

# **Effective Programming Practices for Economists**

## **Plotting**

**Why plotly? And some prerequisites.**

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# Python plotting landscape

Static plots:

- matplotlib
- seaborn

Interactive plots:

- vega-altair
- bokeh
- plotly

# Why we use plotly

- Interactive plots work out of the box
- Supports all relevant output formats:
  - Interactive dashboards
  - HTML
  - static image formats
- Also available in R and Julia

# Supporting static and interactive plots

- Interactive plots typically based on JavaScript
- Rely on browser functionality for static exports
- Kaleido tries to get rid of that (background)
- Unfortunately, development stopped in a state that is broken on Windows

# Windows workaround

- Comment by former plotly employee:

We do have this unfortunate situation where some (mostly Windows?) users have hanging calls which no one has gotten to the bottom of just yet, though. I don't know that anyone is actively working on that issue, given the complexity of building the project, but it seems to impact only a small minority of users.

- Feel free to add your experience to this issue
- Install an old version of kaleido via pip:

```
$ conda activate [your_env]  
$ pip install kaleido==0.1.0.post1
```