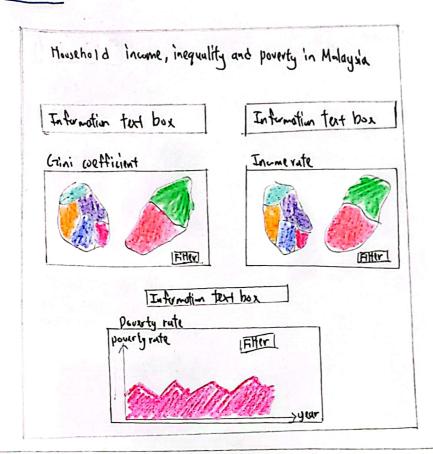
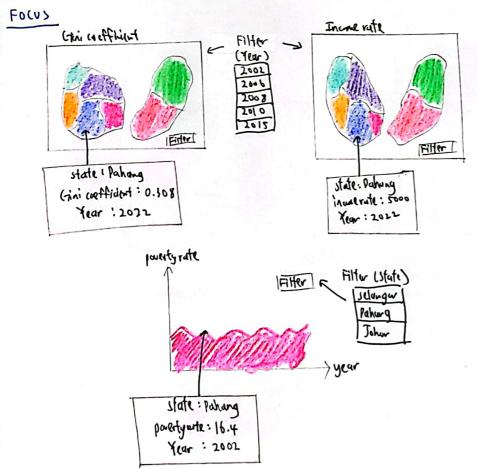
IDEAS

Identifying inone rate of states | Identifying poverty of states Identifying (ini (oefficient of states incomerate portyrate Kar states (1) parenty note chor-pleth map increvate अविट Cini State (10 states (6) (2) > year incre rute mannedian Year (1) Cini Year 3 > year povertyrate parety wite yen (8) (3) yeur 4 Filter (3) and (3) are similar (9) will be alittle cluttered 2 and 3 are similar (5) will contain all the states when all the states are added and might be chattered O and 3 are similar one is a charpleth map the other is a bur chart (1) and (12) are similar just that 1 use a state filter and > Year will be able to see it more detail (10) will have a state fitter to 1) and 3) can be see dearly ne each state CATEGOKIJE (7) might be dathered when (13) will not hove a filter but (8) (0) (2) with each year and state (3) all states are added but will have a ① Q(3) can see all the states and @ and (4) might be a little 520 (9) & (1) Q (4) night be cluttered mean and medium duffered when all the states are added filter (8) is a champath map COMBINE and KEFINE (11) is a stacked bur will 1) and 3 can be combined and form be duttered when all (2) and (1) can be combined and and both mean and modern can be see all tryether but the year and state torm line graph (less duttered) as a chropelth map are addled ned year filter **EVELTIONS** (5) and (6) can be combined and form 1 Does the visubation chow different gird coefficient based On different state according to its year?

Disas the visualisation show mean and median of incre a bar graph with state filter (10) and (12) can be combined rate based on different state according to its year and form area line chart with states filter (3) Does the visualisation show poverty rate based (Me on different state awarding to its year (4) (an the visualization be filled according to year and states.





Title: Dexyn 1

Author: Sham Lim Kah Kean

Date: 10 October 2024

Task: Household income inequality and

poverty in Molaysia

Sheet: 2

OPERATIONS

- · Filter for the both map charf can be used to filter the year
- " Filter for the area line chart can be wed to filter state
- · Tooltip toggle on specific mark details will be shown

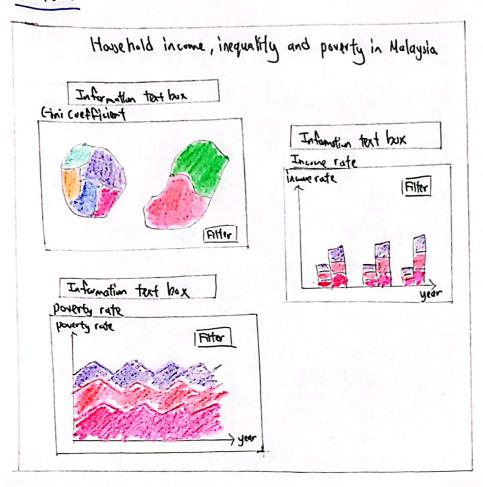
DISCOSSION

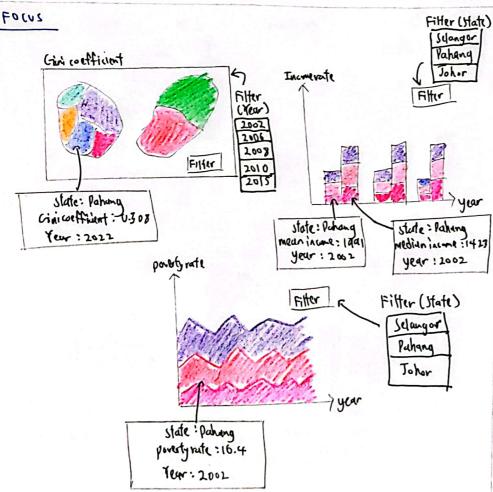
Advantage

- · The gini map shows the gini coefficient of different state based on their years
- The income map shows the mean and median income of each state based on their years
- The area line chart shows the trend of poverty of different states in a more detailed view

Disadvantage

- · There are two map charts which will make it harder to focus on the main points of the visualization
- Two map may cause enfusion as they lake the same viewer might see and get confused
- . The area line chart only shows a state at a time





Title: Design 2

Author: Shaun Lim Kah Kean

Date: 10 october 2024

Task: Household income, inequality and

Steet: 3' Nalayia

OPERATIONS

- · filter for the map can be wed to filter yeur
- · Filter for the stade bar charf can be used to filter the state
- · Filter for the moti crea line chart can be used to filter states
- · To-tlip toggle on specific mark details will be shawn

