

Monash University: Assessment Cover Sheet

Student name	Zhang	Yongjun	
School/Campus		Student's I.D. number	28558316
Unit name	FIT3179 Data visualisation S2 2020		
Lecturer's name		Tutor's name	Aldrich Clarence
Assignment name	Data Visualisation I Report	Group Assignment: No Note, each student must attach a coversheet	
Lab/Tute Class:	Lab/Tute Time:	Word Count: 522	
Due date: 13-09-2020	Submit Date: 13-09-2020	Extension granted <input type="checkbox"/>	

If an extension of work is granted, specify date and provide the signature of the lecturer/tutor. Alternatively, attach an email printout or handwritten and signed notice from your lecturer/tutor verifying an extension has been granted.

Extension granted until (date):/...../..... Signature of lecturer/tutor:

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- I have taken proper care to safeguard this work and made all reasonable efforts to ensure it could not be copied.
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Visualization URL:

https://public.tableau.com/profile/yongjun.zhang4565#!/vizhome/Tourism_15995428998150/dashboard

Report

-28558316 Yongjun Zhang

The tourism industry is becoming more and more important nowadays. Tourism plays a role in the development of the national economy. This report is to explain the visualization of tourism in Australia.

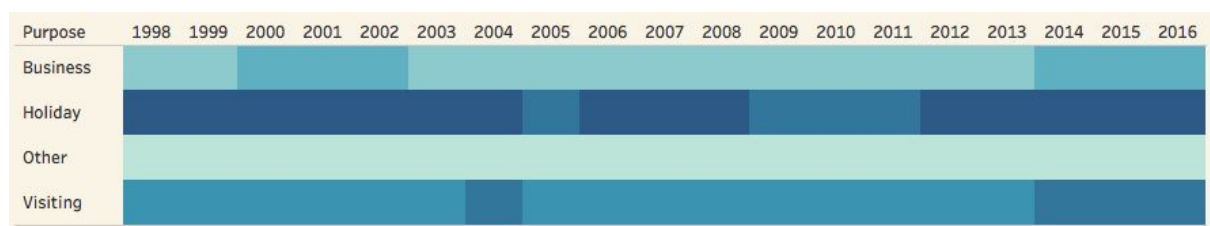
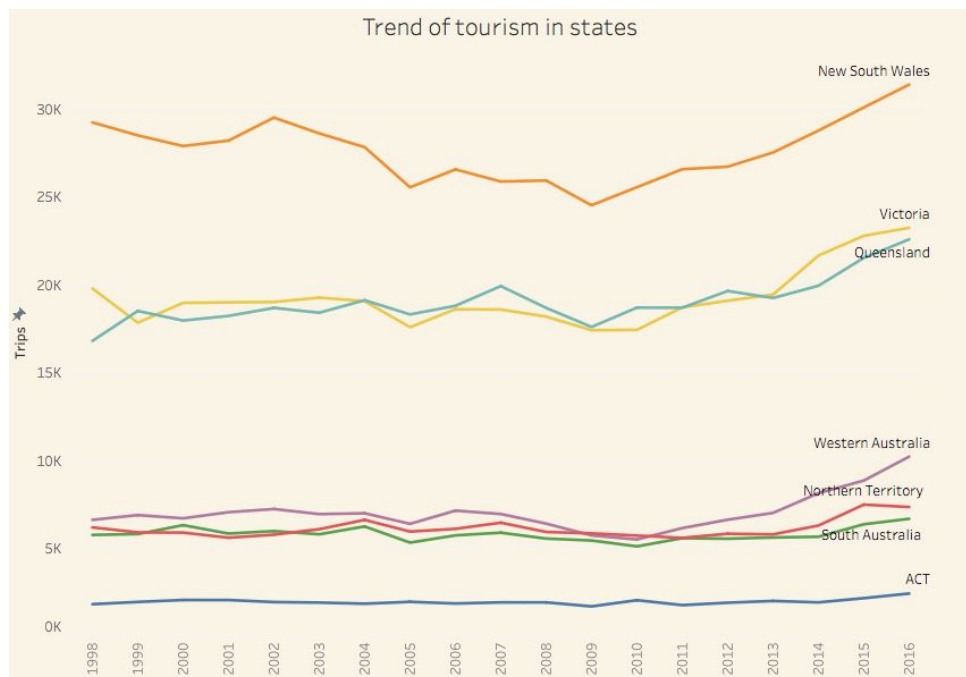
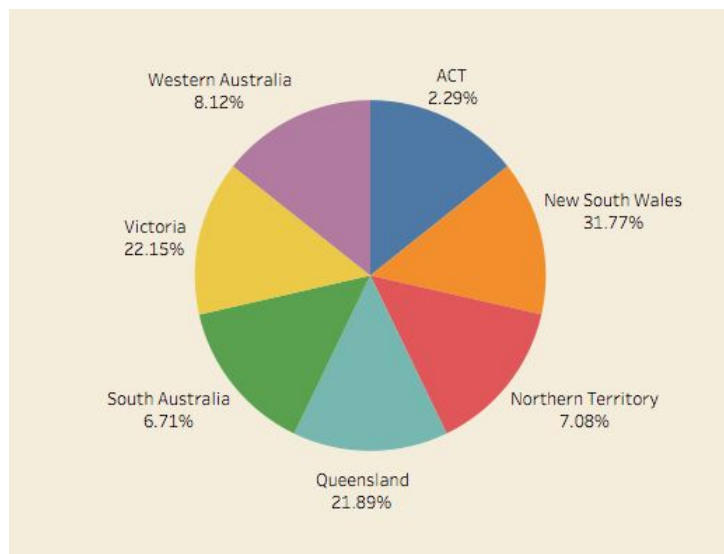
Domain and Who:

