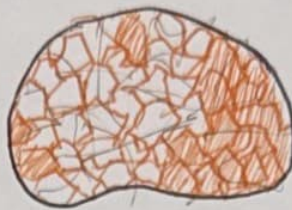


# IDEAS

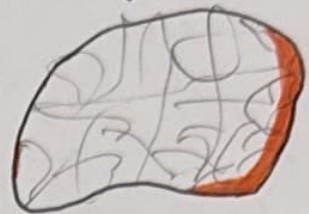
1) Dot map + CAPAD



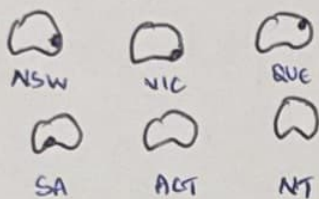
2) Hexbin map



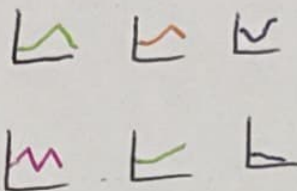
3) Density Heat layer



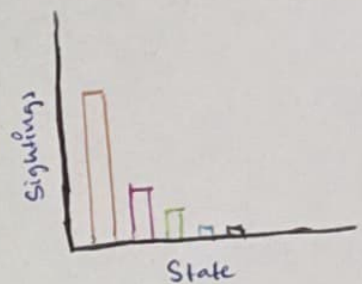
4) Small multiples Maps by State



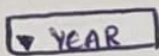
5) Trend lines by State



6) Per 1000 km<sup>2</sup> Bar



7) Year slider



8) Tooltip card



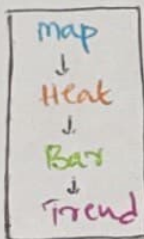
9) Legend Style



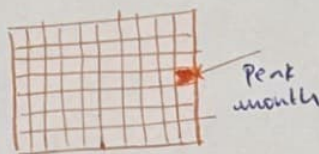
10) Caution Note



11) Mobile Stack



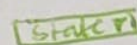
12) Peak month annotation



13) Export Button



14) State dropdown



## FILTER

Maps (1,2,3) default dot map, switch only if dots overplot.

Temporal, keep both, trends show & annotate peak months. controls, keep core interaction support, keep mobile stack, export and warning.

## CATEGORISE

Spatial patterns: 1, 2, 3, 4

Time: 6, 12

UX: 7, 14, 13

## QUESTION

Can we change map style cause of overplotting.

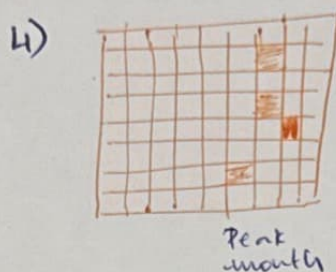
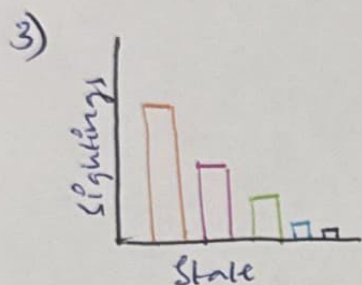
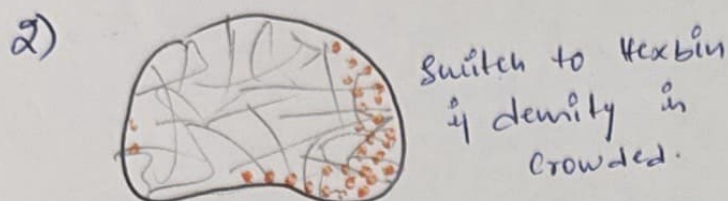
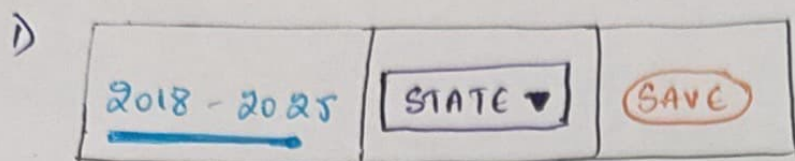
## COMBINE & REFINE

Hotspot Explorer, States at a glance. comparative maps + trends.

