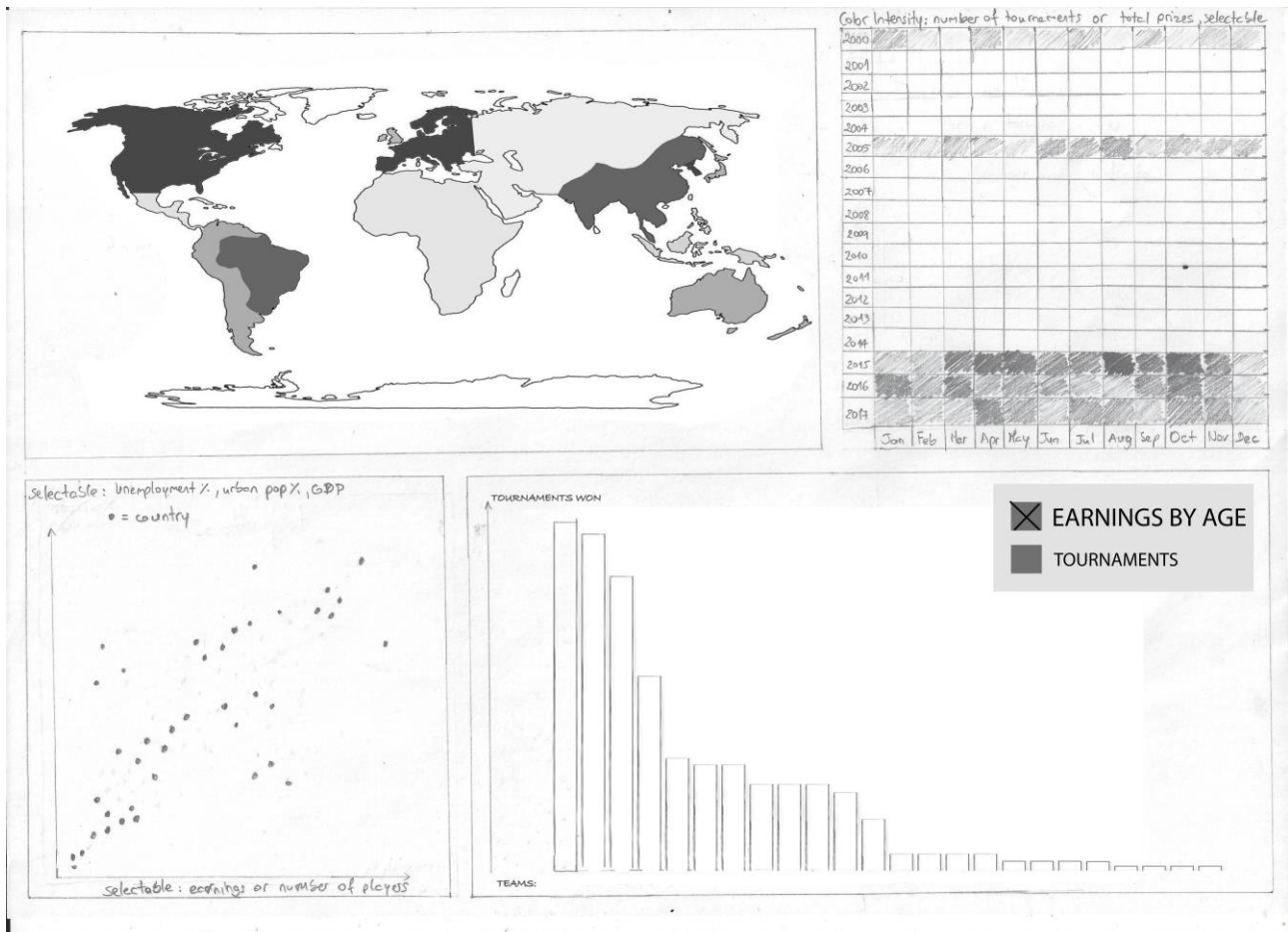


# Information Visualization

## CHECKPOINT III: Visualization Sketch

G13 – A

### 1. Overview



Our visualization will be focused around a Choropleth Map and it will dictate what the other idioms display. This will also be interactive by selecting a given area/country in the map or searching by a specific country name in a dropdown dedicated to it.

The idioms affected by the previous selection are:

1. Scatter plot;
2. Bar chart;

The first will display the unemployment or the urban population rates by the player earnings for the selected area or all the countries if nothing is selected in the Choropleth Map.

The second will show the player earnings in different ages within the selected area or all players if nothing is selected in the Choropleth Map. If a certain square is selected in the Heat Map, the bar chart will display either the earnings/quantity of tournaments for each team or the earnings/quantity of tournaments for each game in the respective month of a given year.

