

# IDEAS

Title: FPS 1: Brainstorm.  
Date: Shark Attacks Australia.  
1800-2017.

Sheet 1

Name

Date

Edwin

27/09/2024

Map:



Chloropleth

↳ % per state



Map:

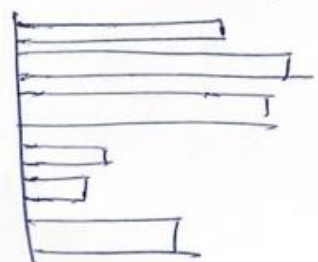


Dot map

↳ Each dot = one incident.

State

VIC  
QLD  
NSW  
SA  
WA  
NT  
TAS



# shark incidents



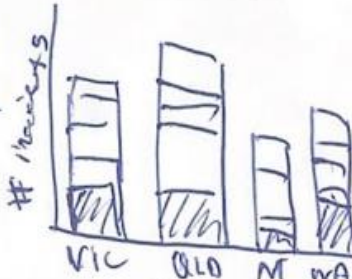
orig



Gender donut chart

orig Fatal?

Male  
Female



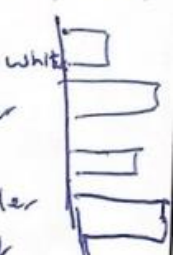
↳ Stacked bar/column by shark type.

Great White  
12

Provoked



Unprovoked



↳ Butterfly chart by shark type.

## Categorise

Map: Chloropleth vs Dot.

② Gender/Fatal: Pie vs Donut.

③ Shark type: Stacked vs Butterfly.

④ State: Line vs. Column.

## COMBINE & REFINE

Combine & Refine

Bar/column:



and Line chart.



Dot map

and proportional symbol.



## FILTER

Stacked column

Bar/column

↳ Two in one.

Butterfly.

1 map:

Chloropleth

simple

Dot.

cluttered.

FPS2: Dot Map + Bar chart + Line chart.  
FPS3: Chloropleth + Donut + Butterfly  
FPS4: chloropleth + Proportional map + Stacked column.

## SUMMARY & QUESTION

\* How many ideas per page? → 3 for simple. 4 for marks.

\* Colour → Blue for water, Red for Fatal.  
\* Dot vs Chloropleth info?

# Big Picture / Layout

Shark Attacks in Australia

Where are they?



are they?



Year: 1900 2017

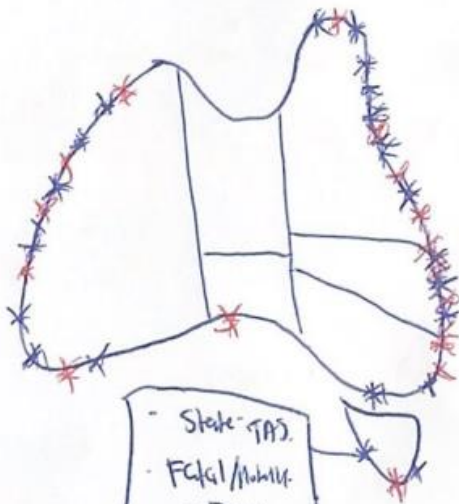
When are they?



Shark: Great White, Tiger, Hammerhead

## Focus

Shark dot map



- State: TAS  
- Fatal/Number: Fatal  
- Area: Cape  
- Age: 25  
- Year: 1950

Tool tip  
→ when hover  
over a dot

Fatal  
non Fatal

↓  
Categorized  
as either  
Fatal or  
Not-fatal  
using Blue/  
Red dots  
on map.

## EDS 2: Dot Map

Name Edwin Zhu

Date 27/09/2024

Title Dot map for Aus

Description Shark attacks

Dot map of Aus coastal attacks with two charts: Bar and Line chart.

## OPERATIONS

\* Will include one "over" use as Filter  
Slider to control "Year" for all 3x visuals.

\* Tool tip on map → HOVER on a dot for more info on that one attack

\* Can filter by State when clicking on a state in bar/column chart.

## DISCUSSION

\* Simple and allows + retention a the map vis.  
+ One slider for dynamic view of all 3x change at once.

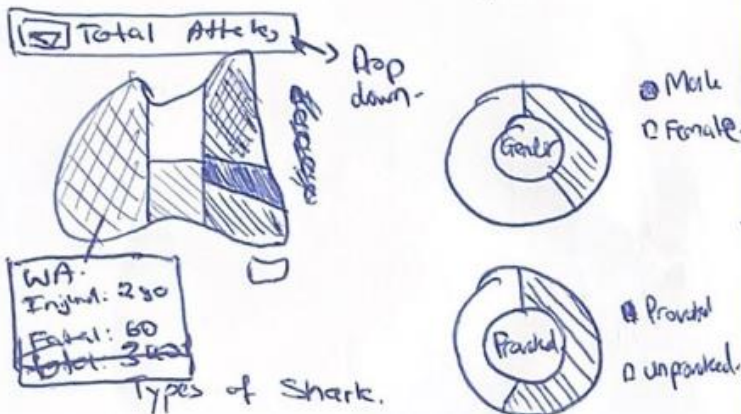
- maybe not enough vis?  
↳ Too simple?

