Burden of disease from each category of mental illness

Mental. illness prevalence

Share who reported lifetime anxiety / depression

Age when first had anxiety / depression

Anorexia / bulimia nervoja estimated cases

Anxiety disorders prevalence

Depression disorders prevalence

Dealt with anxiety / depression by taking presented medication

How do people deal with anxiety / depression

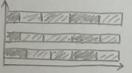
Student mental health (by course)

FILTER



Medication Usage for Anxiety / Depression in all countries

Age at First had anxiety / depression (by age group)





Mental illness prevalance in Malaysia

How do people deal with anxiety / depression
In Malaysia



COMBINE & REFINE



combine medical usage for anxiety / depression

2 share who reported lifetime anxiety / depression

color - medical usage (1.)

shape and size - reported lifetime anxiety /olepression (1.)

CATEGORIZE

Global Medication Usage - country - medication usage L'/)

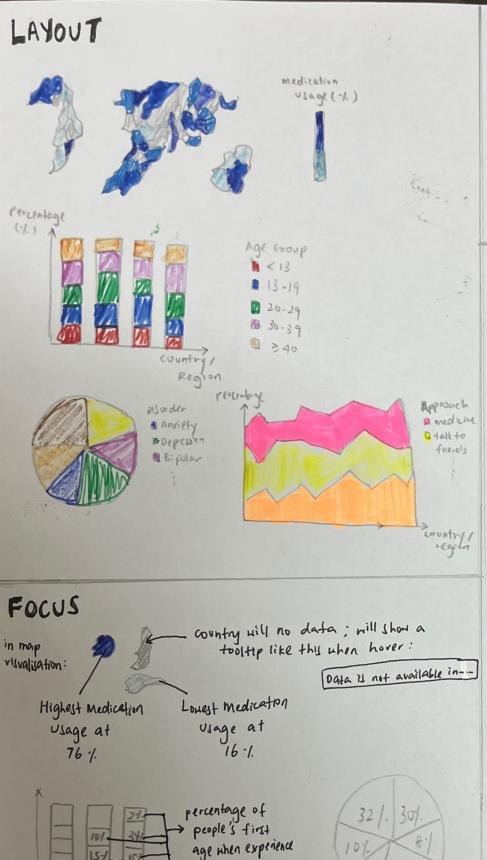
Age at first Experience of Anxiety / Depression
- age group
- worthy / region

mental illness prevalance -type of disorders

Approaches to deal with Anxiety / Depression - approaches

### QUESTION

- in conveying the insights?
  - 2) Are there any technical challenges in implementing these visualisation?
  - 3) Will the visualisation be too overwhelming?



anxiety rolepression

MIN BE Shoull

-approach

101-101

percentage of mental illness prevalance will be shown, total will add up to 100%.

+ the points here shows the persentage of people who tried the method in each different country.

Title: mental Healt Insights

Author: Jace Ang Khai Shuan

Date: 6 October 2024 Sheet: 2

Talk: Map for global medication usage, stacked bar chart for age at first experienced, pie charf for mental illness prevalance, area chart for approaches dealing with anxiety / depression

### OPERATIONS

- 1) Global medication usage for anxilty / depression
  - hover over the country to view the exact percentage of medication usage
    - I light blue represents low medication usage
    - Is dark blue represents high medication usage
    - "grey represents country that has no deta
- 2) Age at first experience antiety/ depression
  - percentage will be shown on top of each bar
  - -hove- over to view the details: country, age group, and percentage
- 3) Mental illness pevalance in Makysia
  - hover to view the muntel illness type and percentage
  - click on it to show all percentage of each mental illness
- 4) Approaches dealing with anxiety (deposit - hover over each point to view the exact percentage and country for the specific approach

## discussion

- Tre: all countries are included for medication usage, good for companion on each winty.
- easy to compare for each county/region which age group are more likely to first experience anxiety relepedion.
- all countries are included to compare the approaches used.
- Ve: not all wonthed have the data of medication usage
- the approaches will be too overshely for considering all owneries.



Note: Unspecified means the respondents who refused to ansvertheir age.

Disorder: Anxiety

Percentage: 421.

defails uill short

when hover over

specific coty

Title: Mental Health Insights Author: Jace Ang Khai Shuan

Date: 7 October 2024

Sheet:3

Task: map for global medication usage and share who reported lifetine anxiety/depression, horizontal stacked har chart for first expiritenced, donut chart for mental illness prevalance, spiral chart tor approaches dealing with anciety / depression

## OPERATIONS

1) Global modication usage & lifetime annety and depression

- hover over the country to view the exact perentage of medication usage and reported lifetime anxiety ! depression

& wolor to represents medication

> shape (triangle) and size to represent reported lifetime anxiety depression

2) Age at fish experience anxiety I depullion

- percentage will be shown on top of each bar

- mover over to vion the details: wanty lregion, age group, and percentage

3) mental Illness prevalence in Malaysia

- hover to view the details: disorder and percentage

4) Approaches dealing with anxiety / depession in Malaysia

-hover over each wirele to show the exact percentage of people usry the specific approach

