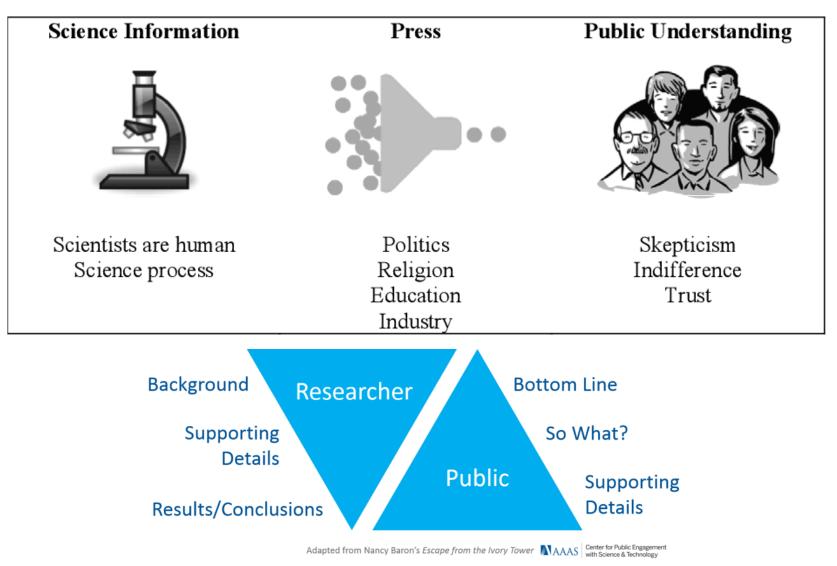


Open Science

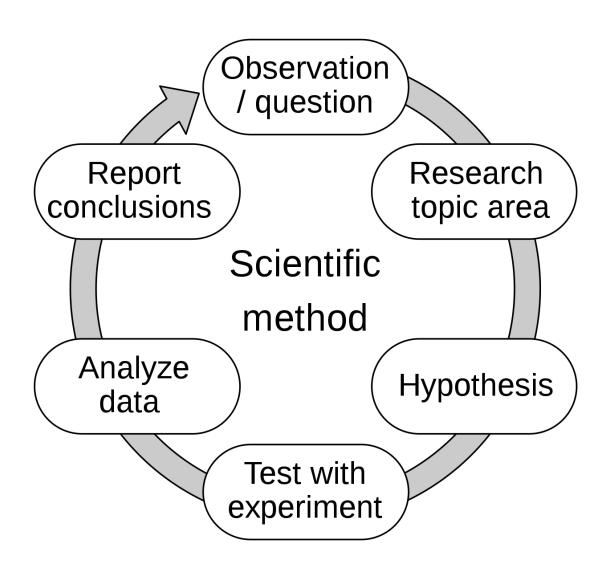
Tim Errington Senior Director of Research, Center for Open Science <u>https://cos.io</u>

These slides: <u>https://osf.io/5pk7r/</u>

Public understanding of science



Scientific method

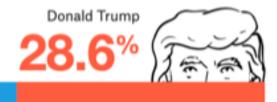


Conveying uncertainty

Who will win the presidency?

Chance of winning





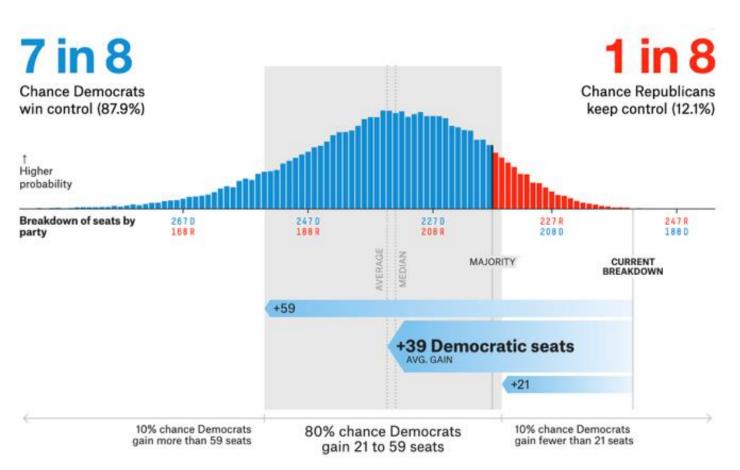
fivethirtyeight, 2016

Conveying uncertainty

Forecasting the race for the House

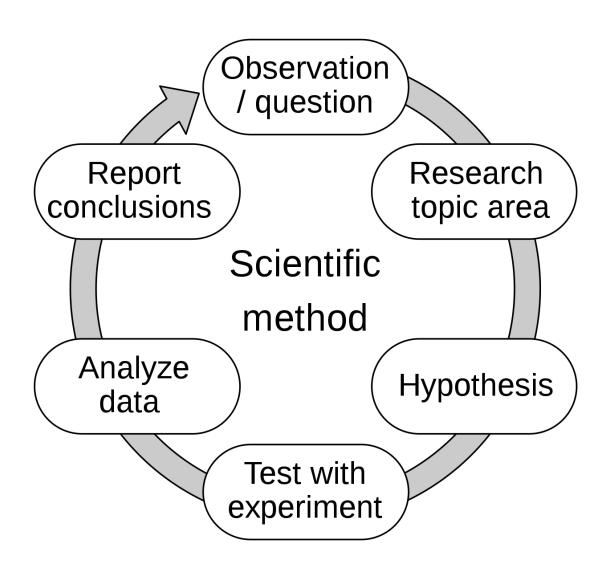
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Updated Nov. 6, 2018, at 11:06 AM

