Creating reproducible research outputs

by Julia Schulte-Cloos

13 novembro, 2020

Contents

Abstract

How to succeed in making your research workflows and outputs fully reproducible? This workshop offers a gentle introduction to RMarkdown, which can be used to generate dynamic reports, write scientific articles or books, create websites, develop applications, or make interactive presentations. Participants will develop an understanding of the basic principles that underlie the framework of document generation with RMarkdown and they will be able to rely on out-of-the-box templates for their own future reproducible research outputs.

Agenda

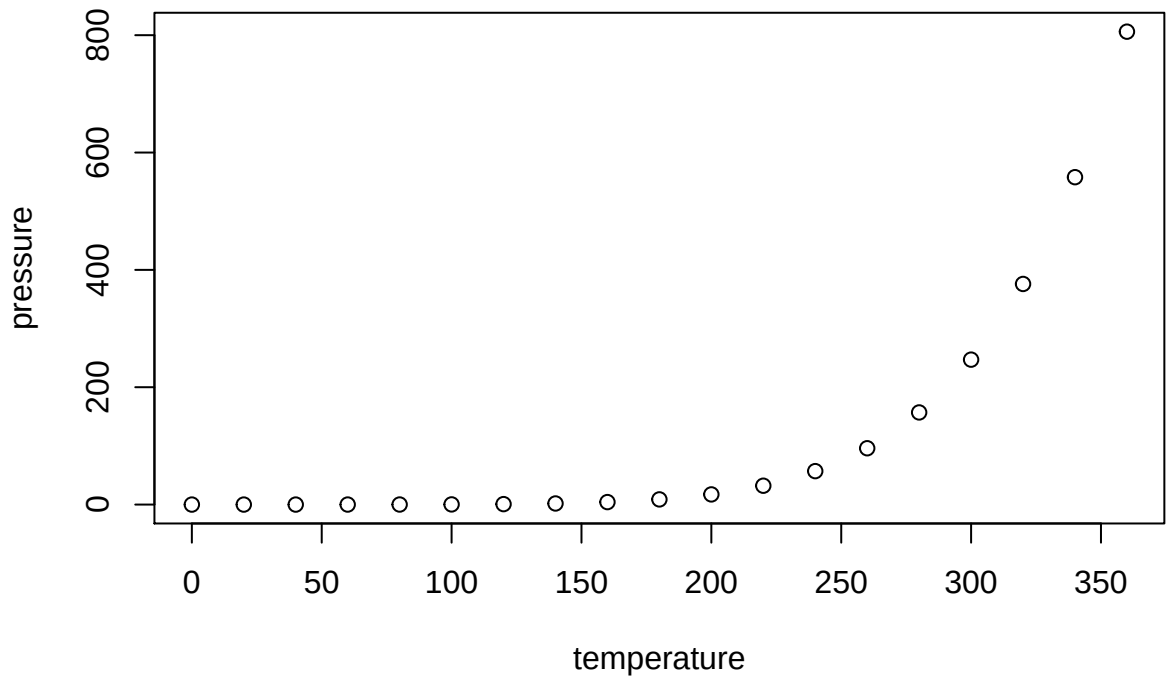
- 1. Intro - Why, when and how? The benefits of RMarkdown for research workflows
- 2. Static reproducible Rmd-documents based on LaTeX
- 3. Dynamic reproducible Rmd-documents based on CSS, Hugo, remark.js and more
- 4. Outlook: parameterized Rmd-documents)

0.1 Slide with R Output

```
##      speed           dist
##  Min.   : 4.0   Min.   :  2.00
##  1st Qu.:12.0   1st Qu.: 26.00
##  Median :15.0   Median : 36.00
##  Mean   :15.4   Mean   : 42.98
##  3rd Qu.:19.0   3rd Qu.: 56.00
##  Max.   :25.0   Max.   :120.00
```

For additional insights see MacFarlane (2020).

0.2 Slide with Plot



References

MacFarlane, John. 2020. "Pandoc User's Guide." *Link: Https://Pandoc.org/MANUAL.pdf.*