tutorial

Table of Contents

### Launching an R project

* If you haven't installed R and RStudio, [please do](https://github.com/DSR-RHIT/install-R-and-RStudio/blob/master/pages/install_R.md).
* If you haven't created an RStudio project and the *.Renviron* file for the workshop, [please do](https://github.com/DSR-RHIT/install-R-and-RStudio/blob/master/pages/setup_R_project.md).

In your workshop main directory, find the file with the *.Rproj* suffix. It will have the same name as the directory. I'll refer to this file as *workshop.Rproj*.

* Launch your *workshop.Rproj*.

### Initializing an Rmd file

From RStudio,

* File --> New File --> R Markdown
* Output Format --> Word
* Save As --> *load-cell-calibr-report.Rmd* (in the workshop main directory)

You should have three files in the workshop directory :

workshop\  
 |-- load-cell-calibr-report.Rmd  
 |-- workshop.Rproj  
 \-- .Renviron

The Rmd file is pre-populated with default text and markup. Edit the header (called a *YAML* header):

* Change the title to *Calibration report*
* Output should be *word\_document* (if Word is not installed on your machine, change the output to *html* and Save)

---  
title: "Calibration report"  
author: "your name"  
date: "date"  
output: "word\_document""  
---

To *knit* the document and create the Word file,

* Save the file
* Knit Word 

(*Save and Knit* anytime you want to see how a markup affects the output document.) A Word document should appear. Do not edit the Word document. Revisions to the document are made in the Rmd file.

back to top

### Marking up the report

In the Rmd file,

* Delete everything below the YAML header
* Add ## Introduction below the header. Save and Knit.

---  
title: "Calibration report"  
author: "Your Name"  
date: "Today's Date"  
output: "word\_document""  
---  
  
## Introduction

The double-hashtag ## is the markup for a second-level heading in the output document. Remaining basic R Markdown syntax is summarized here:

* [Markdown basics](http://rmarkdown.rstudio.com/authoring_basics.html).

Let's add some text to the report (you may copy-paste this text into your Rmd file). The asterisks around *load cell* are the markup for *italics*.

back to top

### Next section

back to top

### Next section