

Quarto reveal.js Template

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About

Important

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Quarto

A **technical writing** system that produces *reproducible*, *versioned*, and *extendible* documents – the next generation of **R Markdown**.



Features (HTML)

Follows the **University of Sydney** brand guidelines.

- **Logos** - Primary logo on the title slide (black), and secondary horizontal logo on all other slides.
- **Fonts** - *Source Sans Pro*, otherwise, *Times New Roman* (official alternate fonts to *Apercu Pro* and *Lyon Display*).
- **Colours** - Uses the official University of Sydney colours **Ochre**, **Charcoal**, **Heritage Rose**, **Jacaranda** and **Eucalypt**.

Renders to multiple formats with `quarto render`:

- **HTML** in reveal.js format
- **PDF** via LaTeX
- **MS Powerpoint** via Pandoc (TODO)

PDF output is not 1:1

The default PDF render is not 1:1 with the HTML output. To handle this, you can the following:

1. You **must** have Chrome, or a Chromium-based browser installed.
2. Open the HTML output in Chrome.
3. Press the **E** key to enter print mode.
4. Print to PDF using **ctrl** + **p** (Windows) or **cmd** + **p** (macOS).

Quick start

Installing Quarto

Quarto is available for Windows, macOS, and Linux. See [installation instructions](#).

Recommendation

Visual Studio Code is recommended as the editor for Quarto. It is free, open-source, and has a lot of extensions that can be used to enhance the writing experience.

However...

Users familiar with **RStudio** can also use it to write Quarto documents. See [here](#) for more information.

Installing this template

There are three (3) ways:

1. Recommended: Use the Quarto CLI

With the **Quarto CLI** installed, run the following command in your terminal and follow the instructions:

```
1 quarto use template usyd-soles-edu/soles-revealjs
```

2. Download the template directly

You can download the template folder directly from GitHub, ready to use. Go to the **repository** and click on “< > Code”, then “Download ZIP”. Once you unzip the folder.

3. Clone the template repository

Go to the **repository** and click on “Use this template”. Note that you will need to be familiar with Git and GitHub to use this method.

Editing the template

All written content is in the `template.qmd` file. You may rename this file to whatever you like.

HTML output

Slides that are generated from this template are in HTML format. You can view the slides by opening the `.html` file in your browser. This file is generated in the same folder as the `.qmd` file.

Markdown

Flavour

Quarto uses **Pandoc-flavoured Markdown** for text formatting.

Formatting

Bold and *italic*. `Inline code`. What about a **link**? And a footnote¹? We can also use subscript_s and superscript^s.

Lists

- Lists **must** be preceded by a blank line.
- We can also create nested lists:
 1. This list is ordered.
 2. This list is also nested.

¹ This is a footnote

Advanced features

Reproducible workflows

The advantage of Quarto over traditional slide software is that it allows code and output to be embedded in the document. This means that you can create a document that is **reproducible** and **versioned**.

For example, the source of this slide is in the `template.qmd` file.

Code example 1

Using R, we show how to fit a linear regression model and print the model summary. Click on the code dropdown to see the code.

