

LAYOUT

social support.

Western Europe	Latino America	North America
Sub Africa	East Asia	South Africa

logged GPP

Latino America	North America
EA	SA
South Africa	Western Europe

Health life.

Western Europe	Lat. Amer	North Amer
Latino Amer	Indep	sub Africa
East Asia		

INFO

Title: FIT3179A82

Author: Yuzhuo Ma

Date 02/10/2021

sheet Num: 4

OPERATION

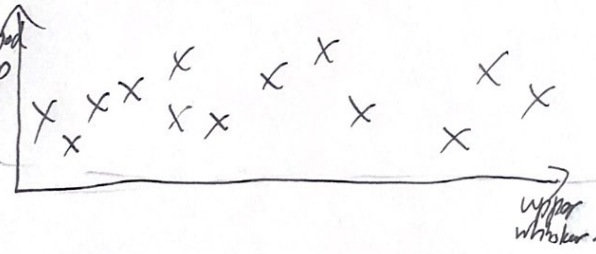
- 1. each place in map can show the cod tips of each detailed happiness score.
- 2. the scatter plot can have. clickbox to check which region's country.

DISCUSS

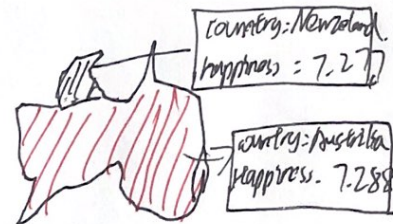
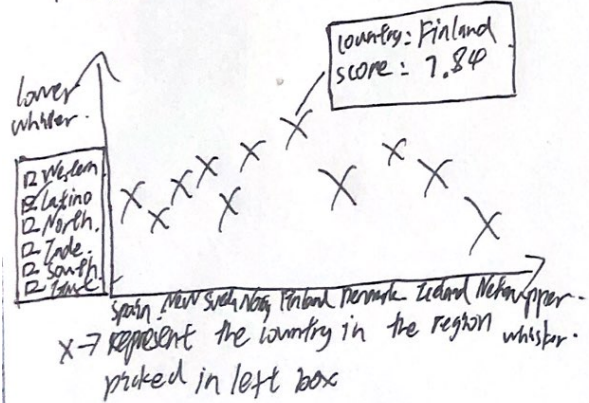
- +ve
- the attribute showing is compressive, it contains almost all the attribute in dataset.
- the storytelling is good in this visualization, it shows the different scale of regards the region.
- ve
- the interactivity in this visualization is not enough.
- tree map may not be a good choice to show detailed difference.



<input checked="" type="checkbox"/> Western	logged
<input type="checkbox"/> Latino Amer	GPP
<input type="checkbox"/> North Amer	
<input type="checkbox"/> Indep	
<input type="checkbox"/> South Africa	
<input type="checkbox"/> East Asia	



FOCUS



→ same as sheet 2.
happiness score:

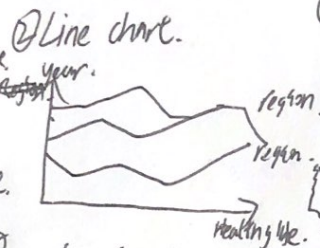
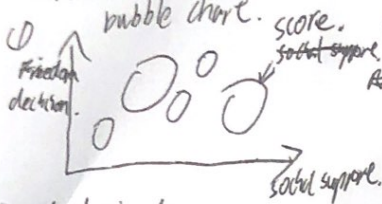
South Africa	Latino America
72%	55% = 72%
East Asia	Western Europe
40%	60%
Asia	54%
40%	54%
	5:592%

→ different area means the average social support in this region, more place, more social support.

East Asia	Sub Africa
North America	Western Europe
Latino America	Indep
region: Western	score: 9.3

→ score here represent the average score.

IDEAS



③ choropleth map



④ word cloud

⑤ pie chart

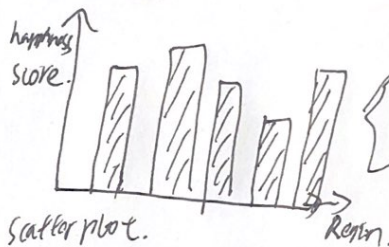
⑥ Western Europe.
North America. East Asia.
South Africa.