The domain is tourism in Australia from 1998 to 2016, and the number of people who travel for their purposes and the most foreign tourists is from which countries. This visualization is to let people know which continent in Australia is more popular with people, and why people come to these places for trips, so that people can know where those tourism industries should develop, such as the hotel industry and souvenir sales.

What:

The data is for the tourism in Australia in each state and the purposes of people who came for a trip between 1998 and 2016. The dataset is from Kaggle, and the author is LuisBlanche(2020), it is related to my visualization. Besides, the second data is how many foreign tourists came to Australia from five main countries between 2007 to 2017 and this dataset was published by Tourism Research Australia (TRA)(2017), it shows how many foreign tourists came to Australia. I used the first data to create a pie chart and a map to show how many tourists went to different states, it can show which states are most popular for tourists. Then I made a heat map to show what is the main purpose of peoples' trip and a line chart to show the trend of tourism in each state in about 18 years. Besides, the second line chart was made by the International visits by origin data set. It shows how many foreign tourists from these five countries to Australia for trips.

Why:



This pie chart shows the percentage of tourists arriving in each state, to show which states are popular in the tourism industry in Australia. Besides, the line chart shows the trend of tourism in different states. It can tell us something about the tourism industry in recent years. And the heat map can show the different purpose of people for the trip. These charts can let people know which place is worth investing in the Hotel and other industries which relates to tourism.

How:

The colour hue(channel) and area(mark) were used on the chart, different colors represent different states and the area depends on the percentage of tourists. The line graph was also used colour hue(channel) to show each state and used line for the mark to show the trend. The heat map was shown by colour value(channel) and mark is area to show how many peoples' trip for each purpose in different years. And it has a low data-ink ratio and

magazine style to show the visualization. Besides, the layout is from top to bottom, each graph has a literal interpretation and caption, and the graph is as straight as possible vertically and horizontally symmetrical.

Bibliography:

LuisBalnche(2020).. *Quarterly Tourism In Australia*. Kaggle.

<https://www.kaggle.com/luisblanche/quarterly-tourism-in-australia>

SA Tourism Commission(2017). *Tourism Visitor Statistics*.

