

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  }
```

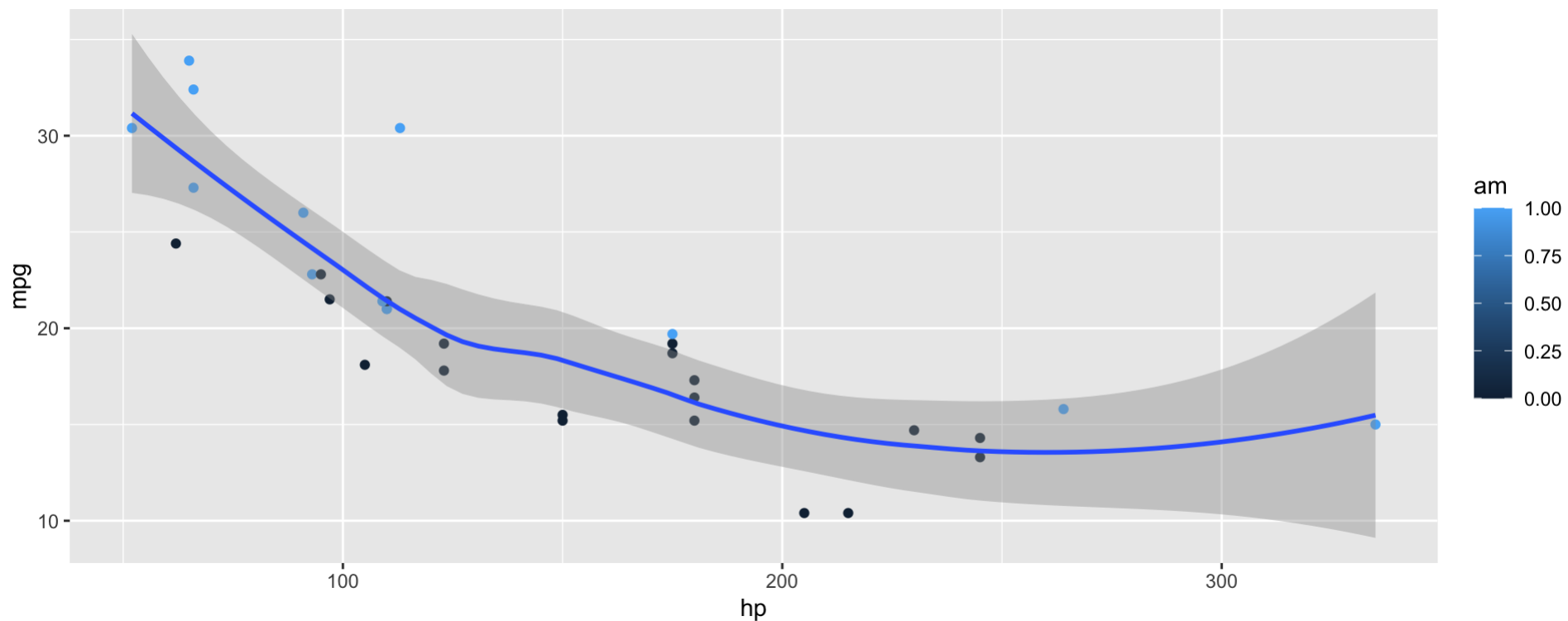
Line Highlighting

- 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}

```

$$a_1 = b_1 + c_1$$

$$a_2 = b_2 + c_2 - d_2 + e_2$$

$$a_{11} = b_{11}$$

$$a_{12} = b_{12}$$

$$a_{21} = b_{21}$$

$$a_{22} = b_{22} + c_{22}$$

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



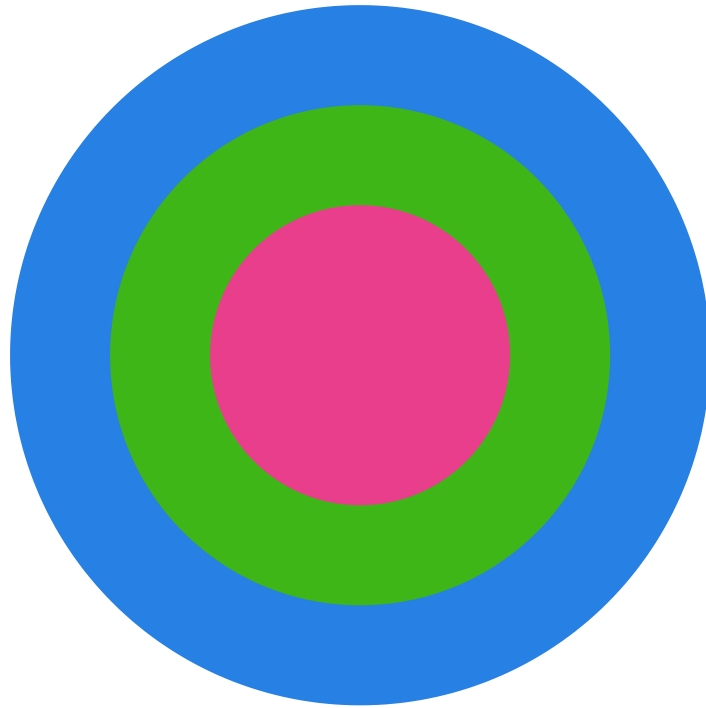
Auto-Animate

Automatically animate matching elements across slides with Auto-Animate.



