as clear as mud

on "good" code, visualizations, and slides

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blueprint lunch+learn v1.1 (latest here)

Has this ever happened to you?

- You open up a code file from a project from 4 years ago. It is complete gibberish. Might as well been written in hieroglyphics.
- You're sitting in a presentation. You zone out a little bit, and look back up and have no idea what's happening. You're lost for the next 45 minutes.
- There's a missing parenthesis in your code somewhere. But just where...
- Your PI wants to see results with a different sample. Time to open up 20 different files and change the sample restrictions.
- You see a table or graph and have no idea what it's trying to say.

goal: provide you with tools

in coding and presentations

to think about clear communication

Why should you care?

- Working with others (including past and future you) is best when you have a shared understanding
- Transparency, reproducibility, and trust all go hand-in-hand in this profession
- Communicate to others what your work really is about
- Making sure your analysis is correct
- · Above all: keeps the focus on the big-picture questions

guiding philosophy:

you want people to understand.

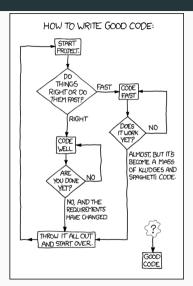
design with that in mind.

Some caveats before we begin...

- Like in most things, there are many possible "right" answers; but getting there
 means you need to recognize the wrong and why it's wrong¹
- There's no way this could be comprehensive; while there will be specific tips, I could certainly talk about this for much longer
- Your audience matters; the exact implementation of design will differ massively between presentations to PIs and presentations to practitioners
- Using my own work / work of some peers; the goal is not to poke at mistakes, but to show how minor changes can make large improvements

¹I'm also not trying to reinvent the wheel. At the end of the presentation, I link to dozens of guides on various topics.

There's always a relevant XKCD (or two)





A PHOTO OF A SCRABBLE BOARD FROM A GAME UHERE JAVASCRIPT RESERVED WORDS COUNTED FOR TRIPLE POINTS.





IT'S LIKE AN EE CUMMINGS



We can take notes from people who just program for a living

The framework of 6.102 (prev. 6.031) Software Construction: create code that is

safe from bugs easy to understand ready for change

correctness (in the present) and defensiveness (in the future) what gets communicated to future programmers unfortunately, this probably won't be the last time you touch this code

Everybody starts somewhere; my first project was not good

```
| use "D:\filepath\district main pol3.dta" // load the file
2 eststo clear // clear previous regressions
3 // make summary statistics for overall
4 eststo: estpost summarize mn all math mn all ela num charter schools ///
5 totenrl100 sesall urban suburb town rural perwht perblk perhsp ///
6 perasn perind, detail
7 // make summary statistics for noncharter
8 eststo: estpost summarize mn all math mn all ela num charter schools ///
9 totenrl100 sesall urban suburb town rural perwht perblk perhsp ///
10 perasn perind if num charter == 0, detail
11 // make summary statistics for charter
12 eststo: estpost summarize mn_all_math mn_all_ela_num_charter schools ///
13 totenr1100 sesall urban suburb town rural perwht perblk perhsp ///
14 perasn perind if num charter > 0, detail
```

How I'd write the exact same code today

```
1 // Generate summary statistics (Table 1)
2 use "${cleandata}/district policy merged all.dta"
4 assert num charter >= 0
5 gen has charter = num charter > 0
7 local covariates mn_all_math mn_all_ela
                   num charter schools totenrl100 sesall
                   urban suburb town rural
                   perwht perblk perhsp perasn perind
12 eststo clear
13 eststo: estpost summarize 'covariates'
                                                         . detail
14 eststo: estpost summarize 'covariates' if has_charter, detail
15 eststo: estpost summarize 'covariates' if !has_charter, detail
```

DRY: Don't repeat yourself

- For variables, constants: ensures that there is a single, unambiguous "source of truth" for information (i.e., no "magic numbers")
- For repeated tasks, create a function or a loop

safe from bugs hard to notice if one variable missing in a different regressio	n,
--	----

or one iteration is different

easy to understand fewer words in the coding file, and with appropriate names,

you understand semantically what is happening

ready for change easily change specifications, methods, without copy-paste

Much repeated code in the original version

```
| use "D:\filepath\district main pol3.dta" // load the file
2 eststo clear // clear previous regressions
3 // make summary statistics for overall
4 eststo: estpost summarize mn all math mn all ela num charter schools ///
totenrl100 sesall urban suburb town rural perwht perblk perhsp ///
6 perasn perind, detail
7 // make summary statistics for noncharter
8 eststo: estpost summarize mn all math mn all ela num charter schools ///
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```

Revision defines variables to analyze, and refers to that as "truth"

