# IDEAS

Notes in circulation - the quantity of each denomination

Oline Graph

@ Stocked area chart



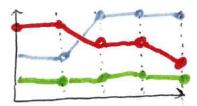




Payment Method Spenditure - \$\$ spent with each method

@ Bump chart



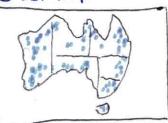


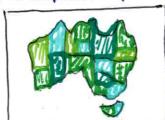


ATM Locations in AUS - distribution of ATMs in AUS

(1) DOT MOP





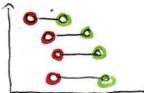


Eustomer Payment Patterns - age, payment size, payment

1 Penut Pie Chart







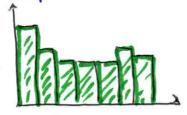
## COMBINE & REFINE

ATM LOCATIONS in AUS

· combine map and chart showing ATM withdrawals

· a slider filler can be used to change year an the





customer Payment Methods

. the pie chart with year slider could be changed

to a line chart with multiple penels.







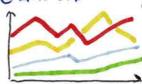
## FILTER

Downp Chort . Not reasible

·Not feasible · Focused on ranking rather than the total enange

Notes in circulation

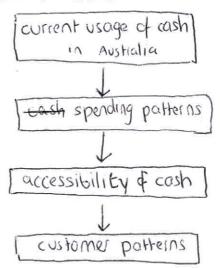
a line chart



. notas informative as other idions

Multiple dhaits don't singue change in overall total

### CATEGORIZE



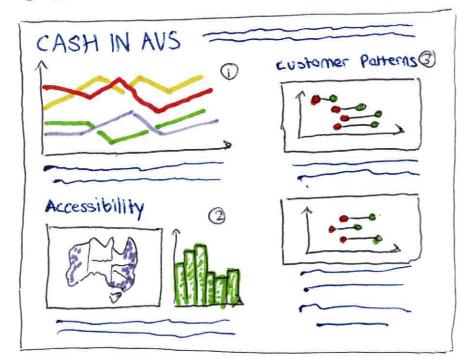
ATM Locations in Aus

- · include a dot map and charapleth
- · choropieth is done or a stake cevel in multiple panels

#### QUESTIONS

- · Is the streamgraph or stacked over chart better for showing the reducing totals?
- · Are panel charts Better for showing of change over a year or pie charts with a year slider?

# LAYOUT



a cash usage

· multiple line chart

· compares to use of different payment methods

@ accessibility

o dot plot and column chart

· shows distribution of ATM locations across AUS

2 MTA mora rups this was the work that mulos o

. less ATMs = less access to cash

(3) customer dat plat

· dot plats

· compares of a Australians between 2007 and 2022

· plot 1: compares payment size

· plot 2: compaes age groups

Title: Dash board View

Author: Ethan Baines

Date: 03/10/2024

Sheet: 22

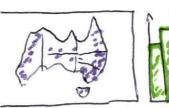
Taask: Design a Dauhboard

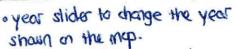
201700

Layout

#### **OPERATION**

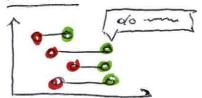
Dot Map + Column Chart





· the column chart will the ever grey out bous that are not the selected year

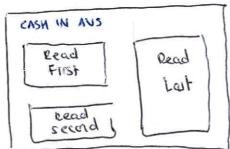
Dot Plot



· tooltip to nightight the ob change between points

#### FOOLS

- · Largest graph is the multiple line chest on different payment methods. It highlights dedining use of cosh, the most important takeaway for the reader.
- · Acceptability shows the reducing number of ATMs
- · Customer Patterns shows the underprinning causes of the place sections.



### DETAIL DISCUSSION

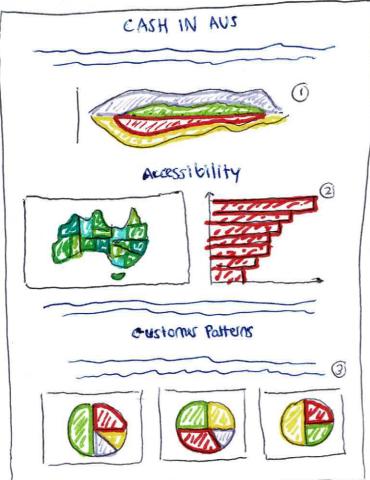
advantages

- · easy to understand (1000 cognitive bad for the reader)
- · column layout is easy to implement and well segmented

disadvantages

- · lacks storytelling. We here graph to frome the user's focus
- · dot plot down it inhow drange over time.

