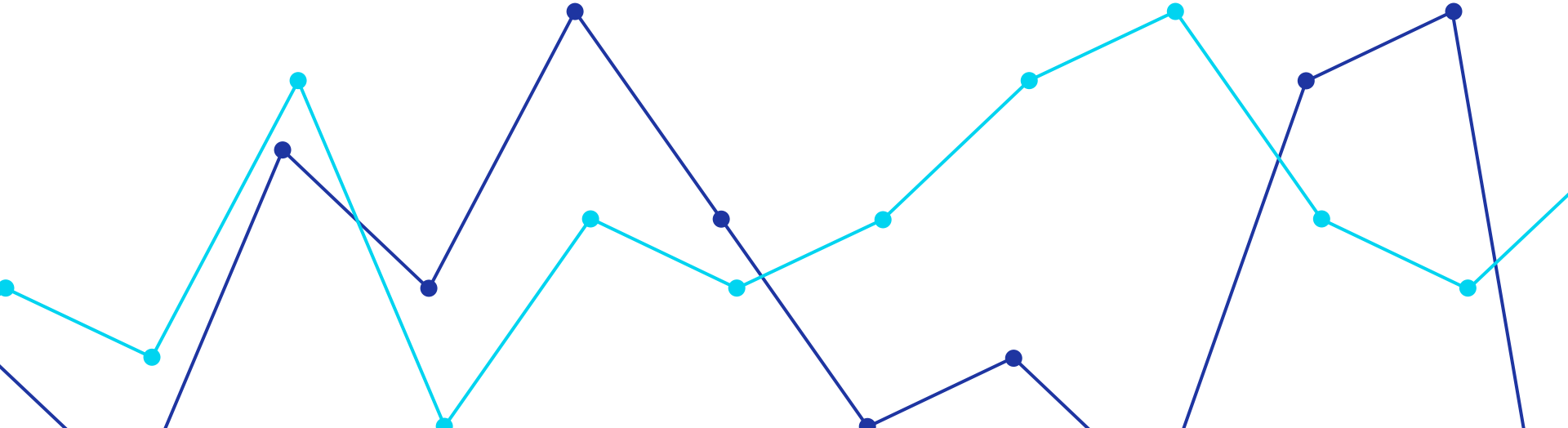
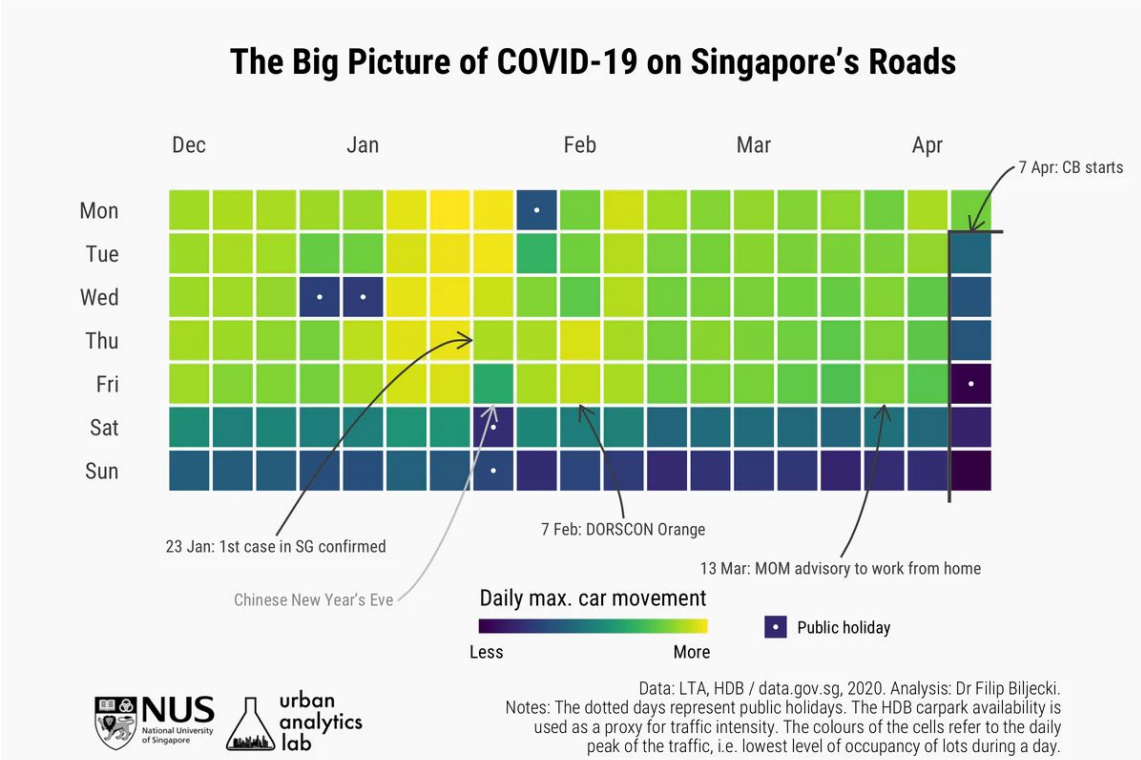
CSC3007
Milestone 1 (M1)