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Slide Transitions

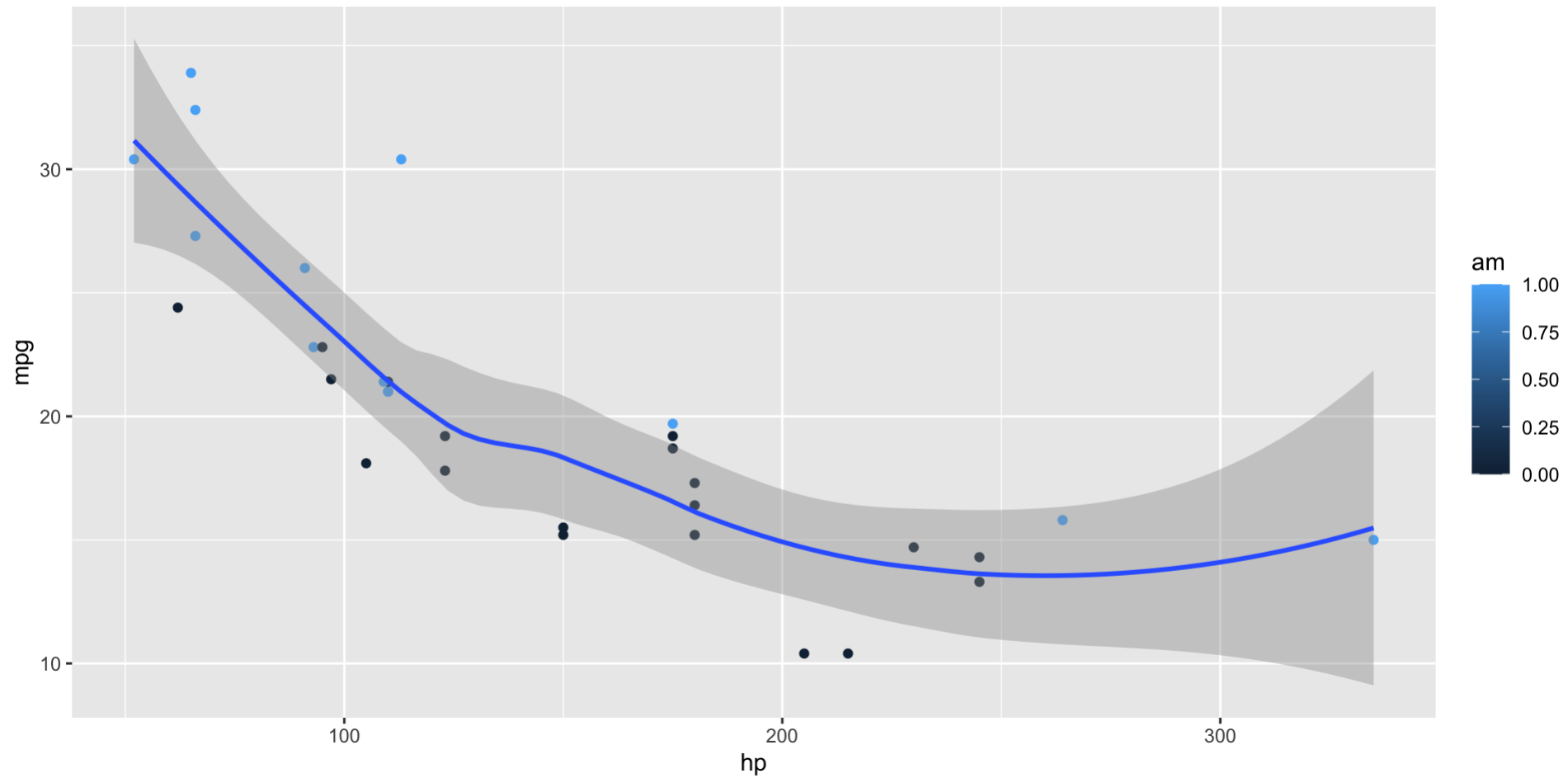
The next few slides will transition using the `slide` transition

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.

