

# IDEAS

5 Design Sheet Cici

• User can see visualization from different aspects, Alcohol, speed zone, time.

- Show the amount of crashes alcohol-related.
- Show the increasing / decreasing trend of crashes.
- What location in Victorian state have most crashes?
- Light condition VS Time.
- can select certain year / month / date?
- Alcohol-related have relationship with severity?
- Map = can select a small region, like canfield?
- Accident Type VS Region = How many crash with vehicle in Kingston?

Average in Year?  
or total?

## Filter

- Map (show location, leafout, longitude, longitude).
- Severity distribution from 2014 - 2018
- Speed distribution (Under Alcohol).
- Light condition distribution under 24 hours.
- Region = which region is a high-risk area (Top 10).

Total 5 years?  
Or select average.

## Category

Map =

1. Summary.
2. Alcohol-related
3. Top 10 (leafout) (bar chart).

Analyse in a Day (24 hour)

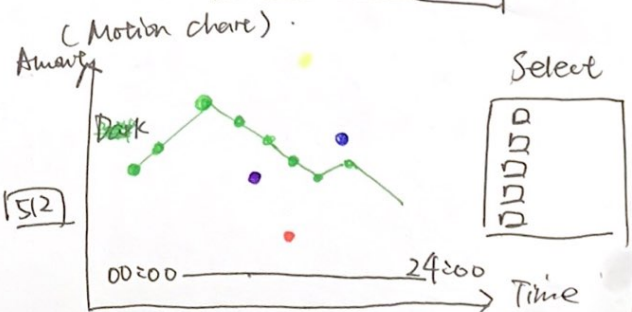
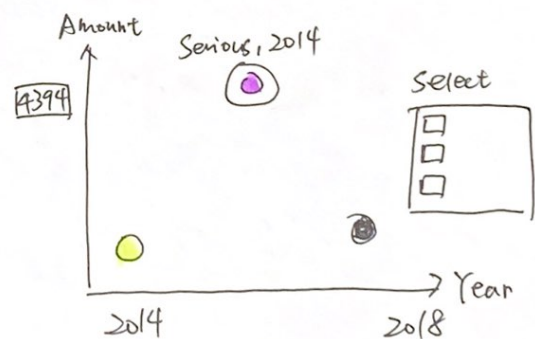
1. Light condition.
2. Speed zone (Motion chart)

Analyse in a Year

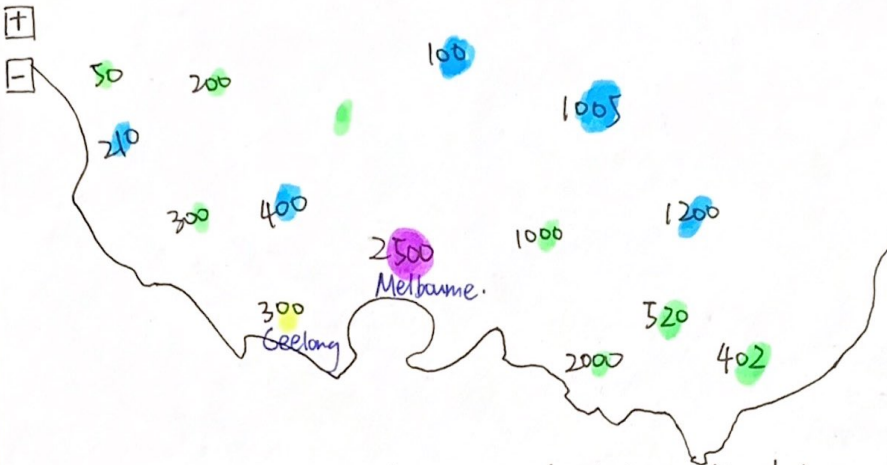
1. Severity distribution.

About Data:  
Data source.

## Combine & Refine



## LAYOUT



Using leaflet to show all location of crashes with clusters.

## FOCUS



There are 12 crashes near St Klida.

There are 6 crashes near Brighton.

There are 5 crashes near Moorabbin.

## Information

Title: Showing amount of crashes on map

Author: Cici Jiang

DATE: 26/05/2019

SHEET: No.2.

TASK: Visualization on Map.

## Operation

Action	Result
"Summary"	General Overview
"Alcohol-YES"	Overview with data \$ Alcohol-related == "YES"
"Year = 2014"	DATA in 2014.
2015	
2016	
2017.	

## Discussion.



# LAYOUT

Crashes in Victoria.

