Transitioning between various RMarkdown packages for workflow optimization in academic research; a graduate student's perspective.

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Hello useR! 2019

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Quick Facts:

- Started using R in 2014
- Hated it!
- Realized the value in FOSS
- Taught myself R
- Made the {posterdown} package
- Now known as the "you can do that in R!" guy in my lab!

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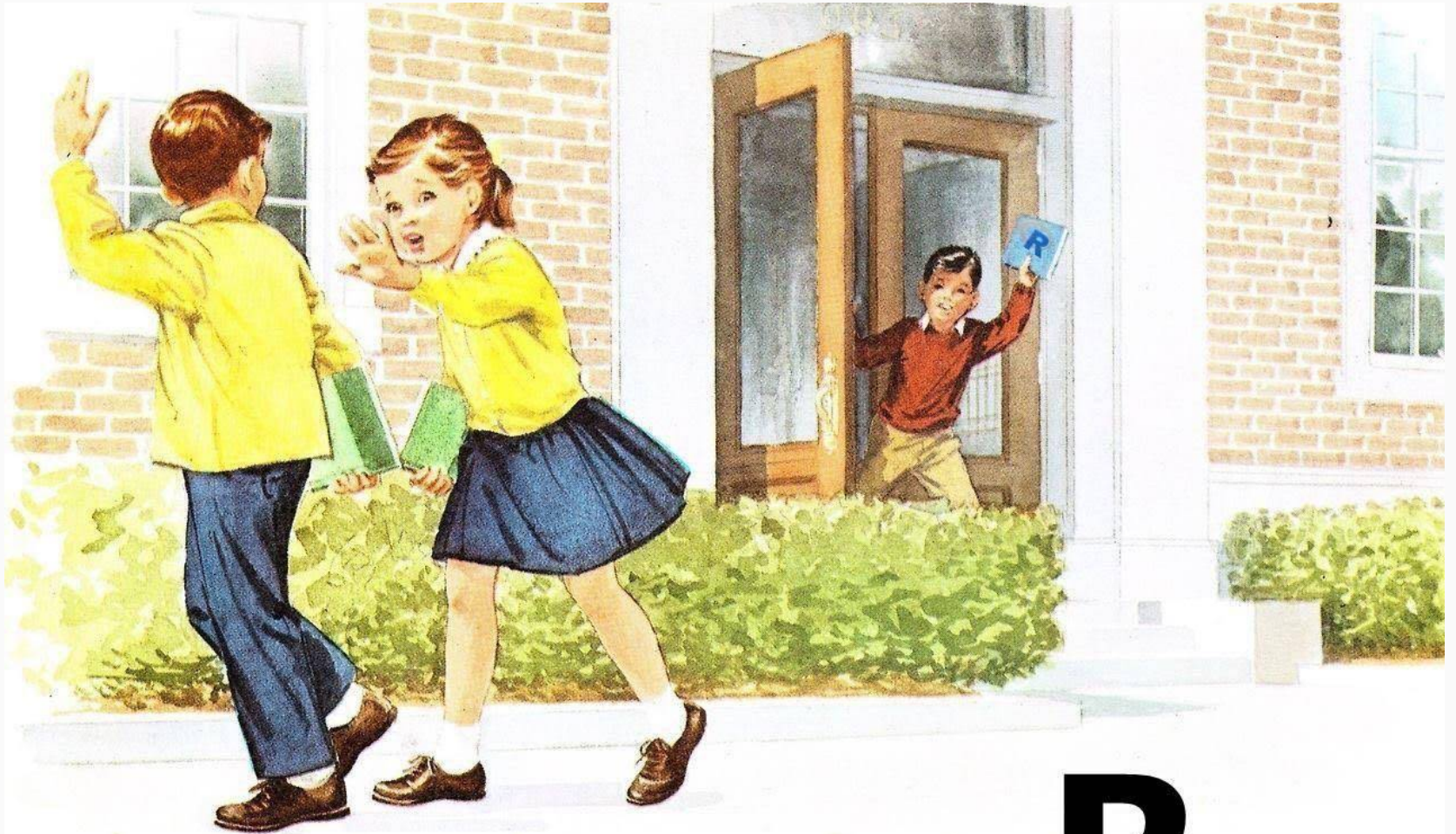- Now known as the "you can do that in R!" guy in my lab!

What packages can I use?

