

**Creating Interactive Reports with Quarto**

**Course Number:** DATA-118  
**Duration:** 1 day

**Overview**

Quarto is an open-source publishing tool that allows data analysts to create dynamic data reports with Python, R, Julia, and Observable. This Quarto training course teaches attendees how to create insightful HTML, PDF, Word, and PowerPoint reports that update when data changes.

**Prerequisites**

Attendees must have a basic knowledge of R or Python, as taught in our [Introduction to R](file:////training/r-programming-introduction) or [Introduction to Python](file:////training/python) courses.

**Materials**

All Quarto training attendees receive comprehensive courseware.

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**Software Needed on Each Student PC**

Please contact us for set up instructions.

**Objectives**

* Be familiar with the structure of a Quarto reporting document
* Understand why you should use Quarto over R Markdown
* Use Quarto to format syntax to build a document
* Understand embedding code into reports
* Render reports into HTML, PDF, Word, and PowerPoint
* Understand the possible layouts
* Apply styling formats, including journal templates, referencing, and cross-formatting
* Publish with Quarto pub

**Outline**

* Introduction to Automated Reporting
* What is Quarto?
  + Why Quarto over R Markdown
  + Quarto R package
* Quarto Outputs
  + HTML
  + PDF
  + Word/PowerPoint
  + Publishing with Quarto pub
* Markdown Formatting
  + YAML
  + Title and author
  + Format specific options
  + Using the visual editor
  + Images and text formatting
  + Block Quotes
* Code Chunks
  + Settings options
  + Positioning output
  + In-line code
* Styling of Formats
  + Templates (journal templates)
  + Bibliography and referencing
  + Cross-format styling
* Conclusion