

Dynamic Documents 2

APA Manuscripts

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Week 5, Class 1



Agenda

- Questions
- Revisit some *git/GitHub*
- {papaja}
- Lab

Learning objectives for today

- Understand how to render R Markdown documents into APA manuscripts
- Understand how to include citations in an R Markdown document

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Agenda

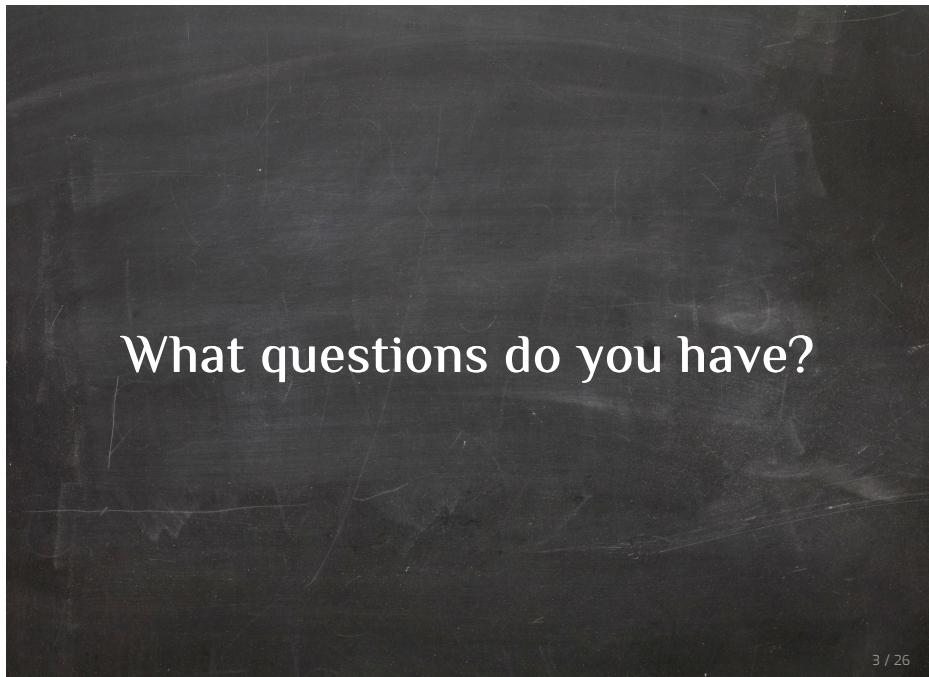
- Questions
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- Understand how to render R Markdown documents into APA manuscripts
- Understand how to include citations in an R Markdown document

Objectives

- Render an R Markdown document as an APA manuscript



Revisiting *git*

Talk with neighbor. What do these terms mean?

- clone
- pull
- stage
- commit
- push
- repo
- remote

[demo]

I will

- Create a repo
- Clone into an R Project
- Create a file - stage, commit, push

You then

- Clone the repo
- We'll have one person make a change
- Everybody `git pull` and see the changes
- Purposefully create a merge conflict, use gitkraken to deal with it.

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{papaja}

Despite having been around for about 4 years {papaja} is still not on CRAN.

More evidence that some of the best packages are not on CRAN.

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{papaja}

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Install with devtools

```
devtools::install_github("crsh/papaja")
```

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WIP

The package is seemingly perpetually under development. What does this mean?

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WIP

The package is seemingly perpetually under development. What does this mean?

- Re-install regularly.