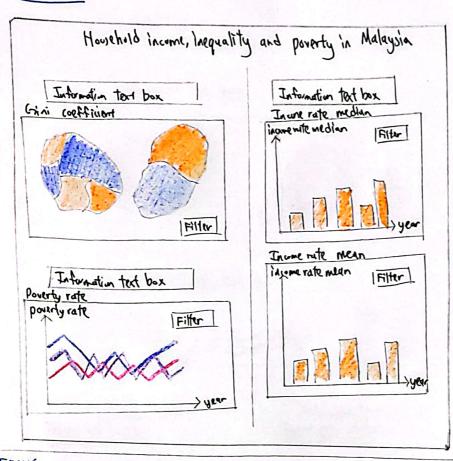
DISCORPION

Advuntage

- · The gini map shows the gini coefficient of different state besed on their years.
- . The income chart shows the mean and medium side by side in a stack ber chart form for each state of that year
- The multiarea line charf shows all the states and their poverty rate along the years.

Disudvantage

- . The stacked ber chart will be cluttered when all the year and its date are shown which makes it hard for user to see
- . The multidrea line chart will be cluttered when all the states are added which makes it hurder for over to see and get the exact data they need.
- · The map chart contain too many colour (maybe a colour change based on glai coefficient.)



FOCUS (State) Filter crimi coefficient poverty rate Sdanger Filter Pakang Filter (Year) Johon 2002 2006 2008 2010 2015 Filter year State: Pahang State: Dehang Chi welliant : 0.308 poverty rute: 16.4 Year : 2022 Year: 2002 incomerate median income reste mean 4 E Filter (State) Filter (State) Fitter Fifter Sclangor Sclangor Pahana Pahang John Johor 11) year State : Yahang State: Pahang mean income: 1991 mediun laune: 1423 year: 2002 year : 2002

Title: Design 3

Author: Shayn Limkah Kean

Date: 10 october 2024

Task: Howehold income, inequality and

poverty in Malaysia

Sheet: 4

OPERATIONS

- . Fitter for the map can be used to filter year
- 'Filter for both bar chart can be used to filter state
- · Fitter for the muttiline chart can be used to filter state
- · To-tlip toggle on specific mark details will be shown

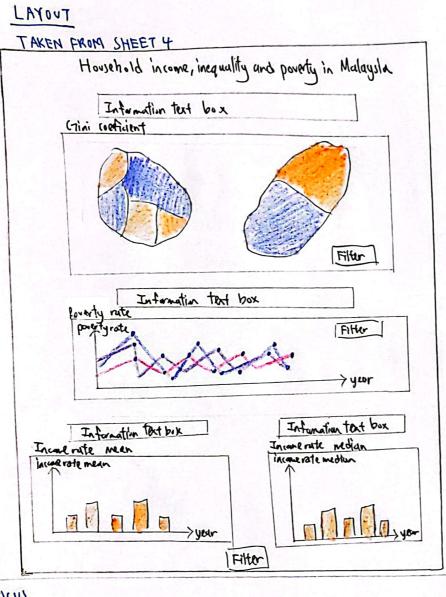
Norwill

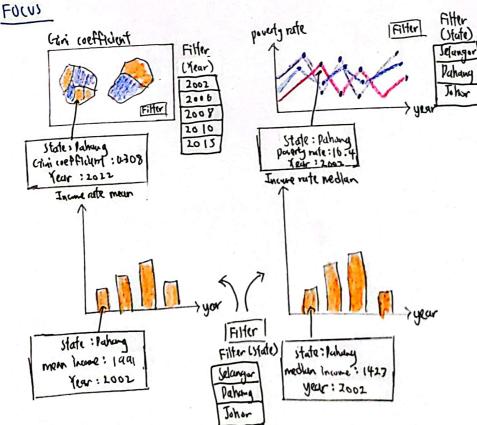
Advantage

- · The glini map shows the glini coefficient of different state based on their years
- . The mean and median income is separated into two bar chart so that it would not be chattered and hard to see
- · The multi line chart shows the poverty of all states which reduce clatter
- . The charts are more focus on each state rather than all of them at once.

Disadvantage

- . The multilline churt may be cluttered when all states are added making it harder to see
- · Very hard to identify the points on multillne chart when wing to-1tip





Trile: Dashboard Layout Author: Shaun Lin Kah Kean Date: 10 october 2024

Task: Howehold income, inequality and poverty in Malaysia

sheet: 5 OPERATIONS

- . Filter for the map can be wed to fitter year
- · Filter for both bor chart can be used to fitter state
- · Fitter for multiline chart can be wed to filter state
- · Toutip toggle on specific mark details will be shown
- · Information text block will explain the related chart and how to operate them .

DETAILS (Map chart) (rini churt

- . The map chart shows the gini crefficient of all states based on the selected year
- · Easy comparative analysis of each state based on the chosen year
- · Dark blue to dark orange (Lom to high gini coefficient)
- · Viewer can filter by year to see its changes.

(Multiline chart) loverty chart

- · The multiline chart shows poverty rate of each state
- · dot are apply to each data point for easier toxtip hover
- viewer can filter by state to segregate and analyse better.
- · The states are repented by different colour hue which also takes in consideration of colour blind viewers.

(Bar chart) mean and median chart . The bar chart is seperated into two thank by mean and median income

- . It provides easy comparison of the median and mean of each state . A combined filter which filter the
- state and once it is in use the necessary changes will be made on the two charts
- . Vegalite will be used to generate the unull satton
- · Approximate of Zuesks is needed to complete the visualisation and solution.