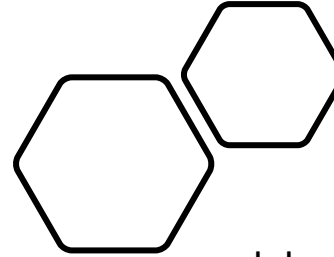


Reports, Presentations and Web Page using RMarkdown

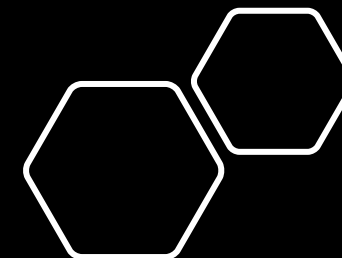
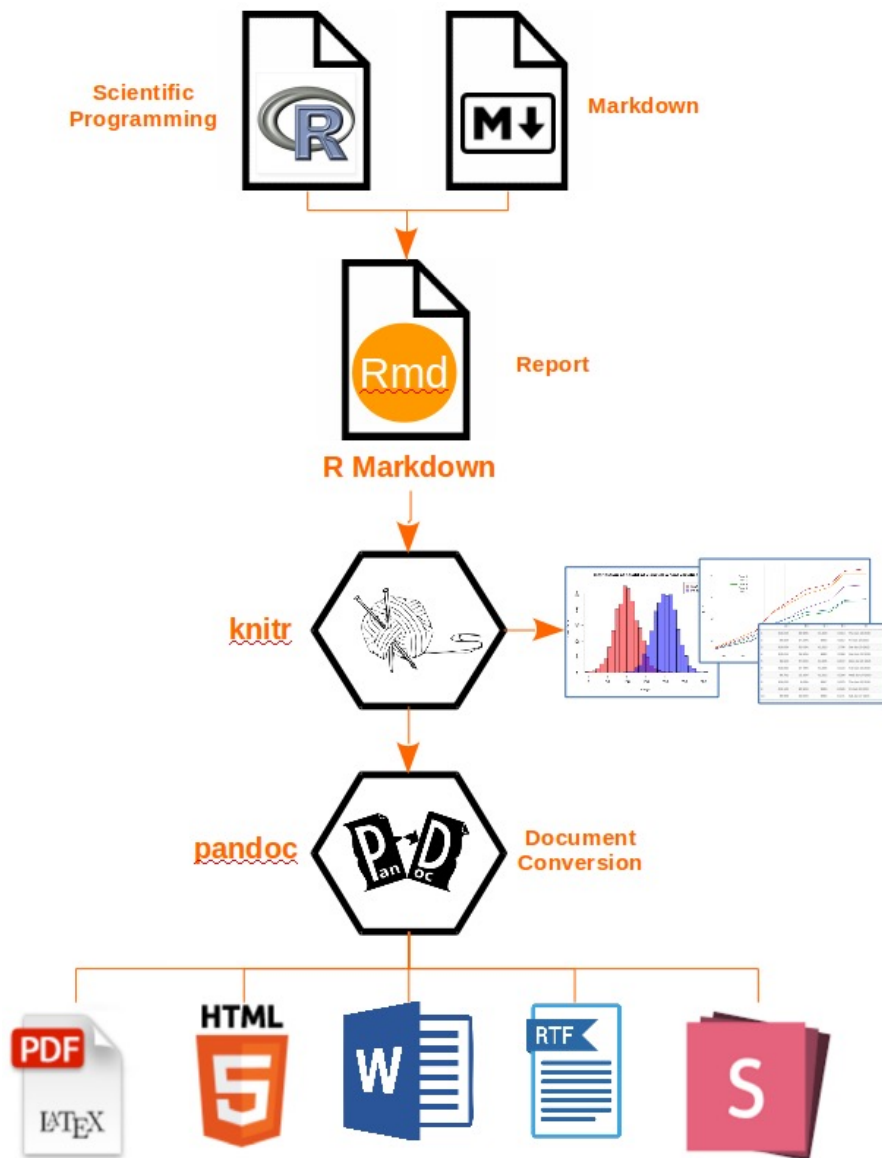
Bharat Bhushan Verma



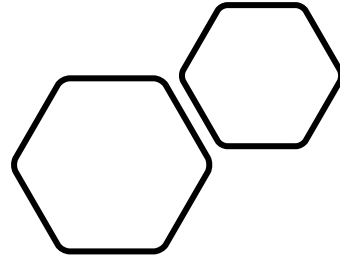
R Markdown



- rmarkdown is a R package in R programming environment
- R Markdown files have extension .Rmd
- rmarkdown has tools to convert .Rmd files into pdf, html, docx etc.
- Htmlwidgets can be embedded in Rmd files.
- HTML presentation can be created in Rmd
- `install.packages("rmarkdown")`
`remotes::install_github('rstudio/rmarkdown')`
Development version
- File > New File > R Markdown

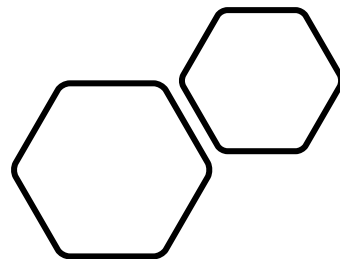


R Markdown and Latex



- R Markdown uses LaTeX to create PDF documents.
- BibTeX is the reference manager for LaTeX.
- BibTeX interfaces with EndNote, Mendeley and Zotero.
- LaTeX is one of the distribution of TeX.
- MacOS uses [MacTeX](#), Linux uses [LaTeX](#), Windows uses [MiKTeX](#)

Pandoc and R Markdown



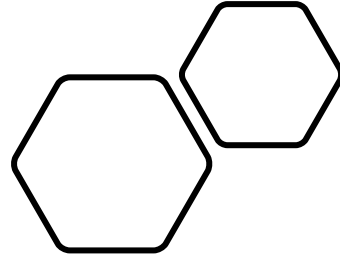
- Pandoc in R Markdown converts .Rmd in almost any format
- <https://pandoc.org/installing.html>
- Rstudio recognizes Rmd files and activates knitr button.

YAML

- Yet Another Markup Language
- It stores configuration information in key: value format
- Some of this information is on top of the Rmd
- YAML carries knitting instruction.
- Example:

```
output: html_document
output: pdf_document
output:
  pdf_document:
    toc: true
```

What YAML can control



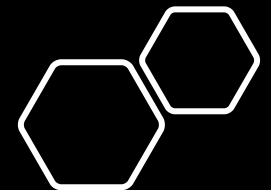
- Table of Contents
- Data Frames printing format
- Fonts, color and document appearance etc.

```
```{r setup, include=FALSE}  
knitr::opts_chunk$set(echo = TRUE)
```
```



Code Chunk

- echo=FALSE /TRUE
- results= 'hide' /.../.../...
- message= FALSE /TRUE
- warning= FALSE /TRUE
- fig.show= FALSE /TRUE



Advanced Features in Rmarkdown

Tabbed Sections

- Add `{.tabset}` to parent heading
- Add `{.tabset .tabset-dropdown}` to parent heading

Manage Chunk names

- Install namer package
- Install miniUI if needed
- Apply r chunk labels using addins namer.

Source Script

```
```{r , echo=FALSE}  
source("script.R")
```
```

