**Introduction to R Markdown**

R Open Lab - 2017 February 1st

Today we will talk about the R Markdown. R Markdown provides an authoring framework for data science. We’ll cover the following topics  
  
1. Why do we use R Markdown?  
2. How to create an R Markdown file?  
3. How to use R Markdown to edit?

4. How to make your document interactive?

4. Different output formats  
  
  
**Introduction to R Markdown**  
<http://rmarkdown.rstudio.com/lesson-1.html>

**Make R Markdown Interactive**  
Through plotly package <https://plot.ly/r/>

Through JavaScript <http://www.htmlwidgets.org/>

Through Shiny <http://rmarkdown.rstudio.com/authoring_shiny.html>

**For first-time users:**

**Download and install (you will need both R and RStudio):**

R for Mac OS X

<https://cran.rstudio.com/bin/macosx/R-3.3.2.pkg>

R for Windows

<https://cran.rstudio.com/bin/windows/base/R-3.3.2-win.exe>

R Studio for Mac OS X

<https://download1.rstudio.org/RStudio-1.0.136.dmg>

R Studio for Windows

<https://download1.rstudio.org/RStudio-1.0.136.exe>

**Learning with Swirl**  
To install swirl, first install R if you haven’t already and open it.

In the command line, type  
install.packages("swirl")  
and hit Enter. You need a working internet connection. Once R has installed the package, you also need to load it. Type  
library(swirl)  
and hit Enter. Once you do that, swirl will take over and start giving you instructions (and peppy feedback!) to take you through the basics of R. Have fun!