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- Re-install regularly.
- Not everything may work perfect - don't worry though, most things do

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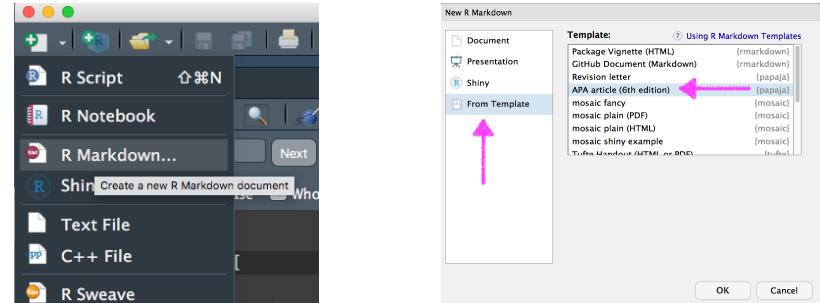
WIP

The package is seemingly perpetually under development. What does this mean?

- Re-install regularly.
- Not everything may work perfect - don't worry though, most things do
- You may want to peruse the current [issues](#)
 - If you run into one (and you're sure it's an issue) consider opening one yourself
 - Bonus - the developer is very kind, so even if you open up a silly issue, he's likely to be understanding

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Use the template



Using R Markdown Templates

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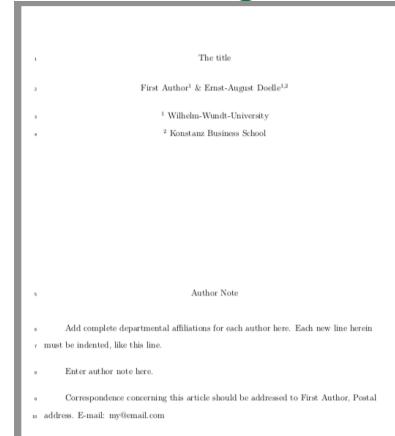
YAML

A few more options than the default

```
title      : "The Title"
shorttitle: "Title"
author:
  - name        : "First Author"
    affiliation: "affiliation"
    corresponding: yes
    address     : "address" # define only one corresponding author
    email       : "email"
    homepage   : "homepage"
    affiliation: "affiliation"
    id         : "1"
  - name        : "Second Author"
    affiliation: "affiliation"
    corresponding: no
    address     : "address"
    email       : "email"
    homepage   : "homepage"
    affiliation: "affiliation"
    id         : "2"
affiliation:
  - id: "1"
    institution: "Wilhelm-Wundt-University"
  - id: "2"
    institution: "Konstanz Business School"
authorsnote:
  - Add complete departmental affiliations for each author here. Each new line herein must be a
    Enter author note here.
abstract:
  - One or two sentences providing a basic introduction to the field, comprehensible to a
    general audience.
  - Two to three sentences of more detailed background, comprehensible to scientists in related
    fields.
  - One sentence clearly stating the problematic addressed by this particular study.
  - One sentence summarizing the main result (with the words "where we show" or their equivalent).
  - Two or three sentences explaining what the main result reveals in direct comparison to
    prior work.
  - One or two sentences to put the results into a more general context.
  - Two or three sentences to provide a wider perspective, readily comprehensible to a scientific
    audience.
  - <a href="https://tinyurl.com/ybpy6eqg" -->
  - <!-- https://tinyurl.com/ybpy6eqg -->
brevitynote:
  - "brevity"
  - "conciseness"
bibliography: ["references.bib"]
crossrefnote: no
figurelist: no
tablelist: no
footnotelist: no
listendnotes: yes
math: no
draft: no
documentclass: "apa6"
classoption: "apa6"
output: "papaja/apa6.pdf"
```

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First thing - Render!



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Modifications

- Obvious ones
 - title
 - author & author info
 - abstract
 - keywords

Let's play for a minute!

Modify some of the options on the previous slide.

Specifically, try changing `classoption` from `man` to `jou`. Try other things too.

