



Sheet 1

Silvan Liao 10/14

### Idea

Overall flight flow network & map  
Seasonal patterns Growth over time  
Route Ranking Market concentration (by route)  
Regional Hub Analysis  
Monthly Traffic Index Hub connectivity analysis  
Aircraft Utilization & Efficiency

### Filter

Overall flight Network flow  
Top 10 rank Growth over years  
Seasonal pattern  
Market concentration  
Hub connectivity analysis

### Categories

Temporal: Growth over years, seasonal  
Spatial: Maps, network map  
Hierarchical: Hub hierarchy, rank (Top 10)  
Comparative: Market share concentration

### Combine & Refine

Combine time + geography → interactive map with year sliders  
Combine Top 10 + time → Top 10 vary from years  
Combine market share + time → stacked area chart

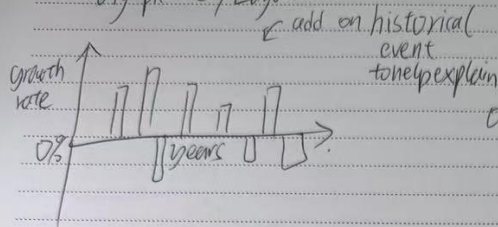
### Summarise and Question

How if one or two most powerful route way higher than other route? Like we all know Mel - Syd is one of the most busiest routes over the world



Sheet 2  
Sixuan Liao  
10/14

Big picture / Layout



operations

vegan life

Histogram

Focus

history line

growth pattern  
over years

pros & cons

Have a clear clue to

Important history event,  
to enhance storytelling

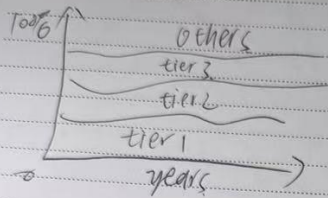
see how An Aviation  
develop

connect important event  
with growth rate,

more Immersive.



Lay out



Sheet 3

Si-jun. Luo

14/10

Operation

vega life

stacked plot.

Focus

Focus on the market power

of first one to maybe 10 route, Pros & Cons

to see if a certain route is too  
power to make comparison.

show weight of routes  
change over time.

Reader can see how  
important of some route

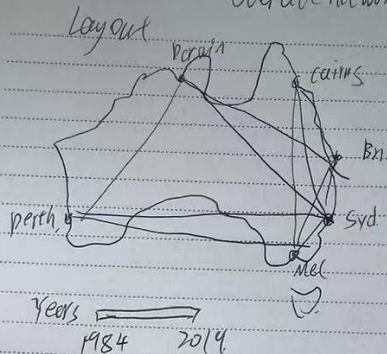
Cons. Some route may  
overtake others.





overall network / Top 10.

sheet 4  
Siyuan Liou



operation

Geo Map.

interactive slides

Focus

Interactive function.

Show all statistic  
when click the selected line.

Make data change over years.

pros & cons

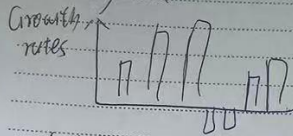
Pretty interactive.  
Remember check any  
statistics of their  
curious route in a  
usable and interactive  
map over years.

CONS - Some Routes  
May overlap, Then  
It will be hard to select.

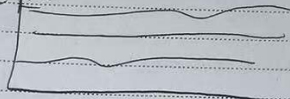


Sheet 5  
Simon Liao  
14/10

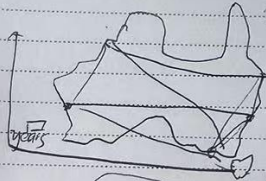
Layout



Stacked plot



How network



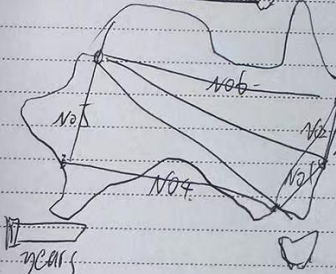
operation

HTML file

combine all plot

Top to

Top to  
only



Focus

Detail

To show our visualization  
logically, with overall review,  
to see which route is important  
and how weight it is.  
Then let reader to explore  
the dataset freely by visible  
and interactive map

week 4 and 7 total

How to use vegalite  
and HTML file,  
and How to embed vegalite  
plot into HTML file