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Topic: The Influence of Anime

Aim:

- To dive deep into the world of anime and to see how much the art form has grown over the years.
- To look into the reach of anime and find out whether it has had a significant influence in areas outside Japan, its country of origin.
- To find out the factors/parameters that make an anime successful

Motivation:

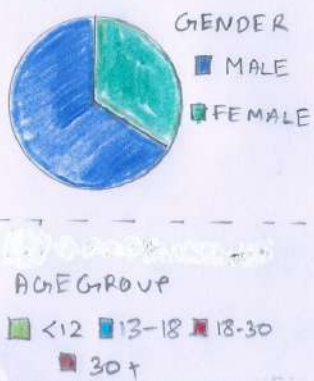
As a fan of anime, I always wanted to do a project related to it as I ought to see what makes this genre the sensation that it is today. Also it will be very helpful for new anime fans to get an idea of the genre.

1 IDEAS

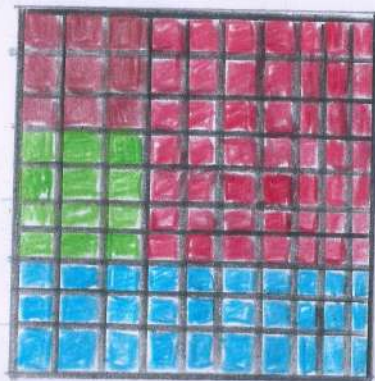
① Choropleth map



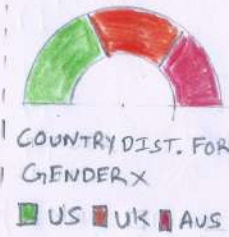
② PIE CHART



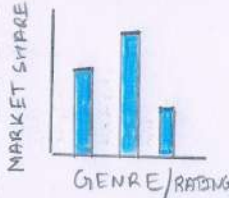
⑤ WAFFLE CHART



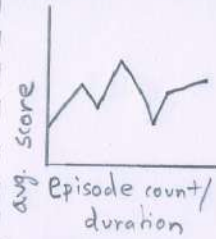
③ SEMICIRCLE DONUT CHART



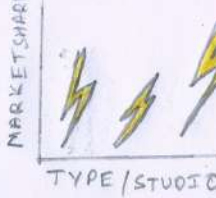
④ BAR CHART



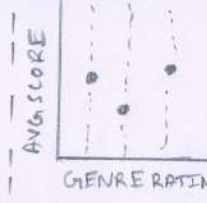
⑥ line chart



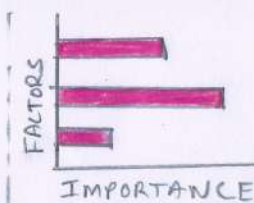
⑦ PICTORIAL BAR chart



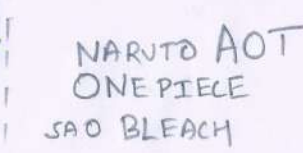
⑨ Dot chart



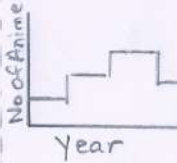
⑫ HORIZONTAL BAR chart



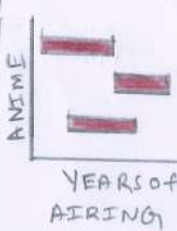
⑩ Word cloud



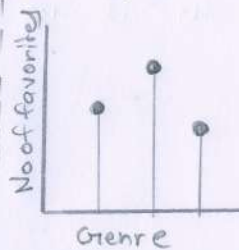
⑬ STEPPED LINE GRAPH



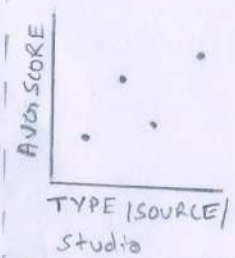
⑭ Gantt chart



⑪ Lollipop chart



⑧ Scatter plot



⑮ Multiline graph



2. FILTER

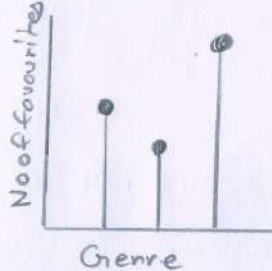
⑩ WORD CLOUD

FAVOURITE ANIME

NARUTO
ONE PIECE
BLEACH

EVEN though Asthetically nice, this is completely irrelevant to our project as we are trying to find out the factors that make an anime good not the best anime

⑪ Lollipop chart



Similar to ⑩ this is also irrelevant as we do not care about what genre is the most popular as it does not contribute to the anime's quality

⑬ Line graph (stepped)



↳ No of anime produced in a year doesn't give us the market share

⑭ Gantt chart



↳ The airing of an anime doesn't determine its success

3. CATEGORIZE

① ④ ⑦ → Deals with market + share

② ⑤ ③ → Focuses on the Gender Demographic

⑥ ⑨ ⑫ ⑧ → emphasizes on the average score and the factors that influence it

⑮ - Looks into views and total users over the years

4. Combine AND Refine

④ and ⑦ can be combined to form a bar chart with a filter to choose the x axis

⑥, ⑨ and ⑧ can merge to form a line chart with a selector for the x axis

②, ③ and ⑤ can be joined to create a sunburst diagram where the hierarchy can be swapped

QUESTIONS

* What is the market share of anime globally?