<https://data.gov.au/dataset/ds-sa-00824055-585f-488e-a7df-4ea9fd678496/details?q>

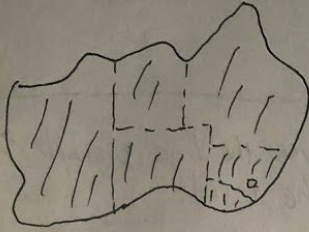
≡

Five design Sheet

IDEA

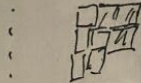
MAP

6 states tourist



Can show Purpose in Heat Map

purpose

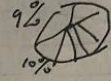


IDEA:

The tourism in Australia

1. state - how many tourists in to each state

- Map - Pie chart



2. Purpose - Purpose for trip

- Purpose & frequency

3. Country - International tourists

Filter:

Data set:

1. tourism with purpose
2. International tourists Visits by Origin

Categorize:

Map:

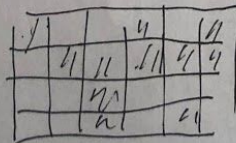
Pie chart

↑
percentage.

tourism
popular
state

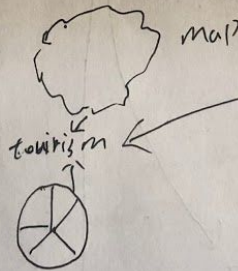
Purpose

↓
business
holiday
other
visit

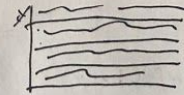


Heat Map

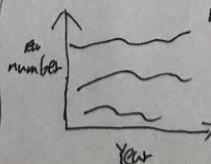
Combine & Refine



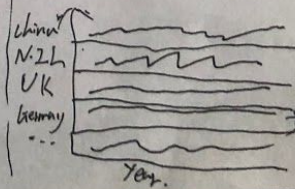
Purpose



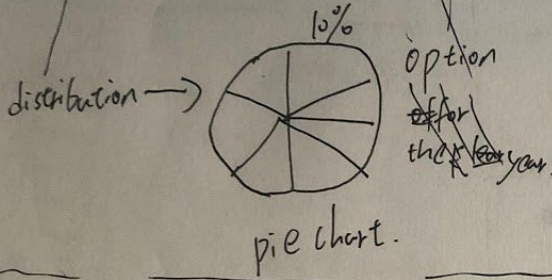
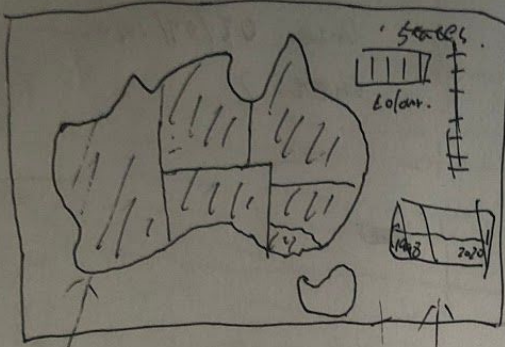
Trend of tourism



International tourist



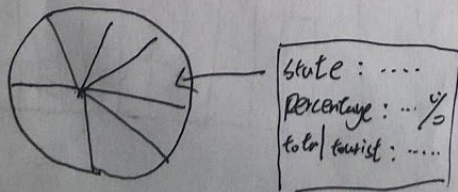
Title: Assignment 1
 Author: Yongjun Zhang
 Date: 03/09/2020
 sheet: 2



click can get ~~details~~ details of the states.



