Basic R tutorial

February 22, 2024

Contents

R tutorial (this is a header)

R basics (this is a second level header)

Hello world

This is normal text.

This is text including latex symbols like ϕ or blocks like:

$$\frac{1}{N-1}\sum_{i=1}^{N}(x_i - \mu_X)^2$$

Reference guide: https://www.rstudio.com/wp-content/uploads/2015/03/rmarkdown-reference.pdf

More information (e.g. html): https://rmarkdown.rstudio.com/formats.html

Latex math reference https://en.wikibooks.org/wiki/LaTeX/Mathematics

OCR tool that can produce Latex from screenshots, pictures https://mathpix.com/

Tutorials:

https://static1.squarespace.com/static/5ff2adbe3fe4fe33db902812/t/601cc86d7f828c4792e0bcae/1612499080032/ISLR+Seventh+Printing.pdf

https://moodle-app2.let.ethz.ch/course/view.php?id=627

```
## this is R code, which is going to be evaluated once you "knit" it
print("Hello world!")
```

```
## [1] "Hello world!"
```

```
cat(paste("Hello", "world!", sep="-------"))
```

```
## Hello-------world!
```

Render this .rmd into a pdf

```
library(rmarkdown)
render("1.Rmd", pdf_document(TRUE), "1.pdf") # TRUE adds table of content
```