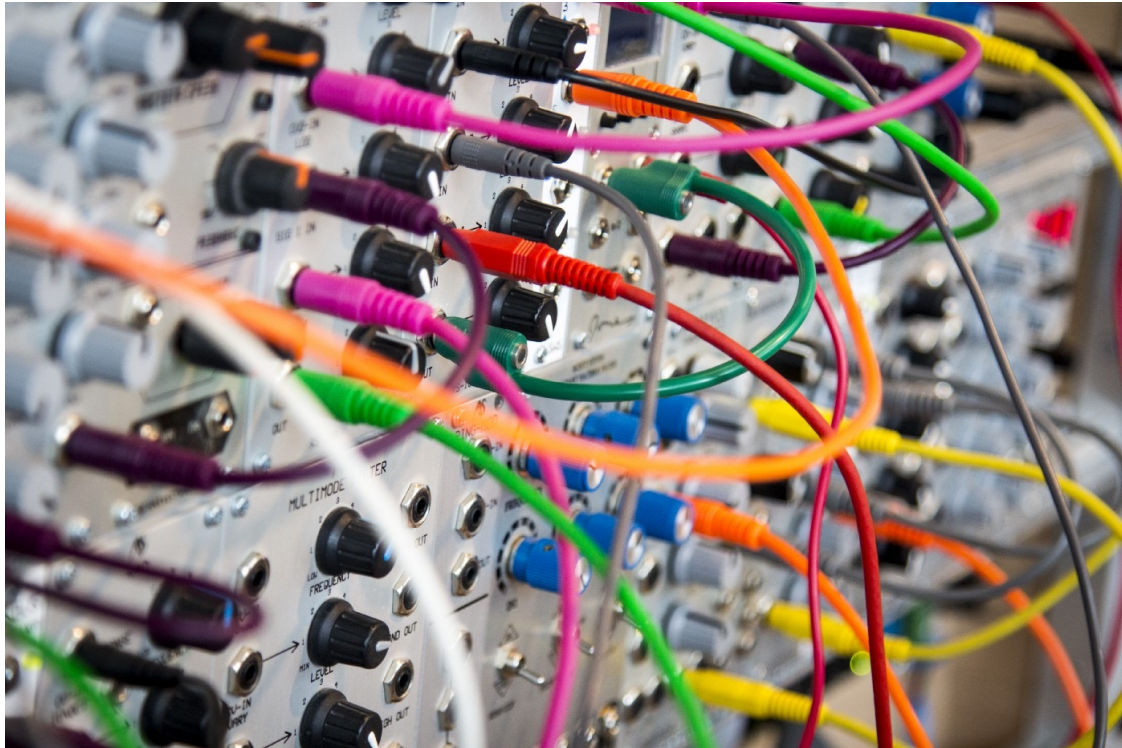


How's my data?

