Sheet 1 : Ideas

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GDP Growth

World
not malaysia specific ✗

- large amot data
- GPD by Sector
- by Country
- by Sector by Country

Malaysia

- by State?
- whole country?
- by Country by Sector?
- by average growth?

Asia ✗

- Smaller data
- less data available
- by Country
- ASEAN Countries

available Data

- Malaysia Data.gov website
  - Annual Real GDP by State & Economic Sector
- TopoJson malaysia map

Malaysia Map divided by State

GDP by State → highest growth?
↳ largest sector per State
↓ most contributing State per Sector?

Filter

Keep

- Map ob growth by Sector
- highest growth chart
- largest sector per state
- growth per State over time

remove

- highest Contributing State
  - not enough data

Catagorize

Section 1 :
- Map

Section 6:
- GDP by Sector per State

Section 2:
- growth over time per State

Section 3:
- growth over time per Sector

Section 4:
- growth of Sector per State

Section 5:
- growth of State per Sector

Combine & Refine

Section 1 - keep

Section 2/3 - Combine into multiline graph - all Sectors growth over time per state

Sector 4/5 - Combine stacked bar chart, per State Stacked bar dived to Sectors

Sector 6 - Keep

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Sheet 2: Map

Select Year : ☐
Select Sector : ☐

layout

Focus

- User allowed to select desired year to display data

- User allowed to select desired sector to display data

- User can hover over State to see actual growth value, year and State name

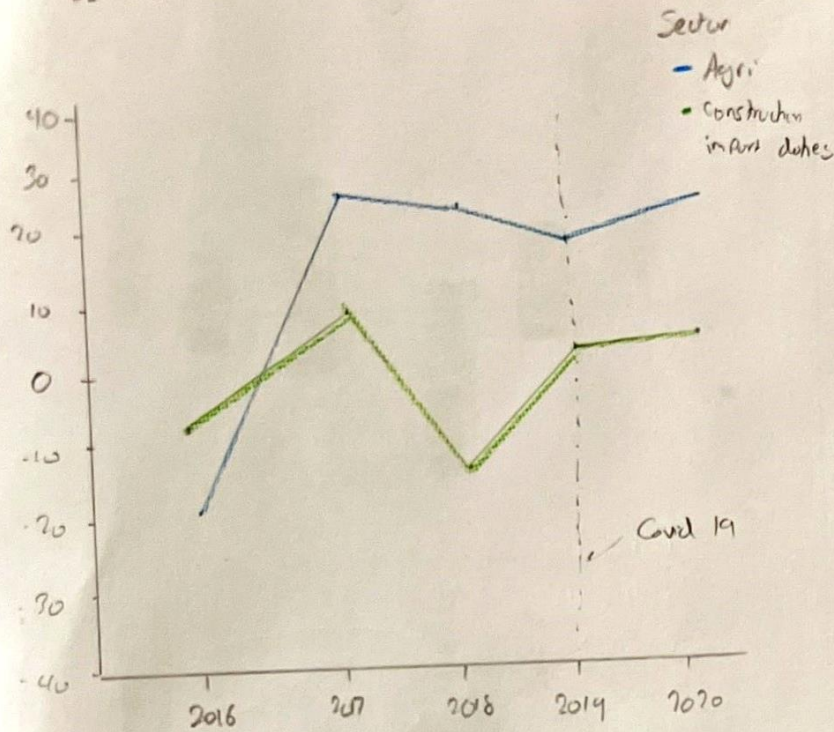- diverging colour Scale used to show intensity of Positive or negative growth

Operations

Discussion

Select year ☐
↘ allow to select year desired

Select Sector ☐
—— allow to select desired sector

(shape) ← each State outline has colour to represent growth
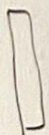
▯ ← Diverging Colour Scale
↙   ↘
More blue   more brown
higher growth   greater fall from last year

- this layout shows how each State performs in a given Sector per year (overall GDP is also viewab

- this shows what States are strongest in each Sector

Sheet 3 : Line Chart

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Sector
- Agri
- Construction
import duties

40
30
20
10
0
-10
-20
-30
-40

2016   2017   2018   2019   2020

Covid 19

Select State [   ]

layout
Focus

- User allowed to select desired state to see data

- User can hover over a point on line chart to see actual growth data and sector and year

- Multiple Colour Scale allows user to see each sectors groath over time
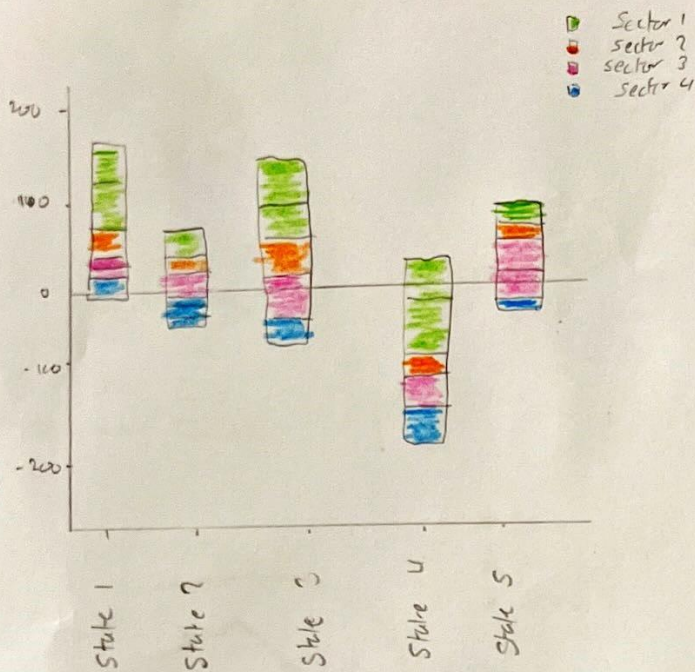
Operations
Discussion

