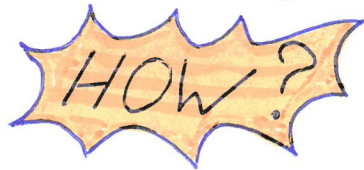


Main Idea: Often you need to create a dynamic report, which displays graphs, data tables based on input data.

Changing the data you don't want to rewrite a report, inserting manually new tables, values and graphs. How it works? You just upload new data and press 1 button to rerun code!



This is amazing!



1. Install Tex software
(use MiKTeX for Windows)

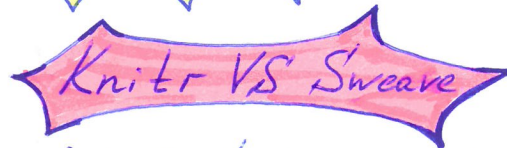
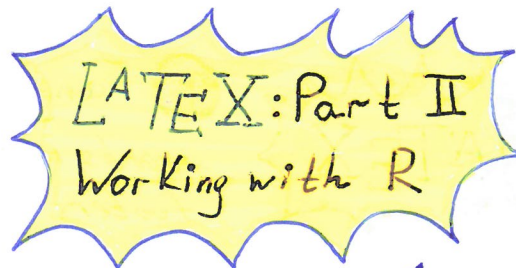
Note: Tex - old typesetting language 1977.
LaTeX is an updated version of Tex

2. Install R-Studio
3. Install packages: for Sweave - preinstalled
for "knitr" - installation required
4. In RStudio: File → New File →
→ R Sweave (for both)
5. For knitr (by default Sweave is used):

Tools → Global Options → Sweave →
→ switch to "knitr" in drop-down list



1. Choose best document class: article, beamer, etc.
2. Use suitable advanced packages: hyperref, booktabs, etc.
3. Use appropriate settings for R-code chunks:
`<<hide-par, echo=FALSE, warning=FALSE, message=FALSE, out.width=`
`=..., fig.align='center'>>=`
4. For displaying results use inline code:
`p=\Sexpr{t.test(a)$p.value}` *Autoupdate!*
5. Use `xtable()` function in R to produce LaTeX table [but it will not be updated automat.]



Actually, knitr is just updated version of Sweave, so *always use knitr!*
knitr supports Latex & Rmarkdown