Best Practices for the Political Scientist

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Intro

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- I'll give general advice that should apply for most, and then the tools I use for the specific problem

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  - Keep track of the paper, figures, tables, references, cross-references, analysis, appendix, etc

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- We'll focus on free, open-source tools that enable this behavior and work on Linux, Mac, and Windows

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- git is the best version-control system - it combines the benefits of "track changes" with that of backups

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- ((show example git history))

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- When you return to your code six months from now, you won't have to wonder what it is or what you were thinking

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    - Feel free to fork-edit-pull request any changes!

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- Bonus: plain text files are usually *much* smaller than their Word/pdf counterparts

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    - Sublime Text
    - Vim
    - RStudio (for R analysis)

```
# Markdown

You can use markdown to write plain text that
[contain links](https://google.com). Markdown can also manage your
references and bibliography [@wlezien1995].
```

Markdown - math

As a quick aside, we can also write really nice math in markdown. Inline math goes between single dollar signs: ($\beta = 3$) and display math uses double dollar signs:

$$\frac{1}{3} x = \pi$$

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- Solution: Integrate code and paper with rmarkdown

Rmarkdown

Rmarkdown lets you put code inside your markdown document like so:

````
```{r}
x <- c(1, 2, 3)
mean(x)
```
````

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- Everything is open-source and runs on Linux, Mac, and Windows
- Your work can be done in a portable, documented, reproducible way
- These programs work well with each other

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