Reproducible data analysis

Obligatory:
1. Use code (no clicking)
2. Document / automate your steps
3. Stay organized

Recommended:
- Use version control
Example toolkit

\texttt{R} \quad \texttt{LaTeX} \quad \texttt{git}
The estimates and confidence intervals of this model can be computed via

```r
cbind(estimate = coef(bmod_math), confint(bmod_math))
```

The model can be visualised by plotting the estimated densities (see Figure ~\ref{fig:math_bmod_vis}): 

```r
lm_plot(bmod_math)
```
Make

target name

main.pdf:

main.tex part.tex

files this target depends on

pdflatex main.tex

stuff to execute

tab
Example: my paper “model4you”
DOI: 10.5334/jors.219

man_model4you.tex:  man_model4you.Rnw
   Rscript -e "knitr::knit('man_model4you.Rnw')"

man_model4you.pdf:  man_model4you.tex ref_model4you.bib
   pdflatex man_model4you.tex
   bibtex man_model4you
   pdflatex man_model4you.tex
   pdflatex man_model4you.tex

all:  man_model4you.pdf
Further reading

The Turing Way: handbook to reproducible, ethical and collaborative data science
Thanks!

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