The pursuit of happiness



Purpose of our journey

Hey! We are Aurore and Diagou and we are fed up with Paris. We want to live in a country where people are happy all year around. To do so, here is what we are going to do.

- We have downloaded the "World Happiness Report' that ranks the happiest countries in the world according to 6 criteria:
 - GDP per capita
 - Social support
 - Healthy life expectancy
 - Freedom to make life choices
 - Generosity
 - Perception of corruption



Purpose of our journey

However we are quite picky and would like to add other criteria before moving to a country. Here are our requirements:

- A high level of sunshine exposure per year
- A urban place
- A moderate fertility rate, meaning that the government supports women







~ 153 countries

10 regions



Data cleaning



Scrape 3 new tables



Merge these tables with the original one, based on the country name



Create pipelines to clean the final table





Countries or Regions?

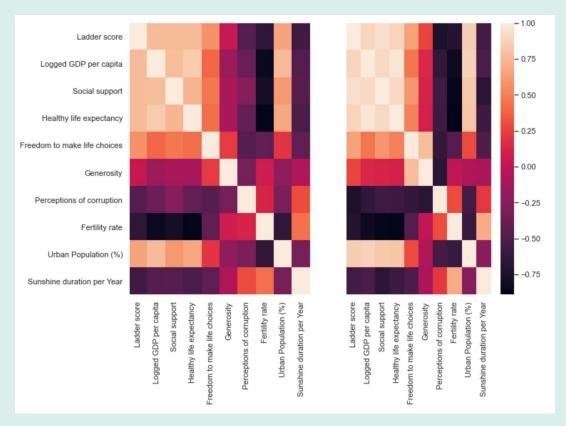
Which of them is more relevant for happiness?





Correlations and heatmaps

2

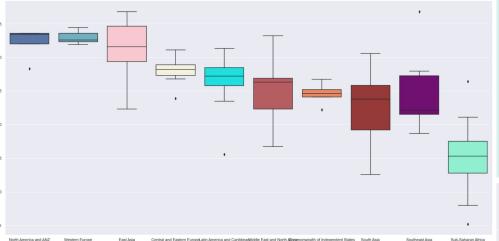




 We see that correlations levels are much higher

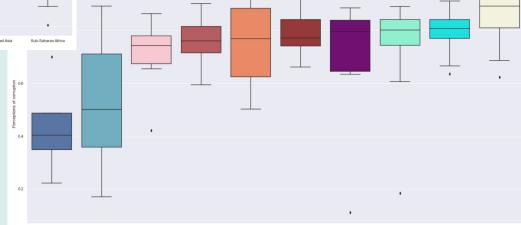
Now, we would like to make a top 3
of the regions with the overall best
indicators

Boxplots for the 9 indicators

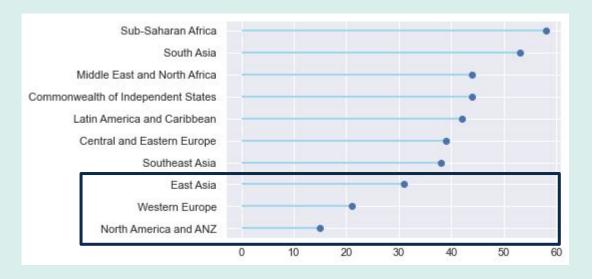


Perception of corruption









- We calculated the mean of each criteria by region
- We ranked the region depending on this mean
- For each region, we added all the rankings. The lowest it is, the better

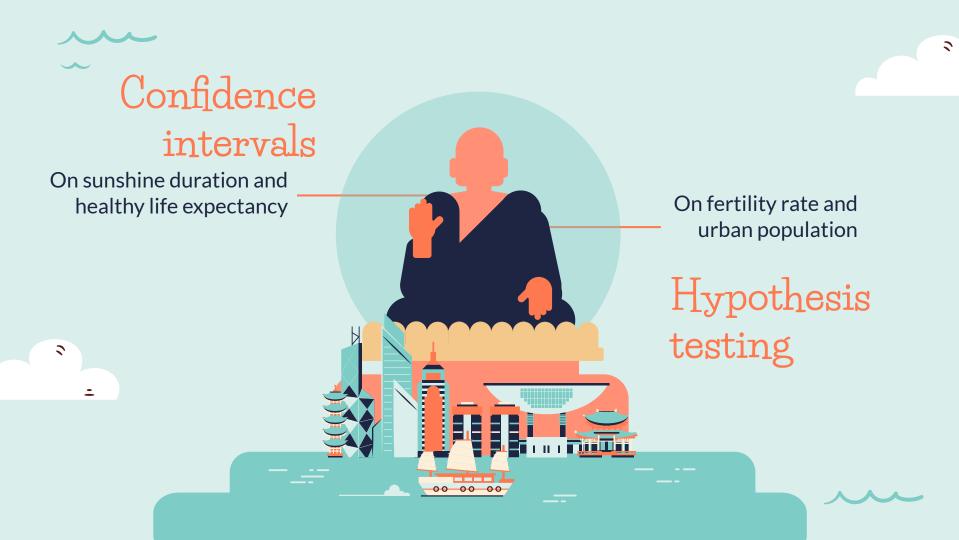
Let's deep dive on our top 3 regions



Countries selected in our top 3 regions

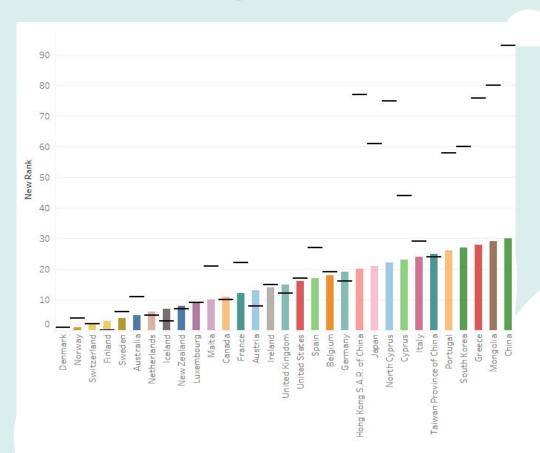


Stats time!



Final decision:)

New ranking by countries .





Our top 3 countries



Denmark Norway Switzerland



Difficulties & learnings

Difficulties:

- Understand the dataset
- Choose right website to scrape
- Versioning
- Be sure about the hypothesis to test

Learnings:

1

- Data viz / Tableau
- Implement statistics on a dataframe
- Using new functions: rank, transform...