Tabsets

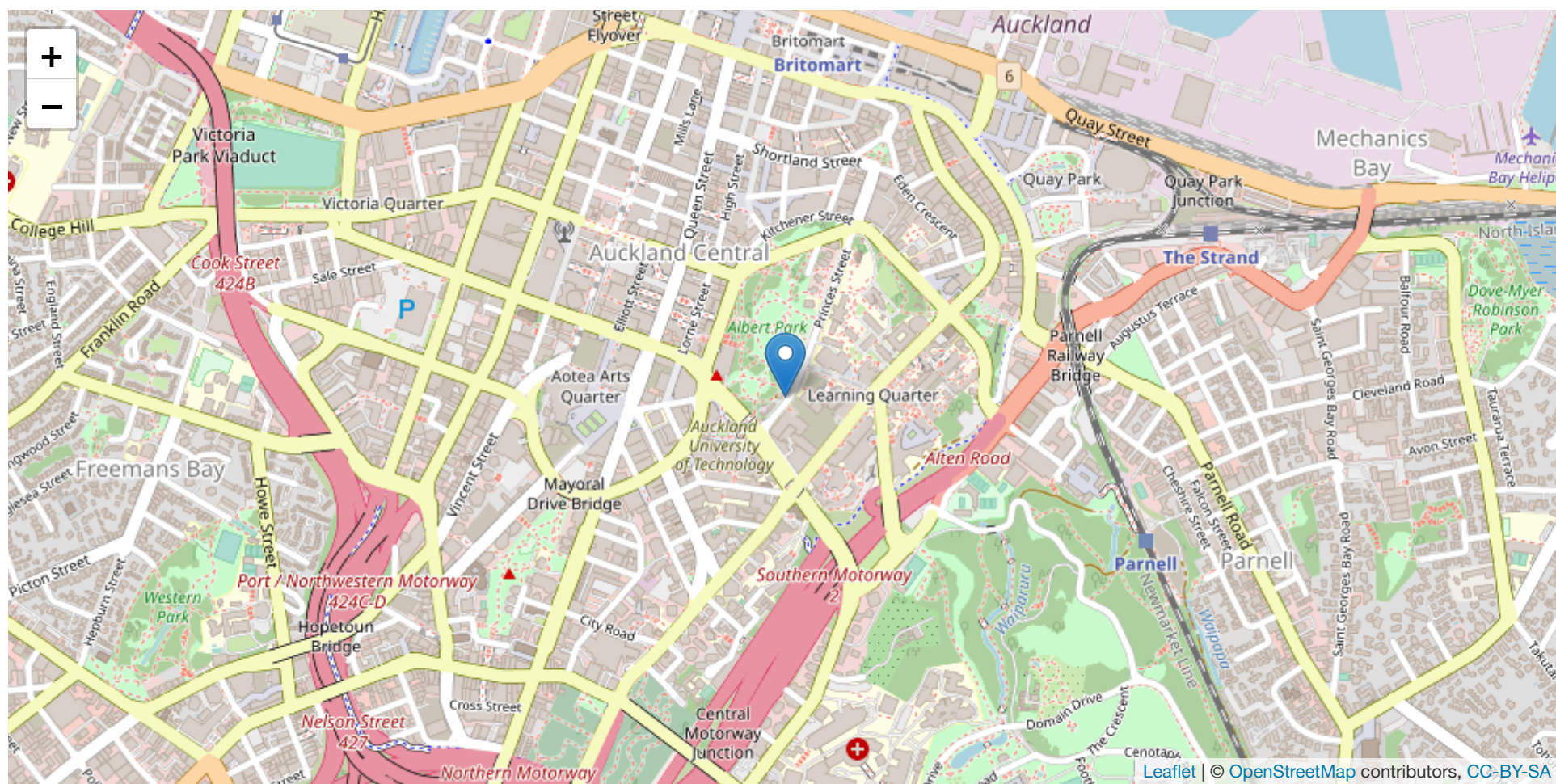
Plot

Data



Interactive Presentations

Interactive plots with Jupyter widgets and htmlwidgets



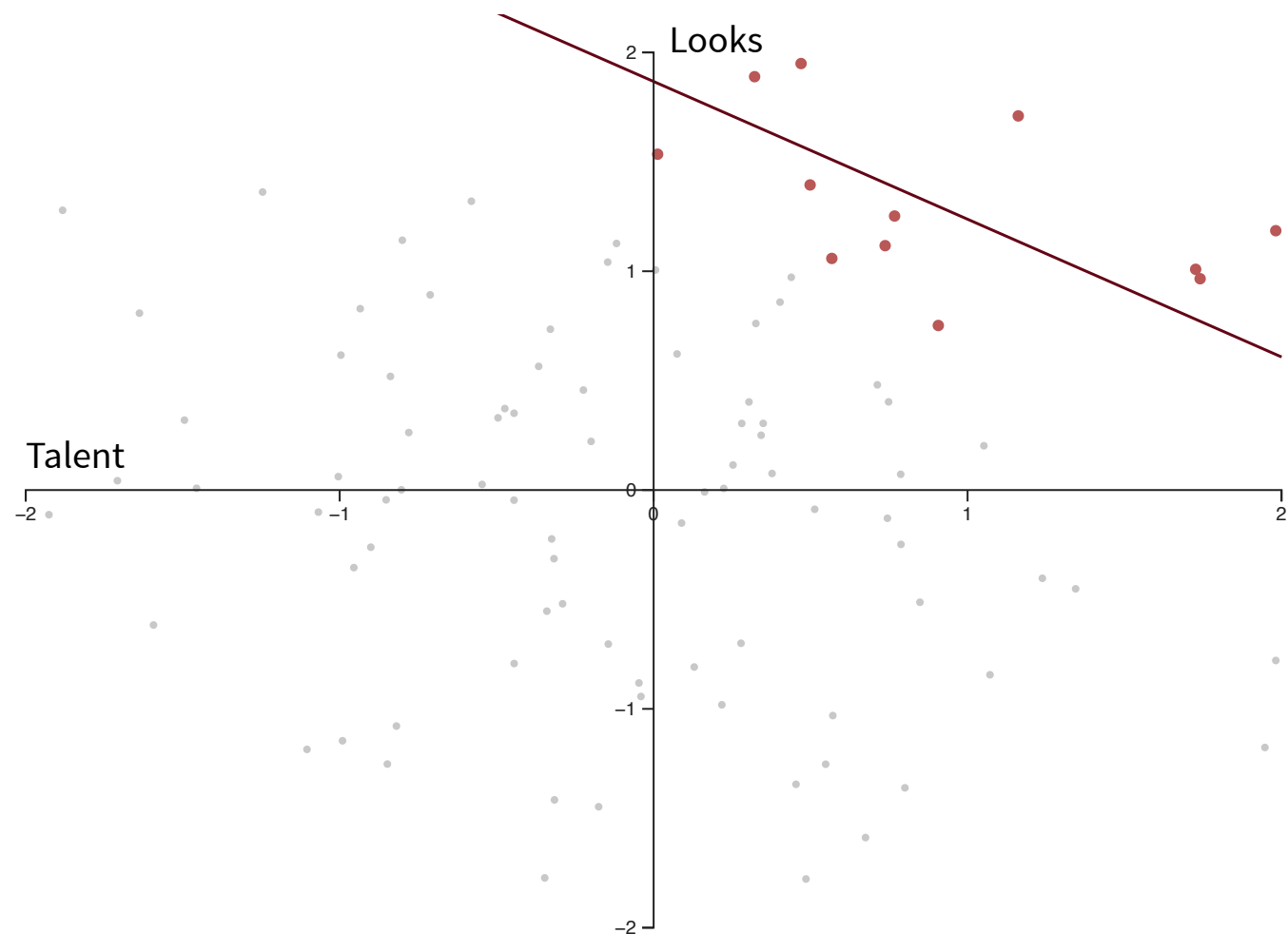
Interactive Presentations

