

R for Health Data Analysis(R4HDA)

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What is R?

- This is an easy question to answer. R is a dialect of S.
- R is a programming language and environment commonly used in **statistical computing**, **data analytics** and **scientific research**.
- It is one of the most popular languages used by **statisticians**, **data analysts**, **researchers** and **marketers to retrieve**, clean, analyze, **visualize** and present data.

Why use R for statistical computing and graphics?

- R is open source and free!
- R is popular – and increasing in popularity
- R runs on all platforms
- R is being used by the biggest tech giants(google, facebook, microsoft, twitter)

Applications of R Programming in Real World

- Data Science
- Data Analysis
- Genomic Data Science
- Biological Data Analysis
- Mutational Signature Analysis
- Genomic Analysis
- Statistical Computing
- Machine Learning