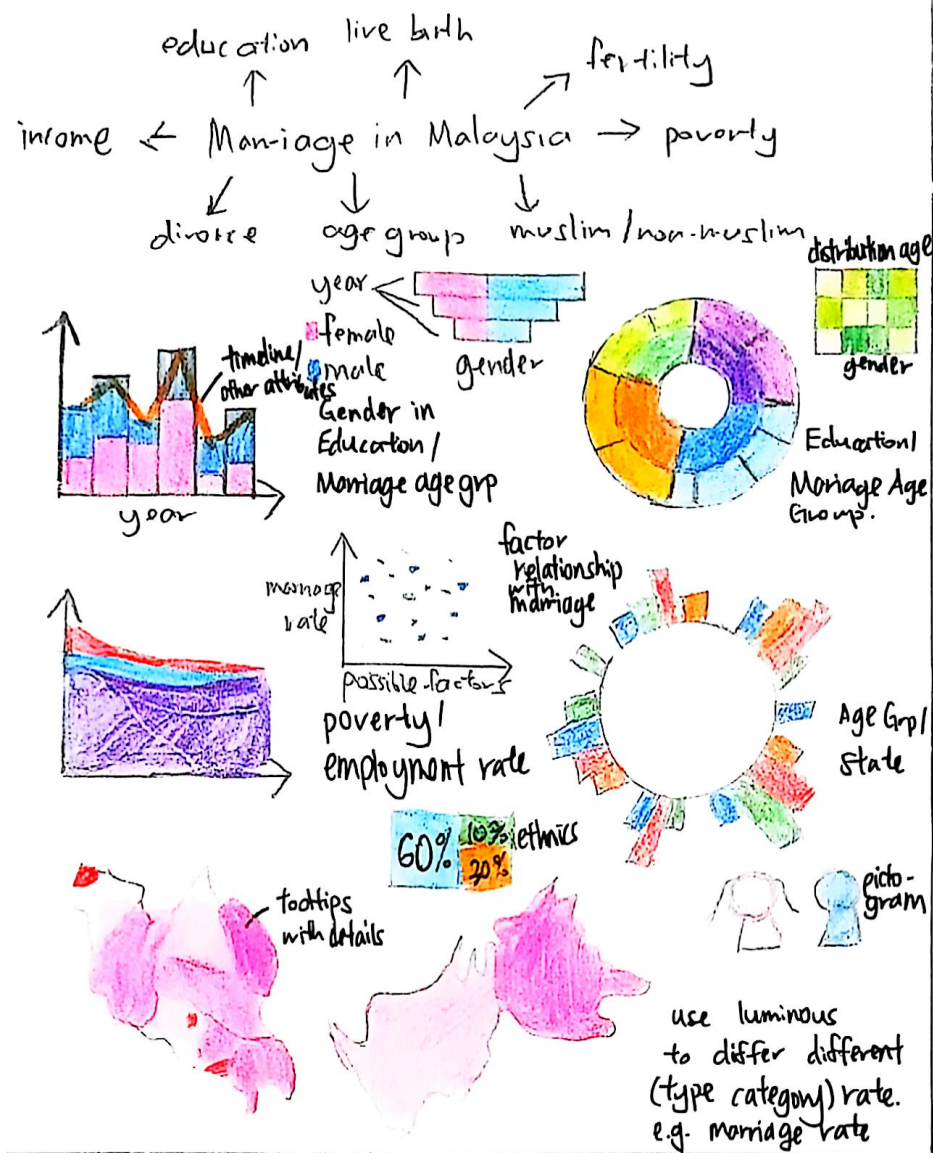


# Ideas



# Filter

- \* use marriage & divorce as comparison, also having muslim vs non-muslim comparison
- \* consider factor relationship with marriage in muslim vs non-muslim

