DPR 190

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Data for Political Research

What is it?

A dataset:

```
## # A tibble: 5 x 5
##
     ccode1 n events fatalmin fatalmax country
##
      <dbl>
               <dbl>
                         <dbl>
                                   <dbl> <chr>
        517
                   27
                             16
                                     425 Rwanda
## 1
        490
                   15
                            16
                                     262 Congo - Kinshasa
## 2
## 3
        290
                            11
                                      20 Poland
        702
                   15
                                       2 Tajikistan
## 4
        200
                   73
                            24
                                      71 United Kingdom
## 5
```

Tidy cross-sectional data:

- Each row is a unique unit of observation
- Each column is a variable for a unique unit
- Each cell contains only one value

Not a cross-sectional dataset:

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

If a unit makes **makes more than one appearance** in the data, the data is either not tidy or not cross-sectional.

- What's a benefit of cross-sectional data?
- What's a limitation?

- Efficient, snap-shot, case comparisons, generate hypotheses
- What's a limitation?

- Efficient, snap-shot, case comparisons, generate hypotheses
- Apples-to-oranges, selection bias

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