Name James Alexander
10 24726861
Sheet No 1

# Ideas

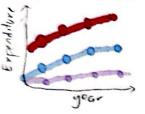
1. Quantitative data

a. Chloropleth map



a Multi line chart

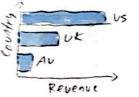
b. Area chart

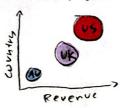




a. Bur Charl

b. Bubble Chart

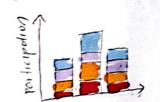




6. Ordinal data

a. Stucked Bur chart





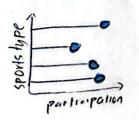
b. Sankey chart

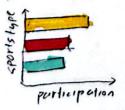




a . Lollipop chart

b. Bar chart

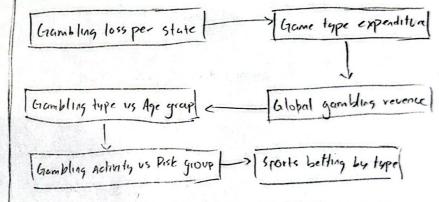




# Filter

- 1. Gumhling Loss per adult per state ( chloropieth map:
  - Colour gradient allows for easy companson
  - Creographic data makes it more amuzing to Visbalize data
  - Ability to display toolips while maintaining good looles
- 2. Expenditure trends by game type Multi line chart:
  - Line position shows change in time effectively
  - Shows changes in trend effectively
- 3. Global gambling Pereuve Box chart:
  - Simple and direct
  - Visualizes categorical deta (country) well

Categorize



Combine and Refine

Chloropleth map + line chart

- Add a filter by state
- State shows gambling expenditor over the years usualized in the line chart

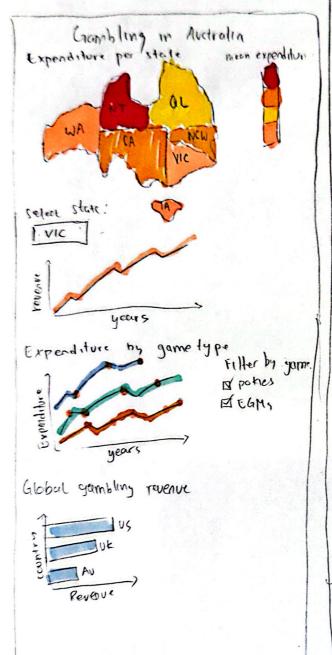
### Questions

- Is it possible to combine chloropleth map and line chart?
- Is it necessary to use follipsp chart instead of Bar chart?
- Is there a better way to categorize the data?

Name: James Alexander
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sheet No : 2

Layout



# Operations

Gambling expendeture by state:

- thick on select state filter and relect the states to view gampting expenditure over the years

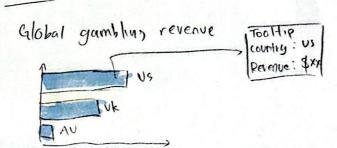
Exportation by game type:

- click on the flick box to filter the line chart by game type.

Global gambling revenue

- Hover and the bar to access the tooltip which will display gampling revenue details.

#### FOCU 5

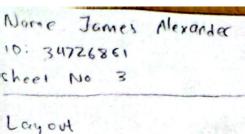


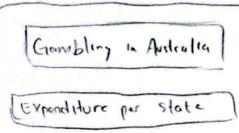
### Concept:

- Bow chart daplays a toolty when hover towards

### Discussions:

- Is bek box the most effective way to fifter data
- should we create colour legends for global gombling revenue





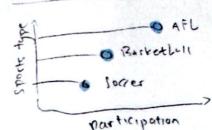


# Gambling preferences by Age group



Campbling type of Lattery of spoots betting

Spork betting by type



Operations

Grambling expenditure by stell

- Oceans and graticules are displayed for Letter visualisation

Garalling preferences by age group

- Click on the tick sox to view participation for a specific gambling type for each Age group

Sports betting by type

- Hover onto the circle to view the tool tip which will display percentage (%) of participation

Focus

Garabling prederences by Age group

Garabkan type:

tick of sports betting

20t 36-40 40.

nutick -2 totterd

Courept .

- Stacked box chart will display about based on which gambling type is ticked. If unticleed, it won't be displayed

### Discossion

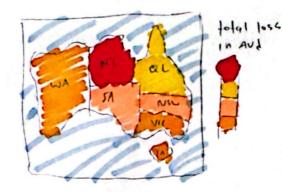
- Are ocean and graticules necessary in the chloropleth map?
- Does making a box for headings and subhead-

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Sheet No. 4

Layout

Gentling in Australia

Expanditive per state

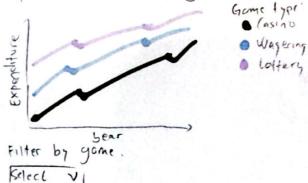


Grandling Activity vs Pirk group mean expenditure

20



Expenditure trends by yamr type



Operations

Gambling Activity us Risk group

- flower anto a box in the heatmap to view the toutip which contains the rick group, Activity and expenditure

Expenditure per state

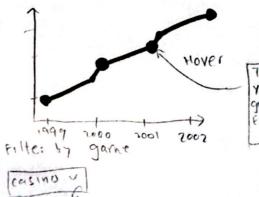
- The colour slider on the right hand Cide indicate total lose in Aud instead of man expenditure

Expenditure trends by game type

- Features a drop down instead of a dict box which will display individual line charts based on the game type

Focus

Expenditure by game type



Tooltip
Year: 7001
Gome: Carino
Exponditure AND
Exponditure BXX

select a game

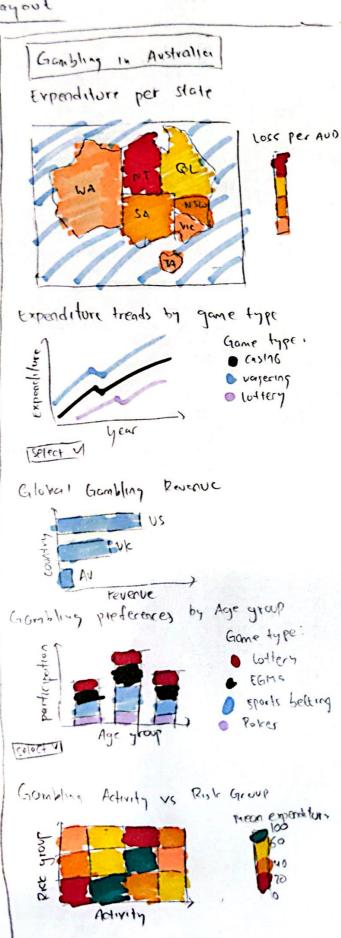
Discussion.

- Is total loss in Aud a better metric for chlosopleth mop?

- Is the colour stider for heatmap appropriate for adout blind users?

Namo James Alexander 10. 34776861 Sheet No. 5

### Layout



# Operations

Gambling preferences by Age group

- A select deplown is used instead of a fickbox which will display individual graphs based on game type

Other visualisations.

- No further changes

#### tocus

Gambling Activity us Pisk group

Mean Expenditure non-busyon 201. 671. 481. 731. problem \_ 60% 70/. sports lottery poker 13190 peters Tool to Bingo Activity: Bingo Risk: Risky Expenditure: 0/

concept:

Each Activity and Rick type will display a mean expenditure in 1. along with a toolting which can be accessed when hovered ours a box.

### Details

- Each instalisation will be implemented. ucing csv files
- pownload uson files to build the chloropleth map with states, oceans and graticules
- Gambling / lasing themed magazine styled moualisation