Report Title

April 1, 2021

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List of Acronyms

Acronym	Long Name
E. coli	*Escherichia coli*
FDC	Flow Duration Curve
TWRI	Texas Water Resources Institute

Executive Summary

We might include an executive summary or abstract here.

Table 2: this is the builtin mtcars data.

	mpg	cyl	disp	hp	drat	wt	qsec	vs	am	gear	carb
Mazda RX4	21.0	6	160.0	110	3.90	2.620	16.46	0	1	4	4
Mazda RX4 Wag	21.0	6	160.0	110	3.90	2.875	17.02	0	1	4	4
Datsun 710	22.8	4	108.0	93	3.85	2.320	18.61	1	1	4	1
Hornet 4 Drive	21.4	6	258.0	110	3.08	3.215	19.44	1	0	3	1
Hornet Sportabout	18.7	8	360.0	175	3.15	3.440	17.02	0	0	3	2
Valiant	18.1	6	225.0	105	2.76	3.460	20.22	1	0	3	1
Duster 360	14.3	8	360.0	245	3.21	3.570	15.84	0	0	3	4
Merc 240D	24.4	4	146.7	62	3.69	3.190	20.00	1	0	4	2
Merc 230	22.8	4	140.8	95	3.92	3.150	22.90	1	0	4	2
Merc 280	19.2	6	167.6	123	3.92	3.440	18.30	1	0	4	4

1 Headings

Main document text starts here!

1.1 Second Level Heading

1.1.1 Third Level Heading

First, second, and third level headings are defined by #, ##, and ### respectively.

Unnumbered heading

Headings are automatically numbered. If you want a section heading to remain unnumbered use {-} after the heading.

2 Tables

Raw data output will not format as a table. Use `knitr::kable()` or the kableExtra package to format tables. This is an example of how we cross-reference that table (Table 2).

3 Figures

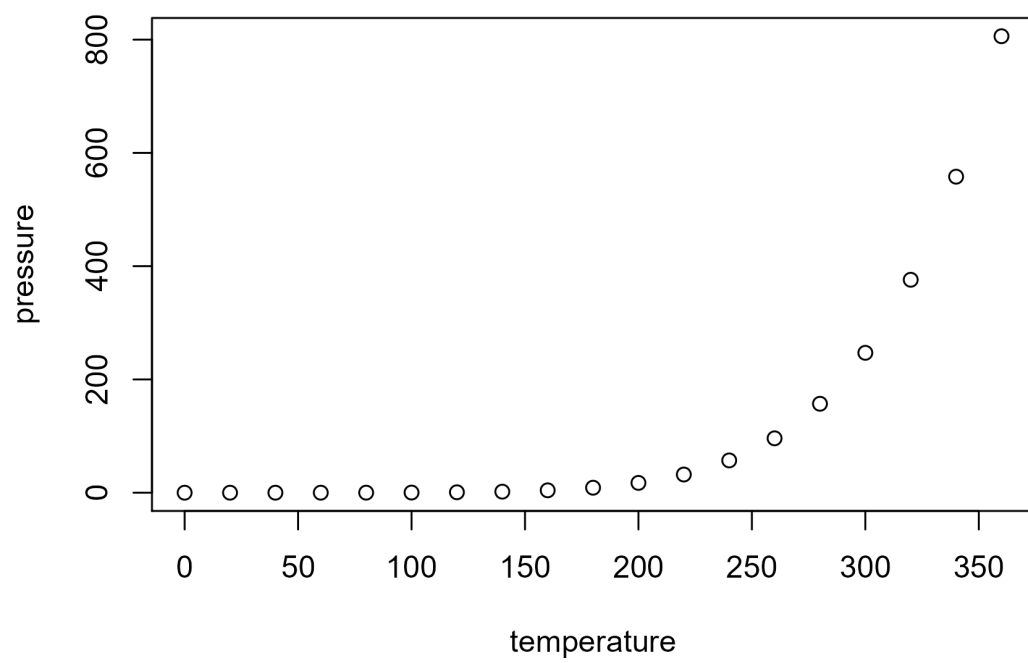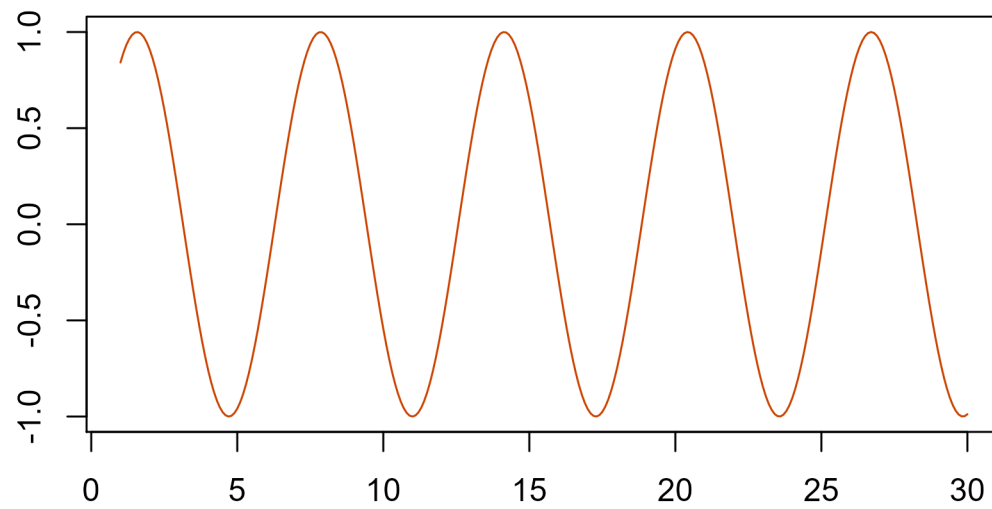We can embed and cross-reference plots (Figure 1).