* What are the factors that make an anime good?

* Has anime grown over the recent years?

LAYOUT

MARKET SHARE

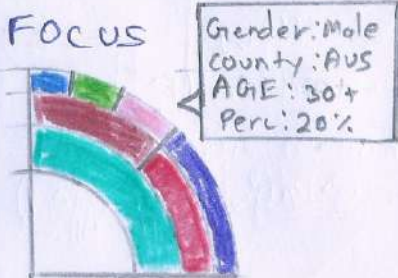


DEMOGRAPHIC HIERARCHY

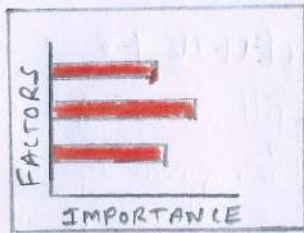
GENDER → COUNTRY → AGE

USER DEMOGRAPHIC

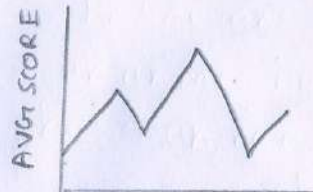
FOCUS



If we hover over a part of the sunburst diagram it will show the details and percentage of the hovered part



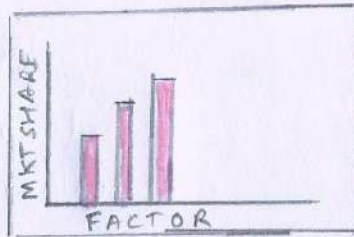
SCORE ANALYSES



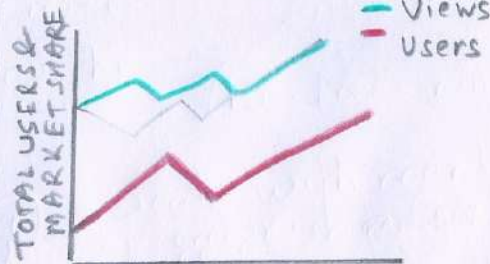
CHOOSE FACTOR

FACTOR

TOP 5 ☒ ALL ☐

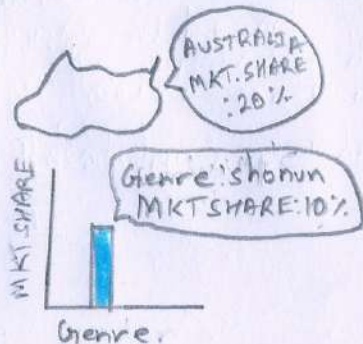


YEAR

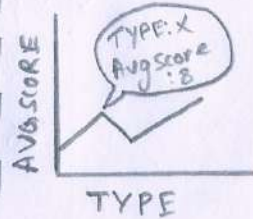


YEAR

ANIME OVER THE YEARS



When we hover on a bar or country we will get the market share and the country / factor name



When we hover over a point in any of the line graphs we get the details of the x and y axis values

TITLE: INFLUENCE OF ANIME

AUTHOR: HARISREGHAN SIVAKUMAR

DATE: 8th October 2021

SHEET: 2

TASK: Visualization Layout

OPERATIONS

- Clicking a country will only give details of that country only. This can be done by clicking on a country on the map
- Click on a factor gives us the factor vs market share bar chart. If a country is ~~click~~ clicked it will only show for that country
- Drop downs are available for hierarchy and factor selection
- Slider is provided to give the year range

DISCUSSION

Pros:-

Very creative & interactive
Has a decent amount of filters

Cons:- As the information we get for factor vs market share depends on what we click on other graphs it is pretty difficult

- Multiline graphs is not suitable as Users is a number and Market share is in %

LAYOUT

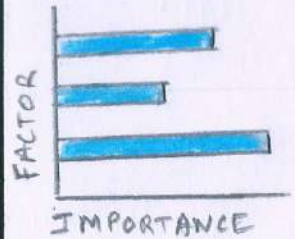
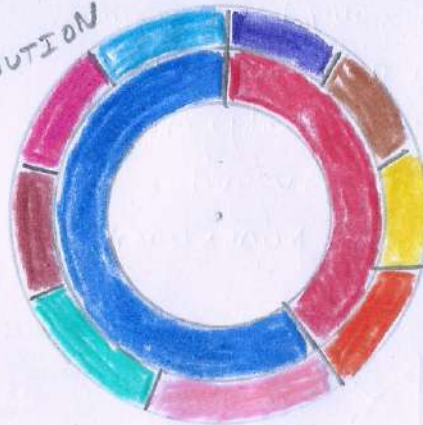
GLOBAL MARKET SHARE
 ○ MAP ○ BAR CHART (TOP 10)