Critique/Validations of Visualizations
Team 3

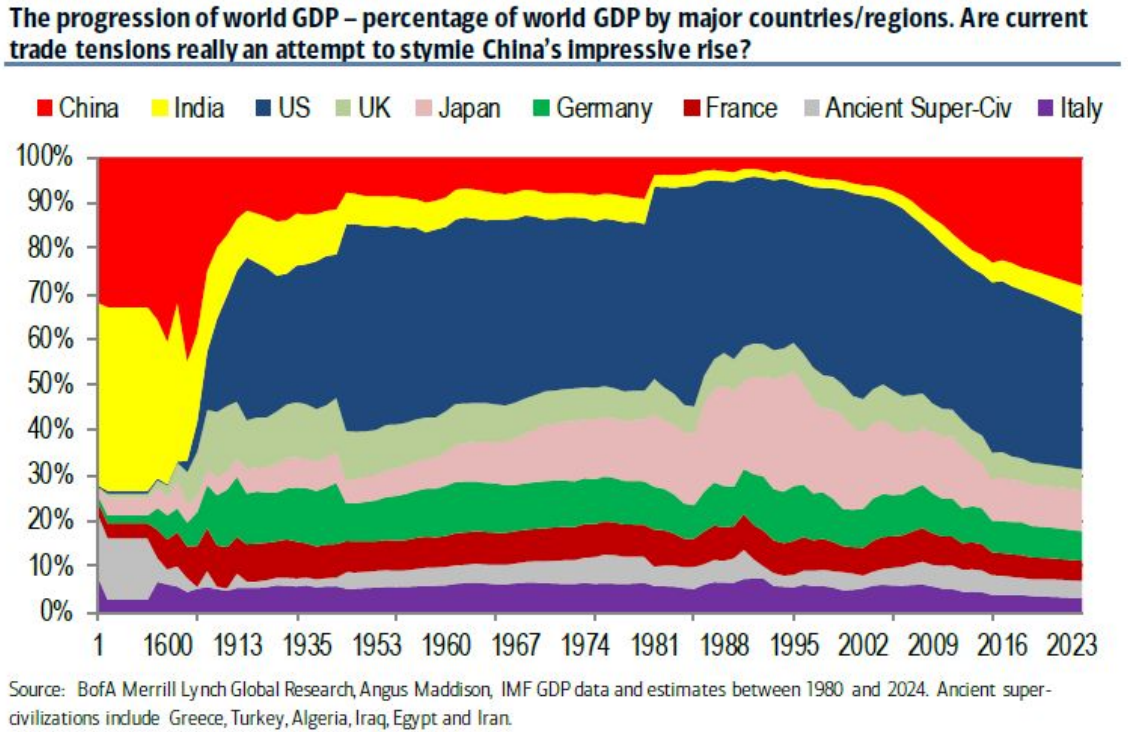


VISUALIZATION 1



Visualization 1 illustrates the traffic trend on Singapore's Roads, affected by the Covid 19 Pandemic.