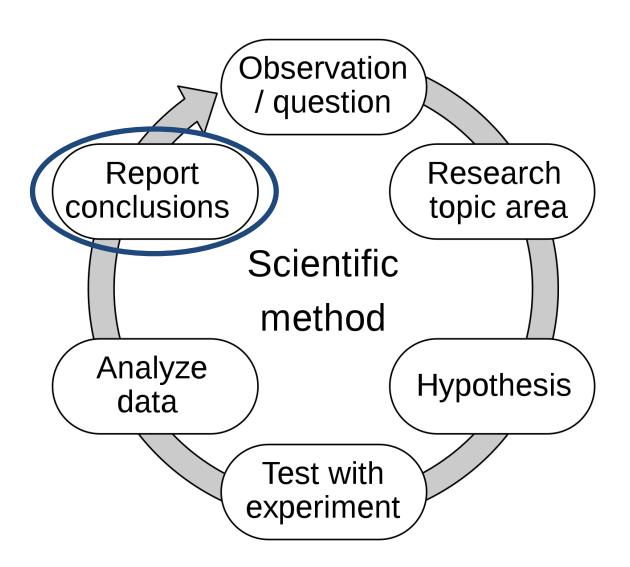


fivethirtyeight, 2018

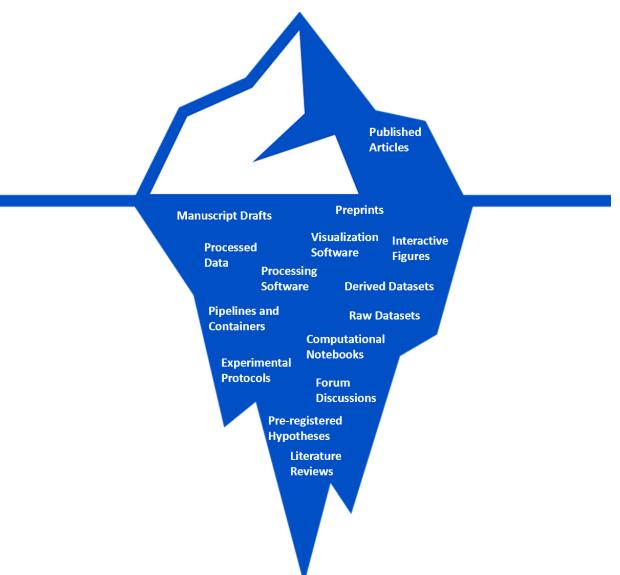
Scientific method



Scientific method



More than just papers



What is open science? Practices

Open Outcomes

Open access, Preprints, Reporting all results

Open Content

Data, Materials, Code, Software

Open Process

Preregistration, Peer review, Collaboration

Why open science? Principles

Transparency

Sharing

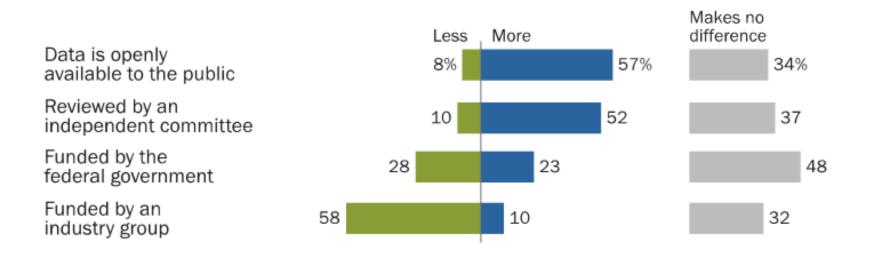
Rigor

Inclusion

What the public trusts

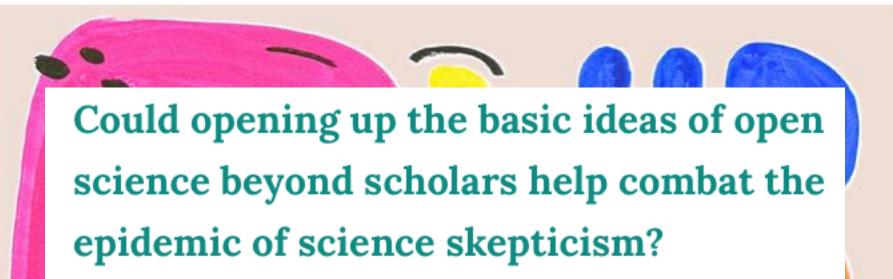
Majority of Americans say they are more apt to trust research when the data is openly available

% of U.S. adults who say when they hear each of the following, they trust scientific research findings ...



Opening up Science-to Skeptics

By Rohan R. Arcot and Hunter Gehlbach April 12, 2022



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Thanks!

You can find me at: <u>tim@cos.io</u>

These slides: <u>https://osf.io/5pk7r/</u>

The Kindergartener's Guide

1) Show your work

2) Share

What gets published?

More Likely

Positive results

Less Likely

Negative results

Novel results

Replication results

Tidy results

Messy results