

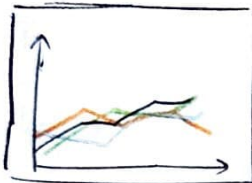
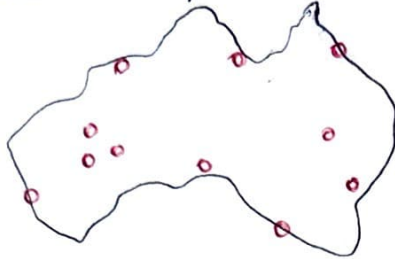


## 1. LAYOUT

TITLE

[ Introduction Text ]

Critical Mines of Australia

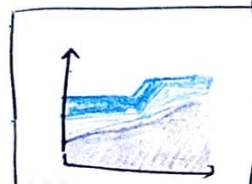


Mineral Production

[ Text ]

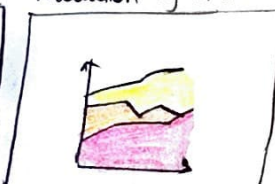


Production by State

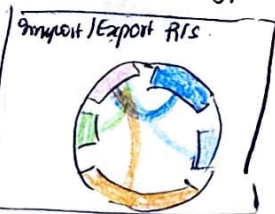
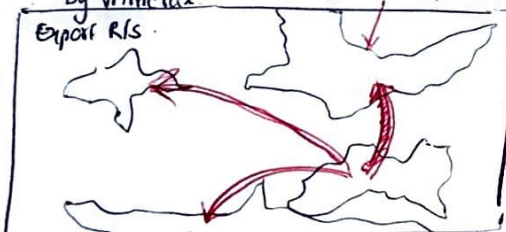


Exploration Expenditure by Mineral

[ Text ]



Exploration Expenditure by Deposit Type



## 2. OPERATION

### 2. OPERATIONS



### 2. Linked Browsing

Mix. Prod

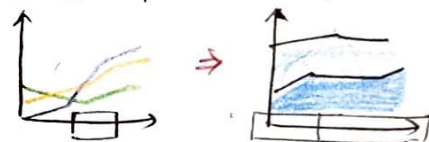


Filters based on slider

### 3. Total Expenditure / Existing vs New Deposit [ Legend Selection ]



### 4. Linked [linked Browsing] from Mineral Exploration & Deposit Exp.



## 3. FOCUS

- Layout - Principles: Most imp chart in visual centre  
- All visualisations are arranged in columns

- Schneiderman's rules used to provide context + focus (using interactivity)

- High Data - Ink Ratio

- Information Dense

## 4. DISCUSSION

### ADVANTAGES

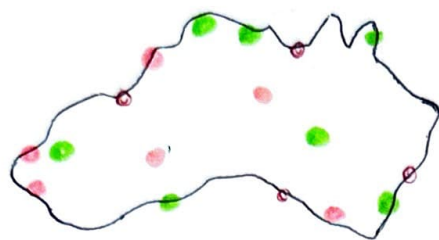
- Structure presentation of info
- Look clean & aesthetic w/ a set order of viewing
- Builds an effective narrative

### DISADVANTAGES

- Too rigid
- could use potential elegance
- Too plain; doesn't capture attention.

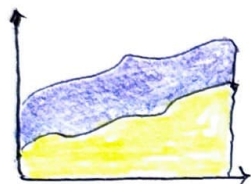
## 1. LAYOUT

TITLE

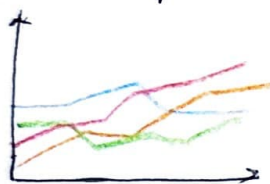


Critical Mines of Australia.

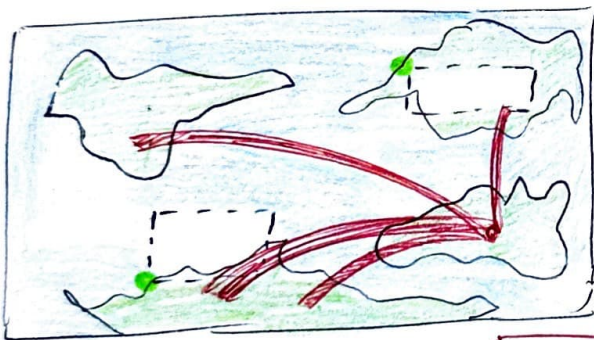
Texture in Background.  
(Earthly)



Exploration Expenditure Deposits.