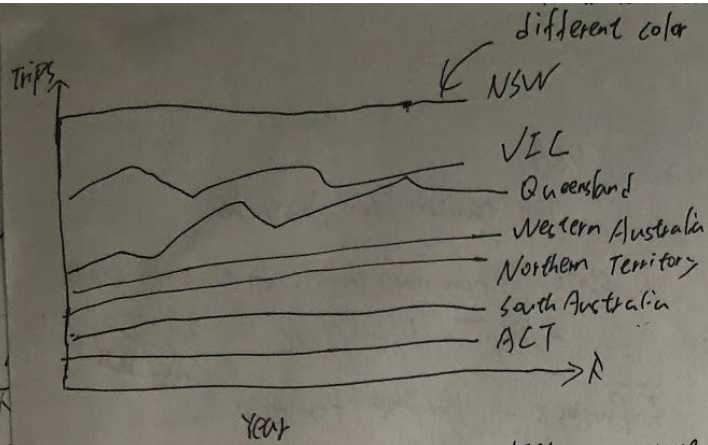
the color ~~shade~~ from light to dark
 less tourists will light.



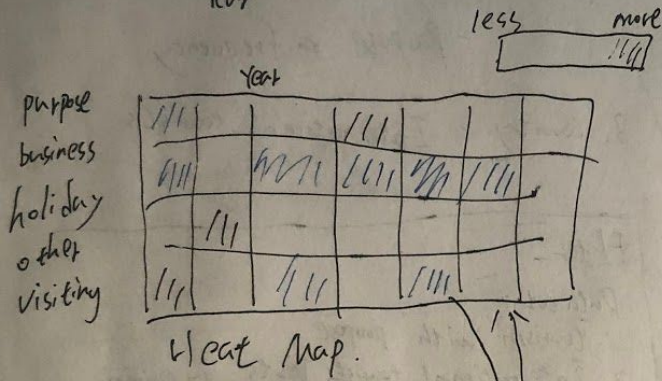
It is the initial for map
 to show the distribution of in
 each states.

* ~~the~~ + to show all
 distribution and can
 seen which are popular.

- can't see the ~~the~~ trend of
 tourism in these year.

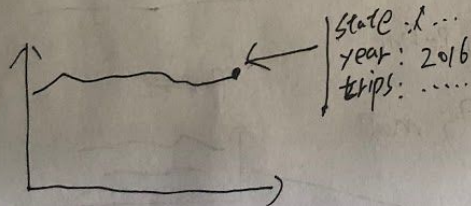


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Title: Assignment 1
Date: 25/09/2020
sheet: 3



- Use the line & graph to show the trend.
- Each line and grid in two graphs can show their information.

Layout
Focus



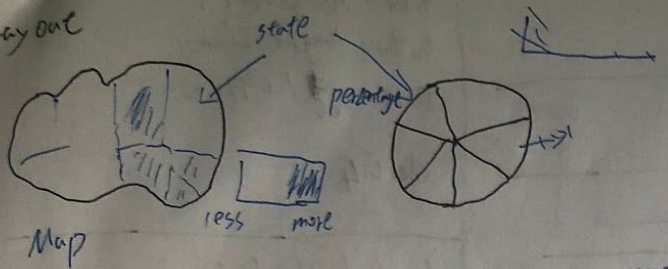
purpose: ...
trips: ...

Dataset: tourism
with purpose.