Map

Motion Chart on Day

Motion Chart on Year

Alcohol

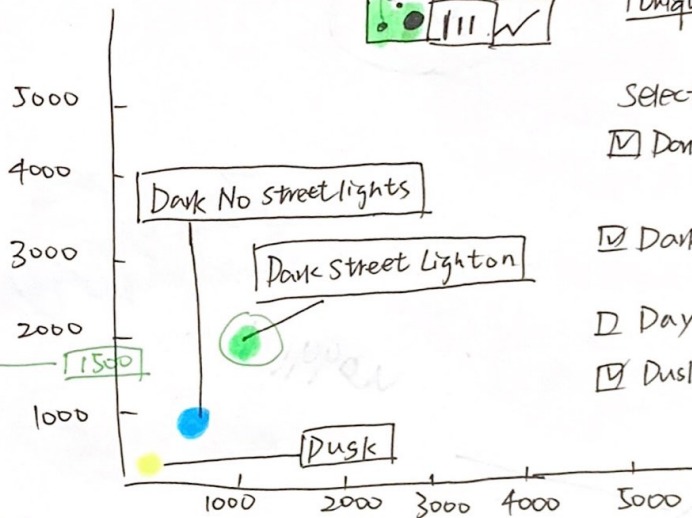
selected

Group Data by

- Light condition (selected)
- Speed zone
- Severity

- All (selected)
- No Alcohol
- Alcohol-related

can select the data with alcohol related.



Color

Unique Color

Select

☒ Dark No street light

☒ Dark street light on

☐ Day

☒ Dusk / Dawn

Amount



22:00

Means = 5723 crashes happen in 19:00

Means mouse click on represents 1500 crashes under dark street light on when 22:00 pm

57.27 19:00

selected

Color

Unique Color

Select

Deselect All

Discussion =

- Average / Sum.

Information =

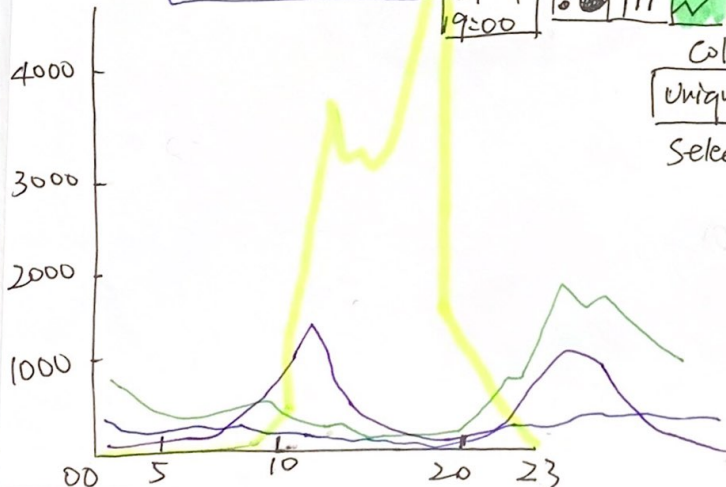
Title = Show number of crashes under various light condition

Author = Cici Jiang

DATE = 27/05/2019.

sheet = No.3.

TASK = Motion chart on Light



## LAYOUT

Crashes in Victoria.

Map

Summary

Top Risky

More Details

Number of Rank to view

10

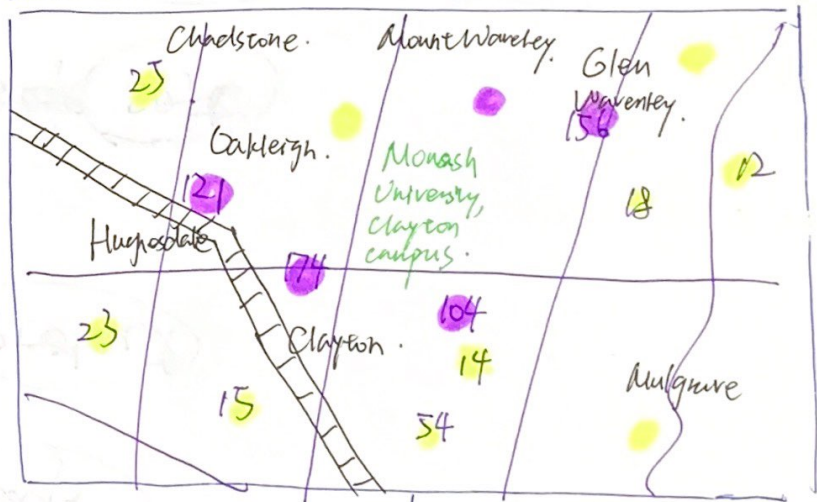
Region	Amount
Melbourne	4068
CASEY	2865
GEE LONG	2667
DANDENONG	2470
HUME	2267
BRIMBANK	2236
MORELAND	2137
YARRA RANGES	2111
MONASH	2081
WHITLESEA	1761
YARRA	1761

Select Region to see details of crashes in this Region

Monash

Monash 2017

Select Year



Discussion:

## FOCUS:

- The number of crashes near Monash University, Clayton campus.
- Can give users something special based on their input, more personalized customization.
- Ranking can start from 1 to 20.

## Operation:

Action	Result
"Year"	select data with certain year
"Region"	select data with certain Region
"Number"	show data with top "Number" rank



