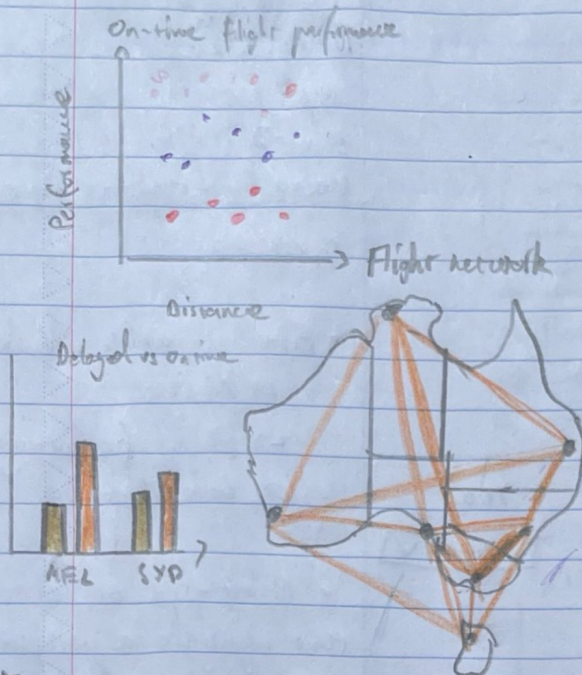
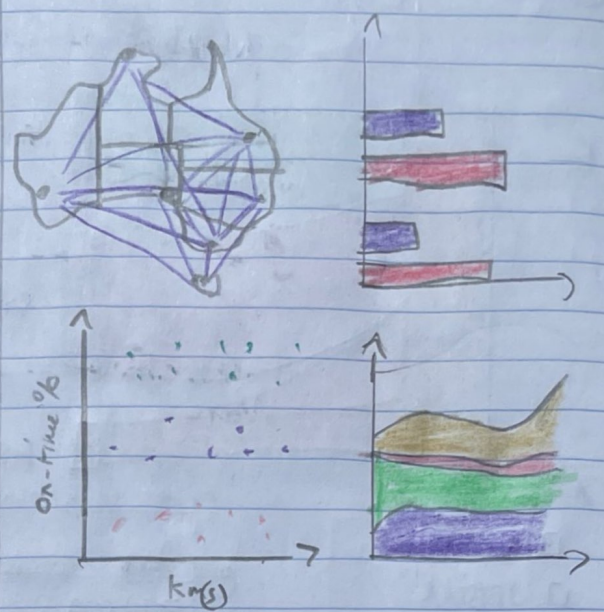




