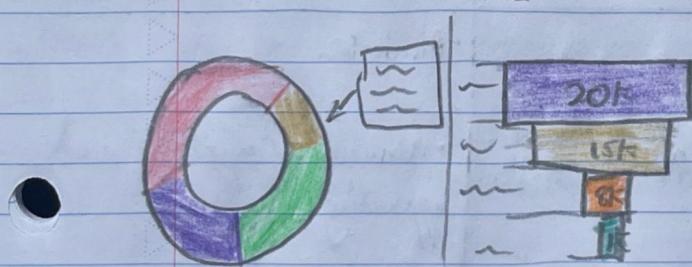
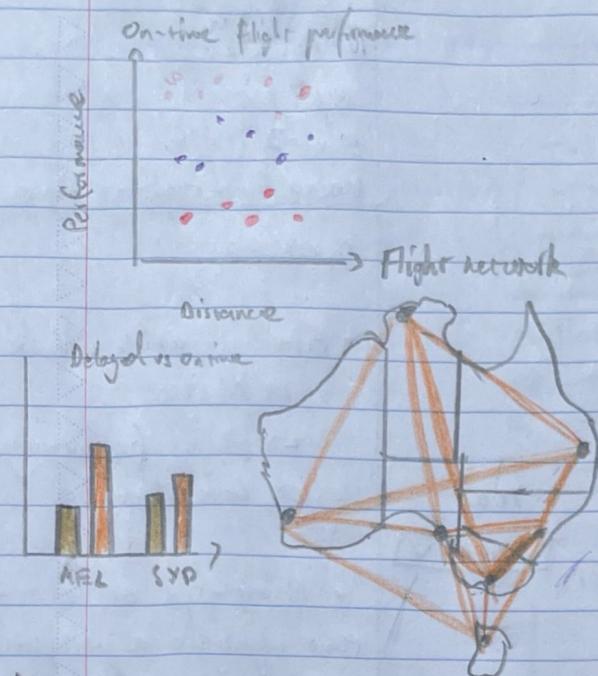


