     Europe     2007   76.4  3600523     5937.
##  3 Algeria     Africa     2007   72.3 33333216     6223.
##  4 Angola      Africa     2007   42.7 12420476     4797.
##  5 Argentina   Americas   2007   75.3 40301927    12779.
##  6 Australia   Oceania    2007   81.2 20434176    34435.
```

```
##  7 Austria     Europe    2007    79.8    8199783    36126.
##  8 Bahrain     Asia      2007    75.6     708573    29796.
##  9 Bangladesh  Asia      2007    64.1 150448339      1391.
## 10 Belgium     Europe    2007    79.4   10392226    33693.
## # ... with 132 more rows
```