Modifications

- Obvious ones
 - title
 - author & author info
 - abstract
 - keywords
- Less obvious
 - `shorttitle` (running head)
 - `authornote` (can fully delete or modify)
 - `wordcount` (fairly useless at this point imo)
 - `bibliography` (we'll talk more about this momentarily)
 - `linenumbers`
 - floats
 - mask (for blind peer-review)
 - `classoption`

Citations

Citations

To include references in your paper, you must:

- Create an external .bib file using LaTeX formatting (we'll get to this)
- Include `bibliography: nameOfYourBibFile.bib` in your YAML front matter.
- Refer to the citations in text using `@`

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Creating a .bib doc

The persistence of school-level value-added

DC Briggs, JP Weeks - Journal of Educational and Behavioral ..., 2011 - jeb.sagepub.com
Abstract Using longitudinal data for an entire state from 2004 to 2008, this article describes the results from an empirical investigation of the persistence of value-added school effects on student achievement in reading and math. It shows that when schools are the principal ...
Cited by 20 Related articles All 8 versions Web of Science: 4 Cite Save More

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Creating a .bib doc

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Cited by 20 Related articles All 8 versions Web of Science: 4 Cite Save More

Cite

Copy and paste a formatted citation or use one of the links to import into a bibliography manager.

MLA Briggs, Derek C., and Jonathan P. Weeks. "The persistence of school-level value-added." *Journal of Educational and Behavioral Statistics* 36.5 (2011): 616-637.

APA Briggs, D. C., & Weeks, J. P. (2011). The persistence of school-level value-added. *Journal of Educational and Behavioral Statistics*, 36(5), 616-637.

Chicago Briggs, Derek C., and Jonathan P. Weeks. "The persistence of school-level value-added." *Journal of Educational and Behavioral Statistics* 36, no. 5 (2011): 616-637.

Harvard Briggs, D.C. and Weeks, J.P., 2011. The persistence of school-level value-added. *Journal of Educational and Behavioral Statistics*, 36(5), pp.616-637.

Vancouver Briggs DC, Weeks JP. The persistence of school-level value-added. *Journal of Educational and Behavioral Statistics*. 2011 Oct 1;36(5):616-37.

BibTeX EndNote RefMan RefWorks

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```
@article{briggs2011persistence,
  title={The persistence of school-level value-added},
  author={Briggs, Derek C and Weeks, Jonathan P},
  journal={Journal of Educational and Behavioral Statistics},
  volume={36},
  number={5},
  pages={616--637},
  year={2011},
  publisher={SAGE Publications}
}
```

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```
@article{briggs2011persistence,
  title={The persistence of school-level value-added},
  author={Briggs, Derek C and Weeks, Jonathan P},
  journal={Journal of Educational and Behavioral Statistics},
  volume={36},
  number={5},
  pages={616–637},
  year={2011},
  publisher={SAGE Publications}
}
```

```
@article{Briggs11,
  title={The persistence of school-level value-added},
  author={Briggs, Derek C and Weeks, Jonathan P},
  journal={Journal of Educational and Behavioral Statistics},
  volume={36},
  number={5},
  pages={616–637},
  year={2011},
  publisher={SAGE Publications}
}
```

Tag for in-text referencing

A few real examples

A more flexible approach, discussed by @ho_09 and others [@ho_12; @reardon_15], is to construct a probability-probability (PP) plot and compute the area under the PP curve (see Figure 1). Note that the PP curve is normal distributions separated by standard deviation units [@ho_09]. The *V* statistic assumes respective normality "where two distributions that may not be normal may nonetheless be normal with respect to each other, under a shared transformation" [@ho_09, p. 217]. The assumptions underlying *V* are thus less where \$ref\$ and \$foc\$ represent the reference and focal groups, respectively [see @lakens_13]. The magnitude of the effect size is primarily driven by the

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In text citations

Citation Style	Output
@Briggs11	Briggs and Weeks (2011)
[see @Baldwin2014; @Caruso2000]	(see Baldwin et al. 2014; Caruso 2000)
[@Linn02, p. 9]	(Linn and Haug 2002, 9)
[-@Goldhaber08]	(2008)

Note this is not APA. However, references are included automatically at the end of the document. Include # References as the last line of your document to give it a title.