#### DISSCUSSION

- circles might

get smaller

because there are allowy

approales

each color/circle represents an

anxiety / depession

approach to deal with

Tyle:-all countries are included for the medication usage, and lifetime reported, very defailed map vivalisation - easier to compare the age group for each country, can get the insight to be the first age that experienced. -simple and clear donut charf, so that itlooks more neat and clean

- ve: - too much details, make the map visualisation looks complicated - the spiral chart wight gets too overwhelmed as we have many different approached

LAYOUT Medication Wage (-1.) percipeze Age Group D < 13 13-19 1 20-29 30-39 17,40 Approaches 1 talk to freely Anxiety Depression Focus added ocean and grey layer to the

-country will no data, use tooltip to show Highest Lowest medication usage medication af 16% usage at roungey. show details of Age Group, > country I region, and percentage in tooltip like this:

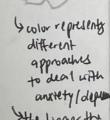
County:

Age brook: 13-19

Pormone: 20:1. - volor represently the type of disorders Anxiety -thickness of the

Depression

Approache dealing nith omailety / depression in Maraysia



connections shows

the percontage of mental illness

presource in

specific region

- the thirt it is,

the higher the percentage is. Athe Ligger the hout 12' thr higher the percentage.

Title: Mental Health Insights

Author: Jace Ang Khai Shuan

Date: 8 October 2024

Sheet . 4

Task: Map (+ocean&grey layer) for global medication usage, area chart for age at first experienced, sankly diagram for mental illaess prevalance (by region), radial chart for approaches dealing with anxiety/ depression

## OPERATIONS

1) Global medication usage for anxiety and depression - hover over the country to view

the exact percentage of medocator

- highest and lonest medication usage will be shown using annotations

- if hover over country that has no data, will show in tooltip

2) Age at first experience anxiety ( depression

- details of Age Group, country /region, and perentage will be shown in toultip. (when hover over the point)

3) Mental illness pervalance

- hover over to view the oletails: region, type of disorder and exact percentage.

4) Approaches dealing with anxiety/ depression in Malaysia

- hover over to view the details: approach, percentage of people that use the specific approach

#### DISCUSSION

+ ve: - map visualisation is more detailed and not empty.

- the area shart (hows better companism tor each age group that first experience

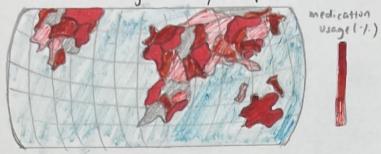
anxiety / depression (overally) - sankey diagram shows more information leach region, which disorder occurs more) -radial show all the approaches clearly,

vary in size

as the x-akis represents country/region, where it normally shows years were thened, as he have many more negions and disorders.

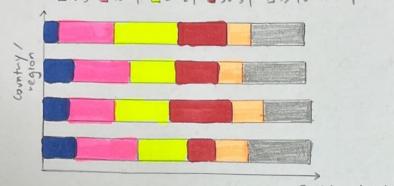
## LAYOUT

Global Medication Usage for Anxiety and Depression



Age at First Experience of Anxiety or Depression

13-19 12-29 30-39 12-40 12 unspecified



A Glimpse into Mental Health in Malaysia

Prevalence of Mental Disorders

Disorder

DAnxiety

Depression

Bipular

Eating

Schizophrane

Others

Coping Approaches

Approaches

Approaches

I tolk to

fresels

Improve

lifethyle

# FOCUS

add annotations:

Highest Medical usage at 76.72% tuolitip for country that has no data:

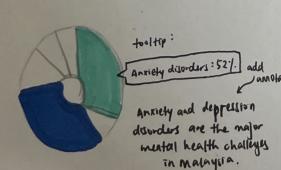
Data Is not available in (country name)

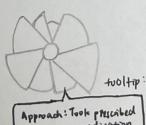
medical usage at 15.96%.

add annotations below horizontal stacked bar chart:

Note: 'Unspecified' refers to respondents who either did not provide an age or refused to answer.

(to clarify in case of confusion)





Approach: Took prescribed medication

Used by: 27.11% of respondents

Title: Mental Health Insights

Author: Jace Ang Khai Shuan

Date: 8 October 2024

Sheet : 5

Task : final Design

# OPERATIONS

1) Global Medication Usage for Anxiety and Depression

-hover over the country to view the exact percentage of medication usage

- color indicates if the percentage is high / 104

- if hover over country that has no data (in grey color), data not available will be shown in tooltip

2) Age at First Experience of Anxiety or Depression

- hover to viou the details: country iregion, age group, and the exact percentage

- color hue indicating different age

- unspecified explanation is shown using annotation

3) Prevalence of Mental Dilorders
in Malaysia

- hover over to view the type of disorder and its percentage

- annotations are added for the major mental disorders

4) Coping Approaches in Malaysia
-hover over to view the approaches
and percentage of people that
used that approach to deal with
anxiety or depulsion

#### DETAIL

- · Database implemented using CSV files.
- · Resources are from our Horld in Data
- · Heb design using HTML, CSS, and JavaScript (to implement the charts into HTML)
- "All charts are implementing in the joon files, using vega-lite.
- · Datasets will need some cleaning as not all datasets are useful.
- · Color choice based on the data (color luminance for quantitative, and color hue for categorical)

. Estimated time to build: 5 days.