

# Course notes for PS312

Programming with R

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*2019-03-20*



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# Welcome

This course is an introduction to the statistical programming language R and various applications. We will cover the entire data analytics pipeline from data ingestion to data wrangling, summarizing, modeling, visualizing and reporting, all using tools found within the R ecosystem

The version of these notes you are reading now was built on 2019-03-20. To raise an issue about the note's content (e.g., code not running) or to make a feature request, check out the issue tracker.

## Reproducibility

These notes are written with `bookdown`, a R package for writing books using `rmarkdown`. All code in these notes were developed on R version 3.5.0 (2018-04-23), using the same packages pre-installed in your virtual machines. When you're on your own, you will need to install a recent version of R, and also install the corresponding packages, on your computer, for all the code to work. A listing of all the packages used in this course will be available as an appendix.

To build these notes locally, clone or download the Github repo hosting these notes, unzip it if necessary, and double-click on `FSI_Book.Rproj`. Assuming you have RStudio installed, this will open this project (more on *RStudio Projects* later). You can then go to the console and enter the following code:

```
bookdown::render_book("index.Rmd") # to build these notes
browseURL("_book/index.html") # to view it
```

## License

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