```
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4 assert num charter >= 0
5 gen has charter = num charter > 0
  local covariates mn_all_math mn_all_ela
                   num charter schools totenrl100 sesall
                   urban suburb town rural
                                                             111
9
                   perwht perblk perhsp perasn perind
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13 eststo: estpost summarize 'covariates'
                                                         . detail
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15 eststo: estpost summarize 'covariates' if !has_charter, detail
```

But don't go overboard forcing things into a loop

This loop makes the code less readable

```
local cond1 if has_charter >= 0
local cond2 if has_charter
local cond3 if !has_charter

local conds cond1 cond2 cond3

foreach cond of local conds {
    eststo: estpost summarize 'covariates' if ''cond'', detail
}
```

Global filepaths help with collaboration, change

```
1 // Generate summary statistics (Table 1)
use "${cleandata}/district policy merged all.dta"
4 assert num charter >= 0
5 gen has charter = num charter > 0
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                   num charter schools totenrl100 sesall
                   urban suburb town rural
                   perwht perblk perhsp perasn perind
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15 eststo: estpost summarize 'covariates' if !has_charter, detail
```

Use well-placed assertions to help you "fail fast"

Useful Assertion

```
// Generate summary statistics (Table 1)
use "${cleandata}/district_policy_merged_all.dta"

assert num_charter >= 0
gen has_charter = num_charter > 0
```

Unneeded assertion

```
// Generate summary statistics (Table 1)
use "${cleandata}/district_policy_merged_all.dta"

assert num_charter >= 0
gen    has_charter = num_charter > 0
assert has_charter == 0 | has_charter == 1
```

Use meaningful variable names, labels, to give code semantic meaning

- My original code used charter instead of num_charter, a much less helpful name
- Compare tmp = 86400 and secondsPerDay = 86400
- Use your language's norms of camelCase, CapitalCase, lowercase_underscores, UPPERCASE_WITH_UNDERSCORES (often globals²)

²Also-don't make something a global when it doesn't need to be!

Use whitespace to help the reader

Bad whitespace leads to gibberish (even if code's correct)

```
local covariates mn_all_math mn_all_ela num_charter schools ///
totenrl100 sesall urban suburb town rural perwht perblk perhsp ///
perasn perind
```

Vertical alignment improves comprehension

```
local covariates mn_all_math mn_all_ela ///
num_charter schools totenrl100 sesall ///
urban suburb town rural ///
perwht perblk perhsp perasn perind
```

Related: limit lines to 80 characters!

Comments are great, but you shouldn't rely on them to convey meaning

```
| use "D:\filepath\district main pol3.dta" // load the file
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```

The best code is self-commenting

```
1 // Generate summary statistics (Table 1)
2 use "${cleandata}/district policy merged all.dta"
4 assert num charter >= 0
5 gen has charter = num charter > 0
7 local covariates mn_all_math mn_all_ela
                   num charter schools totenrl100 sesall
                   urban suburb town rural
                   perwht perblk perhsp perasn perind
12 eststo clear
eststo: estpost summarize 'covariates'
                                                         . detail
14 eststo: estpost summarize 'covariates' if has_charter, detail
15 eststo: estpost summarize 'covariates' if !has_charter, detail
```

Tips for self-commenting code

- Use larger comments at the beginning of files, sections, functions, to describe their purpose (and if relevant, inputs and outputs)
- Semantic names for variables, commands, and whitespace can make your code read like English
- Each file should broadly be serving one purpose (which is why in Blueprint, we divide things between clean, build, and analysis)

It can be hard to do this all of the time

- Oftentimes, especially when coding fast or creating a proof-of-concept, your code will not be very clean on the first run
- The goal is not to be perfect all of the time; the goal is to start with principles in mind, and change things as you go along
- Refactoring code is extraordinarily helpful, especially for long-term projects
- For the smaller things, using a *linter* can help make sure your code follows a standard style³

³To be quite honest, for every language, there's a million different guides on how the three principles should be applied. What's most important is that you keep these principles in mind and be consistent within your work.

Other tiny coding tips

- Always use forward slashes (/) in filepaths, not backslashes (\); backslashes work only on Windows and are escape characters in many languages
- Use version control (e.g., Git) to track changes and collaborate with others
- For replicability, manage the versions of packages, libraries used in your code

safe from bugs.

easy to understand.

ready for change.