- \* focus only Malaysia - states



- \* focus on gender comparison



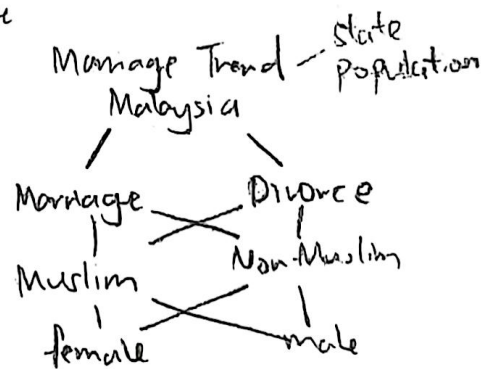
- \* focus on muslim vs non-muslim or ethnic



# Combine & Refine

- 1) Malaysia map → state → administrative district → muslim vs non-muslim → female vs male → divorce vs marriage
- 2) Calculation on each state population & each administrative district population in specific year with the marriage vs divorce rate
- 3) Map 1 can be combined overall information for Malaysia. Map 2 only focus on administrative district population for each state

# Categorize



# Question

- 1) Is the content enough explain marriage situation trend in Malaysia?
- 2) Which Year should be focus? Is all district have enough details years to show?
- 3) Is the factors really is the main cause? How to determined these factors affect?

Author: Beh Zhi Yin

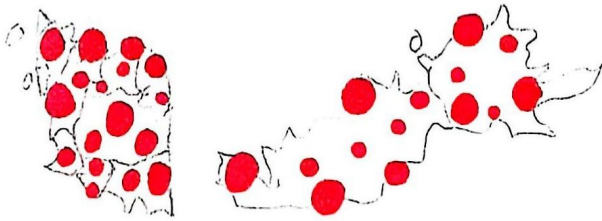
Date: 16/9/2025

Sheet: 1

Task: Brainstorm with planning dashboard visualization



## Malaysia Marriage vs Divorce

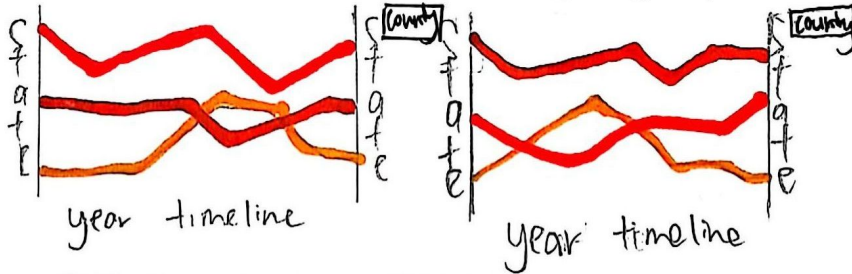


Marriage

Divorce

text description

marriage age group



text description

Muslim vs non-muslim divorce

With latest data year



Focus



\*need to have calculation for the percentage of marriage and divorce across the state population number.

\* add tooltips for the original marriage and divorce number for each bar

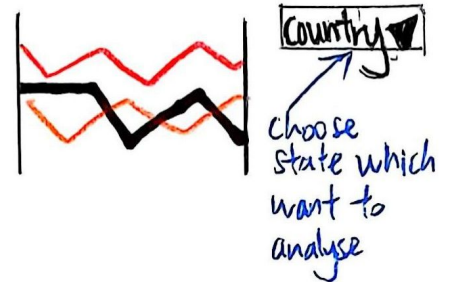
Title : Malaysia Marriage vs Divorce

Author: Beh Zhi Yin

Date : 20/1/2025

Sheet : 2

Task : Focus Malaysia map proportional



can see the muslim vs non-muslim divorce and marriage rate also.

Discussion

Advantages

- \* can see the population rate how much marriage and how much divorce rate
- \* can see the proportional map with different administrative district.

Disadvantages

- \* might have calculation errors.
- \* the slope chart might looks complex with too much state in one slope chart
- \* heat map might need was took time to look the relationship with too much of age group.