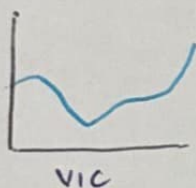
## AUTHOR

Skand Advait Madhula  
19-10-2025  
Sheet: 1

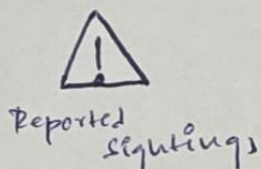
# LAYOUT



5) Selected state trend line



6) Caution Note



## FOCUS

A place led view of koala reports near protected areas. The map shows hotspots, bar compares states fairly, trend shows timing with peak month labelled.

Title : Hotspot Explorer  
Author : Sand Arathi  
Date : 19-10-2025  
Sheet : 2

## OPERATIONS / COMPONENTS

Operations, Year filters all views. State focuses the bar row and the trend. Hover shows exact counts (Tooltip). Export saves current view. Components, Dot map, Per 1000 km<sup>2</sup> bar chart. State trend, year slider, State dropdown, Export, Caution note.

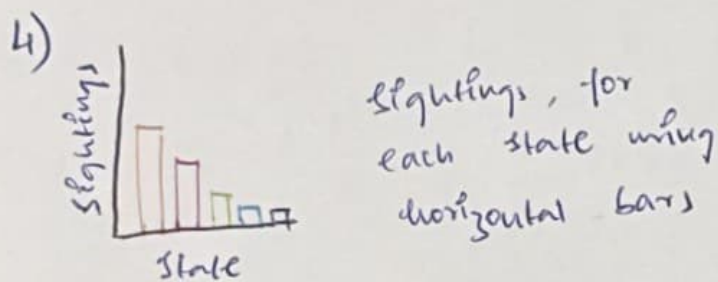
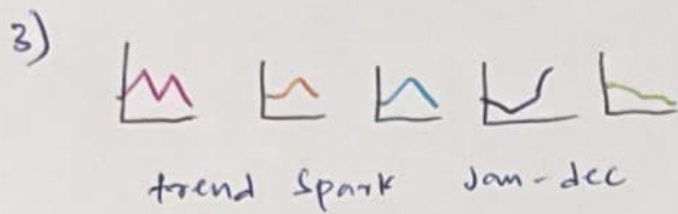
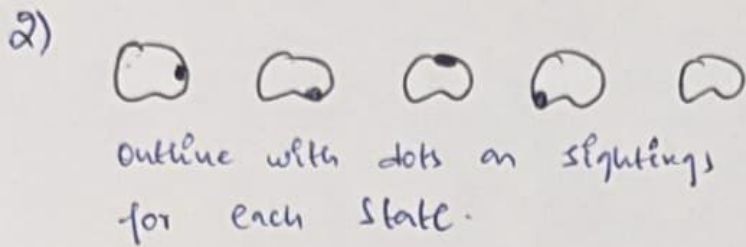
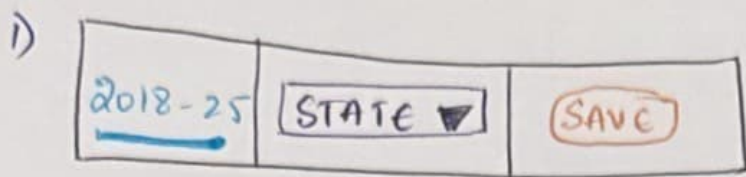
## PROS / CONS

Pros : Strong spatial story, fair comparisons, clear peak timing.

Cons : Map can overplot in hotspots. (Mitigate with hexbin / density).



# LAYOUT



## FOCUS

Give each state equal space so pattern can be scanned quickly. Small maps show distribution, tiny trends show seasonality, the bar ranks fairly.

Title : Status at a Glance  
Author: Skand Alvaith  
Date : 19-10-2025  
Sheet : 3

## COMPONENTS / OPERATIONS

Components, A grid of state maps, mini trend Sparks, Per 1000 km<sup>2</sup> Bar, year slider, State dropdown, Export. Operations, Year updates all tiles. Clicking a state highlights its tile and bar segment, hovering a Spark shows exact count.