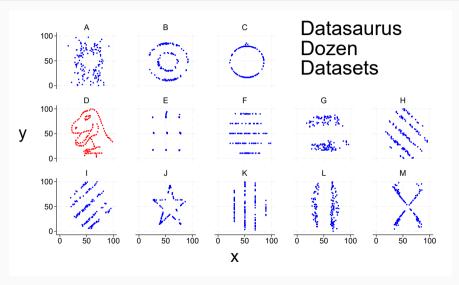
Visual representations are a blessing and a curse

- In a presentation, most results will be framed as a graphic or a table
- Default settings are a one-size-fits-all solution, but won't be perfect for most use cases
- How to think about making these as interpretable as possible?

There are definitely bad ways to present data

Dataset	$\mathbb{E}[X]$	SD[X]	$\mathbb{E}[Y]$	SD[Y]	Regression	r^2	Ν
А	54.27	16.77	47.83	26.94	y = -0.10x + 53.43	0.004	142
В	54.27	16.77	47.83	26.94	y = -0.11x + 53.81	0.005	142
С	54.27	16.76	47.84	26.93	y = -0.11x + 53.80	0.005	142
D	54.26	16.77	47.83	26.94	y = -0.10x + 53.45	0.004	142
Е	54.26	16.77	47.84	26.93	y = -0.10x + 53.10	0.004	142
F	54.26	16.77	47.83	26.94	y = -0.10x + 53.21	0.004	142
G	54.27	16.77	47.84	26.94	y = -0.11x + 53.81	0.005	142
Н	54.27	16.77	47.84	26.94	y = -0.11x + 53.85	0.005	142
I	54.27	16.77	47.83	26.94	y = -0.11x + 53.81	0.005	142
J	54.27	16.77	47.84	26.93	y = -0.10x + 53.33	0.004	142
K	54.27	16.77	47.84	26.94	y = -0.11x + 53.89	0.005	142
L	54.27	16.77	47.83	26.94	y = -0.11x + 53.63	0.004	142
Μ	54.26	16.77	47.84	26.93	y = -0.11x + 53.55	0.004	142

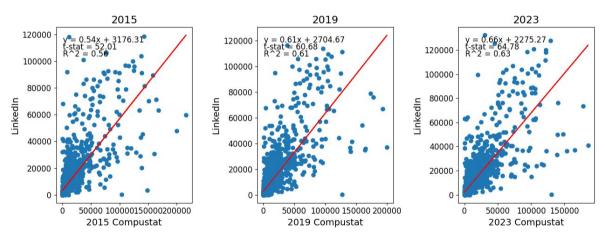
And there are ways that are far more memorable



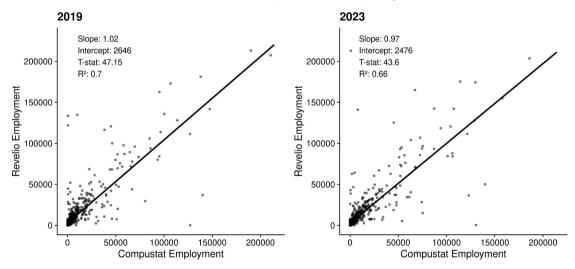
Five principles of good graphs, from Schwabish (2021)

- 1. Show the data
- 2. Reduce the clutter
- 3. Integrate the graphics and text
- 4. Avoid the spaghetti chart
- 5. Start with gray

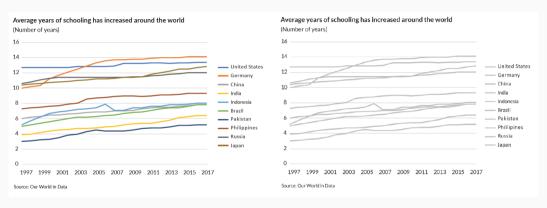
Revelio correlates with Compustat employment



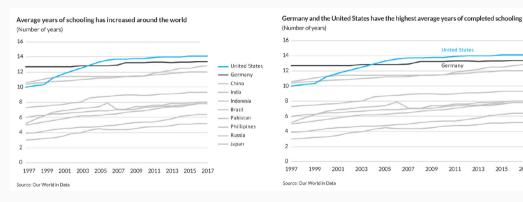
Validation: Revelio vs. Compustat employment



When graphs are too busy, you lose the story



Purposeful colors, in-graph labels, and informative titles create clarity



Source: Schwabish (2021)