USER
 DISTRIBUTION



MARKET
 SHARE
 >50%
 25-50%
 10-25%
 <10%
 0%

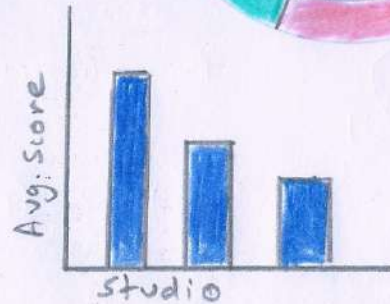
AREA:
 WORLD
 HIERARCHY
 ○ Gender-Age
 ○ Age-Gender



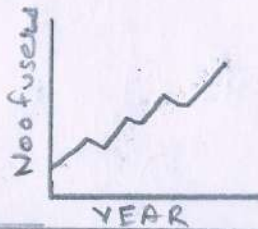
FACTOR

STUDIO

○ Avg. Score
 ○ Market share
 □ Top 10

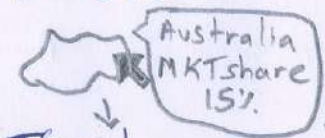


YEAR RANGE



○ Users ○ No of Views

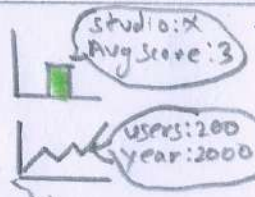
FOCUS



If we click on a country

If we hover over a country we get the details of its market share

the user demographic for that country will be displayed



If we hover over a bar or line graph we will get the x and y values

○ Avg Score
 ○ Mkt share

→ They allow us to choose the required parameters



helps us select the year range



If we hover over a sector in the sunburst diagram we will get some details

TITLE: THE INFLUENCE OF ANIME

AUTHOR: HARISRIGUHAN SIVAKUMAR

DATE: 8th October 2021

SHEET: 3

TASK: Visualizing Layout

OPERATIONS

- Clicking on a country in the market share map will give us the user distribution for that specific country
- Can toggle between a map & a bar chart for global market share. Similarly many radial buttons are present to choose between options.
- Hovering over any part of any graph gives detailed information on it.
- A Year slider helps us set a range of years
- Top 10 has a checkbox to switch between All and top 10

DISCUSSION

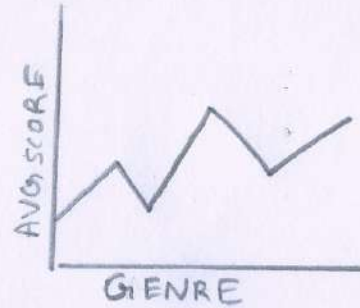
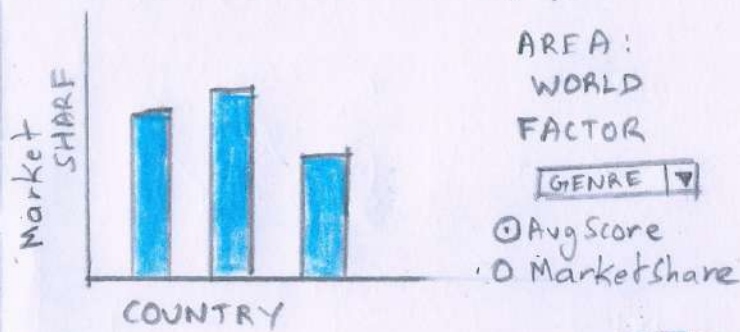
Pro:-

- Lots of filters, so the visualization will not be clumsy
- Sunburst diagram has only 2 levels so can understand it better.
- Filter options are given clearly without any confusion
- Line graph more clear as we can choose a x axis value

CONS:- A lot of filter can be cumbersome

LAYOUT

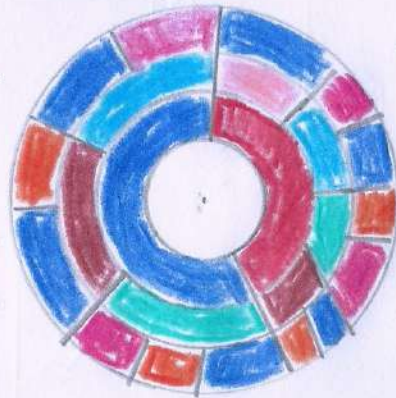
Global Market Share (Top 10)



