

Sample RMarkdown Document

Adam Kaplan

2023-09-15

Basics

Here is my sample **rmarkdown** document. You can write in Markdown, while adding in executable **R** code:

```
x <- 2 + 2
```

Or non-executable code:

```
y <- 2 + 3
```

As well as LaTeX chunks:

$$Y_i = \alpha + \beta x_i + \varepsilon_i$$
$$Y_i - \varepsilon_i = \alpha + \beta x_i$$

R and LaTeX in RMarkdown

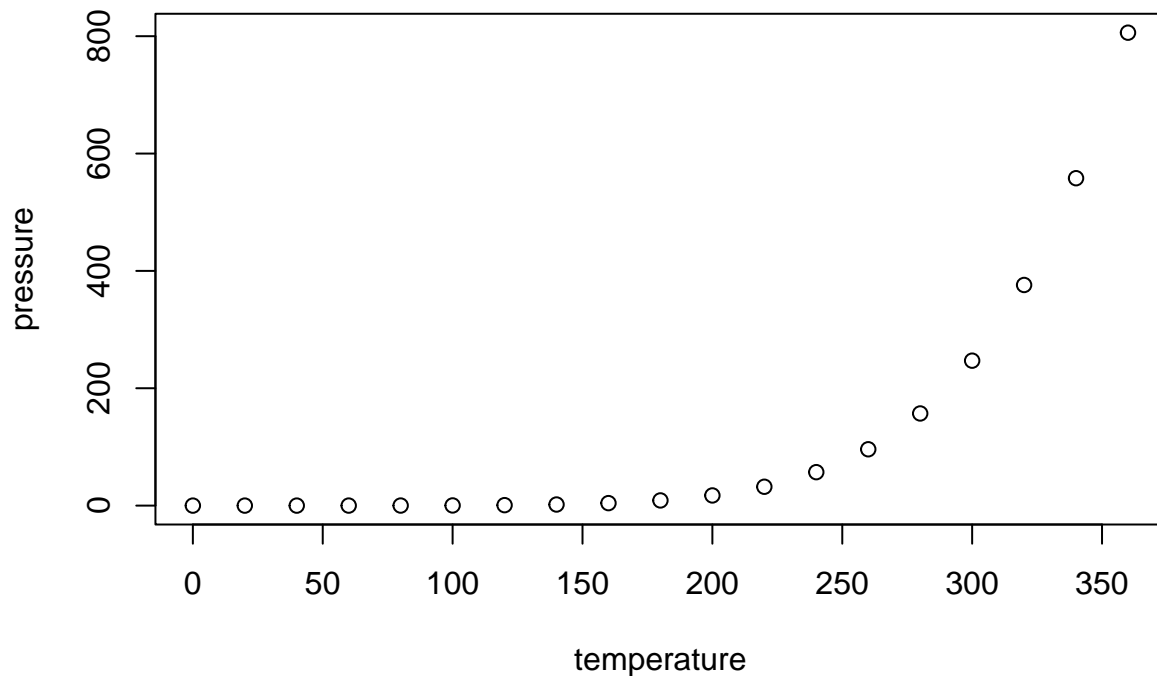
The powerful part of RMarkdown is that you can include R outputs, such as plots or tables directly without having to mess around with LaTeX code.

Plots

```
head(cars)
```

```
##   speed dist
## 1     4    2
## 2     4   10
## 3     7    4
## 4     7   22
## 5     8   16
## 6     9   10
```

```
plot(pressure)
```



Tables

we will use mtcars dataset already in R

```
our_table <- mtcars %>%
  group_by(cyl) %>%
  summarize(mean_mpg = mean(mpg))
```

```
library(xtable)
print(xtable(our_table))
```

% latex table generated in R 4.3.1 by xtable 1.8-4 package % Fri Sep 8 13:47:17 2023

	cyl	mean_mpg
1	4.00	26.66
2	6.00	19.74
3	8.00	15.10

```
print(xtable(our_table),
      file = "./our_table.tex")
```

```
our_reg <- lm(cyl ~ mpg, data = mtcars)
```

```
library(stargazer)
```

```
##
```

```
## Please cite as:
```

```
## Hlavac, Marek (2022). stargazer: Well-Formatted Regression and Summary Statistics Tables.
```

```
## R package version 5.2.3. https://CRAN.R-project.org/package=stargazer
```

```
stargazer(our_reg,
          header = FALSE)
```

Table 1:

	<i>Dependent variable:</i>
	cyl
mpg	-0.253*** (0.028)
Constant	11.261*** (0.593)
Observations	32
R ²	0.726
Adjusted R ²	0.717
Residual Std. Error	0.950 (df = 30)
F Statistic	79.561*** (df = 1; 30)
<i>Note:</i>	*p<0.1; **p<0.05; ***p<0.01

```
stargazer(our_reg,
  header = FALSE,
  out = "./our_reg.tex")
```

Table 2:

	<i>Dependent variable:</i>
	cyl
mpg	-0.253*** (0.028)
Constant	11.261*** (0.593)
Observations	32
R ²	0.726
Adjusted R ²	0.717
Residual Std. Error	0.950 (df = 30)
F Statistic	79.561*** (df = 1; 30)
<i>Note:</i>	*p<0.1; **p<0.05; ***p<0.01

Acknowledgements

I assemble this document from multiple other introductory RMarkdown documents written by Elizabeth Parker-Magyar.