VISUALIZATION 2



Visualization 2 illustrates the Global output (measured in gross domestic product) from the beginning of the common era (1600) of the Ancient super-civilizations.

VISUALIZATION VALIDATION 1

CHART 1

The Big Picture of COVID-19 on Singapore's Roads

CRITIQUE

1. The colours utilized are very confusing. The darker and intense colours signifies lesser traffic while yellow and green is used to signify high traffic. In UI design, this is frequently done in reverse.
2. No clear direction on the parameters (Row and Column).
3. Audience is not able to comprehend the information immediately, by looking at the visualization chart.

VISUALIZATION VALIDATION 2

CHART 2

The Progression of World GDP

CRITIQUE

1. Overuse of different colors makes it difficult to distinguish one from another, making it difficult for the viewer to see the region encompassed by each of the countries.
2. Difficulty in spotting a trend pattern in terms of the scale that has been utilized in this chart. The value range on the x-axis (e.g., year) is inconsistent with no equal interval between the start and end year.

CHOSEN VISUALIZATION AND JUSTIFICATION

After much consideration, the team has chosen Chart 1 – The Big Picture of COVID-19 on Singapore's roads to be improvised on the overall visualization of the chart with the following reasons:

1. No correlation between x-axis and y-axis parameters.
2. On the chart, there is some potentially deceptive information, which may cause the viewer undue confusion.
3. Using conventional colors to convey opposite meanings.

IMPROVEMENTS

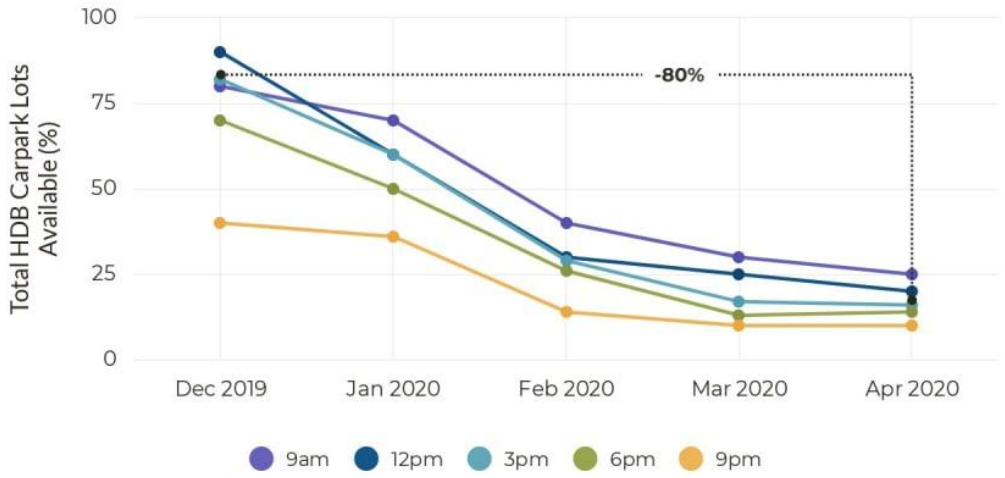
DATA	The data utilized on the chart has to be reshuffled and sorted in order to provide users with a more accurate portrayal/representation.
IDIOM	Transform the existing chart type to a line chart, which may be used to show patterns in traffic flow on Singapore's roads over the epidemic period.
COLOR	The various shades of green used to indicate the daily maximum car movement should be readjusted, as light colors generally denotes low value and dark color denotes high value.

MOCK UP SOLUTION #1

Line Chart

The Big Picture of Covid-19 on Singapore's Roads

DATA: HDB Carparks Availability



Up to 80% decrease

Decreasing availability of HDB parking lots as Covid measures tightened.