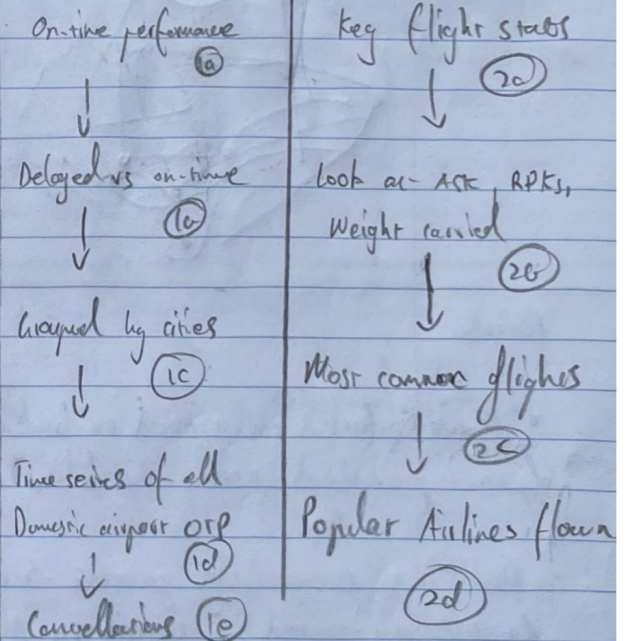
1. IDEAS



2. FILTER

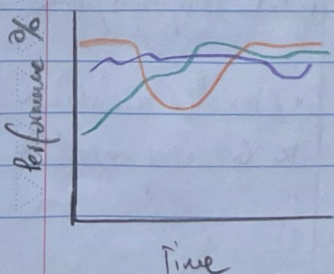


3. CATEGORISE

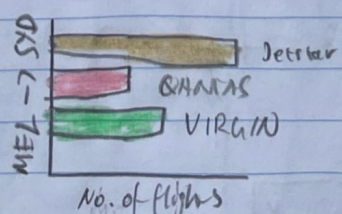


4. Combine & Refine

(1a) + (2d): Best performing Airline



(2c) + (2d): Flight paths by Airline



(1c) + (1d): Best performing air port

5. Questions

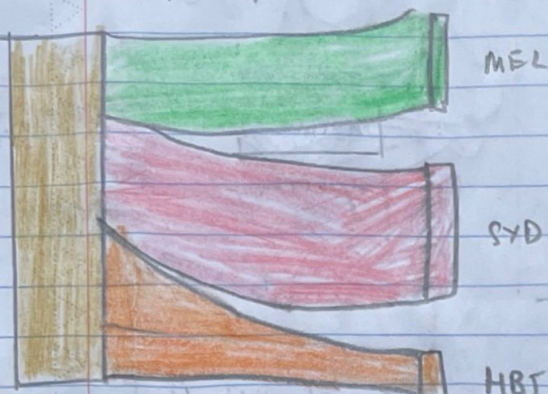
1. How to best visualize ORP across airlines/cities?

2. What type of interactivities would make the visualization better?

2

Layout

Departure/Arrivals



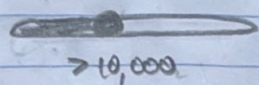
Airlines

☒ ANZ

☐ JETSTAR

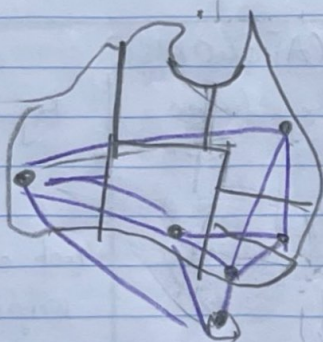
☐ QANTAS

Filter flight number



Year

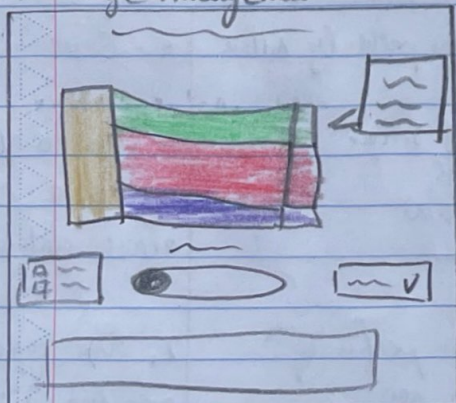
2024 V



Focus

- Primary focus on spatial exploration of the data provided across Australia
- Drills into connectivity patterns -> reveal frequent domestic air-travel patterns in Australia

Page Arrangement



Nicholas Chan

210/10/25

Sheet 2

Route Flow Explorer Page

Operations

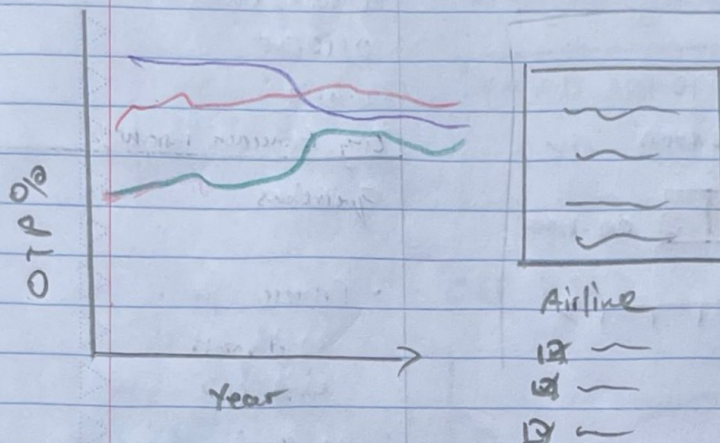
- Filtering which include:
 - ↳ Airline
 - ↳ Flight frequency
 - ↳ Date (year)

- Hover-tips or tool tips that highlight a particular section to reveal further insights. Includes:
 - ↳ Flights of hour
 - ↳ Available seat kilometers
 - ↳ On-time %

Discussion

- Visually compelling and appealing.
- Easy to interpret network/spatial data since it's the best form to convey air-travel!
- Less focus on trends (i.e. temporal/time analysis)
- Needs consistent layout to be interpretable

Lagooor



Nicholas Chan

10/10/25

Sheet 3

On-time performance dashboard
Operations

Filters:

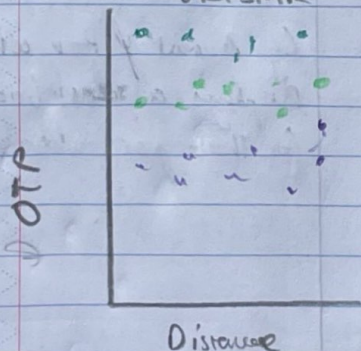
↳ Airlines

↳ Time range

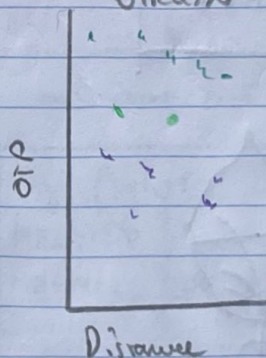
↳ Route

AIRLINE COMPARISON

JETSTAR



VIRGIN



↳ Hooverslips for each mark

↳ "Comparison" mode allowing you to directly compare airlines and analyse a particular metric

