

# R Bootcamp

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# Why R?

- It's free!
- Its easy to learn
- It runs on various platforms, including Windows, Unix and MacOS.
- It provides an unparalleled platform for programming new statistical methods easily and straightforwardly.
- It houses advanced statistical routines that are not yet available in other packages, sparking new possibilities and excitement in your work.
- It has state-of-the-art graphics capabilities.
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# Why R over Python?

- R was built by statisticians for statistics.
- Python tends to be a one size fits all solution, whereas R is built for statistical studies.
- Some basic libraries are faster in Python
- Python is very OOPS-heavy
- Base R has many tests pre-loaded in contrast to python (scipy, scikit-learn)
- It's used by many professors in courses at UTD



# Resources

- Each of the following tutorials is in PDF format.
  - P. Kuhnert & B. Venables, An Introduction to R: Software for Statistical Modeling & Computing
  - J.H. Maindonald, Using R for Data Analysis and Graphics
  - B. Muenchen, R for SAS and SPSS Users
  - W.J. Owen, The R Guide
  - D. Rossiter, Introduction to the R Project for Statistical Computing for Use at the ITC
  - W.N. Venables & D. M. Smith, An Introduction to R
  - Paul Geissler's excellent R tutorial
  - Dave Robert's Excellent Labs on Ecological Analysis