

# Quarto Presentations with Reveal.js

# Hello, There

Reveal.js enables you to create beautiful interactive slide decks using HTML. This presentation will show you examples of what it can do, including:

- Presenting code and LaTeX equations
- Including computations in slide output
- Image, video, and iframe backgrounds
- Fancy transitions and animations
- Printing to PDF

# Pretty Code

- Over 20 syntax highlighting themes available
- Default theme optimized for accessibility

```
1 # Define a server for the Shiny app
2 function(input, output) {
3
4   # Fill in the spot we created for a plot
5   output$phonePlot <- renderPlot{
6     # Render a barplot
7   })
8 }
```

# Code Animations

- Over 20 syntax highlighting themes available
- Default theme optimized for accessibility

```
1 # Define a server for the Shiny app
2 function(input, output) {
3
4   # Fill in the spot we created for a plot
5   output$phonePlot <- renderPlot({
6     # Render a barplot
7     barplot(WorldPhones[,input$region]*1000,
8             main=input$region,
9             ylab="Number of Telephones",
10            xlab="Year")
11   })
12 }
```

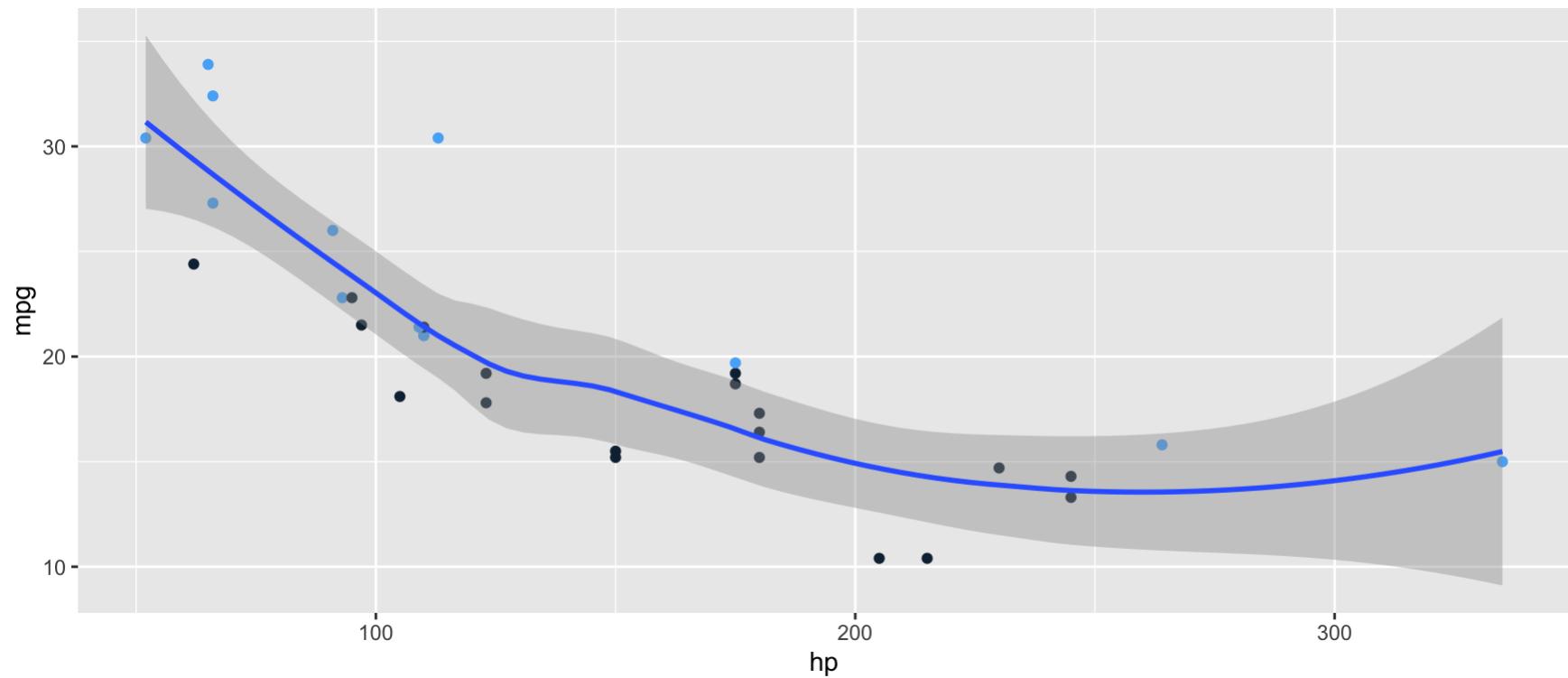
# Line Highlighting

- Highlight specific lines for emphasis
- Incrementally highlight additional lines

```
1 import numpy as np
2 import matplotlib.pyplot as plt
3
4 r = np.arange(0, 2, 0.01)
5 theta = 2 * np.pi * r
6 fig, ax = plt.subplots(subplot_kw={'projection': 'polar'})
7 ax.plot(theta, r)
8 ax.set_rticks([0.5, 1, 1.5, 2])
9 ax.grid(True)
10 plt.show()
```

# Executable Code

```
1 library(ggplot2)
