Quarto reveal.js Template

About

! Important

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> This presentation is based on the SOLES reveal.js Quarto template and is licensed under a Creative Commons Attribution 4.0 International License.

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The only requirement is that you attribute the source.

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[1]? We can also use subscript$_s$ and superscript^s.

Lists

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

[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.

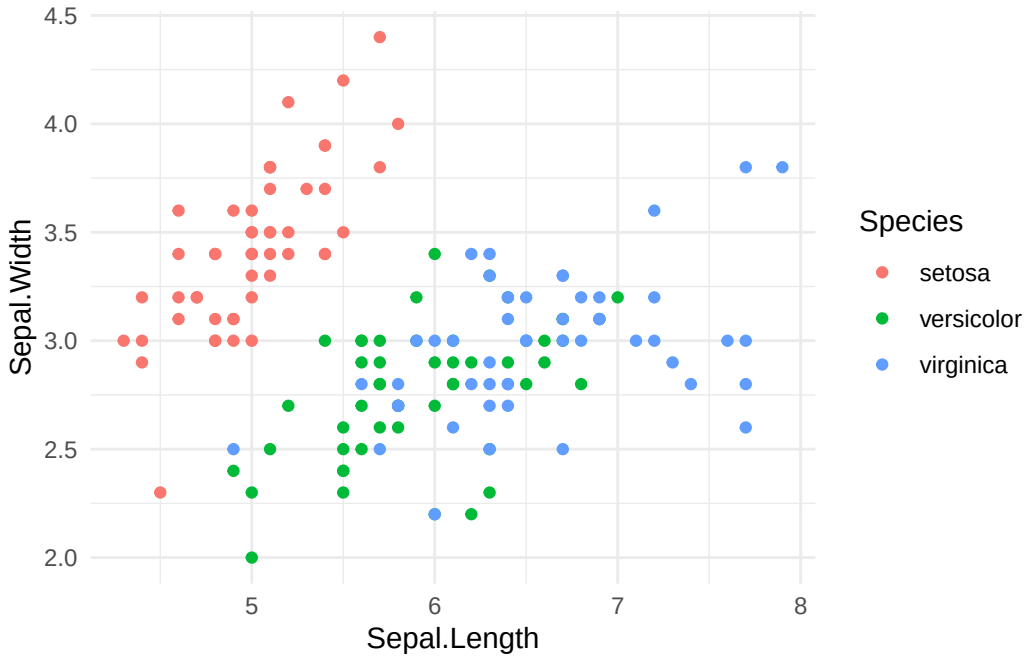
```r
# fit a linear regression model
model <- lm(mpg ~ wt, data = mtcars)
# print the model summary
summary(model)
```

```
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:

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

Thanks!