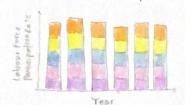
# IDEAS

O Global Labour Force Trends



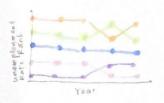
(2) Labour Force Participation Rate



Population

(% of Total Labour Force)





(4) Top 5 and Bolton 5 Labour Force Participation Rate Countries





Title: Global Labour Force

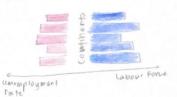
Author: Yap Qian Ting

Date: 7/10/2024

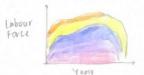
Sheet 1

Task: FIT3179 Data Visualization 11

(5) Labour Force vs Unemployment Rate



6 Labour Force Growth by Continent



# FILTER

- 1 Global Labour Force Trends Lo Choropieth map
- (3) Labour Force Participation Rate

Lo stacked bar chart

3 Unemployment Rate
Lo Bump Chart

(1) Labour Force Growth by Continent

La Stacked area chart

#### CATEGORISE

Global Labour Force Trends

1

Labour Force Participation Rate

1

Labour Force Growth by Continent

1

Unemployment Rate

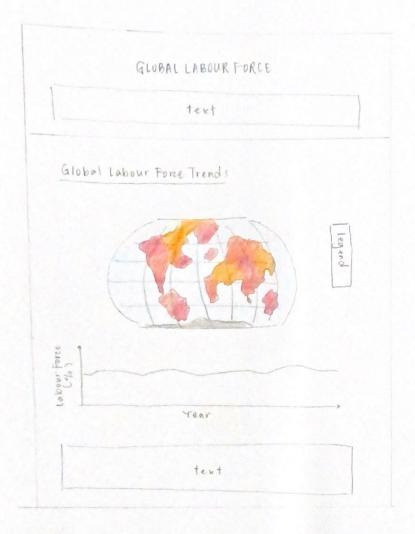
## COMBINE & REFINE

Labour Force Growth by Confinent

- 6 The Stacked area chart can be separated into facets to have a before view of compartion
- Gran be combined with stacked barchart or bump chart for analysis.

#### QUESTIONS

- Lasthe implementation of the winding trenditations double using Vegalite library?
- Lo is the variety of the visualisations clear enough to perform a thorough analysis on labour force?



Title: Global Labour Force

Author: Yop Qian Ting Date: 7/10/2024

Sheet: 2

Task: FIT3179 Data VIS Nalisation 11

## **OPERATION**

Choropleth map:

G Highlight the country region when user click on it:



information of the country when user hover over a country.

Line chart :

Lo Act as a time brush to filter the data for the choropleth map by year

# FOCUS

Choropleth map:

La The colour intensity will show the labour force participation rate of each country

Line chart:

Lo A time brush to fitter the data of the map by year

La shows the overall world labour force participation rate

## DICCALLION

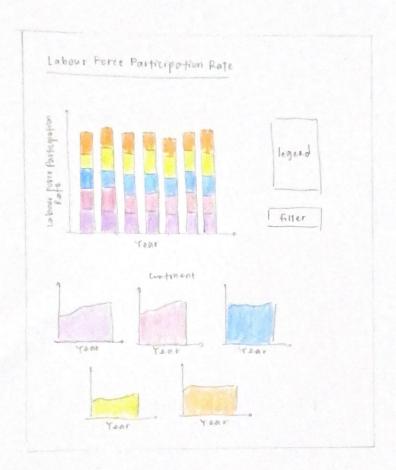
Advantages:

Labour force trends over year can be seen using time brush filter

by the colour scales
from lighter to darker
Colour indicating lower values
to higher values

Disodvantages

Lo Coumties nearby that have similar rong evalues will have some colour.



Title: Global Labour Force

Author: Yap Qian Ting

Date: 7/10/2024

Sheet: 3

Task: FIT3179 Data Visualization 11

#### OPERATION

Stacked bar chart:

Le Filter can be used to filter
a particular region/continent
to see only that particular
region/continent data trends
over the years



Asia V

Le Tooltip can be seen when user hover over the bars

Multiple area charts:

la toolfip can be seen when well haver over the area

## Fotus

Stacked bar chart:

Lo use different colour for the regions/ continents so that the difference between regions/ continents across the year can be seen directly

multiple area chart:

Lo Labour force sizes of each regron/contract is clear and direct to compare with consistent colour usage from the stacked barchard

## DIECNZZION

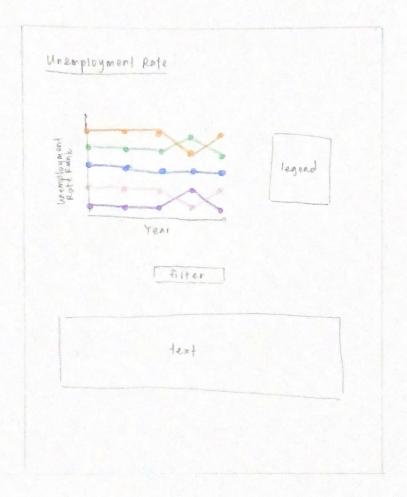
Advantages

Lo Easy comparison of the labour force participation rate across different gears

Lo Clear colour usage makes it user friendly when using filter.

Disadvantages:

Lo Boto charte might look too allke and might make them redundant



Title:

Author:

Date:

Sheet:

Task:

## OPERATION

Bump chart

Co Filter can be used to filter a particular region/continent to see it rank throughout the years.



is Toutip can be mound when user haves over a door point

## Focus

Bump chart

Le The ranking of each region / confinent can be clearly

Seen from the chart with different colours representing
each confinent

# DETAIL

Advantages:

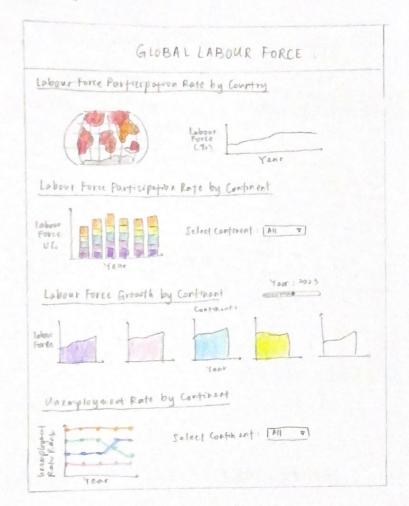
Later comparts on of the unamployment rates hift across the years

Want to focus of a

Particular region/continent

Disadvartages

to only one chart, might be too plain



Title: Global Labour Force

Author: Yap Stan Ting

Date: 7/10/2024

Sheet: 5

Task: FIT3179 Data Vonal3 ofton 11

#### OPERATION



Select Continent.

Att ASTA Lacricas Slide







- Africa Asia Americas
- # Emmpe @ Ocenia

## FOCUS

Labour Force Participation Rate by Country

to the data of each year can be voewed by wing time bruh (ine chart) to fifter the year.

to the area of a country can be viewed/highlighted by clicking on the particular country on the map

Labour Force Participation Rate by Confinent

Le the data of each confinent can be viewed by selecting the interested confinent from the Selection menu filter

Labour Force Growth by Confinent

Lo use the stider filter to selectively keen a particular year

Unemployment Rate by Country

Le The ranking of each confinent can be viewed by selecting the interested continent from the selection won u filter

## DETAIL

- 6 Data manipulation is required like normalization of doctor for chopopleth map
- Lo Vegalite library will be used for the vitualizations
- La Pure as will be used for the layout of the hint.