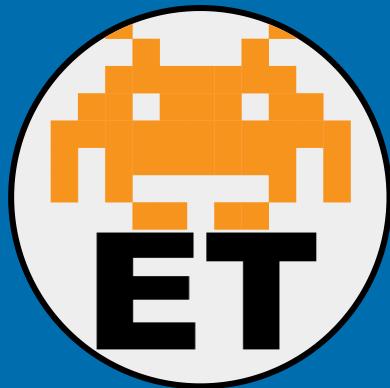


Data Visualisation with R





Emi Tanaka
Lecturer in Statistics
Monash University

🌐 <https://emitanaka.org/>
✉️ emi.tanaka@monash.edu
🐦 @statsgen

About your instructor

- I am an academic at Monash University in Australia
- I teach R at university courses as well as use it daily for research and hobby 🎮
- Lately, I've been working on automating the visualisation of experimental designs made using the `edibble` R-package.

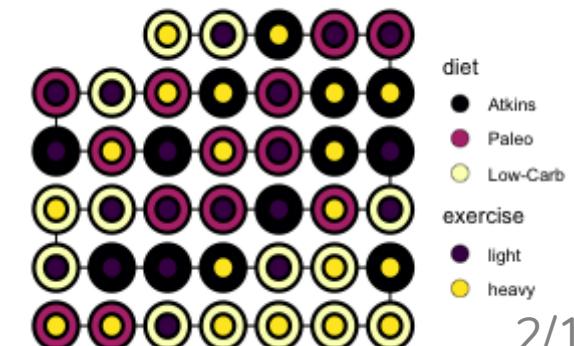
```
library(edibble)
life <- design("Lifestyle experiment") %>%
  set_units(person = 40) %>%
  set_trts(diet = c("Atkins", "Paleo", "Low-Carb"),
           exercise = c("light", "heavy")) %>%
  allot_table(diet:exercise ~ person)

life

## # Lifestyle experiment
## # An edibble: 40 x 3
##       person     diet exercise
##   <unit(40)> <trt(3)> <trt(2)>
##   1    person1  Paleo      heavy
```

```
library(deggust)
autoplot(life)
```

Lifestyle experiment





Di Cook
Professor of Business Analytics
Monash University

🌐 <https://dicook.org/>
✉️ dicook@monash.edu
🐦 @visnut

About your instructor

- In July 2015 I moved home to Australia after many years of education and work in the USA
- I have been using R since it first emerged from Auckland, NZ in 1995, and I am an elected member of the R Foundation 🎨
- I am one of four editors of the R Journal editorial team that publishes articles about R packages 📜
- My main statistical application areas are sports, ecology and bioinformatics; and I like to develop new software



Danyang Dai
*Research & Teaching
Assistant*
Monash University

🌐 <https://dai.netlify.app/>

✉️ Danyang.Dai@monash.edu

🐦 @Daidaiddai2014

About your helper

- I am a Research/Teaching Assistant at Monash. I teach Data visualisation and Statistical Thinking.
- I volunteer at R-Ladies Melbourne and presented workshops about R Markdown and Blogdown.
- I am currently developing introduction to R materials with Emi and working on CYCLED Study at the School of Public Health and Preventive Medicine.



Introduce yourself in the chat!

What's your profession?

Where do you live?

What's your hobby?

What's would you like for people to know about you?

Schedule for Part 1

Time	Activity
8.45-9.00	Registration + Installation Help
9.00-9.30	Lesson 1: Getting started with grammar of graphics
9.30-9.45	<i>Break out session</i>
9.45-10.15	Lesson 2: Multiple layers, facetting and tidying your data
10.15-10.30	<i>Break out session</i>
10.30-11.00	<i>Coffee Break</i>
11.00-11.30	Lesson 3: Scales and color
11.30-11.45	<i>Break out session</i>
11.45-12.15	Lesson 4: Publication-ready plots
12.15-12.30	<i>Break out session</i>

Schedule for Part 2

Time	Activity
9.00-9.30	Lesson 1: Check your ggplot2 knowledge
9.30-9.45	<i>Break out session</i>
9.45-10.15	Lesson 2: Making maps
10.15-10.30	<i>Break out session</i>
10.30-11.00	<i>Coffee Break</i>
11.00-11.30	Lesson 3: Getting your plots to talk back
11.30-11.45	<i>Break out session</i>
11.45-12.15	Lesson 4: Determining best plot design
12.15-12.30	<i>Break out session + Conclusion</i>

Getting Started

 <http://emitanaka.org/datavis-workshop/>



If you had any issues installing any packages or software go to:



<https://rstudio.cloud/project/1487877>

and save a permanent copy to your RStudio Cloud account for the R exercises.



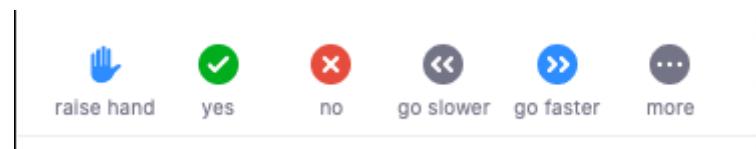
Click here to download all materials as a ZIP file.

Help me!

You can write in the chat.

You can ask (unmute yourself).

You can raise hand from zoom under Participants.



We'll come around in breakout sessions.

Session Information

```
devtools::session_info()
```

```
## - Session info 🚧 🛡️ ☀️
## hash: family: woman, girl, boy, elevator, bright button
##
## setting value
## version R version 4.1.2 (2021-11-01)
## os       macOS Big Sur 11.6.2
## system  x86_64, darwin17.0
## ui       RStudio
## language (EN)
## collate en_AU.UTF-8
## ctype   en_AU.UTF-8
## tz      Australia/Melbourne
## date   2022-02-20
```

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