1. IDEAS

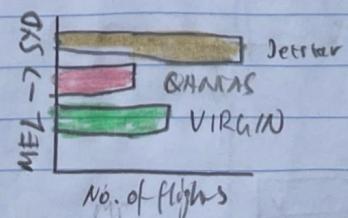


4. Combine & Refine

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

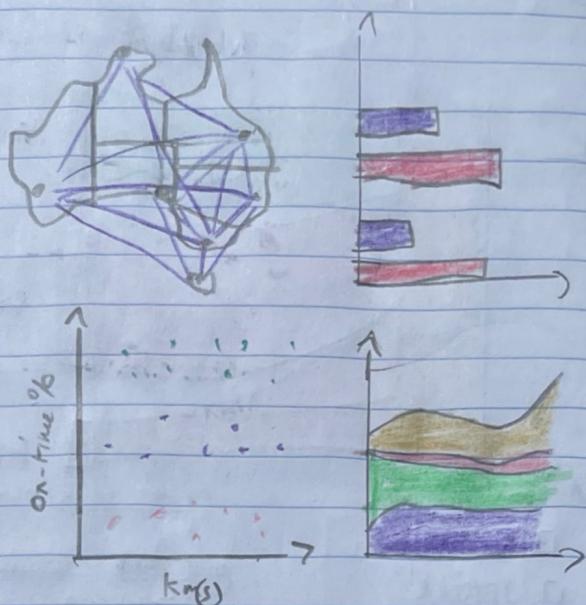


(2c) + (2d) : Flight paths by Airline



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

2. FILTER



3. CATEGORISE

On-time performance

①

Delayed vs on-time

②

Grouped by cities

③

Time series of all

Domestic airport ODP

④

Cancellations

⑤

key flight stats

⑥

look at ACK RPKs,
Weight ranked

⑦

Most common flights

⑧

Popular Airlines flown

⑨

5. Questions

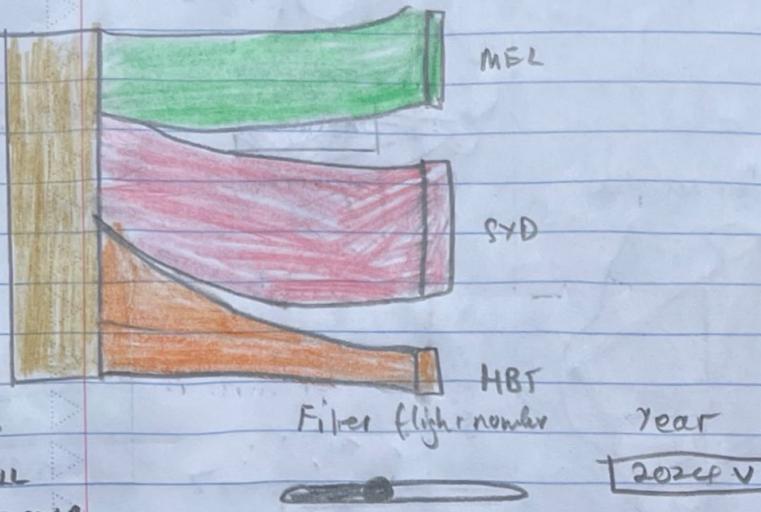
1. How to best
visualize ODP
across airlines/cities?

2. What type of inter-
airlines would make
the visualisation better?

2

Layout

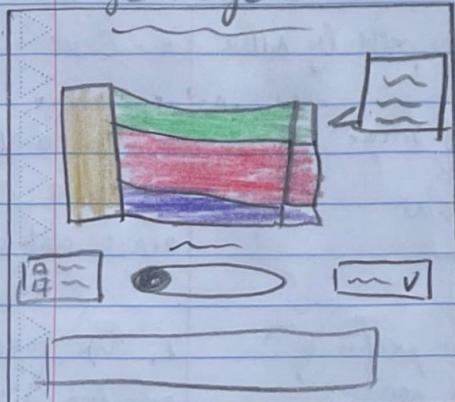
Departure/Arrivals



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 includes:

↳ Timeline

↳ Flight frequency

↳ Date (year)

- Hover-type or tool tips
 - highlight a particular section to reveal further insights. Includes:

↳ Flights flown

↳ Available seat kilometers

↳ On-time %

Piccusion

- Visually compelling and appealing.

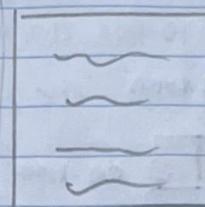
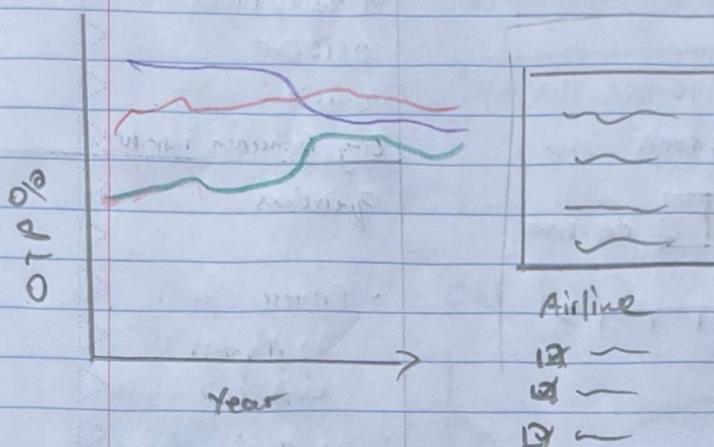
- Easy to interpret network/patial data since its the best form to convey air-travel.