2 ggplot(mtcars, aes(hp, mpg, color = am)) +
3   geom_point() + geom_smooth(formula = y ~ x, method = "loess")
```



# LaTeX Equations

MathJax rendering of equations to HTML

```
1 \begin{gather*}
2 a_1=b_1+c_1\\
3 a_2=b_2+c_2-d_2+e_2
4 \end{gather*}
5
6 \begin{align}
7 a_{11}&=b_{11}&
8 a_{12}&=b_{12}\\
9 a_{21}&=b_{21}&
10 a_{22}&=b_{22}+c_{22}
11 \end{align}
```

$$a_1 = b_1 + c_1$$

$$a_2 = b_2 + c_2 - d_2 +$$

$$a_{11} = b_{11} \qquad a_{12} =$$

$$a_{21} = b_{21} \qquad a_{22} =$$

# Column Layout

Arrange content into columns of varying widths:

## Motor Trend Car Road Tests

The data was extracted from the 1974 Motor Trend US magazine, and comprises fuel consumption and 10 aspects of automobile design and performance for 32 automobiles.

	mpg	cyl	disp	hp	wt
Mazda RX4	21.0	6	160	110	2.620
Mazda RX4 Wag	21.0	6	160	110	2.875
Datsun 710	22.8	4	108	93	2.320
Hornet 4 Drive	21.4	6	258	110	3.215
Hornet Sportabout	18.7	8	360	175	3.440
Valiant	18.1	6	225	105	3.460

# Incremental Lists

Lists can optionally be displayed incrementally:

- First item
- Second item
- Third item

Insert pauses to make other types of content display incrementally.

# Fragments

Incremental text display and animation with fragments:

Fade in

Slide up while fading in

Slide left while fading in

Fade in then semi out

~~Strike~~

Highlight red

# Slide Backgrounds

Set the `background` attribute on a slide to change the background color (all CSS color formats are supported).

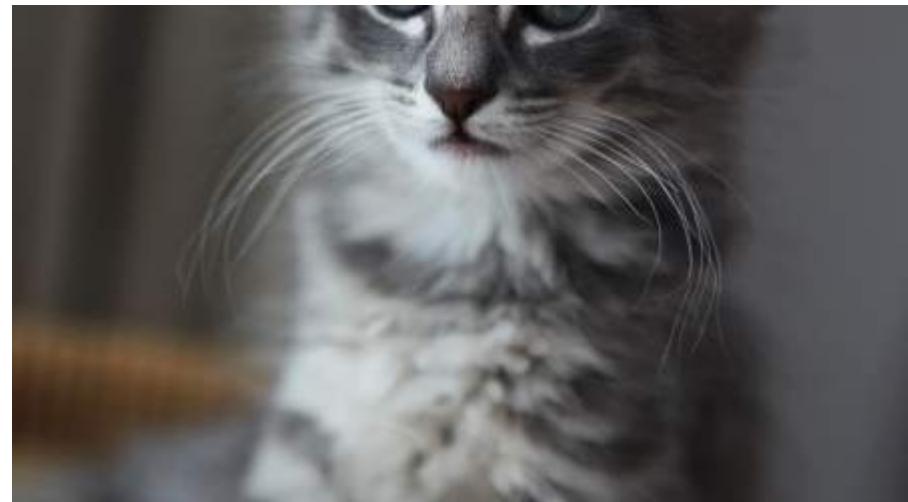
Different background transitions are available via the `background-transition` option.

