Your Handy dandy guide

Generalisable Replicable Different Reproducible Robust Same Different **abo**2

WHAT IS GENERALISABLE RESEARCH? AND WHY DO WE NEED IT?

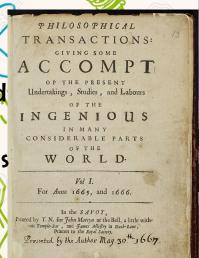


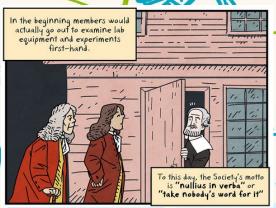




The way academia works at the moment is that scientists do lots and lots of work and then publish their work in journals to share their findings with others.

Originally they were visited in person by other researchers...





But nowadays its very difficult to know exactly what people did! It isn't standard to share data or detailed instructions!

Publication +

Publication only

Code

Coand



Not reproducible



the same answer even when you

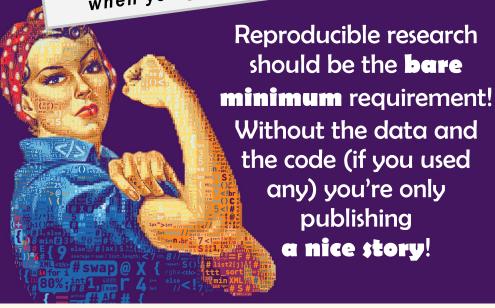
use different analysis techniques

(on the same data set)



Research is REPRODUCIBLE if independent scientists can get exactly the same results

when you give them your data



de data

Linked and executable code and data

Full replication

Gold standard

The idea that failed replications have the potential to cause great damage to the original authors' reputations, and so we should have a very high bar for publishing them—



That seems problematic to me.

JARGON BUSTIN'

Research is REPLICABLE if other scientists

(or you!) conclude the same message

when the follow your exact analysis

but using an independent data set

It's ok if we don't replicate everything! It doesn't mean anyone is lying.

But it is important to know if the finding only works for the original data.

Otherwise we can't begin to **generalise** the finding.