Embedded applications with Observable and Shiny

talent weight
0.7

looks weight
0.7

min fame
1



Preview Links

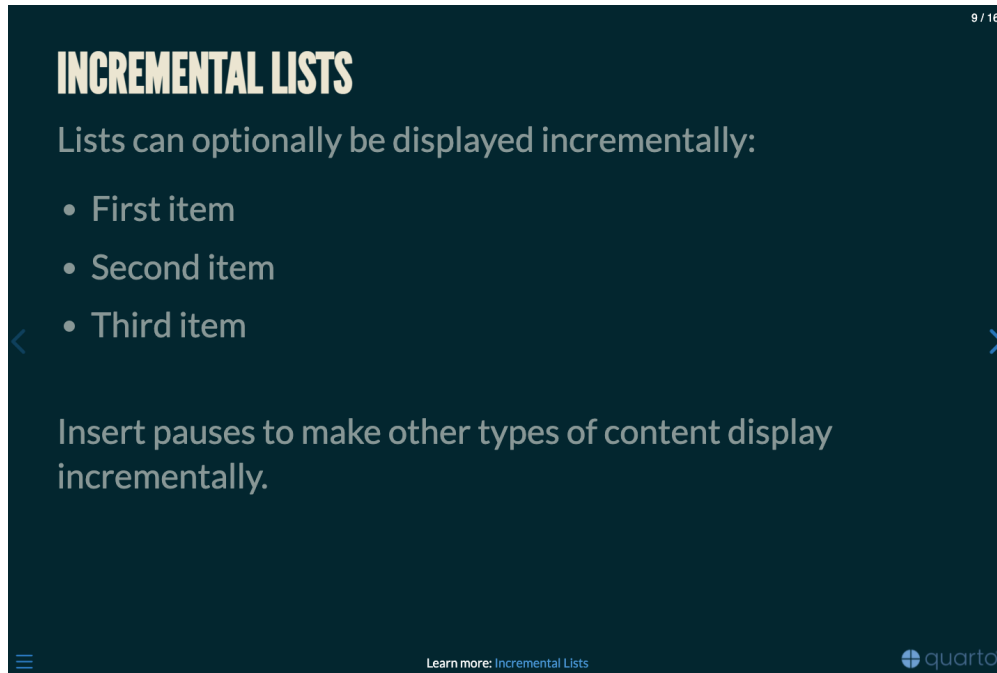
Navigate to hyperlinks without disrupting the flow of your presentation.