Grad Student's Needs	Possible R packages
Taking notes	rmarkdown/ pagedown
Manage Citations	rbbt/ citr
Conference Posters	pagedown/ posterdown (*personal bias on this one*)
Thesis/ Dissertation	bookdown/ thesisdown/ pagedown::thesis_paged
Slide Shows	xaringan/ beamer
Make a CV	rmarkdown/ pagedown
Manuscripts	rticles/ pagedown

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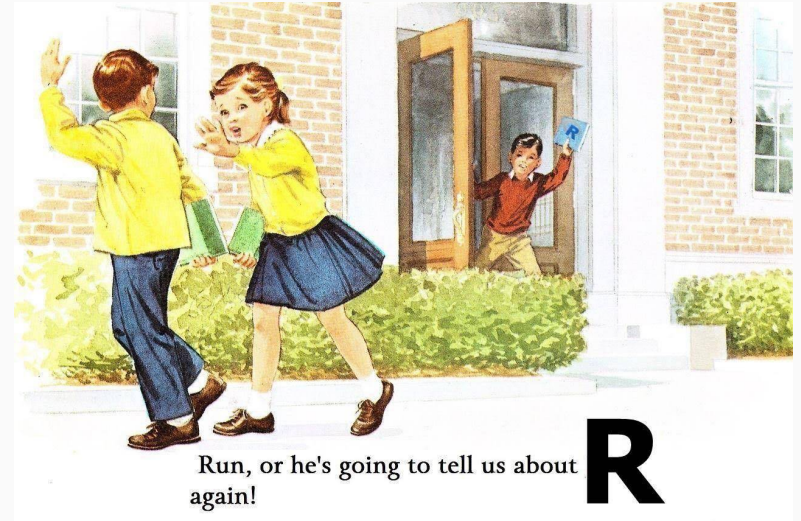| Grad Student's Needs	Possible R packages
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Run, or he's going to tell us about **R** again!

New User's

- Show them, don't tell them

- Show them only 1 item at a time

- Ask them if they want help getting started

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LaTeX or HTML?

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- Can be difficult to transition between the two.

- Often a person sticks with what they started with.
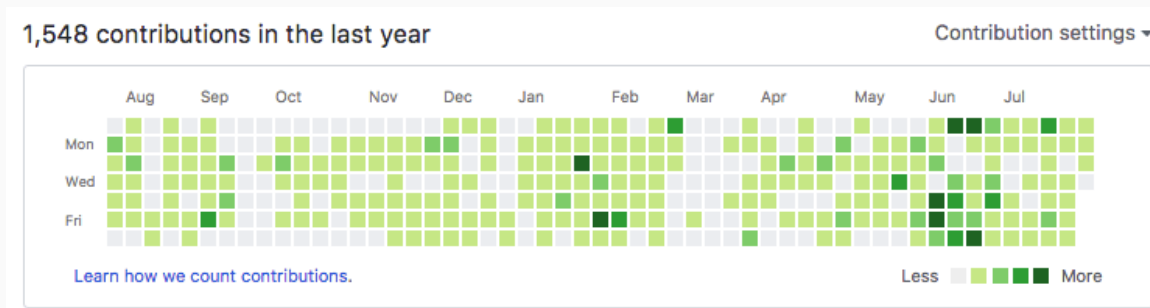
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- New user's are put off when needing to change what they know for little gain.

- I made `posterdown` to ensure a document written in `rmarkdown` could be immediately turned into a conference poster.
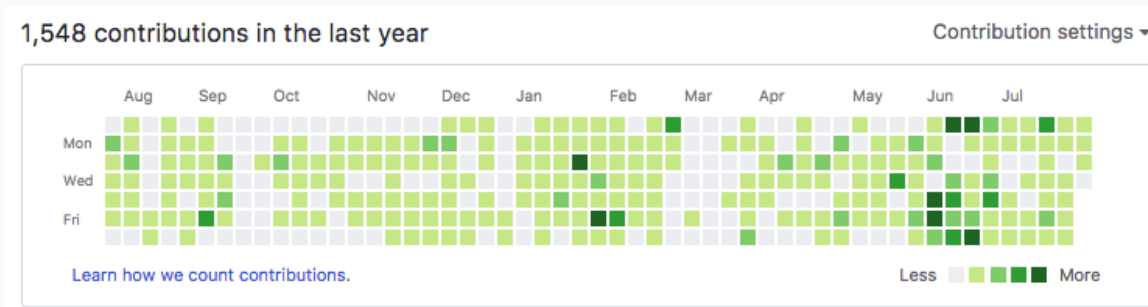
Why should supervisors care?

1) Version control

2) Reproducible

3) More time for the important stuff, think of all the manuscripts!

4) Check up on progress from a distance....

5) No need to track down a student years after they're gone for data/ analysis.

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Conclusion

- R markdown and other down packages are changing the way academia can become more streamlined for graduate students

- When creating new packages/ templates for the downverse it will be important to consider how a template may be transitioned to or from by simplifying the syntax.

- Let's encourage all levels of academia to embrace reproducible research!

Thank you

Thank you to useR! 2019 for providing a scholarship for me to attend this years meeting!