Title : FIT 3179 Assignment 2 Author: Ryan Choo Yan Jhie

Date: 15.09.2025

Sheet: 1

1. Ideas

1 dot map



2 Chloropleth map



3 Proportional Symbol map (1) Treemap





Die Chart



6 Bor Chart



1 Grouped bor chart







@ Heatmap



(1) network Graph

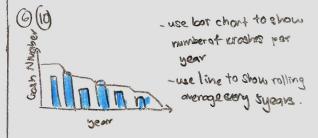


- 2. Filter
- 1 To many node which would result in too many connections making the liquie cluttered and unvadable.

3. Categorise

- ① ② ③ 8how location data about plane
- 436show categorinal values bosed on number of croshes.
- **@ 0** for survival rate based on seating location.
- (1)(8) showing trend of number of crashes across the years.

4. Combine and refine

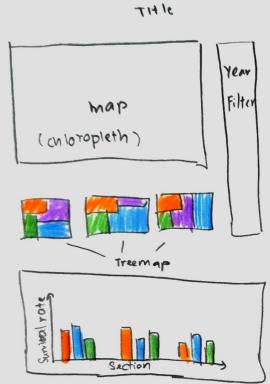


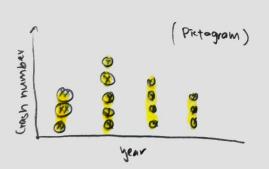
5. Questions

- where does the plane croshes occur?
- what is the reason for the plane crosh?
- How many plane crashes ?
- Where is the satest seat on the plane?
- What are the plane types?
- who are the operator?

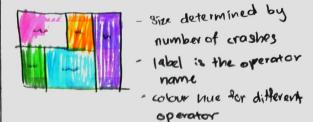
Title: FIT3179 Assignment Author: Ryan Choo Yan Shie Date: 15.09.2025 Sheet: 2

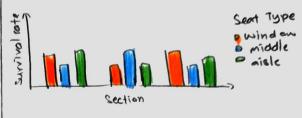
Layout





focus





- Grouped bor chart
- colour hue for differen seat type



- pictogram -use plane symbol to represent croshes

Operations

- Year filter for map and 3 treemap all linked together
- Tooltip will show when the marks in any idiom is hovered over.

Discussions

Pros

+ Pictogram is visually appealing

Cons

- t chloropleth map loses lation data
- t Treemap might be hard to understand tor normal viewers

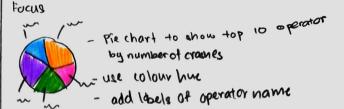
Title: FIT 3179 Assignment 2 Author: Ryan Choo Yan Thie Date: 15.09.2025 Sheet: 3

Layout

Title







Front Middle Back winder Middle

- use three bor charts to show the different section's survival rate
- use colour hue to differentiate seat type share the same legend

Operations

- Year Filter for map and 3 pie charts all linked together
- Tooltip will show when the marks in any idiom is hovered over .

Discussions

Pros

t Simple idioms, easy for user to understand t year filter allow user to view specific year

and compare

Cone

t Pie charts might be not suitable it there are no major difference between categories of one category dominates as it makes it hard to see the difference.

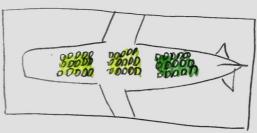
Title: FIT3179 Assignment 2 Author: Ryan Choo Yan Thie

Pate: 15.09,2025

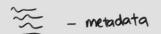
Sheet : 4

Layout









tocus



- equivectangular projection
- proportional symbol map
- contain graticules, ocean background and
- Size of dot based of number of fatalities.



- -use larger fort for highest and lowest survival rate sections
- darker means higher sunial rate
 - use green with colour saturation
- -add annotations for each specific section

Operations

- Year Filter for map and 3 bor charkall linked together
- Tooltip for when hovering overmorks.

Discussions

Pros

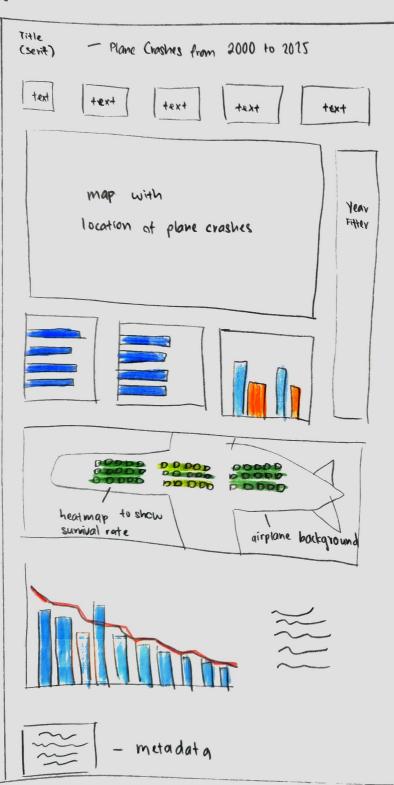
- t Simple idioms, easy for user to understand
- t Heatmap overlayed on plane image is visually engaging
- + Fitter allows user to compore between different years

Cons

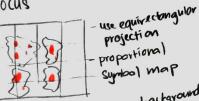
+ Proportional symbol map might be unsuitable it dataset contain too many dots.

Title: FIT3179 Assignment 2 Author: Ryan Choo Yan Thie Date: 15.09.2025 Sheet : 5

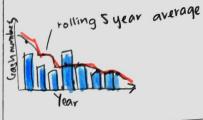
Layout



Focus



- add graticule, ocean bactground, and ocean labels
- Size of dot based on number of tatalities



Operations

- Year filter applies to map and 3 bar chart.
- Hovering over marks will reveal tooltip
- map will show current selected year as red and others as grey for the marks

Details

Pataset

- Plane crash information with lat lon data scraped from plane crashinfa
- survival rate of plane seat location.

Dependencies

- Vegalite
- HTML, (SS, Js
- Github for deployment
- Inksape for plane drawings

Estimate cost : \$0

Time to build : I week .