Use the `preview-links` option to open links in an iframe on top of your slides. Try clicking the link below for a demonstration:

[Matplotlib: Visualization with Python](https://quarto.org)

Themes

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



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INCREMENTAL LISTS

Lists can optionally be displayed incrementally:

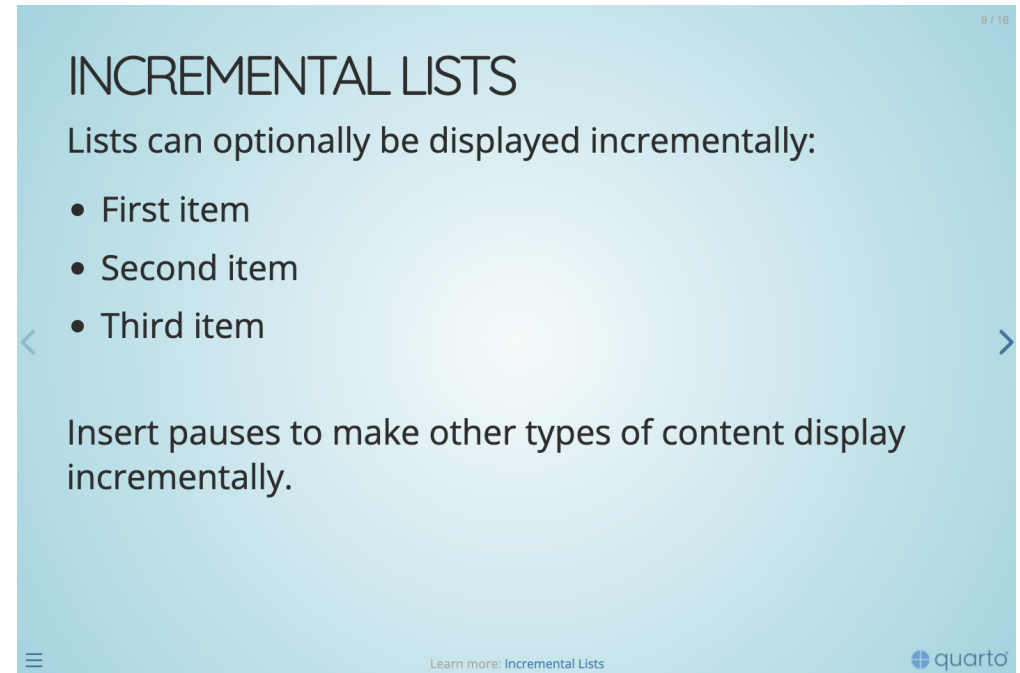
- First item
- Second item
- Third item

Insert pauses to make other types of content display incrementally.

Learn more: [Incremental Lists](#)

quarto

This image shows a dark-themed presentation slide. The title 'INCREMENTAL LISTS' is in a light yellow font. The text 'Lists can optionally be displayed incrementally:' is in a light gray font. Below it is a bulleted list with three items: 'First item', 'Second item', and 'Third item'. Further down, the text 'Insert pauses to make other types of content display incrementally.' is shown. At the bottom, there is a small menu icon, the text 'Learn more: Incremental Lists' with a link, and the 'quarto' logo.



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quarto

This image shows a light-themed presentation slide. The title 'INCREMENTAL LISTS' is in a dark gray font. The text 'Lists can optionally be displayed incrementally:' is in a dark gray font. Below it is a bulleted list with three items: 'First item', 'Second item', and 'Third item'. Further down, the text 'Insert pauses to make other types of content display incrementally.' is shown. At the bottom, there is a small menu icon, the text 'Learn more: Incremental Lists' with a link, and the 'quarto' logo.

Easy Navigation

Quickly jump to other parts of your presentation

- ≡ Toggle the slide menu with the menu button (bottom left of 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.

Point of View

Press **o** to toggle overview mode:

Cross References

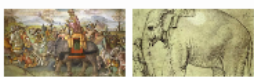


Figure 1: Famous Elephants

See Fig. 1.36 examples. In particular, Fig. 1.61.

Cross reference figures, tables, equations, sections, theorems, etc.

Full markdown: <https://quarto.org/docs/authoring/cross-references.html#subfigures>

Full layout: <https://quarto.org/docs/authoring/cross-references.html#captions>


Advanced page layout

Advanced page layout features inspired by Tufte, Distill, and Hugo Prose.

- Figures and tables that span the entire page
- Use of margin for figures, equations, captions, asides, footnotes, and citations
- Responsive show/hide of site navigation and TOC
- Examples: [HTML](#), [PDF](#)


Figure/layout Panels

- Arbitrary layout of figures and tables (similar to [compact](#) and [patchwork](#))
- Also works for code chunks that produce figures and tables: <https://quarto.org/docs/authoring/figures-and-tables.html#figures>
- Short-hand syntax: `layout=compact` or `layout=figure`, available for simple cases.
- Can target arbitrary content including equations, bullet lists, etc.