Layout

# Malaysia Marriage Trends

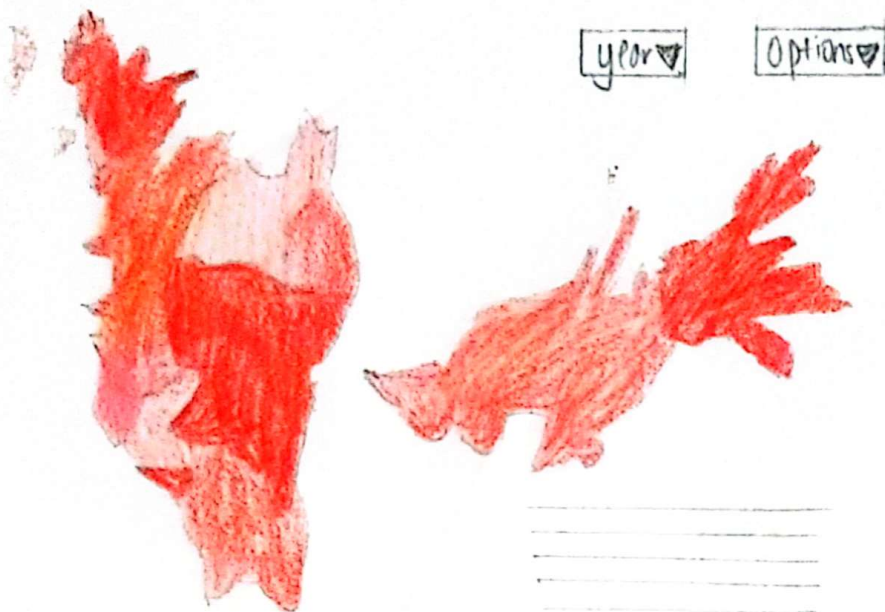
Title: Malaysia Marriage & Divorce

Author: Beh Zhi Yih

Date: 23/9/2025

Sheet: 3

Task: Focus Marriage Muslim vs Non-Muslim

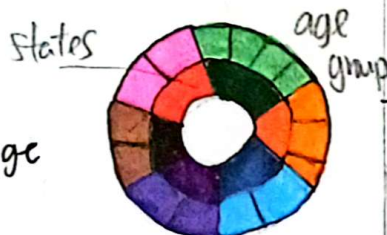
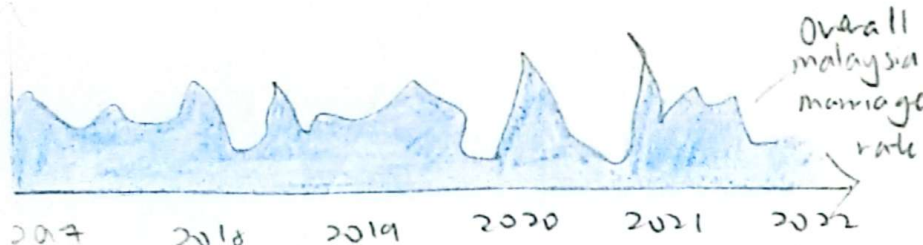


year  
2016  
2017  
2018

Option  
muslim  
non-muslim

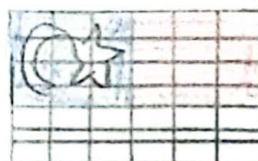
\* year is single option  
only choose one year per time

\* muslim and non-muslim  
also single option  
not including multi-selection  
because of waffle chart  
including all muslim + non-muslim.



marriage age  
per state

waffle  
chart



x16  
different  
state  
flag

Advantages

\* separate muslim vs non-muslim  
is important because Malaysian  
always have stereotype, maybe  
born much more kids, and  
marriage much earlier than other  
race of Malaysian, so the data  
shown might be more accurate.

\* choropleth map show rate  
more obvious and differentiate  
each state clearer.

Disadvantages

\* waffle chart plan using state  
background might be increase  
data-ink ratio

\* donut chart might need use  
more space to show 16 regional  
clearer, hard to adjust whitespace  
and sight lines

Focus



the waffle chart  
should be having more grid lines

— follow the map for each state  
colour & shape

— marriage rate is including muslim + non-muslim

\* should be 16 state with 16 waffle chart  
\* use 'figure-ground' dark & light colour to  
enhance percentage shown.



