joining data

Evangeline Reynolds

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```r
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()
```

```r
library(flipbookr)
knitr::opts_chunk$set(cache = F, comment = "")
```

Exercise: *spread data, gather data*

Sometimes we'll need to join diverse data together from different sources. Here let's create a contrived example. We'll pretend that the data comes from various sources

```
gapminder %>%
  select(country, lifeExp, year)
  country_life_exp
```

```
gapminder %>%
  select(country, pop, year) ->
  country_pop
```

```
country_pop %>%
  full_join(country_life_exp,
            by = c("country", "ye
  merged_data
```