United States

Germany

2017

Regression results can be shown in many different ways (bad table)

	Model 1	Model 2	Model 3
r_age	0.0509***	0.0119***	0.0207***
	(0.0062)	(0.0044)	(0.0026)
gndr	0.0442***	0.0616***	0.0630***
	(0.0057)	(0.0037)	(0.0043)
_educ	0.0027***	0.0052***	0.0157***
	(0.0087)	(0.0050)	(0.0072)
hrswkd	0.0397***	0.0075***	0.0211***
	(0.0053)	(0.0025)	(0.0029)
expr	0.0003***	0.0043***	0.0030***
	(0.0051)	(0.0026)	(0.0024)
marstat	0.0191***	0.0066***	0.0069***
	(0.0053)	(0.0025)	(0.0027)

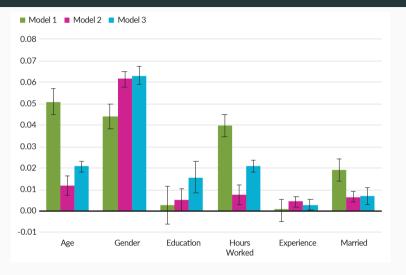
^{*} p < 0.05. ** p < 0.01. *** p < 0.001

Regression results can be shown in many different ways (better table)

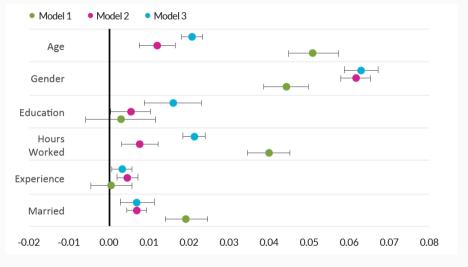
	Model 1	Model 2	Model 3
Age	0.0509***	0.0119***	0.0207***
	(0.0062)	(0.0044)	(0.0026)
Gender	0.0442***	0.0616***	-0.0630***
	(0.0057)	(0.0037)	(0.0043)
Education	0.0027	0.0052	0.0157**
	(0.0087)	(0.0050)	(0.0072)
Hours Worked	0.0397***	0.0075*	0.0211***
	(0.0053)	(0.0044)	(0.0029)
Experience	0.0003	0.0043*	0.0030
	(0.0051)	(0.0026)	(0.0024)
Married	0.0191***	0.0066***	0.0069*
	(0.0053)	(0.0025)	(0.0041)

^{*} p < 0.05, ** p < 0.01, *** p < 0.00

Regression results can be shown in many different ways (bar chart)



Regression results can be shown in many different ways (dot chart)



Good ideas aren't useful if they can't be communicated well

- After putting hundreds of hours into a project, the last thing you want is for your ideas to be misunderstood
- Slides often created as an afterthought after analysis or writing (how many times have you seen a presentation with a table copy-pasted from the paper?)
- What story do you want to tell? Is that story easy to find?

The High Cost of Managing Data

These regulations increase the firms' cost of data and distort the input choices

- Generates a wedge between the marginal product of data and its price
- Leads to misallocation if the compliance cost varies across firms (Hsieh and Klenow, 2009)
- How privacy laws distort firms input choices, except for digital goods, is not well understood
- Requires a framework to analyze how firms use and process data

This paper:

- 1. How do firms combine data and computation in production?
- 2. What is the cost of GDPR for firms and how do they change their data/computation inputs?

Attention is precious; be judicious in where you ask for it

Design for the person who zoned out of your presentation and wants to tune back in

- The more you emphasize on a slide, the less useful it is
- Use a consistent emphasis style
- Slide titles should be sentences that summarize the slide (and so each slide should make one point)
- At most, use two levels of bullets (and many times, they're optional)





These regulations increase firms' cost of data and distort input choices

- Privacy laws like GDPR generate a wedge between marginal product of data and its price
- Leads to misallocation if compliance cost varies across firms (Hsieh and Klenow, 2009)
- Distortion not well understood; requires framework of how firms use and process data

This paper:

- 1. How do firms combine data and computation in production?
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- 3. How do firms change their data/computation inputs?

Another framing: slides should guide viewers to the desired conclusion

- Easy to get lost in tables, graphs, dense paragraphs of text
- Design your exhibits so that they tell the story without you⁴
- Any fancy graphics should *help* the reader, not confuse
- Don't overfill slides; details are good for slides that'll be referenced, not for presenting

⁴An ethos much like self-commenting code.

