

Introduction to Quarto and Zotero Using RStudio

Ohio Alliance for Population Health Shelby Level

Table of contents

Preface	4
1 Introduction	5
1.1 Statistical Application R	5
1.2 RStudio	5
1.3 Reference Management Application Zotero	5
1.4 Quarto R Package	6
I Installation Instructions	7
2 Installation Instructions Mac/Apple	8
2.1 R and RStudio	8
2.2 Zotero	8
3 Installation Instructions Windows	9
3.1 R and RStudio	9
3.2 Zotero	9
II Document Examples	10
4 HTML	11
4.1 Example YAML Statement	11
4.2 Create Your Own	11
5 Word	12
5.1 Example YAML Statement	12
5.2 Create Your Own	12
6 Presentation Slides	13
6.1 Example YAML Statement	13
6.2 Create Your Own	13
7 Title of Document	14
8 Slide 1 Title	15

9 Slide 2 - Columns	16
10 Zotero Citations	17
11 Tables	18
11.1 Simple Table	18
11.2 Advanced Table	18
References	19

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 Installation Instructions Mac/Apple

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 Installation Instructions Windows

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.

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

In the [Document Templates](#) folder:

1. Download the file oaph-reference-doc.docx
2. Download the file word-template.qmd (to the same location/folder on your computer as the file above) and follow the instructions.

6 Presentation Slides

Click [HERE](#) for an example Slide Presentation document

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

In the [Document Templates](#) folder:

1. Download the file oaph-reference-doc.docx
2. Download the file slide-presentation-template.qmd (to the same location/folder on your computer as the file above) and follow the instructions.

Add link to beamer presentations

7 Title of Document

Subtitle of Document

8 Slide 1 Title

Hello! This is an example of a slide presentation. Write your text here.

- [More information on the examples provided in these slides](#)
- [More advanced examples of what you can include in your slides](#)
- Key point

Add an Image:



9 Slide 2 - Columns

Add a hyperlink [HERE](#)

Column 1

- **Bold Text**

Column 2

- *Italicized Text*

10 Zotero Citations

Use `{.smaller .scrollable}` after slide/section title if text is too big or runs off slide

Add a Zotero citation here “The Ohio Alliance for Population Health” (2024).

1. Add citation to Zotero library (manually or using browser extension).
2. Copy citation key from info tab in Zotero and paste where you want citation located in document example: @examplecitationkey2024.
3. Right click name of collection on left side of Zotero window and select “Export Collection...”
4. Select Better BibTeX from dropdown menu (no selection under translator options) then click OK.
5. Rename to references.bib and save file to the same folder your .qmd (Quarto) document is in.
6. Go to the [Common Citation Styles](#) folder.
 - If the required citation style for your document is listed download the .csl file and move into the same folder your .qmd (Quarto) document is in. Skip steps 7-10.
 - If your required citation style is not listed in this folder follow steps 7-10 below.
7. Go to [Zotero Citation Repository](#) and find the citation style required for your document (can use search bar).
8. Click the name of the citation style in blue text.
9. When asked “Add citation style to Zotero?” click cancel/no. This should cause a .csl file to download.
10. Move this .csl file to the same folder your .qmd (Quarto) document is in.
11. In your YAML statement at the top of the page change csl: to the name of the citation style .csl file. Example csl: APA Numeric Superscript Style.csl
12. Click the “Render” button at the top of your R editor panel (below file name tab).

11 Tables

11.1 Simple Table

Right	Left	Default	Center
12	12	12	12
123	123	123	123
1	1	1	1

11.2 Advanced Table

Header 1	Header 2	Header 3
Bold	\$1.23	<ul style="list-style-type: none">• bullet 1• bullet 2
<i>Italics</i>	1.23%	<ol style="list-style-type: none">1. step 12. step 2

For more information and instructions on tables click [HERE](#)

References

“The Ohio Alliance for Population Health.” 2024. *Ohio University*. <https://www.ohio.edu/chsp/alliance>.