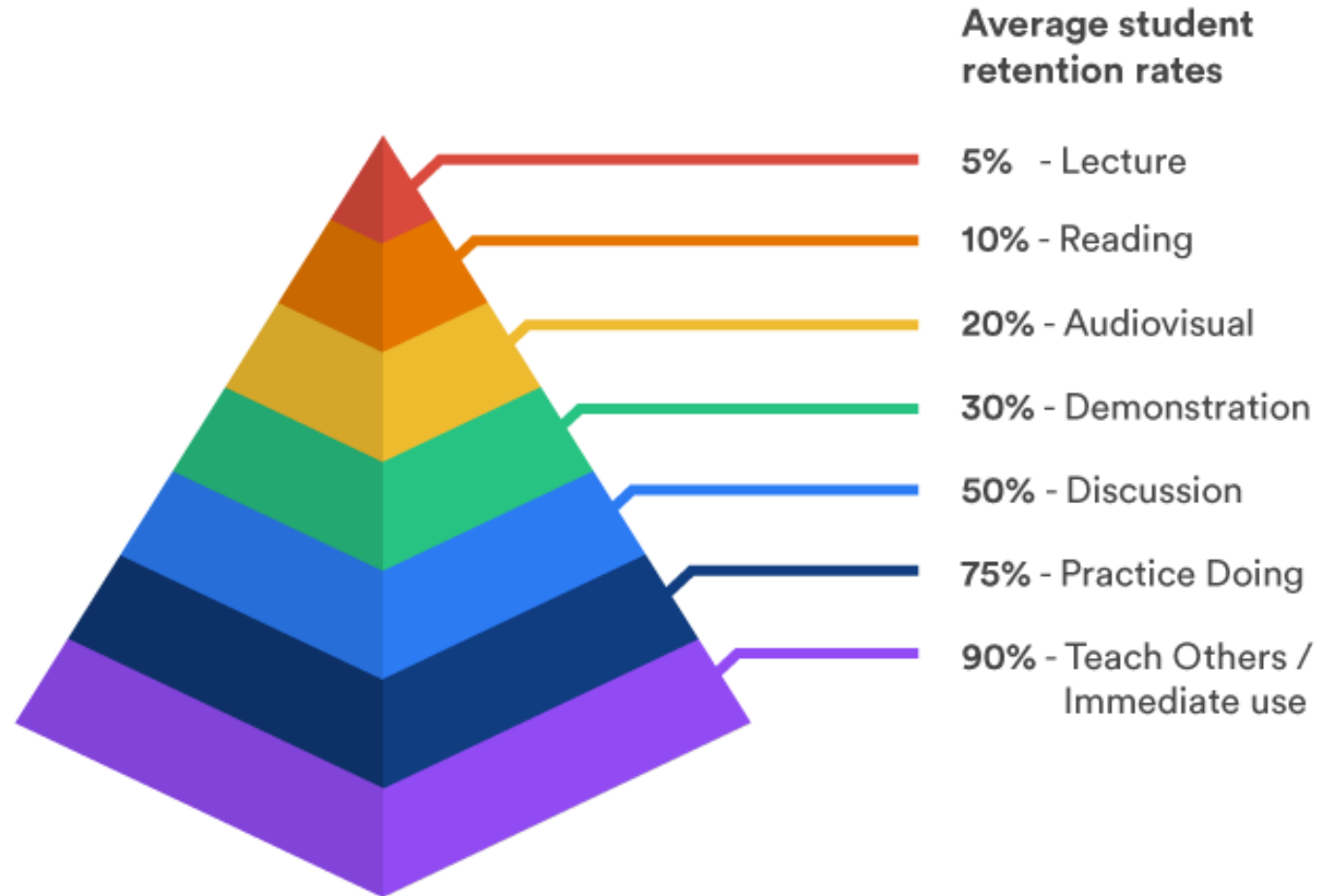


> R You Ready?

