

hw-01-gapminder-jstewart

hw_01_gapminder

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```
library(tibble)
library(gapminder)
```

To see top of file

```
head(gapminder)
```

```
## # A tibble: 6 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.
```

To see end of file

```
tail(gapminder)
```

```
## # A tibble: 6 x 6
##   country    continent  year lifeExp      pop gdpPercap
##   <fct>      <fct>    <int>  <dbl>    <int>    <dbl>
## 1 Zimbabwe Africa      1982   60.4  7636524    789.
## 2 Zimbabwe Africa      1987   62.4  9216418    706.
## 3 Zimbabwe Africa      1992   60.4 10704340    693.
## 4 Zimbabwe Africa      1997   46.8 11404948    792.
## 5 Zimbabwe Africa      2002   40.0 11926563    672.
## 6 Zimbabwe Africa      2007   43.5 12311143    470.
```

To see what types and how many variables are within the file and what they're called

```
str(gapminder)
```

```
## Classes 'tbl_df', 'tbl' and 'data.frame':   1704 obs. of  6 variables:
##  $ country   : Factor w/ 142 levels "Afghanistan",...: 1 1 1 1 1 1 1 1 1 ...
##  $ continent: Factor w/ 5 levels "Africa","Americas",...: 3 3 3 3 3 3 3 3 3 ...
```

```
## $ year      : int  1952 1957 1962 1967 1972 1977 1982 1987 1992 1997 ...
## $ lifeExp   : num  28.8 30.3 32 34 36.1 ...
## $ pop       : int  8425333 9240934 10267083 11537966 13079460 14880372 12881816 13867957 16317921 22
## $ gdpPercap: num  779 821 853 836 740 ...
```

To see descriptive statistics

```
summary(gapminder)
```

```
##      country      continent      year      lifeExp
## Afghanistan: 12 Africa :624 Min. :1952 Min. :23.60
## Albania : 12 Americas:300 1st Qu.:1966 1st Qu.:48.20
## Algeria : 12 Asia :396 Median :1980 Median :60.71
## Angola : 12 Europe :360 Mean :1980 Mean :59.47
## Argentina : 12 Oceania : 24 3rd Qu.:1993 3rd Qu.:70.85
## Australia : 12 Max. :2007 Max. :82.60
## (Other) :1632
##      pop      gdpPercap
## Min. :6.001e+04 Min. : 241.2
## 1st Qu.:2.794e+06 1st Qu.: 1202.1
## Median :7.024e+06 Median : 3531.8
## Mean :2.960e+07 Mean : 7215.3
## 3rd Qu.:1.959e+07 3rd Qu.: 9325.5
## Max. :1.319e+09 Max. :113523.1
##
```