

# Quarto with Reveal.js

## Brief Introduction

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# What is Quarto?

## Welcome to Quarto

### An open-source scientific and technical publishing system

- Author using [Jupyter](#) notebooks or with plain text markdown in your favorite editor.
- Create dynamic content with [Python](#), [R](#), [Julia](#), and [Observable](#).
- Publish reproducible, production quality articles, presentations, dashboards, websites, blogs, and books in HTML, PDF, MS Word, ePub, and more.
- Share knowledge and insights organization-wide by publishing to [Posit Connect](#), [Confluence](#), or other publishing systems.
- Write using [Pandoc](#) markdown, including equations, citations, crossrefs, figure panels, callouts, advanced layout, and more.

**Analyze. Share. Reproduce. You have a story to tell with data—tell it with Quarto.**

# Quarto vs xaringan

- ▶ What is the difference?
  - ▶ Quarto uses reveal.js to generate html slides
  - ▶ xaringan uses remark.js to generate html slides
- ▶ Quarto has *most* of the features of xaringan, but more flexibility and more current development
  - ▶ Integration with VS Code (visual editor, preview, etc.)
  - ▶ Output options include html, beamer (LaTeX/PDF), pptx

# Slide Formatting

```
---  
title: "Habits"  
author: "John Doe"  
format: revealjs  
---
```

# In the morning

## Getting up

- Turn off alarm
- Get out of bed

## Breakfast

- Eat eggs
- Drink coffee

# In the evening

# Header for these Slides

```
---
title: 'Quarto with Reveal.js'
subtitle: 'Brief Introduction'
format:
  clean-revealjs:
    embed-resources: true
    incremental: true
    html-math-method: katex
    scrollable: true
    code-overflow: wrap
    title-slide-attributes:
      data-background-image: UMN9_M-1line-blk.png
      data-background-size: 25%
      data-background-position: 4% 97%
  beamer: default
  pptx: default
author:
  - name: Matt Braaksma
    email: braak014@umn.edu
```

## Executable Code

```
# Import data with R
library(tigris)
library(ggplot2)
mn_counties <- counties("MN")
mn_roads <- primary_secondary_roads("MN")
```

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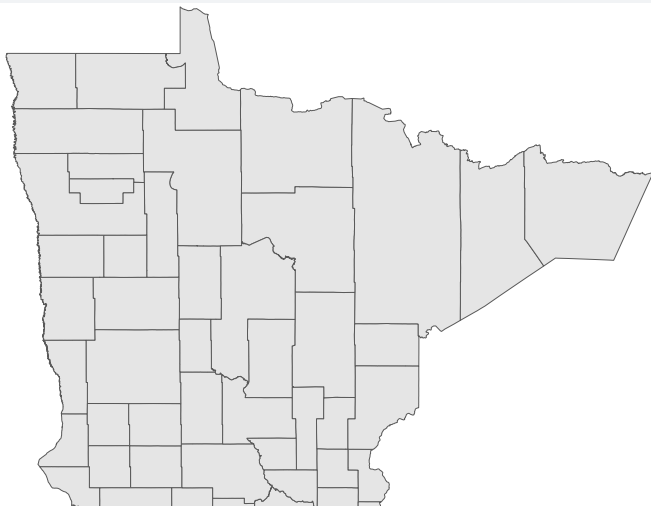
```
# Import data with Python
import pygris

counties = pygris.counties(state = "MN", cb = True, cache = True)
roads = pygris.primary_secondary_roads(state = "MN", cache = True)
```

# Figures

## Counties

```
ggplot(mn_counties) +  
  geom_sf() +  
  theme_void()
```





# Python Code

## Counties

```
counties.explore()
```

## Roads

```
roads.explore()
```

# Write Equations with LaTeX

The Wald estimator:

# Write Equations with LaTeX

The Wald estimator:

$$\hat{\delta}_{IV,wald} \equiv \frac{E_N[y_i|z_i = 1] - E_N[y_i|z_i = 0]}{E_N[d_i|z_i = 1] - E_N[d_i|z_i = 0]}$$

## Extensions: roughnotation

Use the `.rn` to class to specify what elements should be highlighted.

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Use the `.rn` to class to specify what elements should be highlighted.

Underline

Box

Circle

Highlight

Strike-Through

Crossed-off

## Render to other formats

```
quarto render apec_seminar_quarto.qmd --to beamer  
quarto render apec_seminar_quarto.qmd --to pptx
```

# Resources for Learning More

- ▶ Quarto
  - ▶ Get Started with Quarto
  - ▶ Revealjs Guide
  - ▶ Revealjs Extensions
- ▶ Quarto and xaringan
  - ▶ *With Quarto Coming, is R Markdown Going Away? No.* - Yihui Xie
  - ▶ *How to transition from xaringan to Quarto revealjs* - Emi Tanaka