long to wide or wide to long

Evangeline Reynolds

2/16/2019

```
library(gapminder)
library(tidyverse)
## -- Attaching packages -
                                                                - tidyverse 1.3.0 -
## ✓ ggplot2 3.3.2 ✓ purrr 0.3.3
## ✓ tibble 3.0.0 ✓ dplyr 0.8.5
## / tidyr 1.0.2 / stringr 1.4.0
## / readr 1.3.1 / forcats 0.5.0
## Warning: package 'ggplot2' was built under R version 3.6.2
## Warning: package 'tibble' was built under R version 3.6.2
## -- Conflicts -
                                                            tidyverse conflicts() —
## x dplyr::filter() masks stats::filter()
## x dplyr::lag() masks stats::lag()
library(flipbookr)
knitr::opts chunk$set(cache = F, comment = "")
```

Exercise: spread data, gather data

Sometimes, we need to transform the shape of our data. The wide form of data is an efficient way to store data - especially time-series data. However, we often need data in a long for for data analysis, so shape transformations are important.