# Online Studies

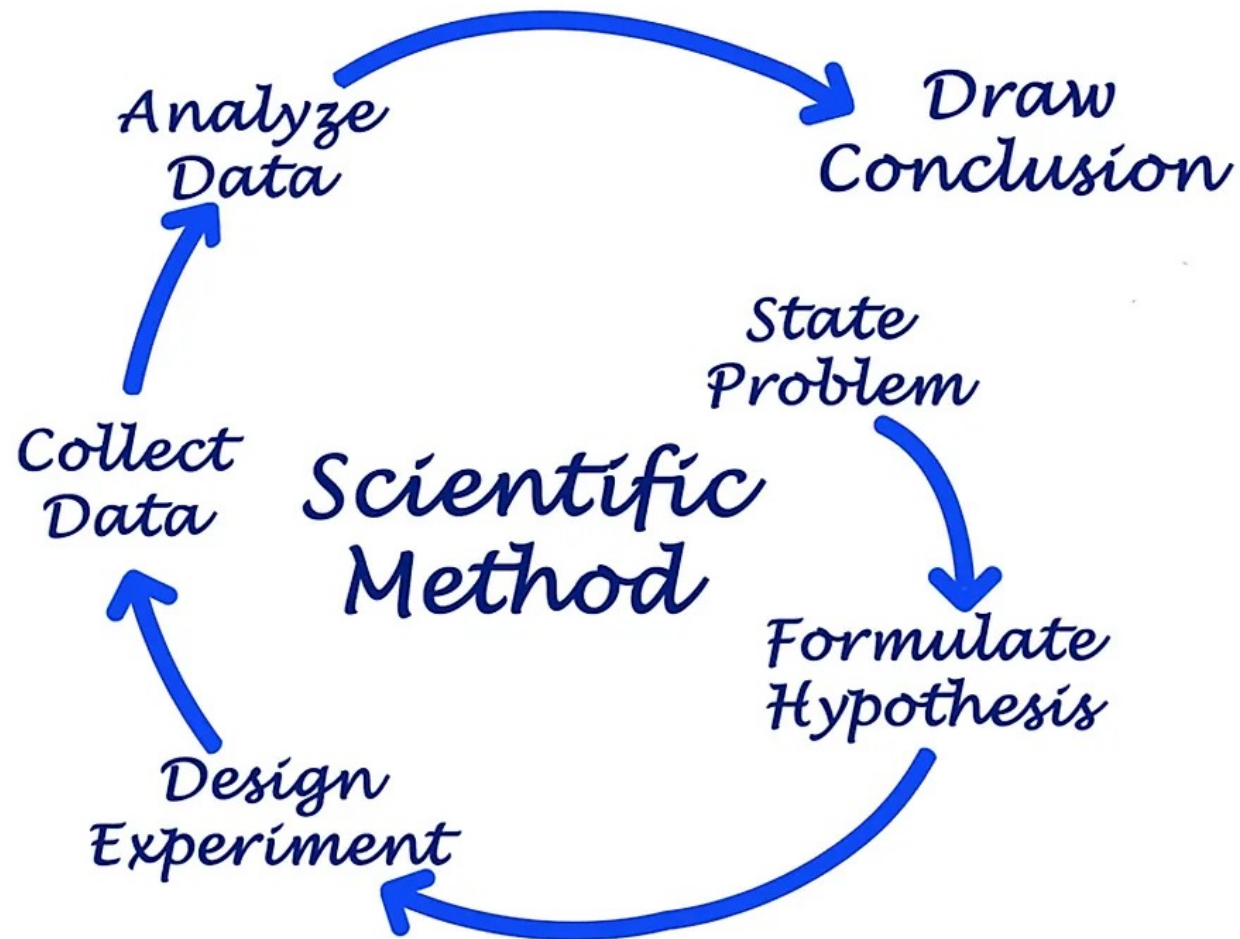


# 1. Data collection

In the lab, online

# 2. Web scraping

Breakout session



Science as an ongoing process

## In the lab

- E-Prime
- Presentation
- PsychToolbox (MATLAB)
- PsychoPy (Python)

# PsychoPy

```
from psychopy import visual, core
win = visual.Window([400,400])
message = visual.TextStim(win, text='hello')
message.autoDraw = True # Automatically draw every frame
win.flip()
core.wait(2.0)
message.text = 'world' # Change properties of existing stim
win.flip()
core.wait(2.0)
```

Drawing to a window

# PsychoPy

```
clock = psychopy.core.Clock()

n_trials = 2
pre_duration_s = 0.5
stim_duration_s = 0.5
min_iti = 2.0

for trial in range(n_trials):

    clock.reset()

    # wait until the 'pre' time has passed
    while clock.getTime() < pre_duration_s:
        win.flip()

    while clock.getTime() < pre_duration_s + stim_duration_s:
        grating.draw()
        win.flip()

    # clear the window
    win.flip()

    keys = psychopy.event.waitKeys()

    while clock.getTime() < min_iti:
        win.flip()

win.close()
```

## Looping over trials

## Online

- Qualtrics, Gorilla, Prolific, Mturk, Inquisit Web
- Advantages
  - Faster data collection, larger samples, reduction in costs
  - More diverse and therefore representative of the greater population than a typical “WEIRD” sample of university students
- Disadvantages
  - Lack of control over experimental setting
  - Random responses, multiple submissions, select-selection, dropout



# 1. Data collection

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## Components of a web page

- HTML – main content of the page
- CSS – style sheets
- JS – Javascript files for interactivity
- Images – JPG, PNG, etc.

- Lab6\_WebScraping.ipynb

- Data collection is about performing reliable and valid measurements that minimize bias or error

- *Start Data Collection*
- *Presentations on Wednesday*