Figure 1: pressure dataset

Figure 2: sin function

4 Landscape Section

5 Math

Wrap variables or math in a single $ to show math inline. For example, $\varepsilon \sim \mathrm{N}(0,1)$. Standalone equations are wrapped with $$.

$$\left(\prod_{i=1}^{n} y_i\right)^{\frac{1}{n}} = \exp\left[\frac{1}{n}\sum_{i=1}^{n}\log y_i\right], \quad \text{when} \quad y_1, y_2, ..., y_n > 0$$

If the equations need to be numbered and cross-referenced the format as:

```
\begin{equation}
\left(\prod_{i=1}^{n}y_i\right)^{\frac{1}{n}} =
\exp\left[\frac{1}{n}\sum_{i=1}^n\log{y_i}\right],
\quad \textrm{when} \quad y_1, y_2, ..., y_n > 0
(\#eq:gmean)
\end{equation}
```

Which renders as (Equation 1):

$$\left(\prod_{i=1}^{n} y_i\right)^{\frac{1}{n}} = \exp\left[\frac{1}{n}\sum_{i=1}^{n}\log y_i\right], \quad \text{when} \quad y_1, y_2, ..., y_n > 0 \tag{1}$$

6 References

In-text references and bibliography generation are handled automatically. It relies on creating a bibtex `.bib` file with your references. Software such as Zotero, Mendely, and even Google Scholar can generate the bibtex entries for you. The entries are stored in the `bibliography.bib` file inside the same directory as this `.Rmd` file. There is an example file in the same directory as this `.Rmd` file that you can update with your bibliographic entries. To make a in-text citation, use the following syntax, `[@helsel_statistical_2002]` to generate the reference at the end of this sentence (Helsel and Hirsch 2002). Use a semicolon to include multiple references `[@helsel_statistical_2002; @hirsch2010weighted]` (Helsel and Hirsch 2002; Hirsch et al. 2010). Or we might use `@helsel_statistical_2002` without brackets to indicate Helsel and Hirsch (2002) provide a fundamental overview of water quality statistics. The bibliography will populate automatically.

7 Styling and fonts

This template uses Minion Pro for body fonts and Open Sans for headings following TWRI brand guidance and AgriLife brand guidance. I can't bundle Minion Pro in this package because of licensing, but you can download and install both fonts from AgriLife (https://agrilife.tamu.edu/wp-content/uploads/2021/03/AgriFonts.zip). I recommend downloading and installing the fonts before knitting your documents.

Bibliography

Helsel D, Hirsch R. 2002. Statistical methods in water resources. U.S. Geological Survey (Techniques of water-resources investigations of the United States Geologic Survey). http://water.usgs.gov/pubs/twri/twri4a3/.

Hirsch RM, Moyer DL, Archfield SA. 2010. Weighted regressions on time, discharge, and season (WRTDS), with an application to Chesapeake Bay river inputs. JAWRA Journal of the American Water Resources Association. 46(5):857–880. doi:10.1111/j.1752-1688.2010.00482.x.

Appendix A

You can add more info, tables, and figures here.