INTRODUCTION TO R



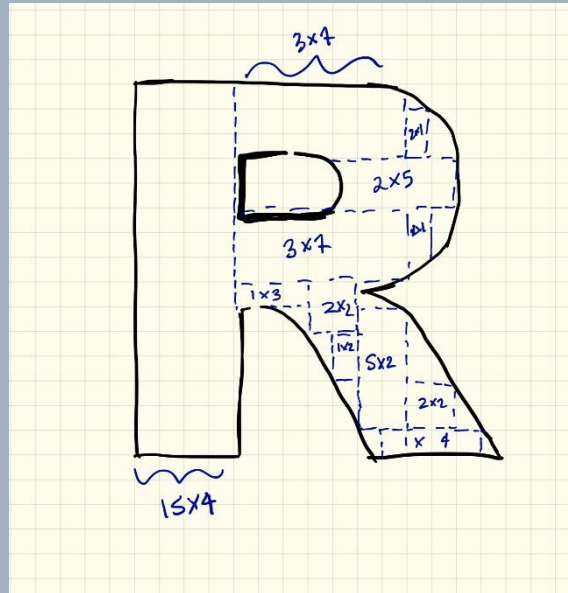
Learning Pyramid



WHILE WE TEACH, WE LEARN.

SENECA

What is R?

