

## Data Visualization Using Spreadsheets – crib sheet

### Video

<https://www.youtube.com/watch?v=jbkSRLYSojo>

### Bar charts

- Countries sheet - First 8 countries + population, default Column chart
- Cities sheet - First 8 cities + latitude + temperature, change to Bar chart, Customize style, titles, horizontal axis
- Cities sheet - Average temperature for countries: pivot table with Rows country, Values temperature AVERAGE, select first 10 default Column chart; sort; default Column chart for last 10, note scale then default Column chart for all
- Countries sheet - Number of countries in and not in EU, separated by coastline or not: pivot table with Rows EU, Columns coastline, Values country COUNTA, copy-paste special to new sheet, edit labels, select cells, default Column chart, then Stacked column chart, then Switch rows/columns

### Your Turn

### Pie charts

- Countries sheet - count of EU versus non-EU: select EU column, Default pie chart, show other pie types
- Cities sheet - number of cities in five countries with most cities: pivot table with Rows country, Values city COUNTA, sort by COUNTA of city Descending, select first five, default bar switch to pie
- Cities sheet - first five cities with latitude, nonsensical as pie chart

**Your Turn** (“east” and “west”, =countif(d:d,”>0”) and =countif(d:d,”<0”))

### Scatterplots

- Cities sheet – temperature versus latitude, then temperature versus longitude, then latitude versus longitude (copy latitude column to the right of longitude)

**Your Turn** (copy population column to right of latitude)

### Maps

- Countries sheet - country and population, Customize Geo - Region Europe, Colors shades of blue
- Countries sheet - want colors of coastline or not, add column coastline2, =if(d2=”yes”,1,0)

### Your Turn