

Tableau – crib sheet

Setup

Connect, Text file, CitiesExt.csv, Go to Worksheet, explain Dimensions and Measures, remove geographic role from Latitude and Longitude, remove Country/City hierarchy

Bar charts

- Average temperature for each country (Columns Country, Rows AVG(Temperature)), ascending/descending, flip axes, show filter under AVG(Temperature)
- Minimum latitude + maximum temperature for each country (Columns Country, Rows MIN(Latitude) MAX(Temperature), side-by-side bar chart)
- Number of countries with/without coastline (Columns Coastline, Rows CNT(Country) *wrong* change to CNTD(Country)), colored by EU (drag EU to Color), then reverse roles, show tooltips

Pie charts

- Number of cities in/not-in EU: Columns EU, Rows CNT(City), command-B, note tooltips, add EU and CNT(City) to Label
- Number of cities in each country: Columns Country, Rows CNT(City), command-B, add filter to CNT(City) 15-24, add Country to Label

Scatterplots

- Latitude versus Temperature (Columns Latitude, Rows Temperature), Analysis menu uncheck Aggregate measures, Shape, add City to Tooltip
- Lat-Long “map”: Columns Longitude, Rows Latitude, Analysis menu uncheck Aggregate measures, Shape
- Add Coastline to Color + Temperature to Size; then Temperature to Color + Coastline to Shape, add City, Country to Label; then Country to Color

Packed Bubbles

- Columns Countries, Rows AVG(Temperature), packed bubbles; add AVG(Latitude) to Color; add Population to Tooltip; note default SUM(Population) discuss duplicates change to MIN/MAX/AVG

Maps

- Double-click Country, add AVG(Temperature) to Color, add EU to Label, change to AVG(Population)

Dashboard

- Remove population from map, create Dashboard, rename Sheet + add to Dashboard
- Create new Sheet with latitude bar chart (Columns Country; Rows AVG(Latitude)), rename Sheet + add to Dashboard, select Use as Filter in Sheet with map, show one country and multiple countries
- Create third sheet with number of cities pie chart, rename Sheet + add to Dashboard, show a few countries, point out legend but go back to Sheet to add Country and CNT(City) to Label, back to Dashboard