Callouts

Works in HTML, PDF, MS Word, and ePub output.



Quarto Websites

- Arbitrary content depth / organization
- Multi-level navigation (navbar / sidebar / hybrid)
- Full text search (client side or Algolia)
- Freezing computational output
- Example: <https://quarto.org>

Quarto

- Interactive
- Stylable
- Full
- Extensible

Hold down the **Alt** key (or **Ctrl** in Linux) and click on any element to zoom towards it—try it now on this slide.

Speaker View

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

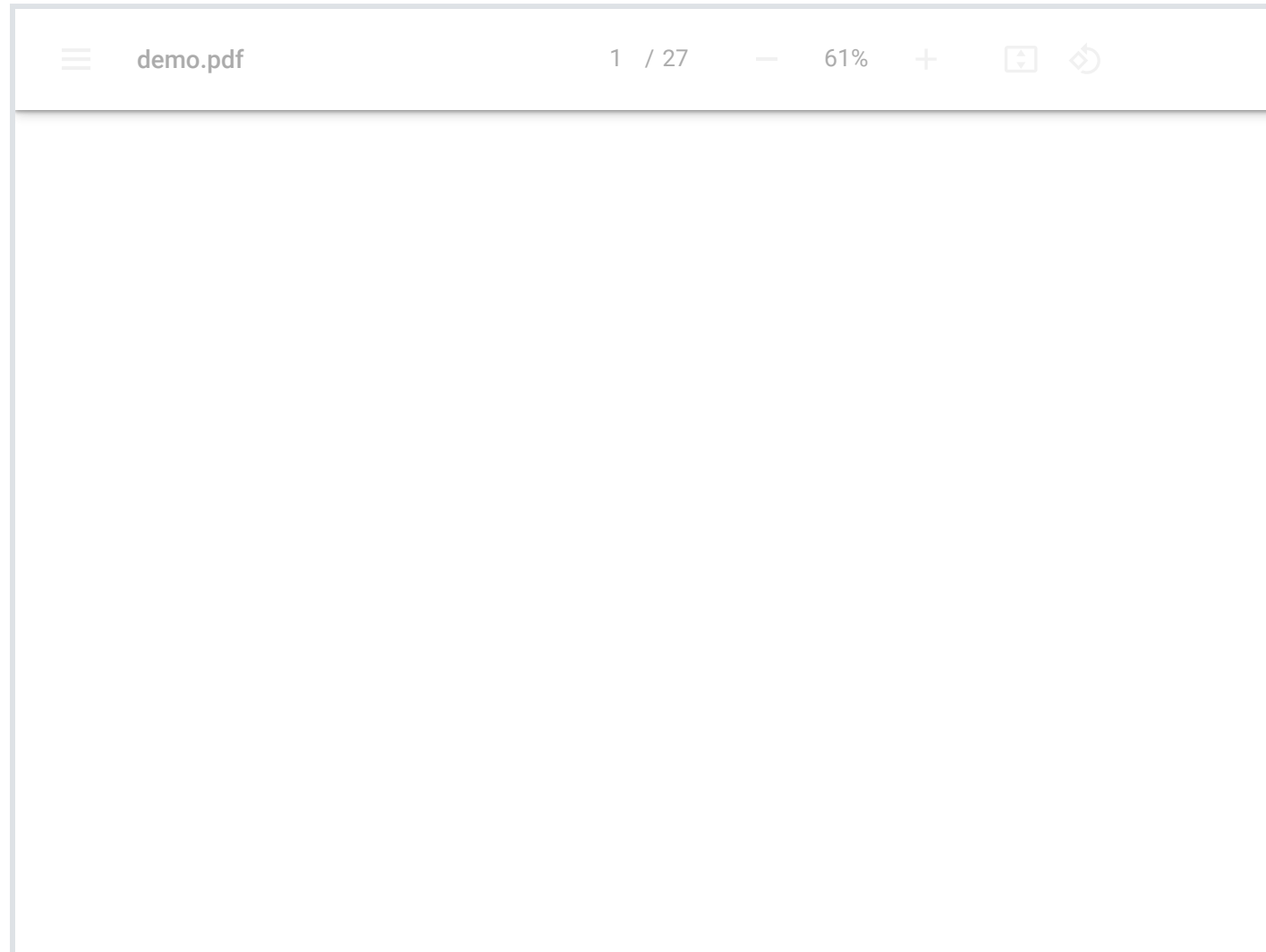
The screenshot displays the Quarto Speaker View interface. The main slide area on the left contains the title "Quarto Presentations with Reveal.js" in a large, bold, black font. In the top right corner of this area, it shows "1 / 23". A blue chevron icon points to the right. The bottom left corner has a hamburger menu icon, and the bottom right corner shows the URL "https://quarto.org" and the Quarto logo.