- Dot map may be too congested.  
↳ Filter year.

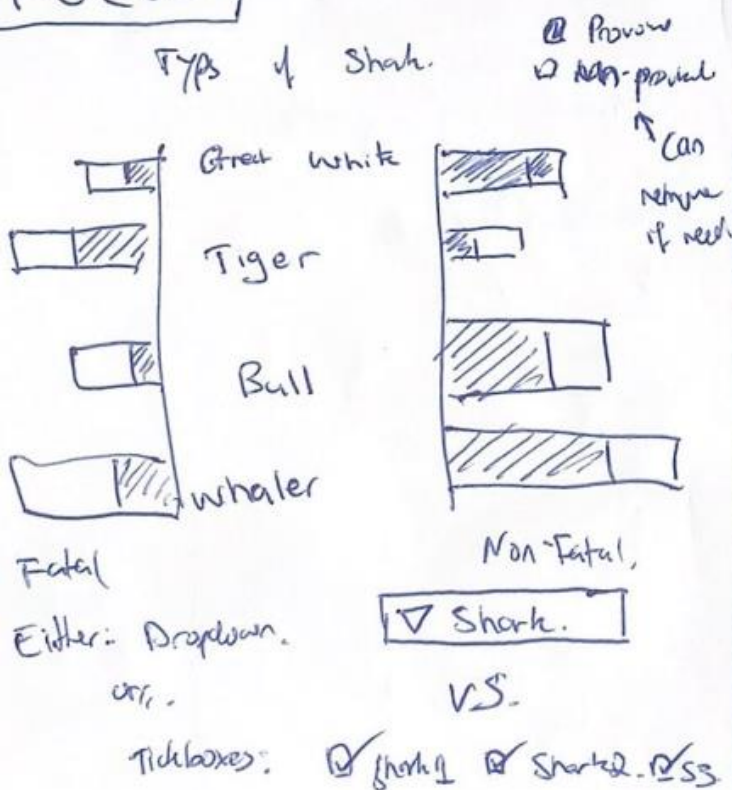


## Figure / Picture

### Shark Attacks in Australia.



## Focus



## FDS 3

Name Edwin Zhu  
Date 27/09/2024

Title Chloropeth map  
Description of Shark Attack in  
Australian States.

With a Donut chart and  
a butterfly chart.

## OPERATIONS

\* Chloropeth Map will have  
a drop down select to  
sort state shading by:

- Total Attacks
- Friend attacks
- Fatal Attacks

\* Tool tip for each state, and  
bar in butterfly chart.

\* Tick box selection of types  
of shark to compare  
in butterfly chart.

## DISCUSSION

+ Two simple Donut charts

↳ Easy to compare two  
categories in each.

+ All three idioms are  
advanced and not  
too simple / complex.

- Should advance either  
chloropeth or butterfly  
to include more  
categories?

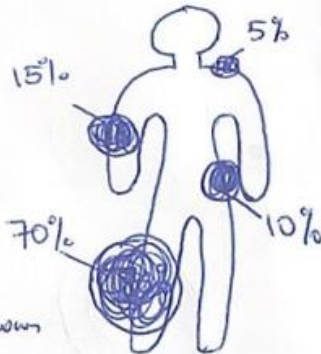
## BIG PICTURE

Attacks by State



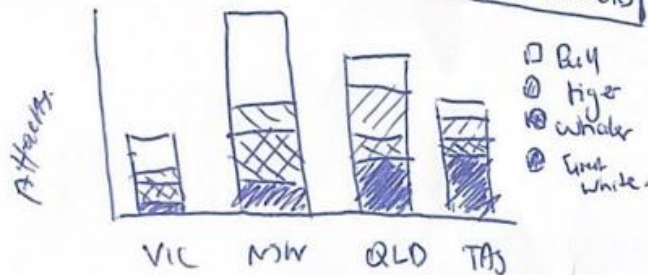
WA:  
20% total incidents  
10% Fatal.