⑦ Tree map

Finland.	Sweden	Luxembourg	Austria
Denmark	Zeeland.	V.K.	Island
	Norway	Germany	Belgium

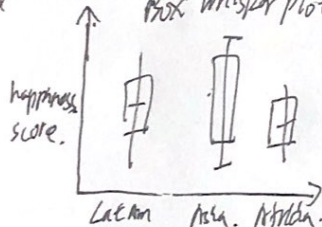
⑧ Bar chart



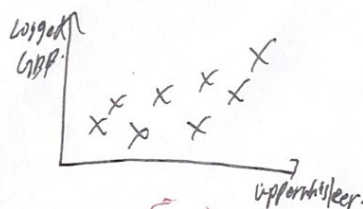
⑨



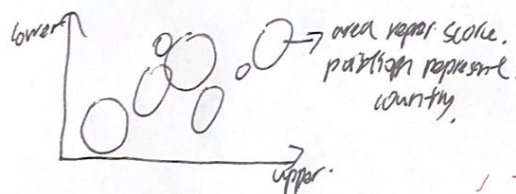
⑩ Box whisker plot



⑪ Scatter plot



⑫ bubble chart (with lower, upper whisker)



Refine and combine

①, ② can be combine in the choropleth, with color luminance, to represent the score of happiness.

④ can be refined as the data filter; to do interactive.

⑪, ⑩, can be combine more, where can use category for compare and area represent score.

② can be used to show the trend of each region.

Filter

③ choropleth map (quantitative score with category)

④ bubble chart

④ word cloud (category region sun score)

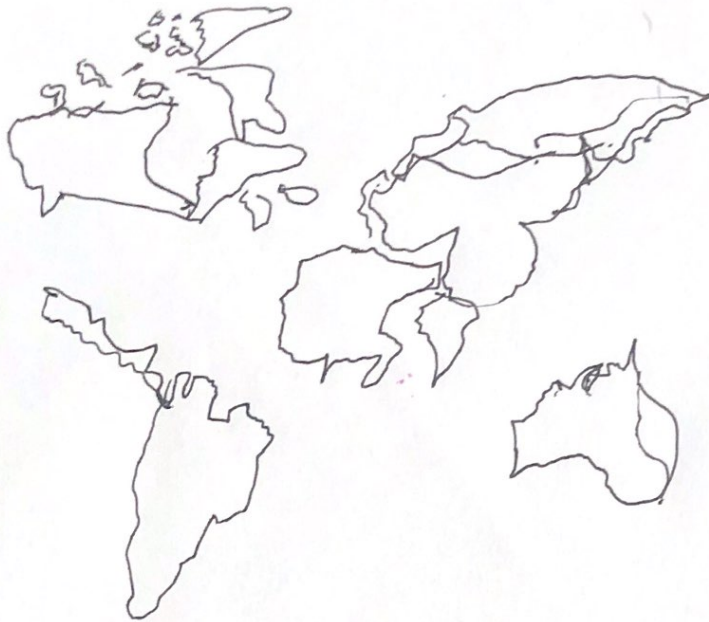
④ box whisker plot

④ bar chart

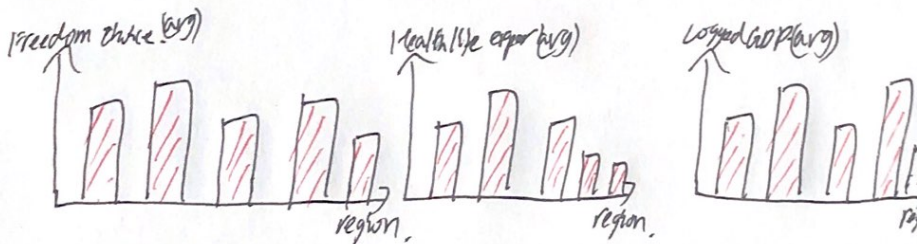
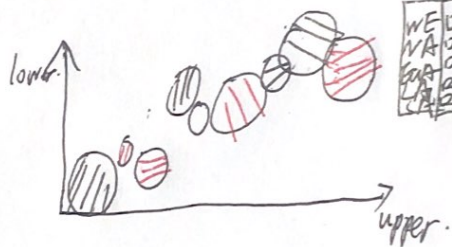
QUESTION