The right sidebar is divided into two sections. The top section, titled "Upcoming, There", has a "Layout: Default" button. It contains a paragraph: "Reveal.js enables you to create beautiful interactive slide decks using HTML. This presentation will show you examples of what it can do, including:" followed by a bulleted list: "• Presenting code and LaTeX equations", "• Including computations in slide output", "• Image, video, and iframe backgrounds", "• Fancy transitions and animations", and "• Printing to PDF". Below the list is a link "Learn more: Quarto Presentations" and the Quarto logo.

The bottom section of the sidebar is titled "TIME" and displays two time values: "00:01:01" and "09:33 AM".

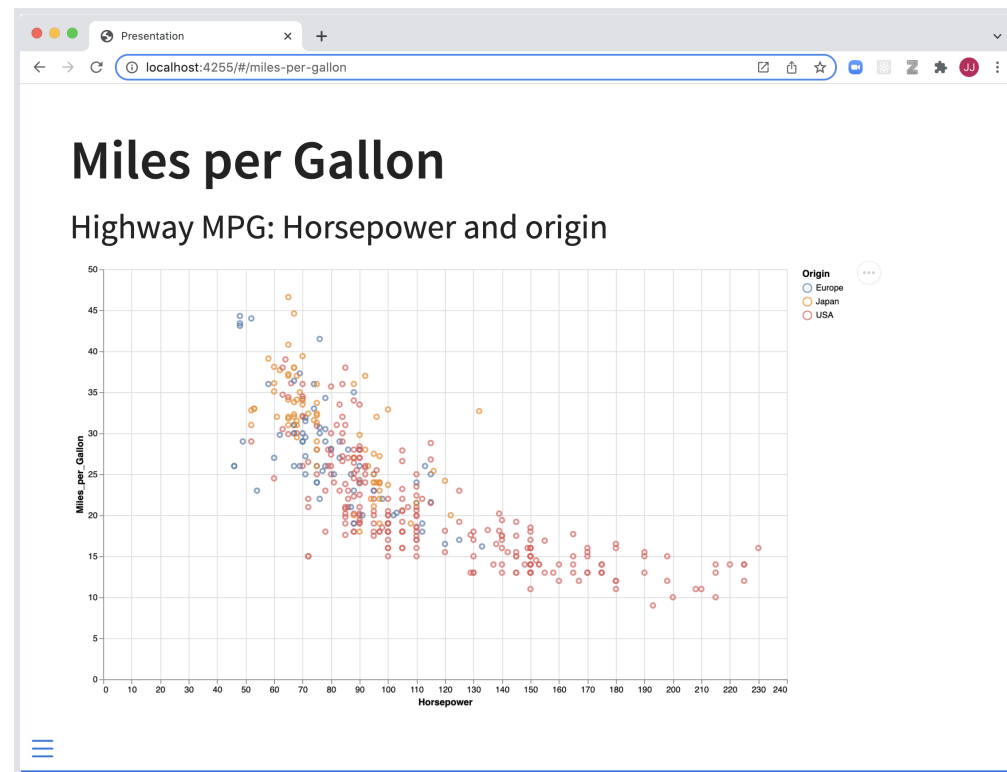
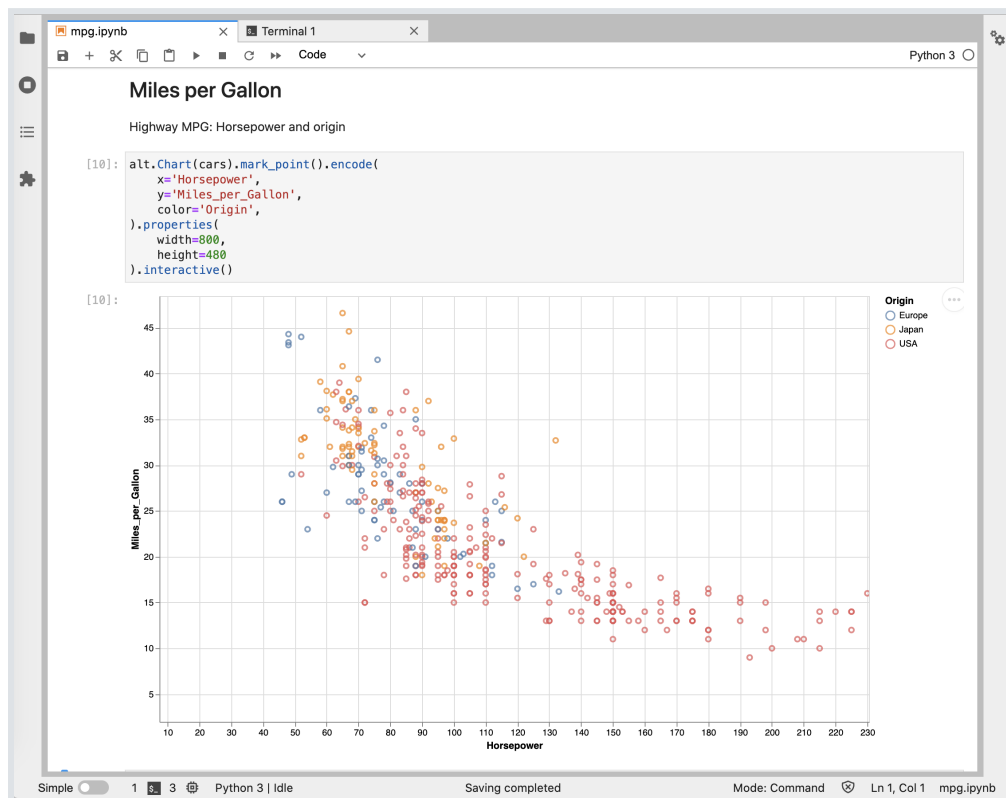
Print to PDF

