

# **Quarto reveal.js Template**

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## About

### ! Important

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## Quarto

A **technical writing** system that produces *reproducible*, *versioned*, and *extensible* 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

## 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:

```
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 footnote<sup>1</sup>? We can also use subscript<sub>s</sub> and superscript<sup>s</sup>.

## 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 nexted.

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<sup>1</sup>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.

```
# fit a linear regression model
model <- lm(mpg ~ wt, data = mtcars)
# print the model summary
summary(model)
```

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

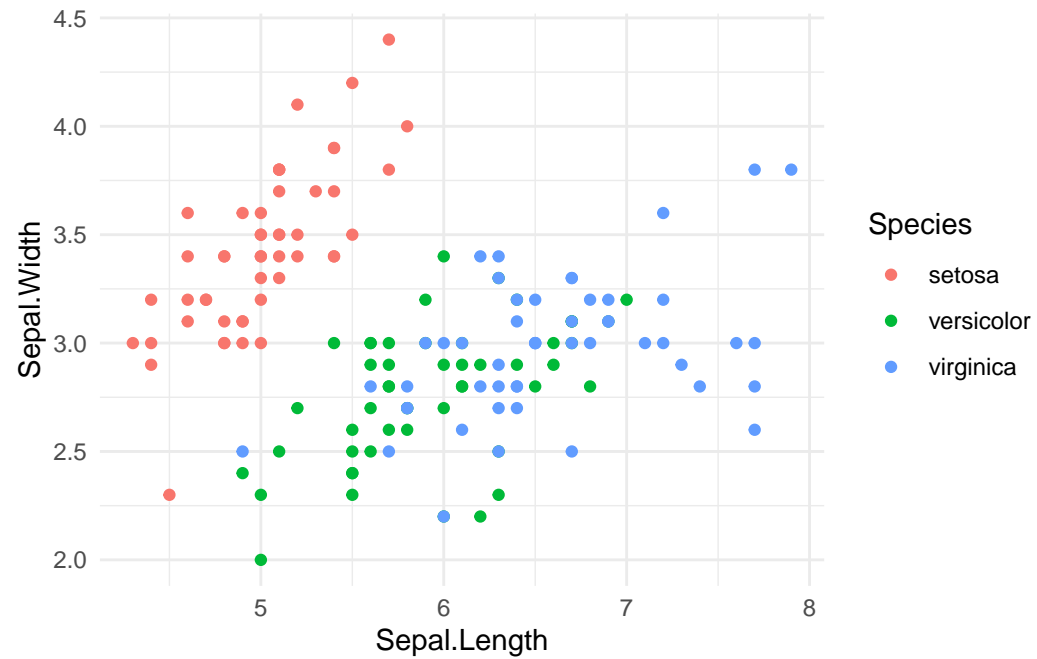
Residual standard error: 3.046 on 30 degrees of freedom

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

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