Data

Data, the *crude oil* of the 21st century (?)

This time we should be more responsible ...

via GIPHY          via GIPHY
Data Literacy
Data Literacy Framework

Figure 3: Competence fields and essential competences of the Data Literacy Framework in the process of value creation from data

Schüller (2020)
A Quote

Utts (2021):

One of the most common mistakes made in the media is to attribute cause and effect relationships when they are not warranted.

Do you agree?
Multivariable observational data
Causality and Directed Acyclic Graphs in Class
Directed acyclic graph (surgery)

- Graphs provide a language to discuss the data generating process.
- Random sampling removes arrows into (S).
- Random allocation (RCT) removes arrows into (X).

Source
If you just woken up

Causality for Data Literacy

Causality and directed acyclic graphs may help to develop a framework to think about the data generating process (in a world full of multivariable observational data).
Rebut the "But, ..."

the correctness of the (causal) conclusions is based on the correctness of the graph.

Is (unconscious?) wishful thinking really better?

via GIPHY, inspiration @rlmcelreath
Further reading and contact


- learnR Tutorial: https://fomshinyapps.shinyapps.io/CausalInference/

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