Print presentations to PDF using Chrome. Here's a PDF version of this demo presentation:



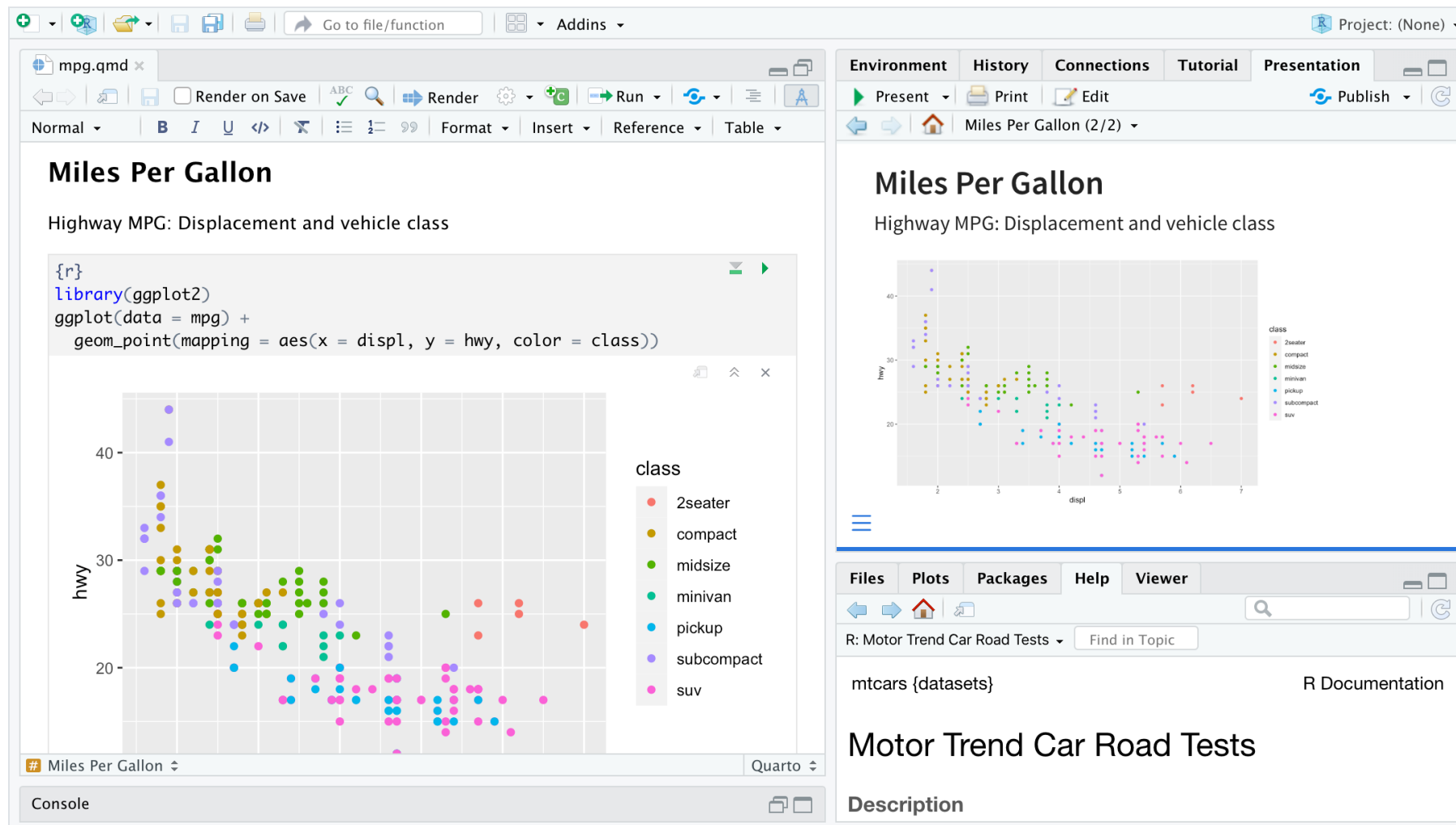
Author in a Notebook or Text Editor

Live side-by-side preview for Jupyter, VS Code, etc.



Author in RStudio

Integrated presentation preview pane



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).