SHINY IN RMARKDOWN

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Agenda

- Introductions
- Rmarkdown
- Shiny
- Requirements
- Strategies
- Deployment
- Questions



RMarkdown

- Powerful production ready reporting tool
- Ability to schedule reports to automatically run using Connect
- Add iteration in addition to code
- Easy to convert to RMarkdown from Notebook mode.
- Eliminates need for copying pasting to Word





Shiny

- Interactive visualization
- Same R code + a few reactive programming components
- Fully customizable
- Scalable





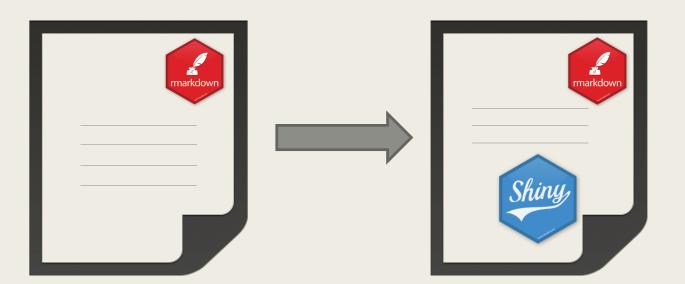
RMarkdown + Shiny







Another illustration





title: "Wooly Doc"
author: "Tonya Filz"
date: "11/9/2017"
output: html_document

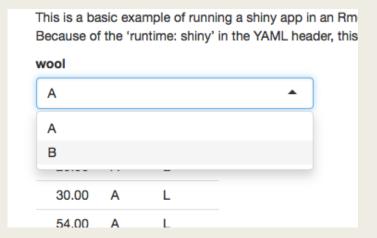








Strategy 1: Call Basic Shiny Functions





Strategy 2: Build a Shiny App In-line

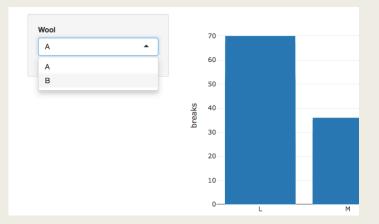
```
`{r, echo=FALSE}
library(shiny)
library(plotly)
library(shinythemes)
ui <- fluidPage(
  theme = shinytheme("superhero"),
  titlePanel("A Wooly Run Time Example"),
   sidebarLayout(
      sidebarPanel(
         selectInput("wool",
                     choices = levels(warpbreaks$wool))
      mainPanel(
         plotlyOutput("plot")
server <- function(input, output, session) {</pre>
    output$plot <- renderPlotly({
    plot_ly(subset(warpbreaks, wool==input$wool), x= ~tension, y= ~breaks)
shinyApp(ui, server)
```





Strategy 3: Insert a Local Shiny App

```
shinyAppDir("/Users/tonyafilz/Documents/Webinars/Shiny\ in\ Rmd/SplitWoolApp",
  options=list(
    width="100%", height=400
)
)
```





Strategy 4: Insert a Hosted Shiny App

```{r, echo=FALSE}
knitr::include\_app("https://tonya-rstudio.shinyapps.io/ShinyinRmd/")

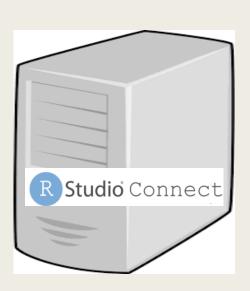
| V    | Vooly Run Time Example |
|------|------------------------|
| Woo  | ol                     |
| Α    | •                      |
| A    |                        |
| В    |                        |
|      | 70                     |
|      | 60                     |
|      | 50                     |
| eaks | 40—                    |



# **Deployment Options**









# **EXAMPLE**



# QUESTIONS?



# THANK YOU!