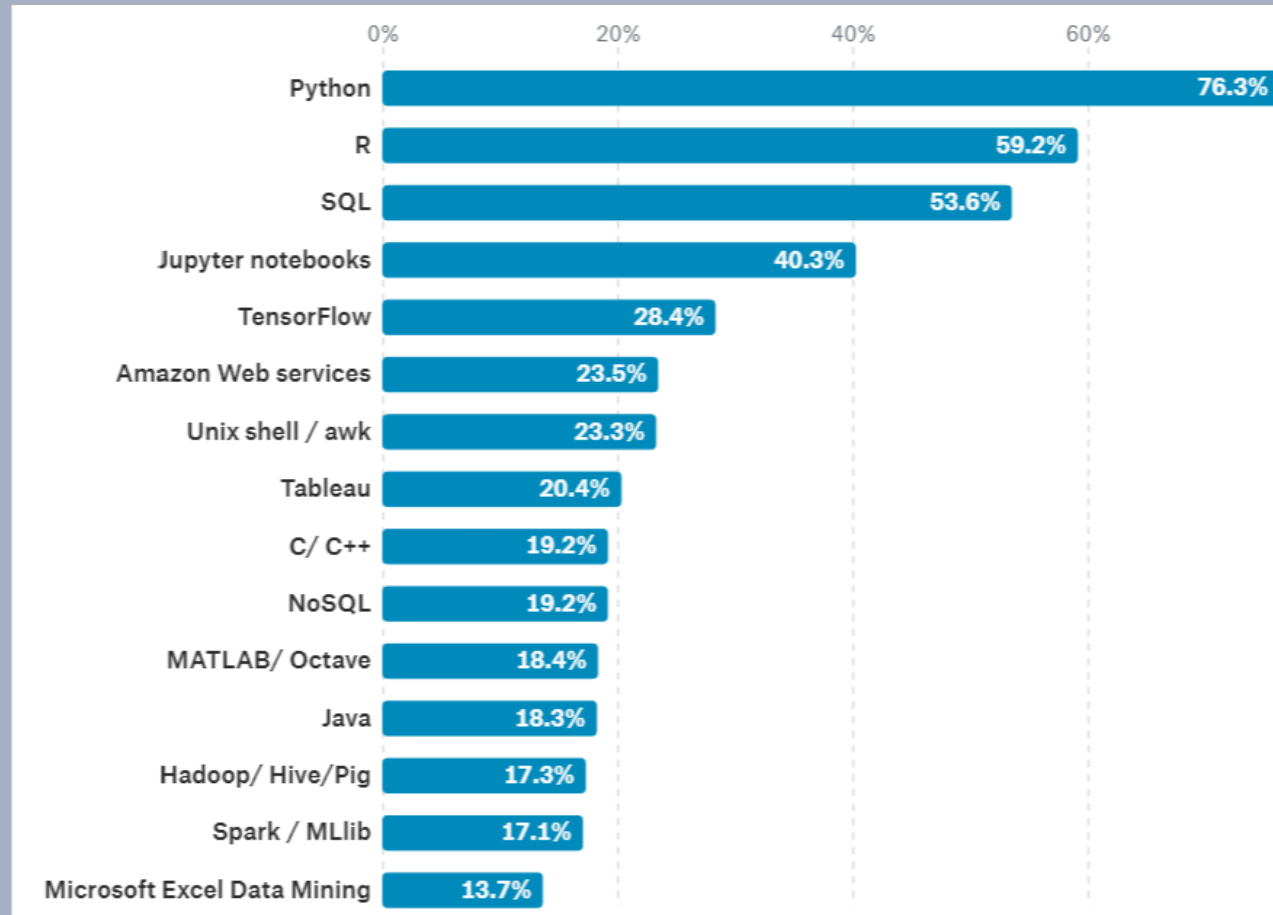


A freely available language and environment for statistical computing and graphics which provides a wide variety of statistical and graphical techniques

<https://www.r-project.org/>

- Developed by Ross Ihaka and Robert Gentleman at University of Auckland
- First appeared Aug 1993; 25 years ago
- Some capabilities of R include:
 - > Software development
 - > Data analysis and visualization
 - > Text processing
 - > Image processing
 - > Interact with APIs
 - > Building interactive web apps
 - > Writing project report or book
 - > Creating presentations

What tools are used at work?



Kaggle's The State of Data Science 2017
<https://www.kaggle.com/surveys/2017>

What are R and RStudio?



R: Engine

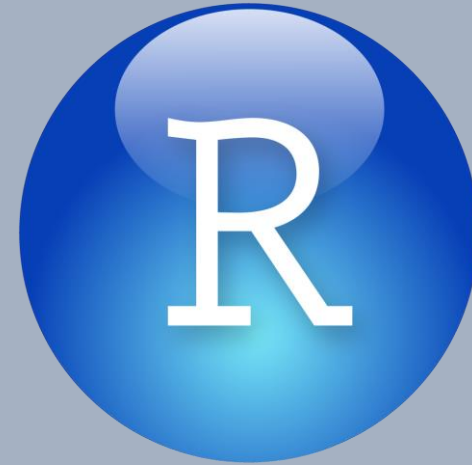


RStudio: Dashboard

Using R via RStudio



R: Do not open this



RStudio: Open this

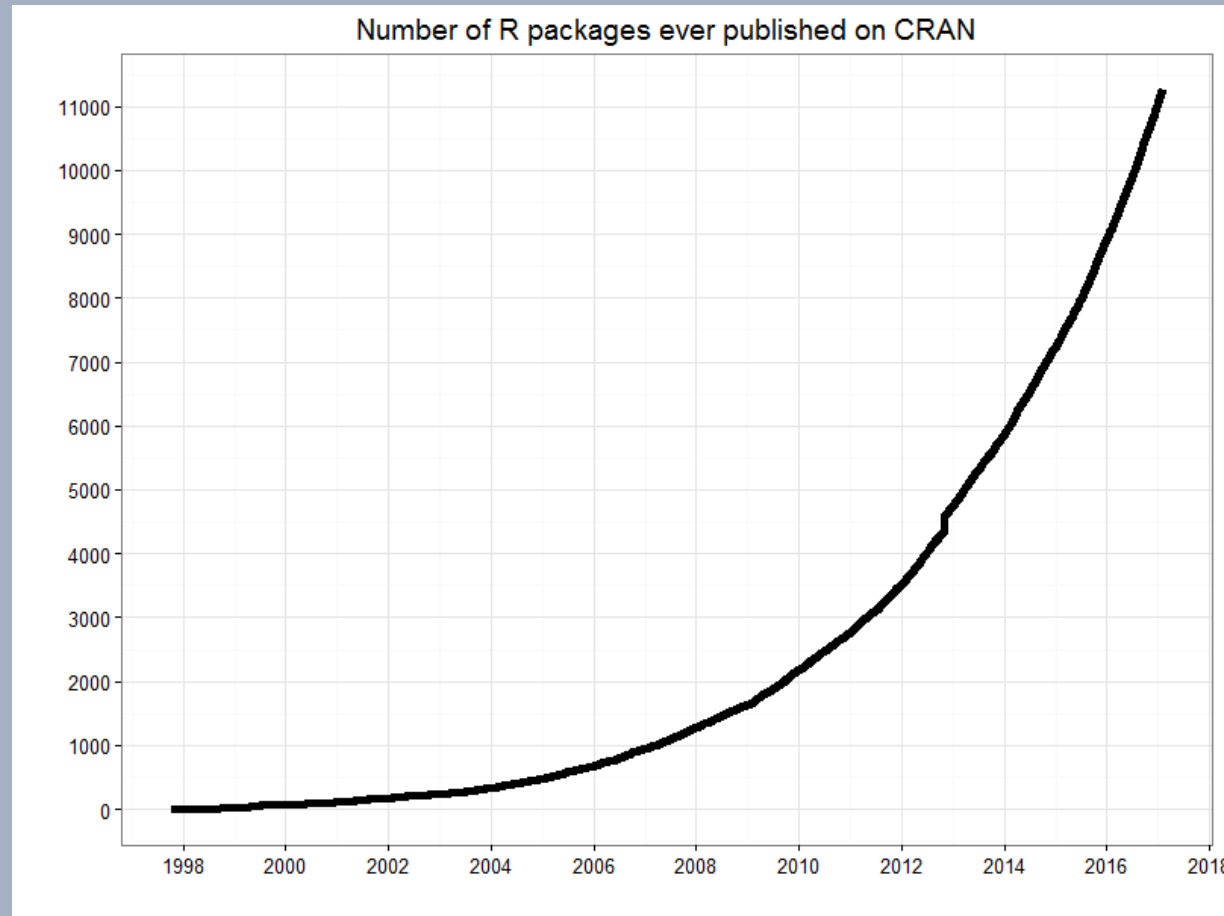
What are R packages?