# Malaysia marriage vs divorce trends

option 7

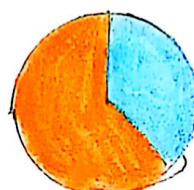
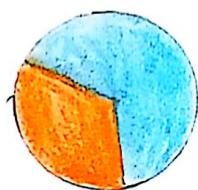
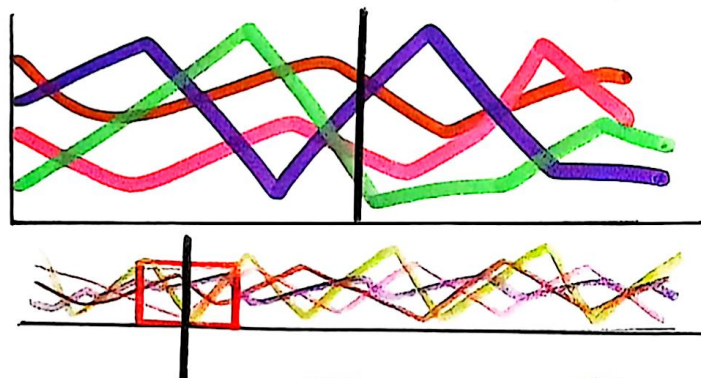
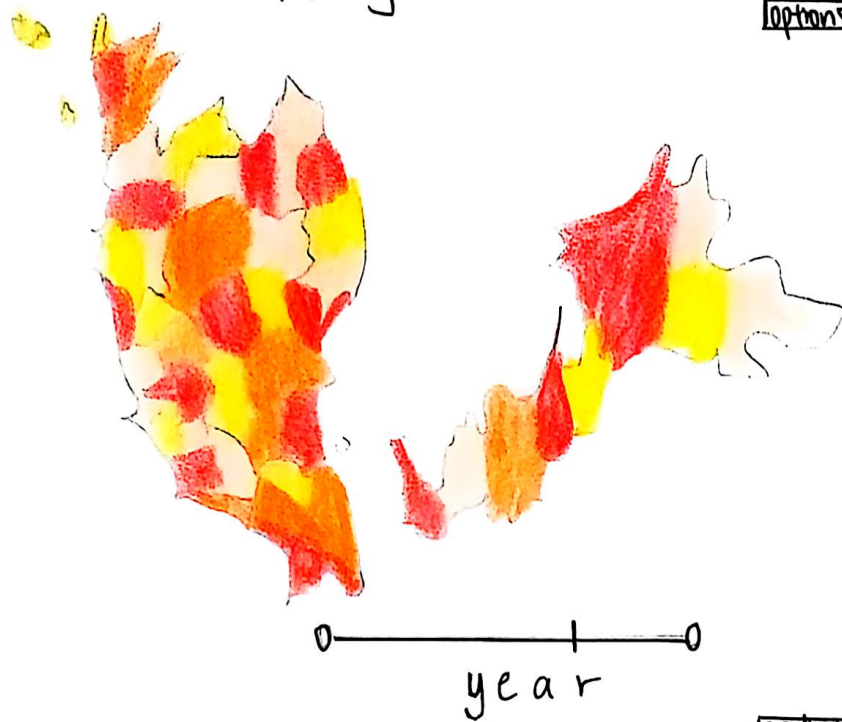
Title: Malaysia Marriage vs Divorce Trends

Author: Beh Zhi Yin

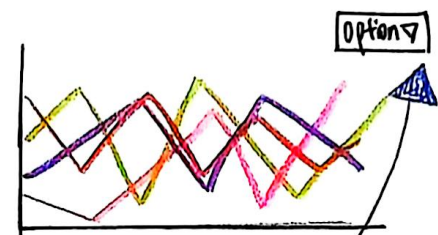
Date: 4/10/2025

Sheet: 4

Task: Focus on marriage vs divorce



x 6 different year  
x 2 marriage / divorce  
\* overall Malaysia  
muslim vs non-muslim



different age group  
such as 65+,  
20-25, 30-35



marriage / divorce

\* both when clicked,  
the data and visualisation  
will be different.