Exploration Expenditure Minerals.



Export Relationship.

Top n: Select Year

KEY STATISTIC

KEY STATISTIC.

KEY STATISTIC

Text

Text

Text

Exploration Mineral Production.

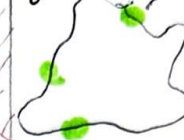
Year



Mineral Prod by State.

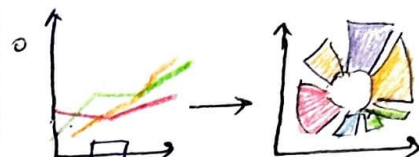
## 2. OPERATION

on clicking



State:  
Mine Name:  
Status:

Legend Selection: Select all types of Mineral groups

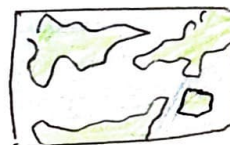


Time Brush

For Trade Flow Map

(a) Select Year to see diff.

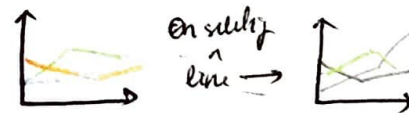
(b) Select Top n Exports



n=3



Pause Zoom



## 3. FOCUS

- Added effective use of chartjunk
- Layout Principles to guide user
- Tooltips for "Focus + context".
- Use of colour & visual hierarchy to guide user.
- Effective layout Principles.
- Thorough implementation of: Classification of data, colour scales & data classes (in Export map + State mineral prod)

## 4. DISCUSSION

### ADVANTAGES

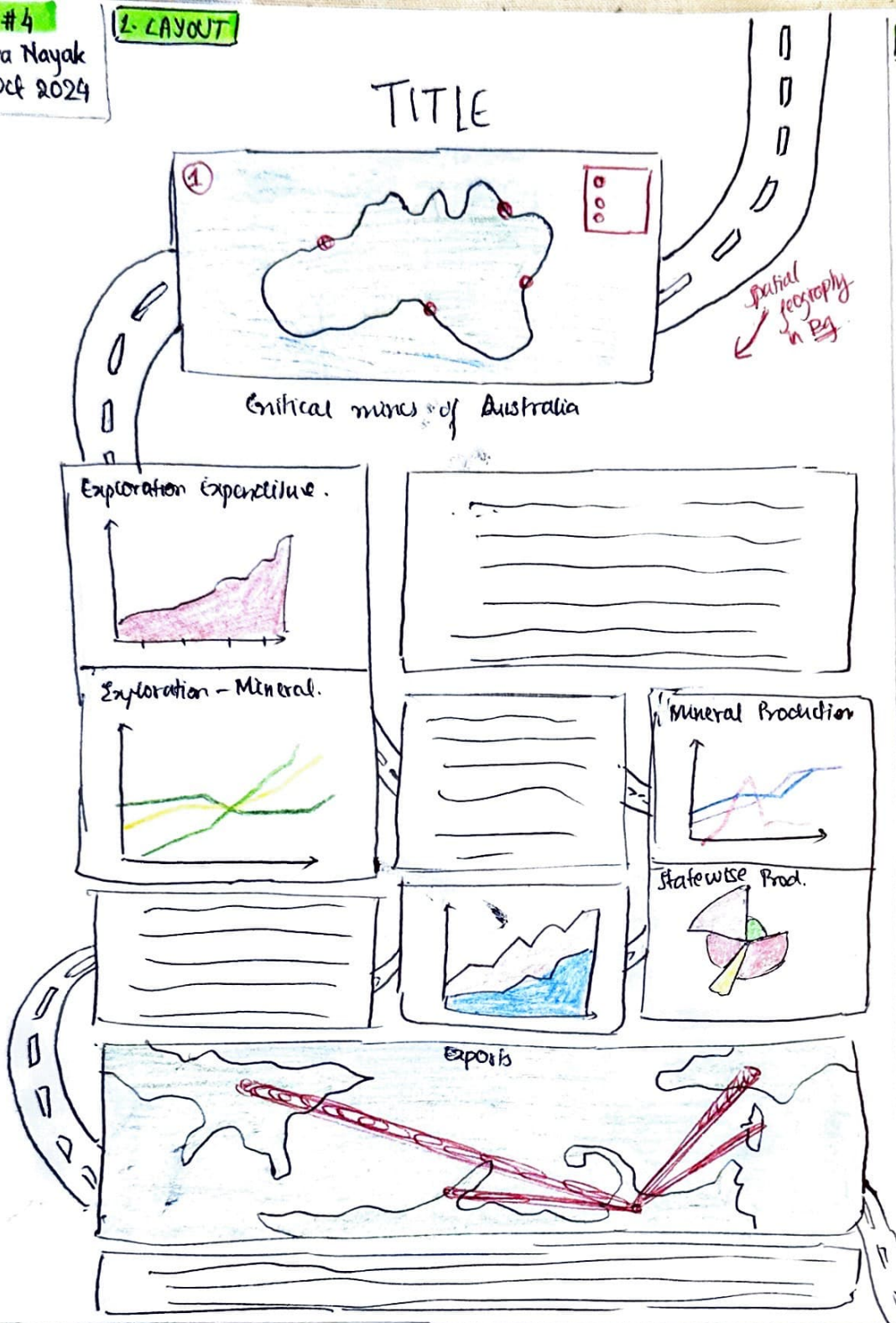
- Structured, easy to follow. Visual cues on order of reading
- Lots of tooltips + interactivity