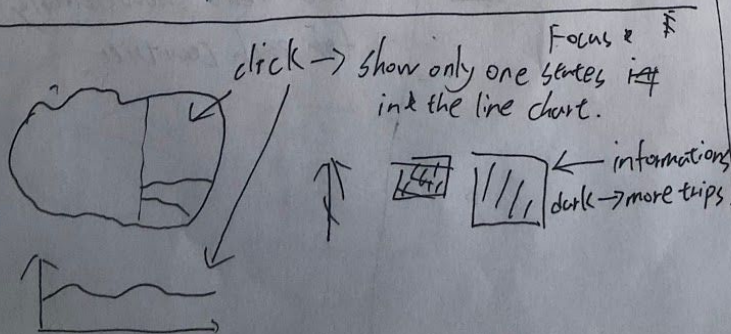
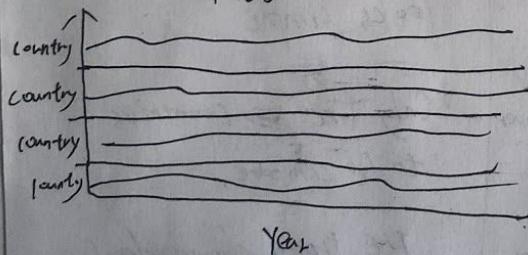
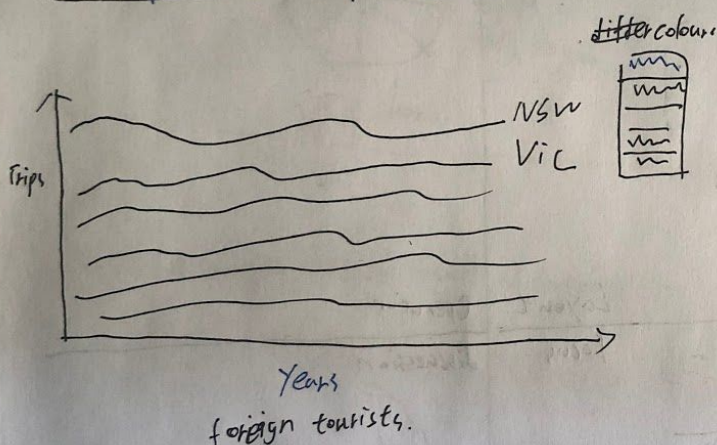
discussion

- Does the line chart clearly than bar chart to show?
- show all labels ^{behind} on the lines.

Layout



purpose	1998	Year			2016
Business	////				
			///	///	///
			///	///	///
			///	///	///



Assig. Title: Assignment 1:
Author: Yanyun Zhang
Date: 06/09/2020
sheet: 5

- Use the Map and pie chart to show the whole details
- Heat map to show the purpose information
- line chart to show the Trips on each states
- the line chart shows the five top five foreign tourist from countries where.

Operation

Discussion

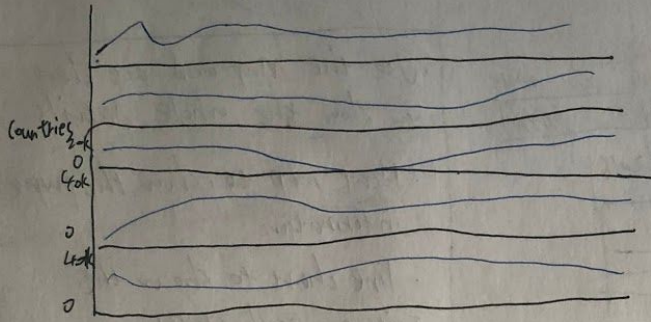
Diff. Different color for different country. area

give all labels to diff. different states on the fourth chart.

Title: Assignment 1
 Author: Yongjun Zhang
 Date: 05/09/2020

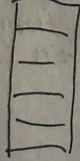
Sheet: 4

Text



dist

different colours



Year / Quarter

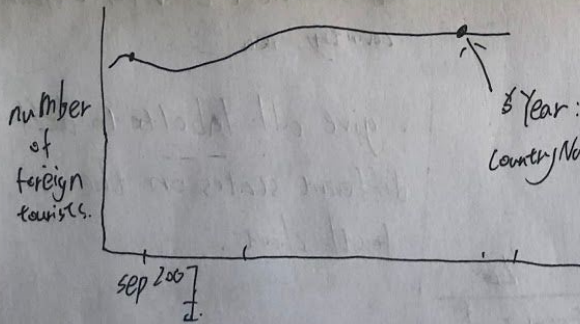
different countries
line.

the click the file
 can show the ~~point~~ of
 information of the point.

show the tourist

Layout
 Focus

Operation
 discussion



Year:
 Country Name: number.

looks simple
 Only fire ~~two~~ countries
 to be compare.
 The trend shows clearly
 for each countries.