Teacher "nominations" are more likely from scheduled castes, tribes

	All	Schools Selected	Exam Select	Teacher Top	Teacher Nom	Rand
Test scores	66.18	63.93	89.66	83.74	71.96	76.81
	(16.08)	(15.01)	(6.299)	(12.27)	(11.82)	(8.504)
English medium	0.281	0.348	0.368	0.350	0.363	0.344
	(0.450)	(0.476)	(0.482)	(0.477)	(0.481)	(0.476)
Scheduled Caste	0.344	0.322	0.255	0.246	0.282	0.302
	(0.475)	(0.467)	(0.436)	(0.431)	(0.450)	(0.460)
Scheduled Tribe	0.0383	0.0272	0.0137	0.0139	0.0161	0.0153
	(0.192)	(0.163)	(0.116)	(0.117)	(0.126)	(0.123)
Female	0.513	0.537	0.665	0.642	0.535	0.645
	(0.500)	(0.499)	(0.472)	(0.480)	(0.499)	(0.479)
Mom Ed.	3.101	3.156	2.788	2.794	2.865	3.096
	(4.016)	(4.006)	(3.643)	(3.564)	(3.740)	(3.910)
Dad Ed.	2.813	2.880	2.571	2.612	2.558	2.824
	(3.888)	(3.894)	(3.572)	(3.548)	(3.616)	(3.816)
N	102316	65808	6212	3384	2182	262

Table reports means of non-missing observations in subgroup, SD in parentheses. Source: TN SED

Introduction 0000 Project overview

Screen 1 000000000000

Screen 2 0000000000000 RCT

Next Steps

Screen 1: Teacher "nominations" are more diverse than their "top"

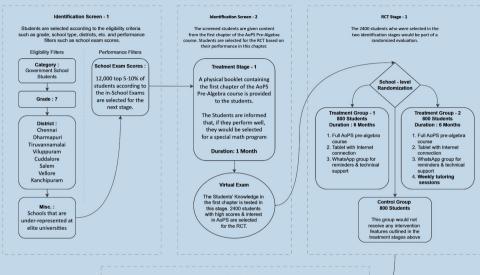
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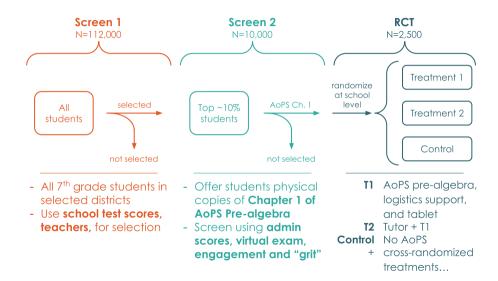
RCT Stage - 2

Using performance in this classes, the most promising of these students in RCT Stage - 1 would be identified, and again in an RCT with the same three treatment groups and tablet access give access to even more intensive material including AoFS classes on algebra, geometry, combinatorics, and number theory.

Sample: To be determined according to the students' performance in RCT - 1

Time Duration: 3 Years

Overview



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Measuring remote work using job postings

- Used GPT-40 mini to classify 100 job postings per month from 2020 to 2023 per firm as either in person or remote/hybrid a la (Hansen et al 2024)
 - Today: top 50 and bottom 50 companies by change in offshore workers for expediency
 - Share of remote jobs over this period captures duration x intensity of remote work

Nvidia, Technology lead, May 2024, San Jose: "We are looking for a Machine Learning Engineer/Al Solutions Architect with experience in Al data pipelines and model development....We make extensive use of conferencing tools, but occasional travel is required for local on-site visit to customers and data science conferences. We are open to remote work location "

Nvidia, Software Engineer, Oct 2024, Santa Clara: "We are looking for a Principal Software Engineer with experience in building highly scalable and robust enterprise software to join us...If you're creative and passionate about developing services to manage a cluster of GPUs/CPUs we want to hear from you! #LI-Hybrid The base salary range is 272.000 USD - 419.750 USD...'

Measuring remote work using job postings

- Begin with firms that have Revelio office job postings and are in Compustat (N = 400)
 - Moving forward, will use Lightcast for better job postings coverage
 - Will also look at Scoop Flex Index (used in Gupta, Mittal, Van Nieuwerburgh 2025)
- Used GPT-40 mini to classify 100 US job postings per month per firm from January 2019 to November 2024 as either in person or remote/hybrid, à la Hansen et al 2024
 - Share of remote jobs over this period captures duration × intensity of remote work
 - On a holdout set of 100 postings GPT achieves 95% accuracy

Nvidia, Technology Lead, May 2024, San Jose: "We are looking for a Machine Learning Engineer/Al Solutions Architect with experience in Al data pipelines and model development....We make extensive use of conferencing tools, but occasional travel is required for local on-site visit to customers and data science conferences. We are open to remote work location."

