

# **Introduction to Quarto and Zotero Using RStudio**

Ohio Alliance for Population Health Shelby Level

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# Preface

This is a brief guide to using Quarto and Zotero with RStudio!

# 1 Introduction

## 1.1 Statistical Application R

R is an open-source programming language for statistical computing and graphics. It is used by statisticians, researchers, and analysts for data analysis, visualization, and statistical modeling.

For more information about R click [HERE](#).

## 1.2 RStudio

RStudio is an integrated development environment designed for R, which is used for statistical computing and data analysis. RStudio provides a user-friendly interface that enhances the productivity of R users.

For more information about RStudio click [HERE](#).

## 1.3 Reference Management Application Zotero

Zotero is a free and open-source reference management software designed to help researchers, students, and academics organize, manage, and cite bibliographic references and sources in their research projects. Zotero simplifies the process of collecting, organizing, and citing sources.

For more information about Zotero click [HERE](#).

## 1.4 Quarto R Package

Quarto is an open-source publishing system built for creating reproducible presentations and reports. It allows use of code from programming languages, like R and Python directly in the document. This integration allows for the direct inclusion of data analysis, graphs and tables in the output document, making Quarto useful for statistical analysis, and academic research.

For more information about Quarto click [HERE](#)

**Part I**

**Installation Instructions**

## 2 Mac Installation Instructions

### 2.1 R and RStudio

1. Click [HERE](#).
2. Click the blue “Download and Install R” button on the left.
3. Select the blue “Download R for MacOS.”
4. If you don’t know what chip your Mac has click the Apple logo in the top left corner of your menu bar (top of your screen) and select “About this Mac.” Chip will either be M1/M2 or Intel.
5. Under the “Latest Release:” section find the type of Mac you have Apple Silicon (M1/M2) or older Intel and click the blue “R-XXXX.pkg” below it.
6. Install (drag) the file from your downloads folder into your applications folder.
7. Return to [THIS PAGE](#).
8. Click the blue “Download RStudio Desktop for MacOS 12+” button on the right.
9. Install (drag) the file from your downloads folder into your applications folder.

### 2.2 Zotero

1. Click [HERE](#).
2. Click the red download button.
3. Click the blue download button under “Zotero for Mac.”
4. Install (drag) the file from your downloads folder into your applications folder.
5. Optional: click the blue “Install Browser Connector” button under “Zotero Connector” if you want the browser plugin to save articles from your browser to Zotero.



## 3 Windows Installation Instructions

### 3.1 R and RStudio

1. Click [HERE](#).
2. Click the blue “Download and Install R” button on the left.
3. Under the base subdirectory click the blue “install R for the first time.”
4. Select the blue “Download R-X.X.X for Windows” at the top of the screen.
5. Install the file from your downloads folder.
6. Return to [THIS PAGE](#).
7. Click the blue “Download RStudio Desktop for Windows 10/11” button on the right.
8. Install the file from your downloads folder.

### 3.2 Zotero

1. Click [HERE](#).
2. Click the red download button.
3. Click the blue download button under “Zotero for Windows.”
4. Install the file from your downloads folder.
5. Optional: click the blue “Install Browser Connector” button under “Zotero Connector” if you want the browser plugin to save articles from your browser to Zotero.

## **Part II**

# **Document Examples**

## 4 HTML

Click [HERE](#) for an example HTML document

### 4.1 Example YAML Statement

```
---
title: "Title of Document"
subtitle: "Subtitle of Document"
author: "Ohio Alliance for Population Health <br> Your Name"
date: "`r format(Sys.time(), '%B %d, %Y')`"
format:
  html:
    toc: true
    toc-depth:
    number-sections: false
    toc-location: left
    self-contained: true
mainfont: "Georgia"
bibliography: references.bib
csl: "APA Numeric Superscript Style.csl"
engine: knitr
---
```

### 4.2 Create Your Own

In the [Document Templates](#) folder download the file `html-template.qmd` and follow the instructions.

### 4.3 More Information

[HERE](#) are even more examples of what you can do with an HTML document!

## 5 Word

Click [HERE](#) for an example Word document

### 5.1 Example YAML Statement

```
---
title: "Title of Document"
subtitle: "Subtitle of Document"
author: "Ohio Alliance for Population Health"
date: "`r format(Sys.time(), '%B %d, %Y')`"
format:
  docx:
    toc: true
    toc-depth: 3
    number-sections: true
    highlight-style: github
    prefer-html: true
    reference-doc: oaph-reference-doc.docx
mainfont: "Georgia"
bibliography: references.bib
csl: APA Numeric Superscript Style.csl
engine: knitr
---
```

### 5.2 Create Your Own

1. In the [Document Templates](#) folder download the file word-template.qmd
2. In the [Branding Items](#) download the file oaph-reference-doc.docx (to the same location/folder on your computer as the file above) and follow the instructions.

## 5.3 More Information

[HERE](#) are even more examples of what you can do with a Word document!

## 6 Presentation Slides

Click [HERE](#) for an example of a slide presentation.

### 6.1 Example YAML Statement

```
---
title: "Title of Document"
subtitle: "Subtitle of Document"
author: "Ohio Alliance for Population Health <br> Your Name"
format:
  revealjs:
    logo: 'oaph-logo.png'
    footer: '[www.ohio.edu/chsp/alliance] (https://www.ohio.edu/chsp/alliance)'
    css: oaph-theme.css
bibliography: "references.bib"
csl: "APA Numeric Superscript Style.csl"
---
```

### 6.2 Create Your Own

1. In the [Document Templates](#) folder download the file `slide-presentation-template.qmd`
2. In the [Branding Itmes](#) download the file `oaph-theme.css` (to the same location/folder on your computer as the file above) and follow the instructions.

### 6.3 More Information

[HERE](#) are even more examples of what you can do with a slide presentation!

## 7 PowerPoint Slides

Click [HERE](#) for an example PowerPoint presentation.

### 7.1 Example YAML Statement

```
---
title: "Title of Document"
subtitle: "Subtitle of Document"
author: 'Prepared by Ohio Alliance for Population Health'
date: "`r format(Sys.time(), '%B %d, %Y')`"
format:
  pptx:
    logo: 'slide-theme/oaph-logo.png'
    footer: '[www.ohio.edu/chsp/alliance](https://www.ohio.edu/chsp/alliance)'
    reference-doc: oaph-reference-doc.pptx #file comes from OneDrive folder
bibliography: references.bib #will be created by your Zotero collection
csl: APA Numeric Superscript Style.csl #change based on your doc
engine: knitr
---
```

### 7.2 Create Your Own

1. In the [Document Templates](#) folder download the file ppt-template.qmd
2. In the [Branding Items](#) download the file oaph-reference-doc.pptx (to the same location/folder on your computer as the file above) and follow the instructions.

### 7.3 More Information

[HERE](#) are even more examples of what you can do with a PowerPoint presentation!