

1-day workshop

Introduction to Data Wrangling & Digital Project Management

Dr. Ian Hussey

Digitalisation of Psychology

Schedule

09:30 - 11:00	<ul style="list-style-type: none">- Introductions- Literate programming with R Markdown- Relative paths- Data wrangling with dplyr & tidyr
11:15 - 12:15	<ul style="list-style-type: none">- More data wrangling with dplyr & tidyr
13:15 - 14:45	<ul style="list-style-type: none">- More data wrangling with dplyr & tidyr?- Principles of digital project management- Project structure recommendations- Codebooks / data dictionaries
15:00 - 16:00/16:30	<ul style="list-style-type: none">- Introduction to GitHub

Why this workshop?
What are your wants and needs from it?



Thomas Herndon in 2013
Economics PhD student

He took a class where the professor
asked students to examine the results of influential papers



He chose **Reinhart & Rogoff (2010) Growth in a Time of Debt**

“Economic growth slows dramatically when the size of a country's debt rises above 90% of Gross Domestic Product”



Reinhart & Rogoff's paper **changed the world**

Countries based economic 'austerity' policies on it

Ireland & Greece were sacrificed to stop the spread of the debt crisis to the rest of Europe

4 million Irish people took on 190 Billion CHF in debt

Slashed our healthcare, education, infrastructure,
- These still have not recovered

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George Osborne plunged UK into austerity due to an ‘error on a spreadsheet’

An academic paper produced by two Harvard economists and relied upon by Cameron and Osborne contained serious miscalculations, it has been claimed.



by **Jack Peat** — 2022-09-22 15:30 in Lifestyle



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More from TLE

- ▶ Watchdog calls for ticket office closures to be delayed over machine upgrades.
- ▶ Richard Curtis uses Al Pacino’s Any Given Sunday speech to inspire global action on climate change
- ▶ James Cleverly holidayed with well-connected Tory lobbyist in Gibraltar
- ▶ Elelenses: Has the Left Abandoned the Working Class?
- ▶ UK recession fears grow as economy contracts
- ▶ Labour calls on Sunak to block Liz Truss’s soon-to-be-published honours list
- ▶ Mick Lynch suggests RMT union will not comply with new anti-strike legislation
- ▶ Russell Brand receives standing ovation at Wembley show following sexual assault

George Osborne plunged the UK into austerity “all for nothing” due to an error on an Excel spreadsheet, according to a podcaster.

Hosts James Harkin, Andrew Hunter Murray, Anna Ptaszynski, and Dan Schreiber – from the No Such Thing As A Fish podcast – claim the UK reacted to incorrect data in an academic paper on economic growth and inflation.

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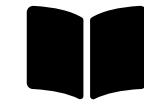
 Whatsapp

◇	B	C	I	J	K	L	M
2			Real GDP growth				
3			Debt/GDP				
4	Country	Coverage	30 or less	30 to 60	60 to 90	90 or above	30 or less
26			3.7	3.0	3.5	1.7	5.5
27	Minimum		1.6	0.3	1.3	-1.8	0.8
28	Maximum		5.4	4.9	10.2	3.6	13.3
29							
30	US	1946-2009	n.a.	3.4	3.3	-2.0	n.a.
31	UK	1946-2009	n.a.	2.4	2.5	2.4	n.a.
32	Sweden	1946-2009	3.6	2.9	2.7	n.a.	6.3
33	Spain	1946-2009	1.5	3.4	4.2	n.a.	9.9
34	Portugal	1952-2009	4.8	2.5	0.3	n.a.	7.9
35	New Zealand	1948-2009	2.5	2.9	3.9	-7.9	2.6
36	Netherlands	1956-2009	4.1	2.7	1.1	n.a.	6.4
37	Norway	1947-2009	3.4	5.1	n.a.	n.a.	5.4
38	Japan	1946-2009	7.0	4.0	1.0	0.7	7.0
39	Italy	1951-2009	5.4	2.1	1.8	1.0	5.6
40	Ireland	1948-2009	4.4	4.5	4.0	2.4	2.9
41	Greece	1970-2009	4.0	0.3	2.7	2.9	13.3
42	Germany	1946-2009	3.9	0.9	n.a.	n.a.	3.2
43	France	1949-2009	4.9	2.7	3.0	n.a.	5.2
44	Finland	1946-2009	3.8	2.4	5.5	n.a.	7.0
45	Denmark	1950-2009	3.5	1.7	2.4	n.a.	5.6
46	Canada	1951-2009	1.9	3.6	4.1	n.a.	2.2
47	Belgium	1947-2009	n.a.	4.2	3.1	2.6	n.a.
48	Austria	1948-2009	5.2	3.3	-3.8	n.a.	5.7
49	Australia	1951-2009	3.2	4.9	4.0	n.a.	5.9
50							
51			4.1	2.8	2.8	=AVERAGE(L30:L44)	



Course content

What you will know by the end



Literate programming

RMarkdown



Wrangling

dplyr / tidyr



Project management

Version control (GitHub)

Data standards (psychDS, BIDS)

After the course

This workshop is just to get you started

There is no substitute for practice on your own time

Lots of it - 100s of hours

See the `resources` folder for books, videos, and interactive learning resources

Complete `data_wrangling_functions.Rmd` in your own time



Improve reproducibility:

In RStudio,

- Tools > Global Options > “Save workspace to .RData on exit”: Never
- Tools > Global Options > “Restore .Rdata into workspace at startup”: Untick