The last idiom will be a Heat Map and it will have the possibility of filtering these tournaments data by teams or games and, as mentioned previously, it will affect the Bar Chart idiom.

## 2. Visual Encoding

### Choropleth Map:

Marks: Area (Country shape)

Channels: Colour saturation (for the earnings in each country), colour hue (if a country is selected, it will have a different hue to highlight it)

### Scatter plot:

Marks: Points

Channels: Position on X (earnings) and Y (unemployment/urban population percentage or GDP of country), colour hue (to distinguish between unemployment and urban population)

### Bar Chart:

Marks: Area (bars)

Channels: 1D size (height) represents earnings/quantity of tournaments played, position on X represents age/game/team

### Heat Map:

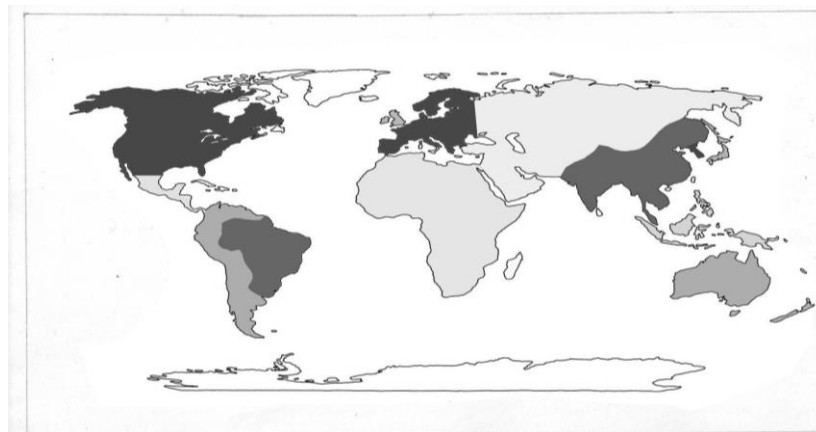
Marks: Area (rectangles)

Channels: Colour saturation represents tournament prize or quantity of tournaments, position on X (month), position on Y (year)

## 3. Idiom and Tasks/Questions

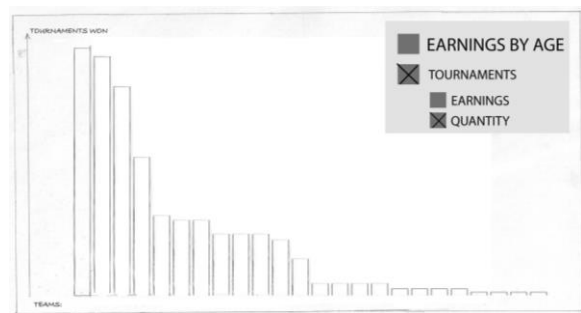
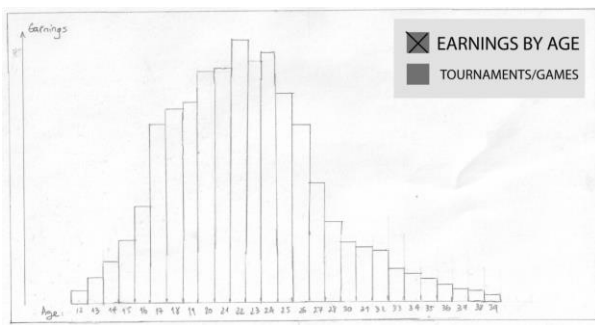
Choropleth Map answers the following questions:

- What countries have the highest earnings?



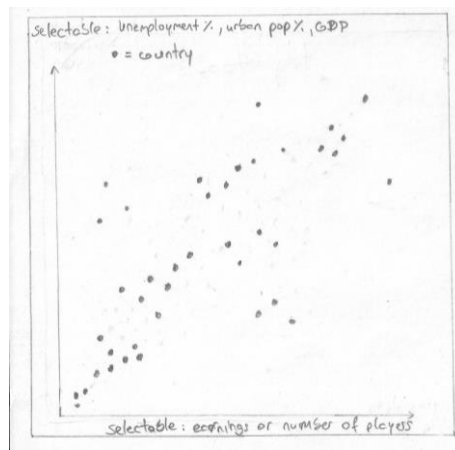
Bar chart answers the following questions:

- What organizations earned the most?
- What is the age at which players earn the most?
- What games have the most earnings?



Scatter plot answers the following questions:

- How does unemployment correlate with player earnings?



Heat Map answers the following questions:

- What months are the most active in esports?