Focus

• Analysis focused dashboard that looks at trends and correlations in on-time performance

• A particular focus on Airline performance as the dashboard allows for direct comparison

• Dashboard also explores the potential reasons for delays, enabling for more nuanced discussion & analysis

Discussion

• Strong temporal focus (can clearly see performance over time)

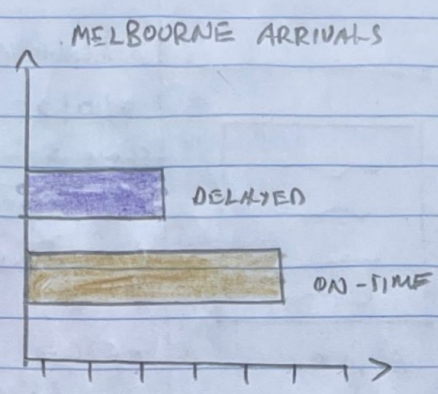
• Catered towards a "KPI" metric focused approach

• Little spatial data, provides less visual appeal

• Charts can become cluttered since lots of comparison is conducted

4

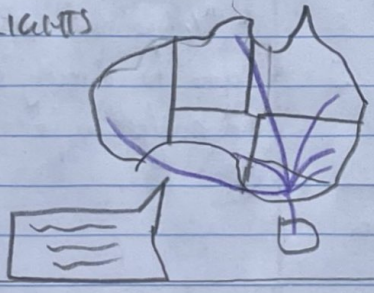
AIRPORT	
<input checked="" type="checkbox"/>	MEL
<input type="checkbox"/>	SYD
<input type="checkbox"/>	BRI
<input type="checkbox"/>	...



MELBOURNE DASHBOARD

OTP %	TOTAL FLIGHTS
89%	84,621

OUTGOING FLIGHTS



Focus

- Integrates connectivity & performance at the airport level
- Shows performance relative to the amount of traffic received
- Identifies underperforming hubs, bottlenecks, and regional differences

Nicholas Chan
10/10/25

Sheet 4
City Connection Insights
Operations

- Filters for :
 - ↳ Airports
 - ↳ Airlines
 - ↳ Metrics

- Dashboard focus - Connected
(e.g. Airport filter which displays a dashboard for that particular airport)

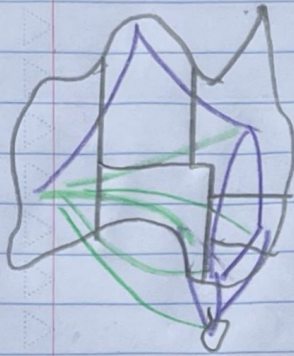
Discussion

- Combines spatial & performance metrics for a diverse page
- Highlights airport performance in context/relation to its frequency
- Requires an in-depth data set to make this page
- Easy to spot performance drops

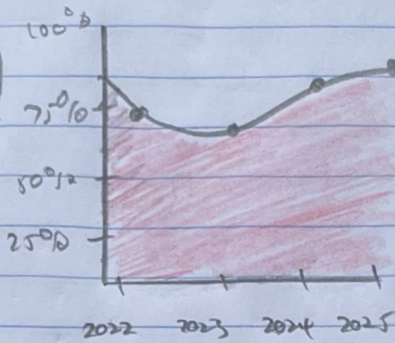
INTEGRATED FLIGHT PERFORMANCE

TOP 5 ROUTES
MEL → SYD
Bris → SYD
...

BUSIEST AIRPORT
SYD



OTP TREND



FILTERS

active	TIME PERIOD
<input checked="" type="checkbox"/>	2021-2025

Metrics

☒ OTP ☐ DELAYS ☐ ASK

Top flights	
MEL → SYD	23,100
SYD → MEL	24,500
...	...

Focus

- "Integrated Flight Performance" page that combines analytical & visual/spatial data
- A scalable page which can accommodate new data sets and new functionality.
- A "filter" control centre is used to globally control all visualisations
- More story-telling focused which makes it accessible to analysts, researchers, or the general public

Nicholas Chen

10/10/25

Sheet 5

Final Layout

Operations

- Filter control centre which has all filters collected. Connected globally to all visualisations
- Hover tips and tool tips over data points to reveal drilldown insights
- Tab navigation to jump to different sections of the page.

Detail

- Combines spatial, temporal, and comparative data
- Highly interactive
- High-level of complexity with filtering and linking of data sets
- Lots of sections could lead to confusion and page clutter.