



## Introduction to Data Analysis

Week 3 - Tutorial

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## Workshop objectives

- ✓ Introduction to grammar of graphics
- ✓ Mapping tidy data variables to graphical elements
- ✓ Using different geoms
- ✓ Working with dates
- ✓ Constructing graphics with dates

## 1 Instructions

1. Follow this link [here](#) and log in into Rstudio Cloud as explained in the workshop video in Moodle.
2. In each question you will replace '\_\_\_\_' with your answer. Knit the document once you've answered all the questions. Remember to go to `knitr::opts_chunk` at line 9, change `eval = TRUE`, then knit the document.

## 2 Exercise 1: Data Visualisation and Lubridate

1. Once you have logged in into the space, open `data-viz1.Rmd`
2. This file is split into 2 sections, A and B. Try both the sections.
  - Section A: Play with dates
  - Section B: Data visualisation
3. What trends do you observe in the 1st week of March at Melbourne Central vs Flinder's Underpass?

## 3 Exercise 2: Exploring Pedestrian Counts

1. Open `data-viz2.Rmd`.
2. Filter and tidy the data by filling the blanks.
3. Answer the questions inside, Q1-Q6.

## 4 Exercise 3: More Data Visualisation using Calendar plots

1. Continue in the same `data-viz2.Rmd`.
2. Answer the questions inside, Q1-Q4.
3. What do you learn about pedestrian counts in Melbourne Central and Birrarung Marr from this exercise?
4. What do you learn from calendar plots? Discuss!