# Media Backgrounds

You can also use the following as a slide background:

- An image: `background-image`
- A video: `background-video`
- An iframe: `background-iframe`

# Position Elements Anywhere



Learn more: [Print to PDF](#)

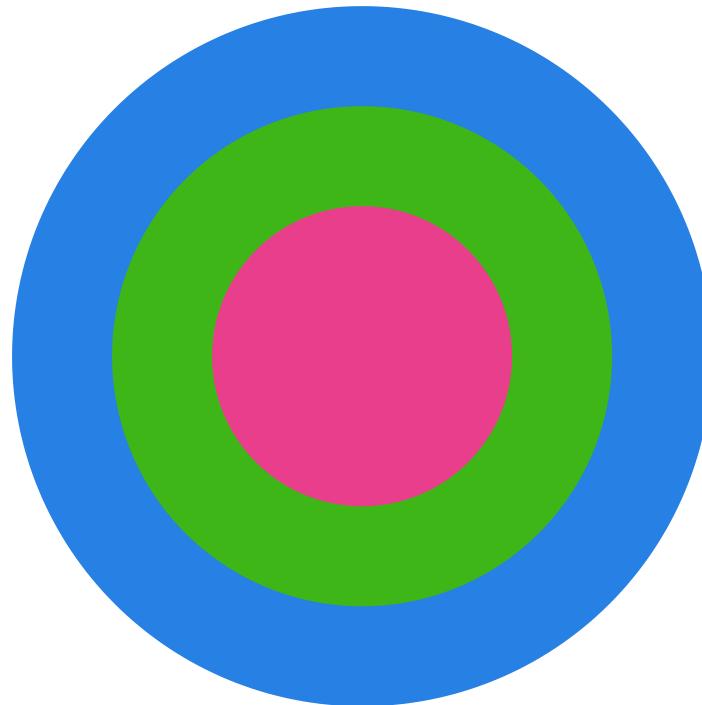
# Auto-Animate

Automatically animate matching elements across slides with Auto-Animate.



# Auto-Animate

Automatically animate matching elements across slides with Auto-Animate.