LAYOUT



- (1) notes in airculation
  - · stream graph
  - · shows quantity of each note in circulation over the years
- @ accessibility
  - · charapleth and ordered bar
  - · chotopleth shows ATMs per 1000 people
  - o ardered bor ranks the suburbs
- 3 customer patterns
  - · elenut chouts
  - · shaw payment method usage by age, payment size and purpose

Proposition.

Title: Poster #1

Author: Ethan Baines

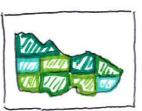
Date: 03/10/2024

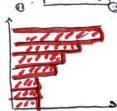
sheet: 3

Task: Design a poster layout

## OPERATION

Choropleth





@ year slider to change the year shown on the map

3 displain to change the stake the map focuses on

Donut charts







associated with the data

### FOCUS

The main chait of this visualization is the streamgraph. It shows the use the current problem to inform the reader for the remainder of the layout.

#### DISCUSSIONS

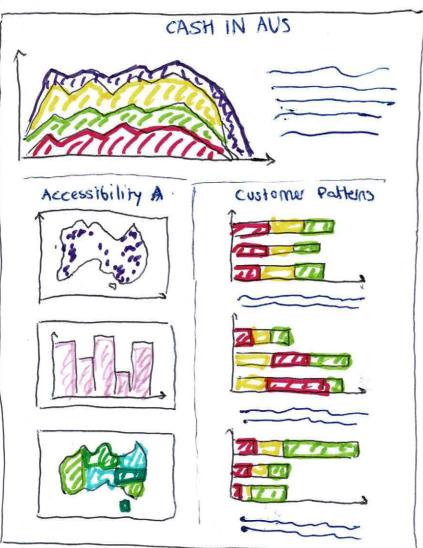
advantages

- the layout supports storytelling, guiding the user through the shorts
- · streem graph room for more visual/solyions

disadvantage

- . too much whitespace
- · donot doot slices could get tec small with multiple categories

LAYOUT



Title: Poster #2

Author: Ethan Baines

Date: 03/10/2024

Sheet: 4

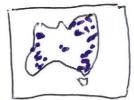
Task: Design a poster layout with alternative idioms

# OPERATION

choropleth + Dot Map 0







10 year slider to charge the year shown on the map

stacked Bor Chart



(i) inwattive legend to invease reduce the opacity of all of the other segments

## FOCUS

- · split into 3 clear sections. Intro, Accessibility and customer patterns
- · compared to previous designs thus one includes stached bor dnorts



. The aim is to show the post -10-whole relationship while displaying herds.

### BUSCUSSIONS

advertages

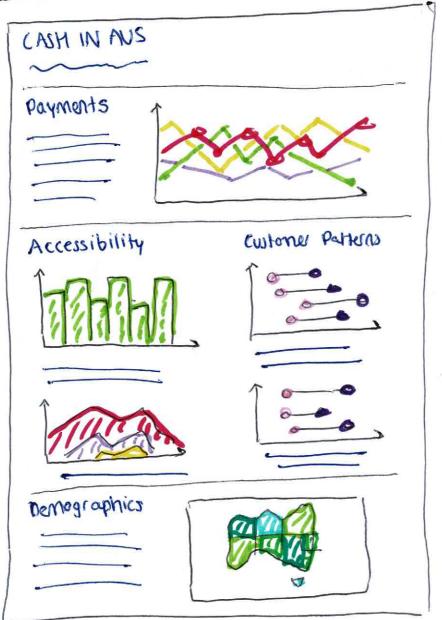
· good storytelling. Clear sight lines.

· combines multiple map draits

disadvantages

" multiple "stacked" idions may limit the details see as smaller segments are hardu to distinguish.

# LAYOU T



Title: Final Layout

Author: Ethan Baines

Date: 03/10/2024

Sheet: 5

Task: besign the find layout

# **OPERATION**

Charopleth



a year slide to change the year shown on the map

Line chart



0 -

O interactive legend to reduce the specify of the other segments

# Focus

- . Line chart offered better apportunity to explare trands
- · not Plot effered the best way to show the change between two years. Only the change in cash usage will be shown for each year
- · Stacked Area chart, is more readable than streamgraph for audience
- · charopleth better than det plot as it won't be clustered at ingjor cities.

## DISCUSSION'S DETAILS

Dependencies

- · cithob for source control
- . HTML, CSS + Vegalile
- . Excel to data deoning

Time Frame

· Idiams 3 days + Layout 3 days

Requirements

. How to clean and normalise data tell choropleth?