### DISADVANTAGES

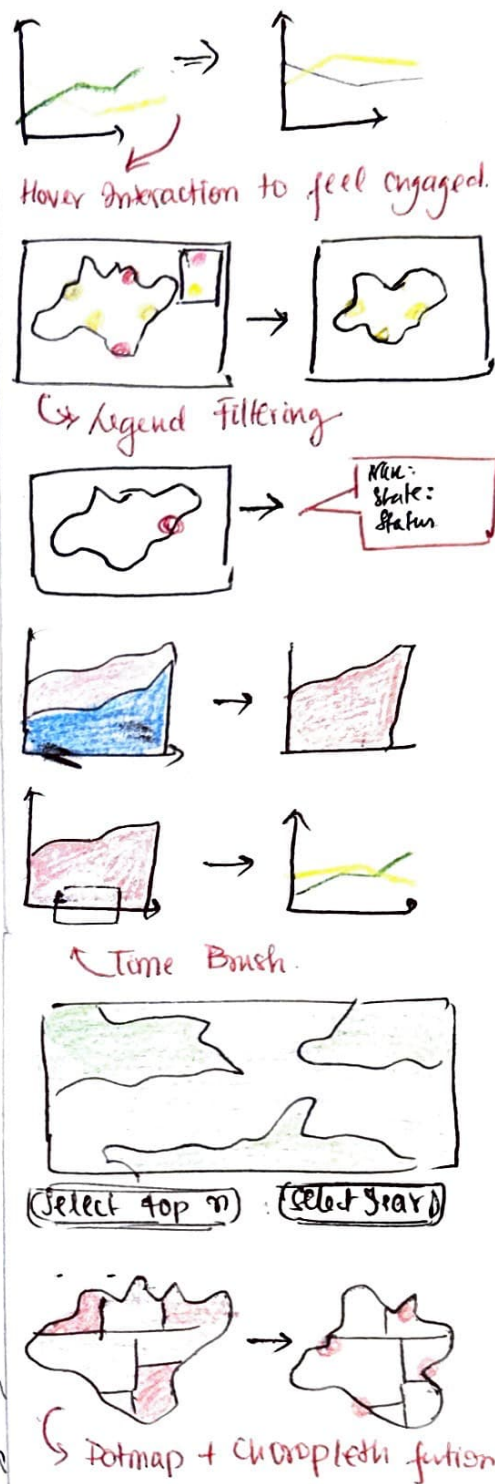
- chartjunk would be distracting?
- Too structured.



## 1. LAYOUT



## 2. OPERATIONS



## 3. FOCUS

- Uses chartjunk (Rods (geographic)) & Sarah's raster images in bg to aid in guidance
- Layout principles; white space; column arrangement
- Narrative; colour scheme