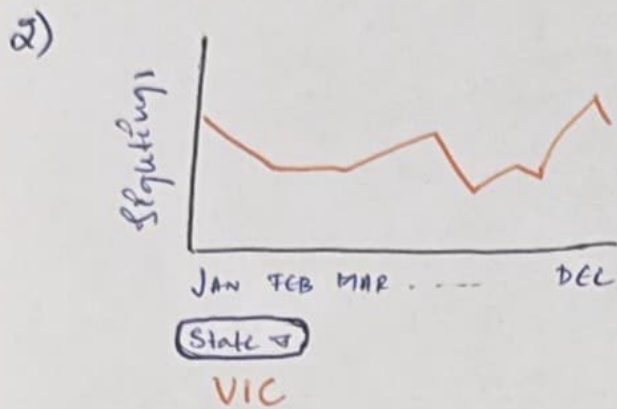
## PROS / CONS

Pros, Fast Cross state comparison, low bias from map size.

Cons, Small tiles limit detail, less immersive than a large map.

# LAYOUT

1)



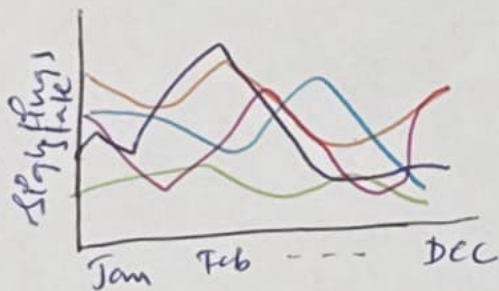
3) Dot map



4) Caution note



5) Multi state trend



## FOCUS

Start with timing, show when reports peak for the chosen state then confirm where on a compact map.

Title: Seasonal Trend planner  
Author: Sand Alvaith  
Date: 19-10-2025  
Sheet: 4

## COMPONENTS | OPERATIONS

Components, A large trend with peak label, small map, context trend strip, year slider, state, export, Caution.  
Operations, year & state update all. Hover on the line shows the month & count. Export saves the current configuration.

## PROS | CONS

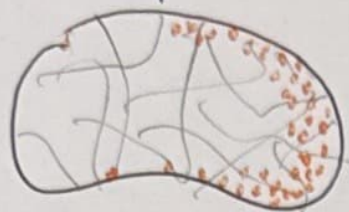
Pros, Answers 'when should I go'. clearly, simple to read.

Cons, less national spatial detail, relies on a small map.



# FINAL LAYOUT

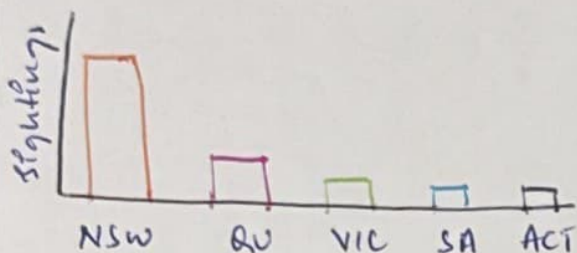
## Dot map



State

YEAR

## Per 1000 km<sup>2</sup> Bar

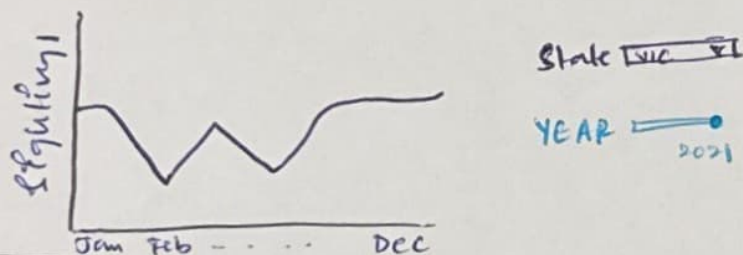


YEAR

## Heat Map



## Trend



State

YEAR

## FOCUS

A trustworthy, place led overview, the map shows hotspots, bar compares states fairly, trend shows the best month, clearly labelled.

Title : Realization

Author : Stand Alvinth

Date : 19-10-2021

Sheet : 5

## COMPONENTS / OPERATIONS

Map, Per 1000 km<sup>2</sup> bar, trend with peak label, year slider, state dropdown  
Year refilters all views. State focuses the bar row and the trend. Tooltips show exact counts and month labels.

## DETAIL

Transforms : monthly counts by state, year, months, per-1000 km<sup>2</sup> =  $(\text{count\_state\_year} / \text{protected\_area\_km}^2\_state) * 1000$ .

Projection : Equal area.

Dependencies : Vega embed 6.

Files : Spec / map.json, bar.json, trend.json, heatmap.json.

Accessibility, readable font sizes, good contrast.