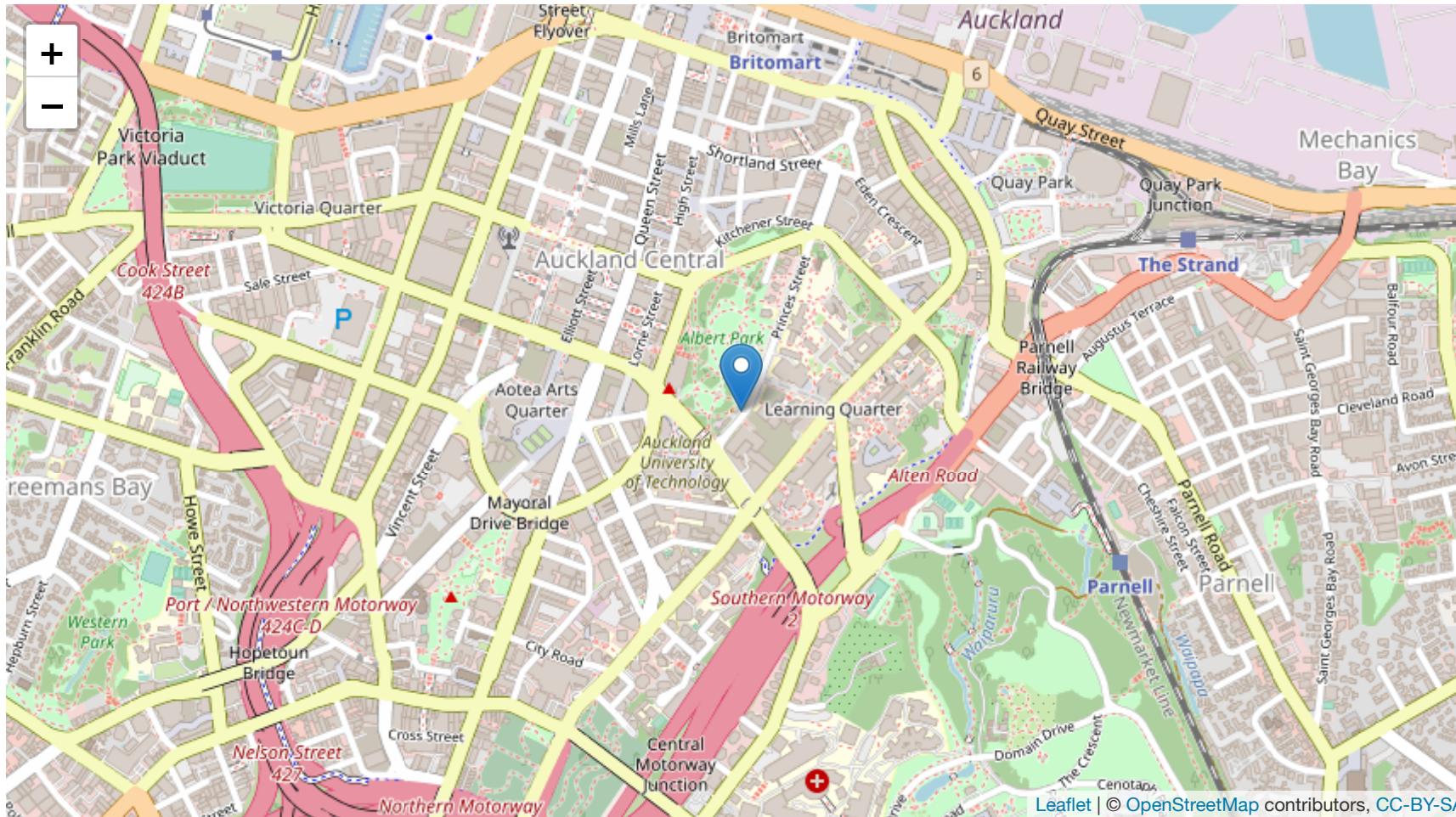
# Slide Transitions

The next couple of slides will transition using the `slide` transition

Transition	Description
<code>none</code>	No transition (default, switch instantly)
<code>fade</code>	Cross fade
<code>slide</code>	Slide horizontally
<code>convex</code>	Slide at a convex angle
<code>concave</code>	Slide at a concave angle
<code>zoom</code>	Scale the incoming slide so it grows in from the center of the screen.