## Advantages

\* even each city also mention  
for marriage & divorce  
— more details

\* able to zoom age group  
to see the trend clearly

\* pie chart easy compare  
and clearly see the different  
for muslim vs non-muslim  
marriage or divorce trend

## Disadvantage

\* didn't have complete  
data for each city, some  
are missing.

\* the line chart might be  
too colourful and having data  
ink ratio, hard to track  
which lines belong to each  
age group.

## Focus

\* it have total 6 year data (2017-2022)

\* 5 more extra pie chart per row

\* orange non-muslim, blue muslim

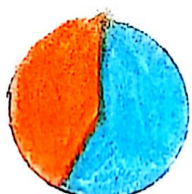
\* having colour legend

\* have tooltips

\* easy interpret when each year having large  
different gaps - if not, hard.



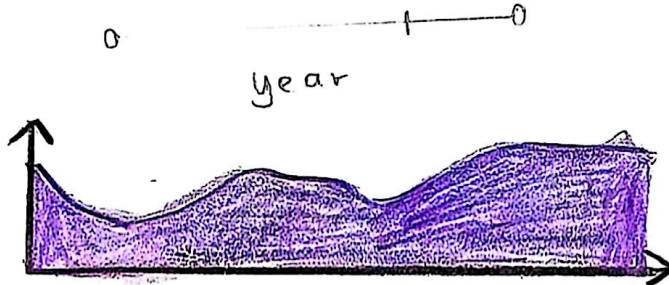
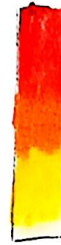
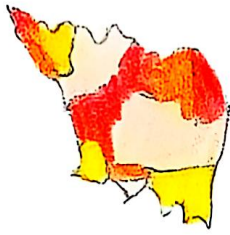
marriage



divorce

# Malaysia Marriage

Option 1



\* all sex malaysia marriage trend.

explain trends

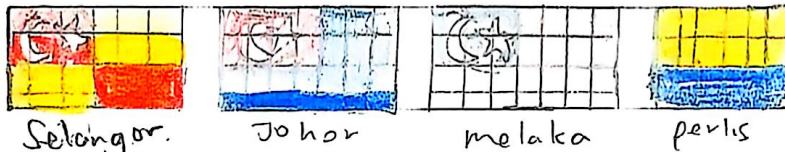


Option 2

\* age group female & male.



explain & observe trends



Selangor.

Johor

melaka

perlis

x16

can add what method need to have to solve current issue / which state need take extra focus

Title: Malaysia Marriage Trends

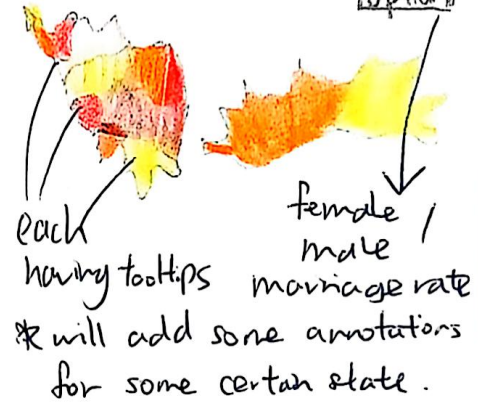
Author: Beh zhi Yin

Date : 5/10/2025

Sheet : 5

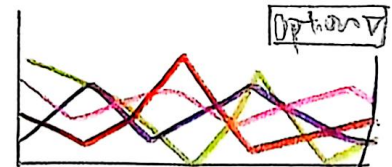
Task : Final Implementation Design

Operations



Option 3

each having tooltips female / male marriage rate  
\* will add some annotations for some certain state.



Option 4

age group  
\* 20-24, 25-29, 30-34.

Details

\* dataset should be normalised or cleaned and upload to github

\* focus on male & female age group, malaysia and each state

\* flag can be find online and remember references it.

\* estimate one to two day complete one complex idiom

\* each colour should be represent different things

\* right line & whitespace need to arrange properly

Focus



\* the year indicator just having 2017-2022

\* it might just focus on one - two year if zoom

\* but it let user see clearly the difference for it.