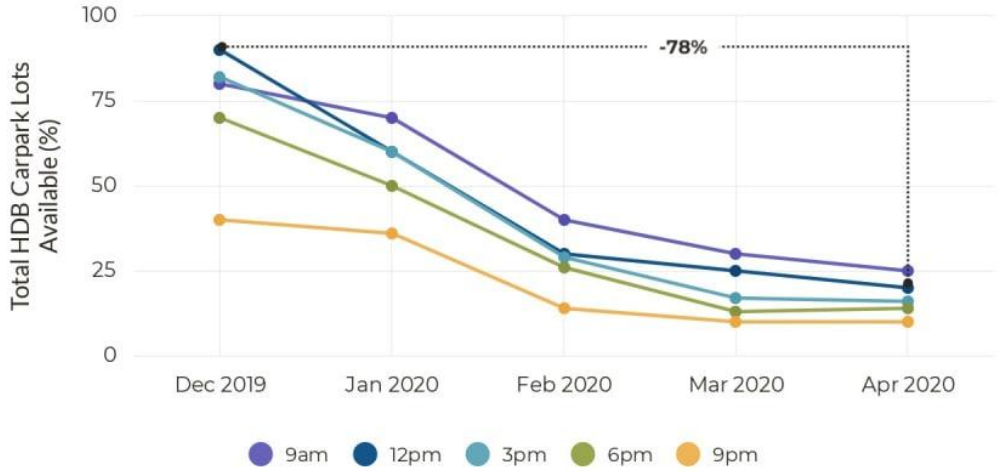
More people are staying at home, therefore lesser vehicles can be seen on the road

MOCK UP SOLUTION #2

Line Chart

The Big Picture of Covid-19 on Singapore's Roads

DATA: HDB Carparks Availability



Up to 80% decrease

Decreasing availability of HDB parking lots as Covid measures tightened.

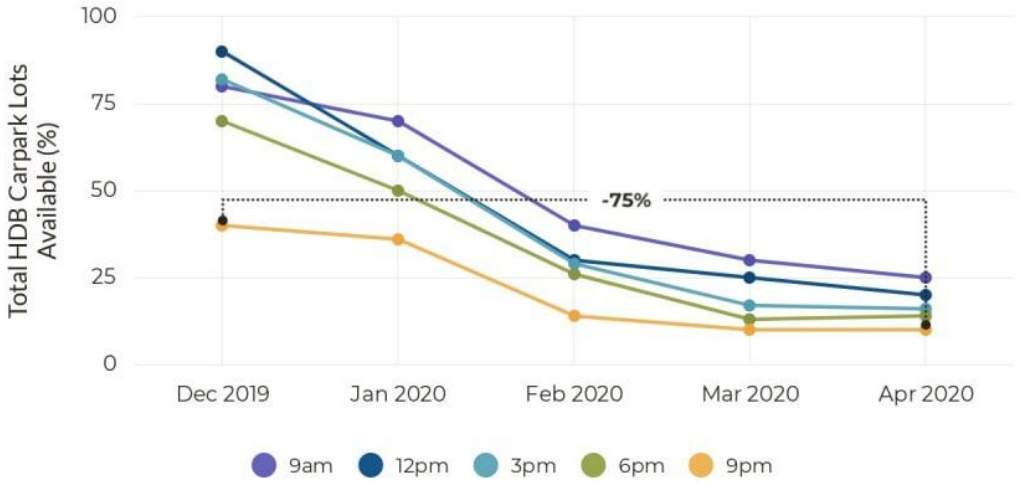
More people are staying at home, therefore lesser vehicles can be seen on the road

MOCK UP SOLUTION #3

Line Chart

The Big Picture of Covid-19 on Singapore's Roads

DATA: HDB Carparks Availability



Up to 80% decrease

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THANK YOU

Any questions?