## 4. DISCUSSION

### ADVANTAGES

- Easy to follow
- Engaging; Memorable
- Signlines optimised

### DISADVANTAGES

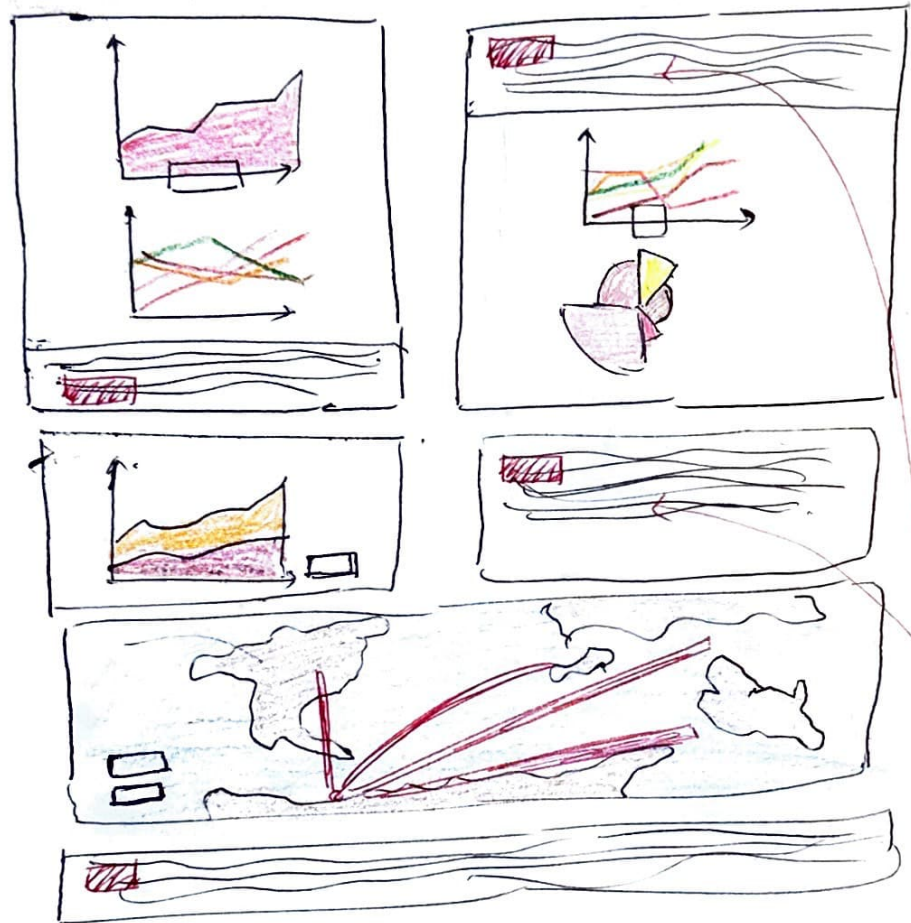
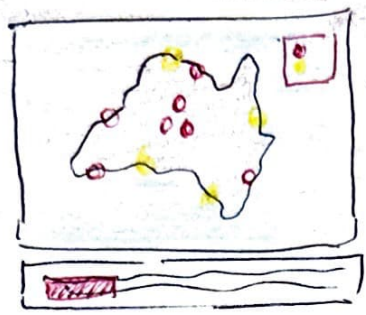
- Too much chartjunk?
- Choropleth + Dotmap  
→ Too complex?



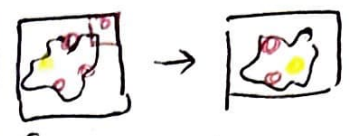
## 1. LAYOUT

# THE ECONOMICS OF AUSTRALIAN MINERALS

Gradient  
→



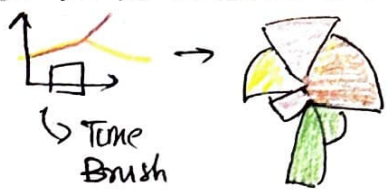
## 2. OPERATIONS



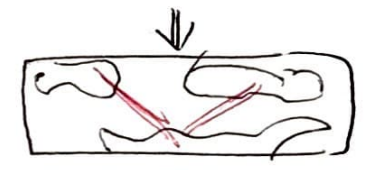
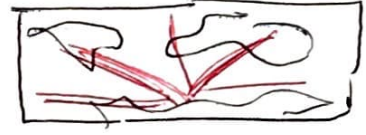
Legend Filtering



Time Brush



Top in : Filters Top n Exports



select Year

Tony Thw

Button that indicates interactivity

## 3. FOLWS

- ① Layout uses column arrangement
- ② All charts are arranged using sightlines & demarcated using white space.
- ③ Colours colour scheme of "Rust Red", "Orange" to convey theme of visualisation
- ④ Shneiderman's mantra. (Interactivity)

## 4. DETAILS

- Time ~ 5 weeks
- Spots : high. (Need to do data processing, learning curve for Vega Lite).
- Python/R used for cleaning
- Many charts not covered in Example Library (Radial chart, Flow map)