Nvidia, Software Engineer, Oct 2024, Santa Clara: "We are looking for a Principal Software Engineer with experience in building highly scalable and robust enterprise software to join us...If you're creative and passionate about developing services to manage a cluster of GPUs/CPUs we want to hear from you! #LI-Hybrid The base salary range is 272,000 USD - 419,750 USD..."

Small details add a lot to "polish" (1)

Dashes are meaningful, so use the right one

hyphen	-	compound words	follow-up, mother-in-law
en-dash	-	ranges of numbers	Jan. 1–15, Exhibits A–E
		two words together that either connect or contrast	Dodd–Frank, urban–rural divide
em-dash	_	sentence break when commas are too weak, but parentheses, colons, or semicolons are too strong	I think that there are too many rules—more than any person should be expected to remember.
minus	_	subtraction	5-2=3

Small details add a lot to "polish" (2)

- Either every line should end in a period or none should (throughout)
- Use 16:9 aspect ratio (in LaTeX, the default is 4:3)
- Notation should be consistent (COVID or Covid-19? k, M, or billion?)

guiding philosophy: you want people to understand. design with that in mind.

slack or paoloadajar@mit.edu for questions and thoughts permalink to latest version here

Resources for coding (General)

- Innovations for Poverty Action, Best Practices for Data and Code Management (link) and Cleaning Guide (link)
- Grant McDermott, EC607 Lecture Notes (link)
- Matt Gentzkow and Jesse Shapiro, Code + Data for the Social Sciences (link) and RA guide (link) (highly recommended)
- World Bank DIME Analytics Data Handbook (link)
- Arthur Turrell, Coding for Economists (link)
- Rules for open-source scientific software (link)
- MIT 6.031, Lecture 4: Code Review (link), Lecture 9: Avoiding Debugging (link), Code Review overview (link)

Stata coding resources

- Stata linter following DIME's Stata coding practices (link)
- Stata Guide, Sean Higgins (link)
- Michael Stepner, Coding Style Guide (link)

R coding resources

- Software Carpentry, Best Practices for Writing R Code (link)
- TASO, Practice Tips (link)
- R-bloggers, Best Practices (link)
- Google, R Style Guide (link) and linter (link)

Beamer and Presentation resources

- Paul Goldsmith-Pinkman, Beamer Tips for Economists (link)
- Natalia Emmanuel, A Basic Beamer Power Up (link)
- Jesse Shapiro, How to Give an Applied Micro Talk (link)
- Rachael Meager, Public Speaking for Academic Economists (link)
- Presentation Rules and Suggestions from University of Munich (link)
- Monika Piazzesi, Avoiding disasters in presentations (link)
- Tim Kehoe, Presentation Tips (link)
- Harvard Writing and Communication Center, Fundamentals of Slide Design (link)

Visualization resources

- Kieran Healy, Data Visualization: A Practical Introduction (link)
- Jonathan Schwabish, Better Data Visualizations (link)
- Arnav Bandekar, Making Economics Theory Graphs in \(\text{MT}_FX(\text{link}) \)
- Edward Tufte's books

Other resources that didn't fit anywhere else

- Older article on reproducible economics research (link)
- Writing code in Python for Economists (link)
- Notes on typography (link)

An example of "too many words"— though the tips are real, detail comes at the expense of legibility

- Dense graphs, tables, and paragraphs can confuse the reader
 - Many graphs, tables have extraneous information. The graphics you put into a presentation should almost never be the same as those in your paper.
 - You don't want to be reading from paragraphs anyways. Often, more words are used as a "crutch" by speakers.
- Design your exhibits so that they tell the story without you
 - Somewhat like self-commenting code; exhibits should speak for themselves.
 - $\bullet \ \ \text{Use highlighting, markers, to "signpost" the meaning of it (bold, different color, overlaid boxes)}.$
- Any fancy graphics should help the reader, not confuse
 - Graphics should be as visually simple as possible: no outlines, allowed to have each section be one color.
 - Large blocks of color unideal for visibility on projectors.
- Don't overfill slides; whitespace is allowed, and in fact, good
 - If you are decreasing your font size to fit the slide, there's too much.
 - Spacing between lines and paragraphs can greatly help clarity.