

Intro to R4DS

Ben Marmont

08/03/2023

WSAFE589-23A (HAM)

R for Data Science

About me

Ben Marmont (Lecturer)

- ▶ Economist at DairyNZ
- ▶ Master of Management (Economics) from University of Waikato
- ▶ Carpentries qualified instructor (R)

About the course

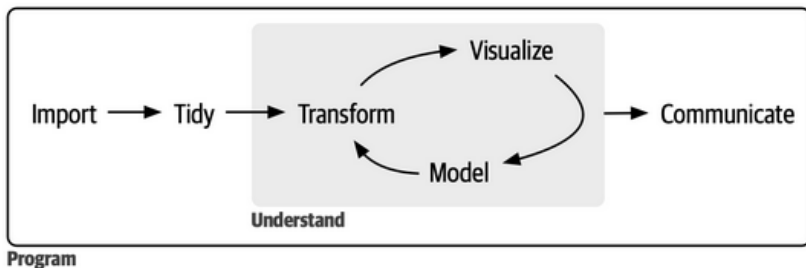
► Schedule

- All online, recordings available
- Email to make an appointment for office hours

Week	Date	Chapter	Type	Class		Date	Chapter	Type	Class		
	Wednesday (9-12)					Thursday (12-1)		Friday (9-12)			
1	1-Mar	-				2-Mar		3-Mar		Drop-in set-up help	0
2	8-Mar	1,2,3	Live-code	1		9-Mar	Drop in office hours	10-Mar	1,2,3 ctd	Live-code	2
3	15-Mar			-		16-Mar		17-Mar	4,5	Live-code	3
4	22-Mar	6,7	Live-code	4		23-Mar	Drop in office hours	24-Mar	8,9,10	Live-code	5
5	29-Mar			-		30-Mar		31-Mar	11	Live-code	6
6	5-Apr	12	Live-code	7		6-Apr	Drop in office hours	7-Apr		Good Friday	
7	12-Apr	BREAK				13-Apr		14-Apr	BREAK		
8	19-Apr	BREAK				20-Apr		21-Apr	BREAK		
9	26-Apr	13	Live-code	8		27-Apr	Drop in office hours	28-Apr	14-21	Live-code	9
10	3-May			-		4-May		5-May	14-21	Live-code	10
11	10-May	14-21	Live-code	11		11-May	Drop in office hours	12-May	22-26	Live-code	12
12	17-May			-		18-May		19-May	27	Live-code	13
13	24-May	28	Live-code	14		25-May	Drop in office hours	26-May	29	Live-code	15
14	31-May			-		1-Jun		2-Jun	30-31	Live-code	16
15	7-Jun	GitHub	Lecture	17		8-Jun	Drop in office hours	9-Jun	Extension	Lecture	18

Content

- ▶ R for Data Science Second edition (R4DS)
 - ▶ Hadley Wickham is from NZ and is now the Chief Scientist at RStudio (hopefully you recognize that name!) and author of four open access books to help people learn R all the way through to advanced extension skills.
- ▶ Data science in the tidyverse



Pedagogy

Inspired by the carpentries

- ▶ Active learning (practice) is key, this course will have minimal components where I speak to you i.e. lecture. Instead, we will utilise 'live coding'.
 - ▶ Live coding will show you my workflow, my mistakes (everyone makes them) and how I troubleshoot them!
 - ▶ When you run into difficulty utilise the chat in class, communicating with others is key to understanding
 - ▶ Spaced retrieval
 - ▶ Managed cognitive load

Assessments

These will be made available as we get closer to the time, more information on moodle.

- ▶ 1: Basic Data Analysis, due 3/4/23
- ▶ 2: Visualisation, due 17/5/23
- ▶ 3: Online Timed Assessment, 48 hours 9/6/23 - 11/6/23
- ▶ 4: Data retrieval and modelling, due 22/6/23

How to find help?

- ▶ Collaboration forum (moodle)
- ▶ The chat during lectures (on wednesday ask your peers, on Michael will be in the chat)
- ▶ Chat GPT
- ▶ Office hours (email Michael for appointment)

Resources (links imbedded):

- ▶ Moodle log in here
- ▶ Textbook
 - ▶ The first iteration of the textbook has a significantly different order of content
- ▶ Ben's GitHub repository

What about you?

- ▶ Round table:
 - ▶ Name
 - ▶ Role
 - ▶ Reason for doing this course