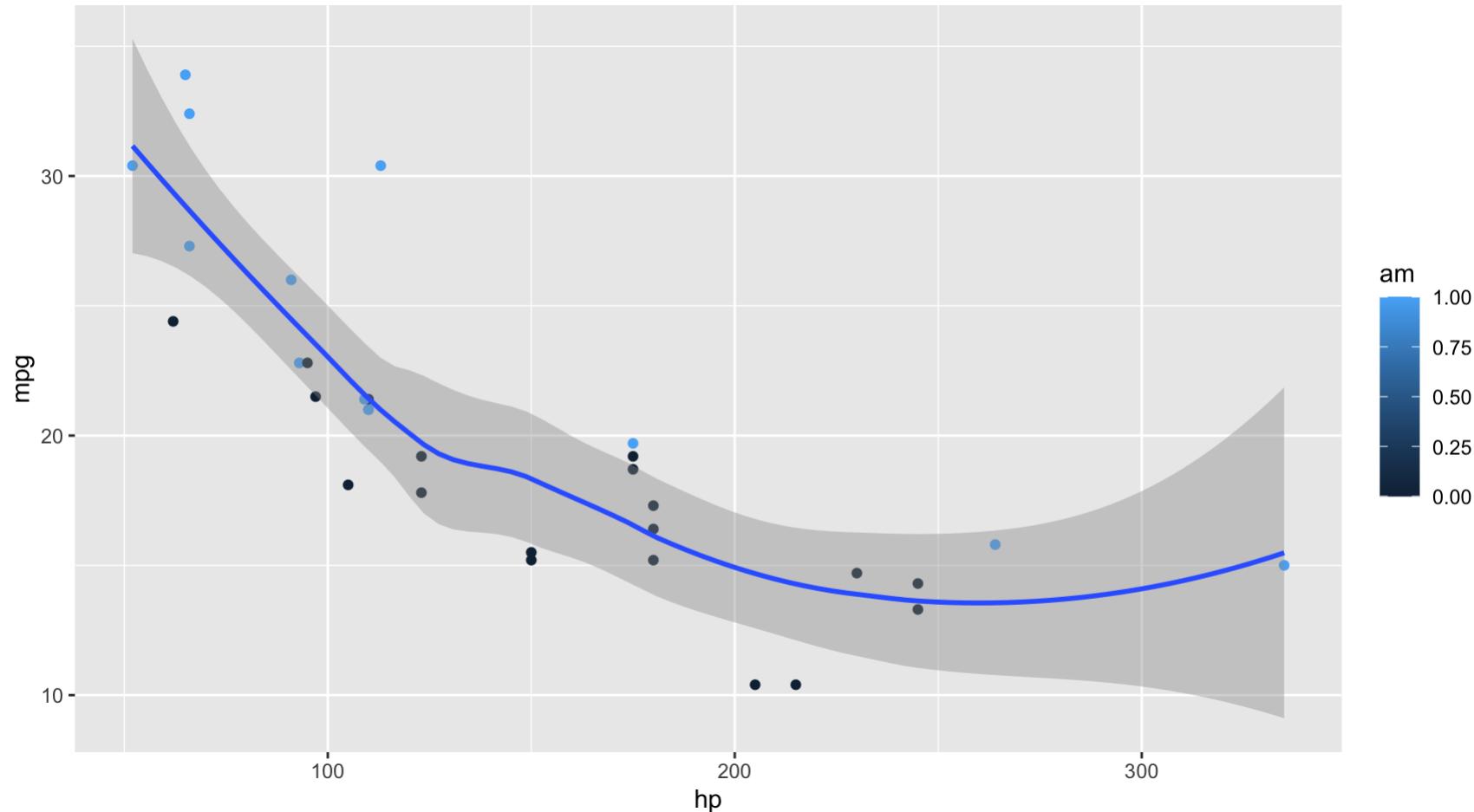
# Interactive Widgets

Interactivity with Jupyter Widgets and htmlwidgets for R



# Tabsets

## Plot Data



Learn more: [Print to PDF](#)

# Themes

## 10 Built-in Themes (or [create your own](#))

9 / 16

### INCREMENTAL LISTS

Lists can optionally be displayed incrementally:

- First item
- Second item
- Third item

< >

Insert pauses to make other types of content display incrementally.

☰

Learn more: [Incremental Lists](#)

quarto®

9 / 16

### INCREMENTAL LISTS

Lists can optionally be displayed incrementally:

- First item
- Second item
- Third item

< >

Insert pauses to make other types of content display incrementally.

☰

Learn more: [Incremental Lists](#)

quarto®

# Easy Navigation

Quickly jump to other parts of your presentation

- ≡ Use the navigation button at the bottom left of the slide to go to other slides and access presentation tools.

You can also press **m** to toggle the menu open and closed.

# Chalkboard

Free form drawing and slide annotations

-  Use the chalkboard button at the bottom left of the slide to toggle the chalkboard.
-  Use the notes canvas button at the bottom left of the slide to toggle drawing on top of the current slide.

You can also press **b** to toggle the chalkboard or **c** to toggle the notes canvas.

# Speaker View

Press **s** (or use the presentation menu) to open speaker view

The image shows a speaker view interface for a presentation. On the left, a large slide area displays the title "Quarto Presentations with Reveal.js" in bold black font. Below the title is a URL "https://quarto.org" and the Quarto logo. At the top right of the slide area, it says "1 / 23". On the right side, there's a navigation bar with tabs: "Upcoming", "There", and "Layout: Default". Below the tabs, a text block explains that Reveal.js enables creating beautiful interactive slide decks using HTML, listing features like presenting code, LaTeX equations, computations, images, fancy transitions, and printing to PDF. It also links to "Quarto Presentations" and the Quarto logo. At the bottom right of the slide area, it says "TIME 00:01:01 09:33 AM".

Learn more: [Print to PDF](#)

# Print to PDF

Press **e** to toggle print view, then print to PDF using Chrome.  
Here's a PDF version of this presentation:



Learn more: [Print to PDF](#)

# And More...

- [Touch](#) optimized (presentations look great on mobile, swipe to navigate slides)
- [Footer & Logo](#) (optionally specify custom footer per-slide)
- [Auto-Slide](#) (step through slides automatically, without any user input)
- [Multiplex](#) (allows your audience to follow the slides of the presentation you are controlling on their own phone, tablet or laptop).