- Less focus on trends (I.E temporal/time analysis)

- Needs consistency before to be interpretable

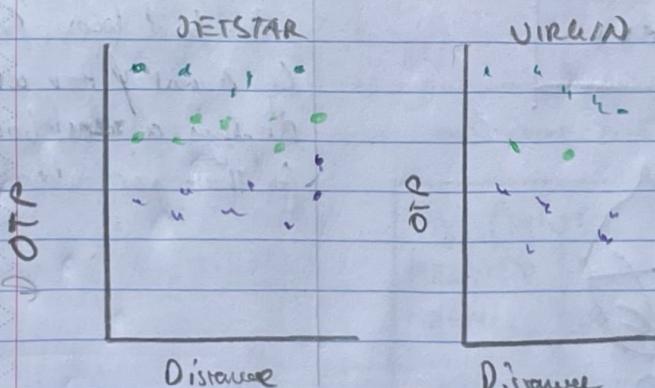
(3)

Lagoon



Airline
Dashed line
Solid line
Wavy line

AIRLINE COMPARISON



Nicholas Chan

10/10/25

Sheet 3

On-time performance dashboard
Operations

• Filters:

- ↳ Airlines
- ↳ Time range
- ↳ Route

• Hover tips for each mark

• "Comparison" mode allowing you to directly compare airlines and analyse a particular route

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

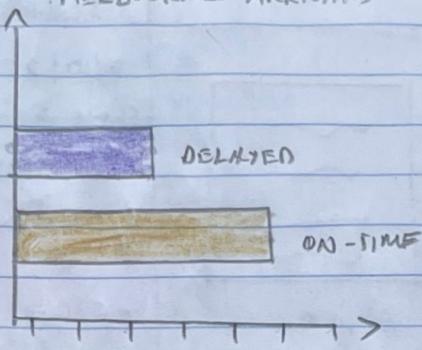
Discussion

- Strong temporal focus (can clearly see performance over time)
- Centered towards a "API" metric focused approach
- Little spatial data, providing less visual appeal
- Charts can become cluttered since lots of comparison is conducted.

④

MELBOURNE ARRIVALS

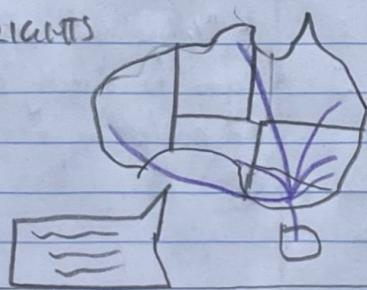
- AIRPORT
- MEL
 - SYD
 - BRI
 - ⋮



MELBOURNE DASHBOARD

OTP %	TOTAL FLIGHTS
89%	89,621

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

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Sheet 4

City Connection Insights

Operations

- Filters for :

- ↳ Airports

- ↳ Airlines

- ↳ Metrics

- Dashboard focus, Controlled
 - ↳ Airport filter which displays a dashboard for that particular airport

Discussion

- Combines spatial & performance metrics for a diverse page

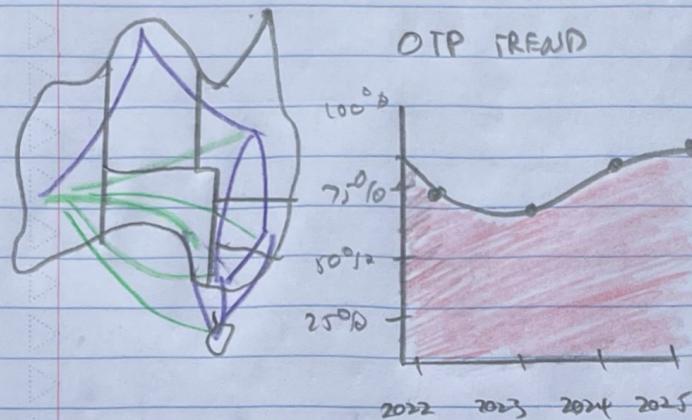
- Highlights airport performance in context relative to its neighbors

- Requires an in-depth data set to make this page

- Easy to spot performance drops

INTEGRATED FLIGHT PERFORMANCE

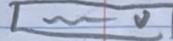
TOP 5 ROUTES MEL → SYD BRIS → SYD :	BUSIEST AIRPORT SYD
--	------------------------



FILTERS

active

TIME Period



2022-2025

Metrics

OTP O DELAYS O ASK

Focus

- An integrated "Flight Performance" page that culminates analytical & visual/brand 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

Top flights	
MEL → SYD	25,100
SYD → MEL	24,500
:	:
:	:

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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 drill-down insights

• Tab navigation to jump to different sections of the page.

Detail

• Combines general, 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.