Injury Location



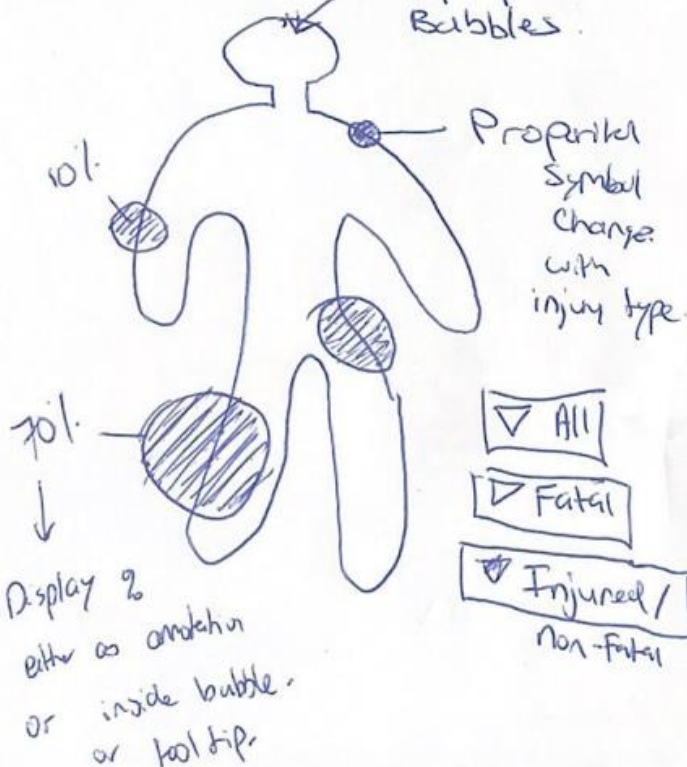
Drop down for injury

▼ All Attacks



## FOCUS

Background Figure for proportional Bubbles



## FP5 4.

Name Edwin Zhu  
Date 27/09/2024

Title Symbol map with Attacks and injury.

Description Proportional symbol map with bubble proportional symbol of injury site and stacked column chart.

## OPERATIONS

- \* Drop down selection Filter for Injury type.
  - ↳ All, Fatal or Injured.
- \* for diff sized bubbles.
- \* Tooltip for each proportional 'Shark' symbol on map when HOVERING.
- \* Tooltip when HOVERING bubble and stacked bar chart for additional info if wanted.

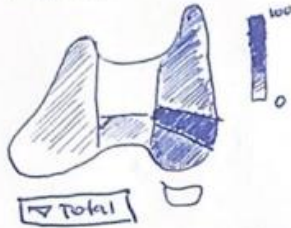
## DISCUSSION

- \* Using background human helps + visualise/retain bubble symbols.
- + Using Shark symbol on map visually appealing.
- Maybe white space between each bubble
- No interactivity with stacked bar chart.



## BIG PICTURE

Where? - FA



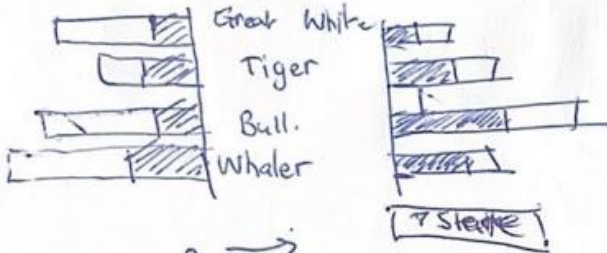
Injury?



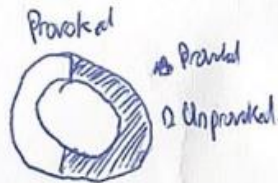
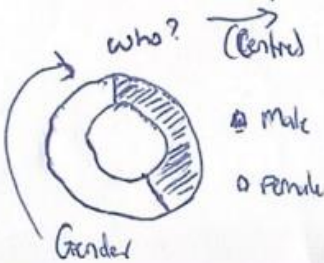
Fatal

Shark Type

Non-Fatal



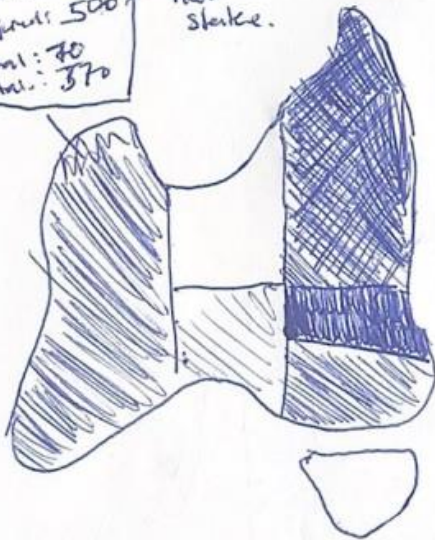
Attacks  
Amount



## FOCUS

Sharks with  
Injuries: 500  
Fatal: 70  
Total: 570

Tool tip  
on  
How  
Sharks.



100  
50  
0  
↓  
or  
bins,  
instead of  
continuous

Total Attacks.

/ Fatal  
/ Injured.

Drop down,  
to change  
category.

## EDS 5

Name Edwin Zhu.  
Date 27/09/2024  
Title First Design Shark Incidents  
in Australia.  
Chloepers with bubble map, symbol  
and butterfly of shark type  
and donut charts.

## OPERATIONS

- \* Drop down selection for Chloepers: Total, Injured & Fatal.
- \* Tool tips on hover when on: State, bubble, donut segment.
- \* Drop down bar for proportional symbol to choose/slide for age of victims, &
- Drop down options:
  - ↳ All types
  - ↳ Fatal
  - ↳ Injury

## DETAILS

- Time to build:
  - each vis ~ 2-3 hours
  - four vis ~ 12-15 hours
- Data set acquired from Shark Incident Database.
- Dataset to be tidied and cleaned as not all incidents observed attributes as others.
- May use stock images of shark types and human.
- Dataset includes lat/long of attacks.