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References

References

- Baldwin, Scott A, Zac E Imel, Scott R Braithwaite, and David C Atkins. 2014. "Analyzing Multiple Outcomes in Clinical Research Using Multivariate Multilevel Models." *Journal of Consulting and Clinical Psychology* 82 (5). American Psychological Association: 920.
- Briggs, Derek C, and Jonathan P Weeks. 2011. "The Persistence of School-Level Value-Added." *Journal of Educational and Behavioral Statistics* 36 (5). SAGE Publications: 616–37.
- Caruso, John C. 2000. "Reliability Generalization of the NEO Personality Scales." *Educational and Psychological Measurement* 60 (2). Sage Publications: 236–54.
- Goldhaber, D., and M. Hansen. 2008. "Is It Just a Bad Class? Assessing the Stability of Measured Teacher Performance. CPRE Working Paper No. 2008-5, University of Washington." Report.
- Linn, R. L., and C. Haug. 2002. "Stability of School-Building Accountability Scores and Gains." Journal Article. *Educational Evaluation and Policy Analysis* 24: 29–36. doi:10.3102/01623737024001029.

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Let's try!

[demo first]

- Open R Studio
 - Open a new Rmd document
- In your YAML, add a new line for `bibliography:`. Follow this with the name of your bibliography file, which should be in the same directory, and should be the bare name (not in quotes).
- Open a text file, save it with a `.bib` extension.
- Go to google Scholar and find a reference to cite. Copy and paste the citation into your `.bib` file using google's cite option.
- Include a reference to the citation in your Rmd file and render it. Include a page break so your citations are on a separate page.

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Other potential option

- Add a GUI-like interface with `citr`
 - written by the same author who wrote the APA R Markdown documentation

See [here](#)

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Tables

Not my favorite thing - figures generally better.

Some options

- `papaja::apa_table` for basic APA tables
- `knitr::kable` for basic tables of any sort
 - Use `{kableExtra}` for extensions (see [here](#) for extensions in html and [here](#) for extensions in pdf)
- `{huxtable}`

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Chunk options

For tables, you may have to specify `results = "asis"` or you can end up with something like

```
## <caption>(\#tab:unnamed-chunk-1)</caption>
##
## <caption>**</caption>
##
##
##
## -----
##          mpg   cyl  disp    hp   drat    wt  qsec    vs
## -----
## Mazda RX4      21.00  6.00 160.00 110.00  3.90  2.62 16.46  0.
## Mazda RX4 Wag  21.00  6.00 160.00 110.00  3.90  2.88 17.02  0.
## Datsun 710     22.80  4.00 108.00  93.00  3.85  2.32 18.61  1.
## Hornet 4 Drive 21.40  6.00 258.00 110.00  3.08  3.21 19.44  1.
## Hornet Sportabout 18.70  8.00 360.00 175.00  3.15  3.44 17.02  0.
## Valiant        18.10  6.00 225.00 105.00  2.76  3.46 20.22  1.
## Duster 360     14.30  8.00 360.00 245.00  3.21  3.57 15.84  0.
## Merc 240D       24.40  4.00 146.70  62.00  3.69  3.19 20.00  1.
## Merc 230        22.80  4.00 140.80  95.00  3.92  3.15 22.90  1.
## Merc 280        19.20  6.00 167.60 123.00  3.92  3.44 18.30  1.
## Merc 280C       17.80  6.00 167.60 123.00  3.92  3.44 18.90  1.
## Merc 450SE      16.40  8.00 275.80 180.00  3.07  4.07 17.40  0.
```

Careful on formats

- Make sure you specify the format you want
 - PDF or HTML?

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Things to cover still

- citations
- equations
- extending options a bit

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Careful on formats

- Make sure you specify the format you want
 - PDF or HTML?

From `?kable`

- `format = "latex"` for PDF
- `format = "html"` for HTML output

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Lab

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