

# Tools for Data Exploration and Visualisation

Week 1 Tutorial Activities

tableau<sup>+</sup>public



# Desired Outcomes

**At the completion of this tutorial, you should:**

- have got to know your tutors and some members of the group
- become familiar with Moodle, you should know how to find the Unit previews, workshop and tutorial resources, **Ed discussion forum** and assignment details and submission links.
- be able to install the required software
- be able to explore & visualise data using **Tableau**
- be able to explore & visualise data using **R**
- be able to explore & visualise data using **D3**

The logo for Monash Moodle, featuring the text "Monash Moodle" in white on a dark red rectangular background.

Monash Moodle

The Tableau Public logo, consisting of the word "tableau" in blue and "public" in a lighter blue, with a small orange star icon above the "u" in "public".

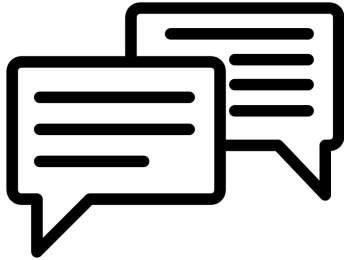
+tableau<sup>+</sup>public



# Icebreaker



# Ed Discussion Board



Make sure you enrol in Ed for this unit via the [Moodle Forums section](#).

# Tableau Public

Go to Module 1, [Chapter 5.2. Activity: Exploring & Visualising Data with Tableau Public](#)

- Load the data
- Create different charts
- Change the visual properties
- Explore maps
- Join data sets

**What do you like about Tableau and what do you not like?**

# R

Go to Module 1, [5.3. Activity: Exploring & Visualising Data using R](#)

- Not familiar with R?

Go to Torfs & Brauer's "[A \(Very\) Short Introduction to R](#)".

It's a great language for statistics and visualisation

- Load the data
- Draw the map
- Colour the map with data

**What do you like about R and what do you not like?**

**Compare R to Tableau. Which do you prefer? And why?**

# D3

Go to Module 1, [5.4. Activity: Exploring & Visualising Data with D3](#)

- Build a HTML page
- Create a SVG canvas
- Load the data (both tabular and geographic data)
- Build a Choropleth map

**What do you like about D3 and what do you not like?**

**Compare D3 to R and Tableau. Which do you prefer? And why?**

# To do:

- Complete the Module 1 Chapters 1-6 (Reading & Activities)
- If you did not attend it, look at the Workshop slides and catch up on the Workshop Activities
- Review the Reading and watch the Videos prior to Week 2
  
- **Start working on your Project Proposal assignment**  
- needed for both your Data Exploration Project (DEP) and Data Visualisation Projects (DVP)  
**[Due Monday Week 3, already released]**
  
- **Start working on the Programming Exercise 1 (PE1) – Tableau Public assignment**  
**[Due Monday Week 4, released in Week 1]**



# Thank you!

FIT5147 Teaching Team