Select State [   ]

← allow to select state to be viewed

✓ each line shows the % groath year on year per sector

o Agri
o overall
o Construction
o import

✓. Colour Scale helps distinguish sector

- this chart allows user to see how each sector performs per state over time

- user is able to see effects of global events on GPD groath and which sector is most effected
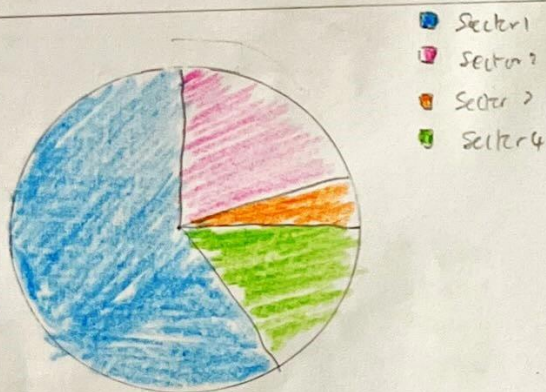
Covid k9 indicator, allows to see impact of global events on GPP growth

Covid
k9

Sheet 4: Stacked Bar Chart / Pie Chart

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Legend:
- Sector 1
- Sector 2
- Sector 3
- Sector 4

y-axis: 200, 100, 0, -100, -200

x-axis: State 1, State 2, State 3, State 4, State 5

Select year [ ]

Bar chart layout

Bar Chart Focus

- each bar represents gdp growth
  - broken into sectors

- sector 1
- sector 2 } Sector legend
- sector 3

Select year [ ] ← allow user to select year

Legend:
- Sector 1
- Sector 2
- Sector 3
- Sector 4

Select State [ ]
Select Year [ ]

Pie chart layout

Pie chart focus

← size shows gdp ✗
for a sector

Pie chart operations

- user allowed to select year and state
- hover and can see gdr value, year, sector, state

Discussion:

- user can see actual value of gdp for each sector by year

- user can see what sector contributes most to states gdp

Bar chart operations:

- user can select year
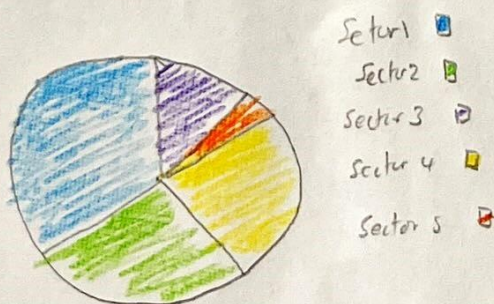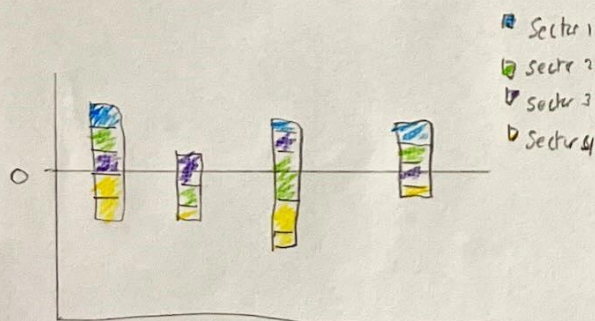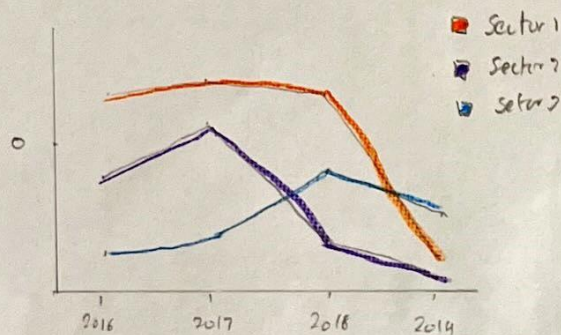
- hover and see sector, gdp growth %

Discussion

- user can see the growth of all sector of all states per year

- user can see which state performs best in which sector in a given year at a glance

Sheet 5

Select year ▭
Select Sector ▭

■ Sector 1
■ Sector 2
■ Sector 3

2016   2017   2018   2019

■ Sector 1
■ Sector 2
▼ Sector 3
▷ Sector 4
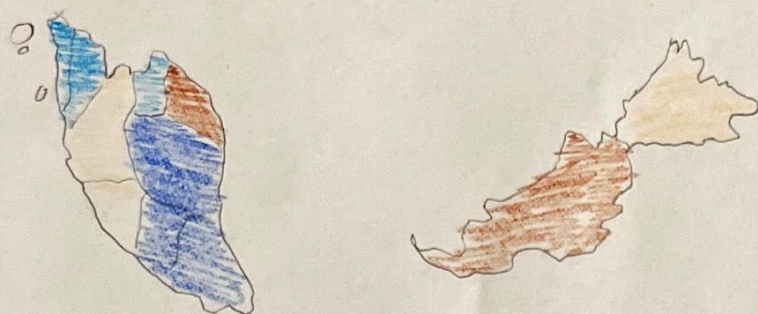
Sector 1 ■
Sector 2 ■
Sector 3 ■
Sector 4 ■
Sector 5 ■

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Operations

User can select parameters to display different data such as different year, State, Sector

Details

User will be able to use many of the graphs to get insights of Malaysia gdp growth

Line chart will show gdp growth by sector over time

Discussion

This will be useful since many different insights can be drawn from this as it can show impact of global events on Malaysia's gdp growth and which sectors and states are affected the most