- can reader filter region to check the specific country's score in one region?
- can user following the whole map data visualization follow your story telling?
- can user clearly understand what region or what country is highest score? can they see the difference directly.

LAYOUT



North America.
Western Europe. East Asia.
Latin America. Sub Africa. South Africa.



North America.
Western Europe. East Asia.
Latin America. Sub Africa. South Africa

Highest region: West E
avg score: 7.3.



Poland. Denmark. Switzerland. Finland upper-

→ Each bubble represent a country in region.
→ scale represent different happiness score.

bar chart showed in sheet Num 2. (same)

INFO

Title: FL13179_Ass2

Author: Yuzhuo Ma.

Date: 01/10/2021

Sheet Num: 3

OPERATION

1. Each place/region in the map can be click to get the tooltip.
2. the bubble chart can have operation, user can click the box to check the specific region's happiness score related to the upper, lower whisker.
3. tooltip also can be used in bar chart and world cloud.

DISCUSS

+ve
→ The bubble chart have high interactive, to represent different country in one region, this can be combine with the world cloud.

→ three bar chart can clearly show the three attribute in dataset.

-ve
→ bar chart may not a good choice to represent small difference

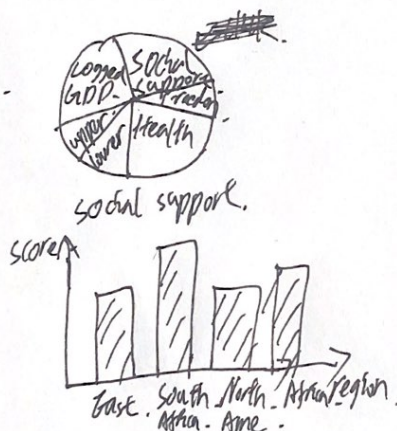
LAYOUT



Happiness score.

Click

Latino America Finland	East Asia	South Africa
WESTERN EUROPE	North America	sub Africa



FOCUS

map (extra part of it)

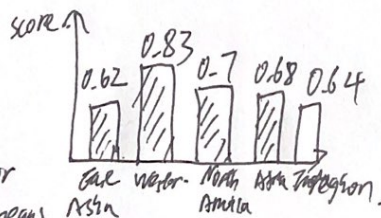


Tree map.

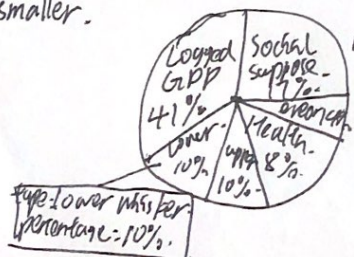
→ the map show the darkness for the happiness score, higher means smaller.

Latino America. Happ score (avg) = 6.3	East Asia score = 4.3	South Africa score = 4.2
Western Europe Happiness (avg) = 6.8	North America score = 5.2	sub Africa 5.3

social support



smaller.



INFO

Title: FLT 3179, Ass 2

Author: YUZHUN Ma

Date 02/10/2021

Sheet Num: 2

OPERATION

1. Each place in the map can have a tooltip.
2. here we use pie chart, as the filter, to control what will show in bar chart.
3. there will have tooltips in tree map.

DISCUSS

+ve.

→ The map with equal rectangle projection is clear to show all the country in database and tooltips is clear.

-ve.