► Code

```
Call:
lm(formula = mpg ~ wt, data = mtcars)

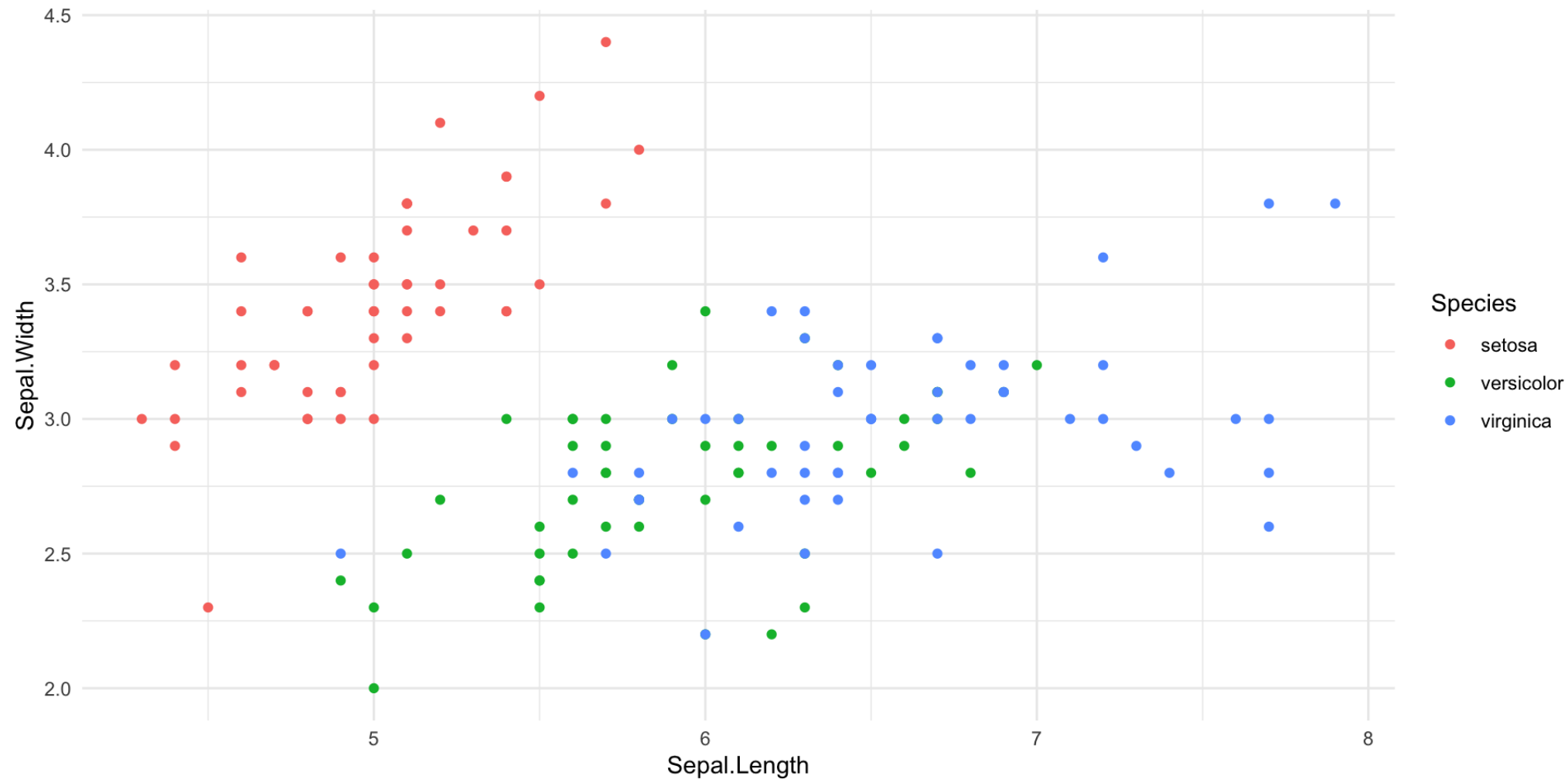
Residuals:
    Min       1Q   Median       3Q      Max
-4.5432 -2.3647 -0.1252  1.4096  6.8727

Coefficients:
            Estimate Std. Error t value Pr(>|t|)
(Intercept)  37.2851     1.8776  19.858 < 2e-16 ***
wt          -5.3445     0.5591  -9.559 1.29e-10 ***
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 3.046 on 30 degrees of freedom
Multiple R-squared:  0.7528,    Adjusted R-squared:  0.7446
F-statistic: 91.38 on 1 and 30 DF,  p-value: 1.294e-10
```

Code example 2

```
1 library(ggplot2)
2 # plot a very nice plot based on iris dataset
3 ggplot(iris, aes(x = Sepal.Length, y = Sepal.Width, color = Species)) +
4   geom_point() +
5   theme_minimal()
```



Equations

Equations are based on **LaTeX** and powered by **MathJax**.

Inline equations

Inline equations are surrounded by $\$$. For example, the equation $y = \beta_0 + \beta_1 x + \epsilon$ is a linear regression model.

Display equations

Display equations are surrounded by $\\$\\$$. For example, one way to display the equation for a **Fourier series** is:

$$f(x) = \frac{a_0}{2} + \sum_{n=1}^{\infty} \left[a_n \cos \left(\frac{2\pi nx}{L} \right) + b_n \sin \left(\frac{2\pi nx}{L} \right) \right]$$

Thanks!

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