**Introduction to Shiny by RStudio**

R Open Lab - 2017 February 8th

Today we will talk about the Shiny. We’ll cover the following topics  
  
1. Why do we use R Shiny?

<http://shiny.rstudio.com/>

2. How to create a Shiny app?  
3. What are the components of a Shiny app?

UI (user interface) and Server. UI is a web document that the user will see. Server is the set of instructions that tell the web page what to show when the user interacts with the page.

4. How to publish your application?  
  
  
**Shiny Tutorial**  
<https://shiny.rstudio.com/tutorial/lesson1/>

<http://rstudio.github.io/shiny/tutorial/>

**Cheatsheet**

<http://shiny.rstudio.com/images/shiny-cheatsheet.pdf>

**Deploy your Shiny App**

<https://www.shinyapps.io/>

**Shiny with RMarkdown**

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

**More Examples using Shiny**

<http://shiny.rstudio.com/gallery/>

**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**

Swirl teaches you R programming and data science interactively, at your own pace, and right in the R console.

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!