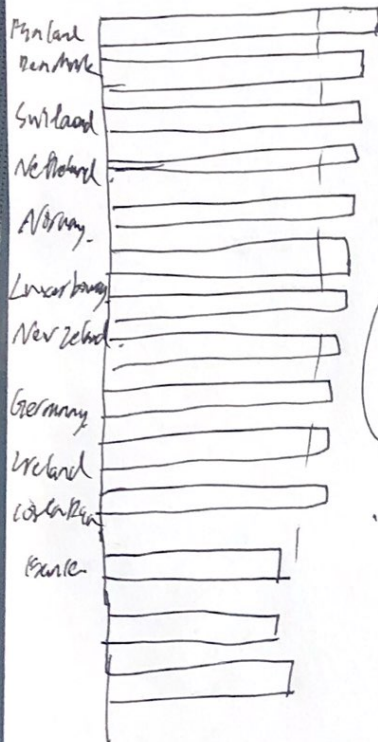
→ the pie chart to represent different marking standard is not a good choice.

→ bar chart. ~~is not~~ is not good to show the small difference.

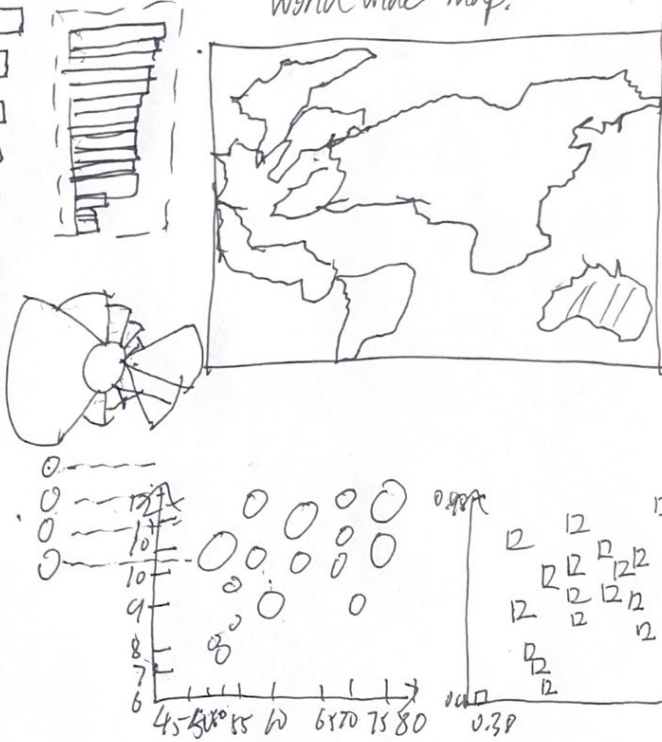
LAYOUT

Title.
details for the visualization.

Lodderscore - Mean Latplerscore.



World wide map.



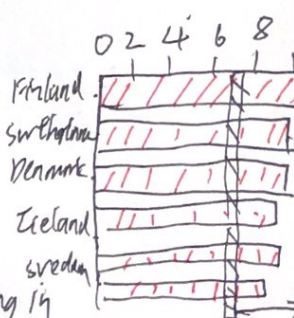
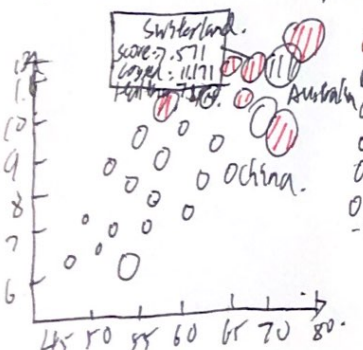
INFO
Title: FET 3119 ASS2
Author: Yuzhuo Ma
Date: 02/10/2021
Sheet Num: 5

OPERATION

1. the map can zoom in and out for different region as zoom center.
2. bubble chart can use region as filter, and can have region for highlight.
3. heat map can select specific region.
4. the chart can have highlight and select.
5. every have tooltips.

DISCUSS

- the interactive in this
- graph is ~~good~~ enough for render to understand user can check detail for the region they interest.
- the attribute in this visual is comprehensive
- the layout can be improve.



sorted top 30 countries
average score for the 149 countries

- Each chart have their own region selection to filter the data
- bar chart here is give us an overview of the visualization.
- map can be zoom in
- each chart have tooltips encoding in