User distribution

Hierarchy

Gender - Age - Country ▼



YEAR RANGE

Number of
① Users
② Views



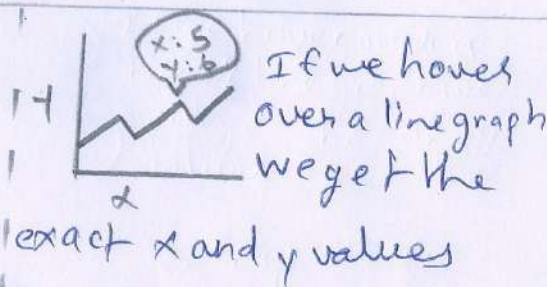
FOCUS

Gender: Male
Age: 30+
Percent: 3%

Hovering over the sub-burst chart gives us detailed info about it.



If we click on a bar we will get information for that country in the graph next to it



① Avg Score clicking on
② MK+ share one of them changes the Y axis



slider lets us assign the year range

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SHEET: 4

TASK: Visualization Layout

OPERATIONS

- Drop down for Factor and Hierarchy
- ~~Hovering~~ ^{clicking} on a bar in the global market share graph will display the factor vs score/market for that country
- Dual slider for year range
- Hovering will give us the details as a tooltip
- Radial buttons are provided for Y axis attributes

DISCUSSION

Pros

:- Bar graph for Global market share makes it easier to understand

Cons:-

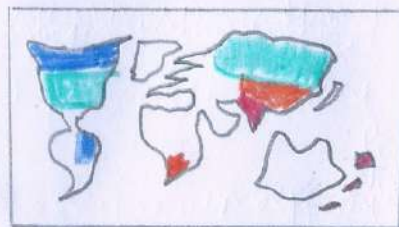
Absence of a map reduces data complexity

3 tier sub-burst chart is ~~difficult~~ difficult to understand for some

LAYOUT

GLOBAL MARKET SHARE

MAP BAR CHART (TOP 10)



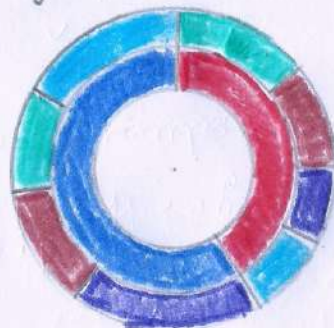
MARKET SHARE
 >50%
 25-49%
 10-24%
 <10%
 0

Gender

MALE
 FEMALE

Age:

30+ 20-29
 13-18 <13



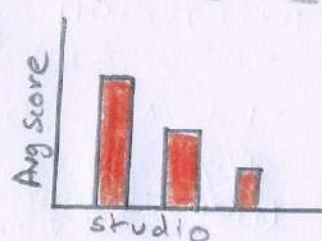
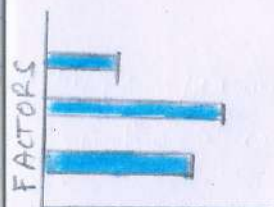
FACTOR

STUDIO

Aug score

Market share

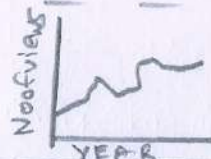
Top 10



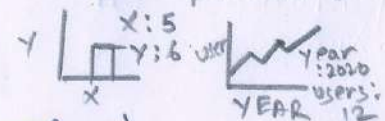
YEAR RANGE



Users Noof views



FOCUS



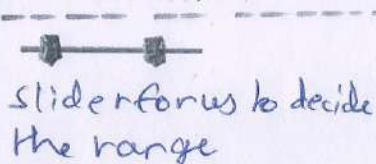
If we hover over any graph we will get the details as a tooltip

If we click on a country in the global market share map or bar chart it will change the User Distribution for that specific country

Score Market
 A few radial buttons are kept to choose one between them

Top 10

The top 10 checkbox displays only the top 10 of the visualisation



TITLE: THE INFLUENCE OF ANIME

AUTHOR: HARI SRIGUHAN SEVAKUMAR

DATE: 8th October 2021

SHEET: 5

TASK: Visualization Final Layout

OPERATIONS

- Clicking a country on the market share map/bar will give us the distribution of users for that country
- Many toggle bu/radial buttons are provided to choose between many options. This is available on most graphs.
- Hovering any part of a graph gives the details about it
- A slider to choose the year range
- A checkbox to enable/disable the top 10 feature

DETAIL

Algorithms: linear Regression
 dependencies: R, shiny, HTML, CSS, lm, tidyverse, broom

DATASETS: Multiple subsets of the data sets about my anime list data set will be used