# Information Visualization

# CHECKPOINT III: Visualization Sketch

G01-A

**1. Visual Encoding**

For our variables, we opted for two main visual encodings, depending on the nature of the purposes we were looking for.

To represent the amount medals of each country or coefficient (medals/population) in a ranking, under certain circumstances (time, sport or medal), we used length and position in a bar chart. The length is the amount of medals and a different position is assigned to each country. This allows us to browse through the countries sorted by number of medals.

To represent the country’s amount of medals or its coefficient on a map, under certain circumstances, we used circles placed over that map (that should be scalable for easy navigation). The size of the circle is determined by the amount of medals or the coefficient (depending on the visualization), and the circle’s position is set using the country’s coordinates. This allows us to navigate through the countries more easily.

Additionally, to represent the year, which will affect the visualisations, we will use a timeline, and to more easily select countries for focus, we intend to have a search bar.

**2. Idiom and Tasks/Questions**

* + - 1. First off, to make the marks distinguishable, a country’s circle we have selected on the map will gain a different colour, just like the corresponding bar in the chart (and vice versa, if we select the bar). The countries selected for comparison will also have different colours .The colours were chosen bearing in mind impairments caused by colour-blindness.
      2. The circumstances mentioned before will decide with pieces of data are displayed. The medal and sports will be chosen in a drop-down menu, also giving the chance of showing information for all the medals or sports at once. The time variable is represented with the timeline, where we drag a slider for the year, with an extra option to represent information for all the years.
      3. write the questions, how each picture answers the question, mention what the “mouse clicks” on the pictures mean