R: A new phone

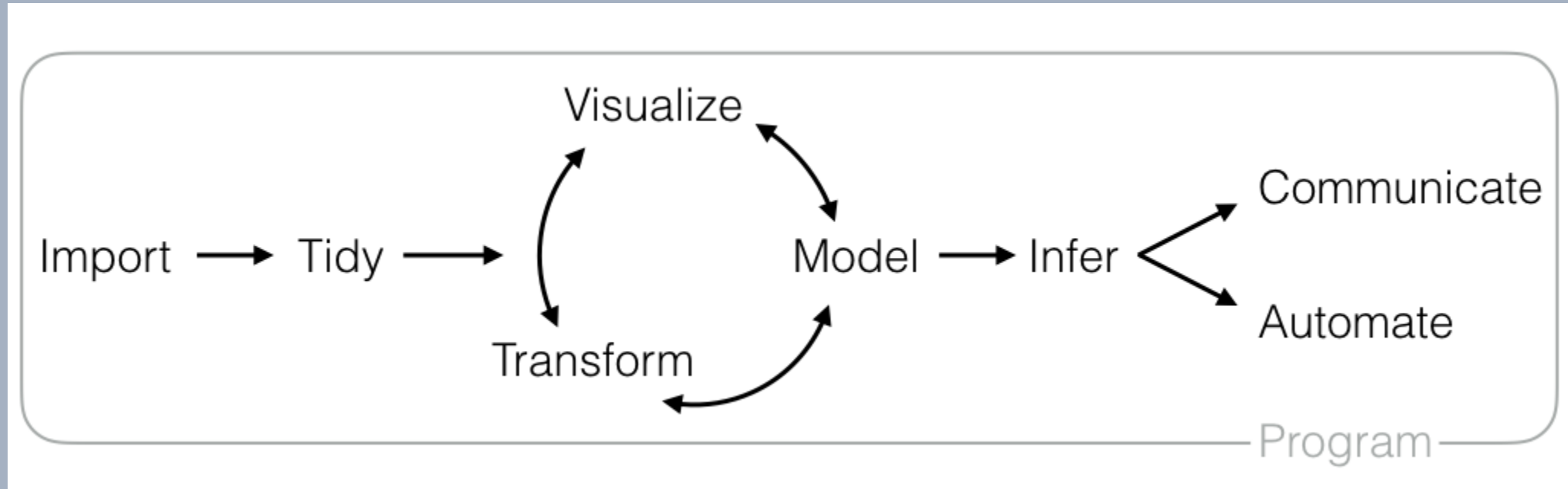


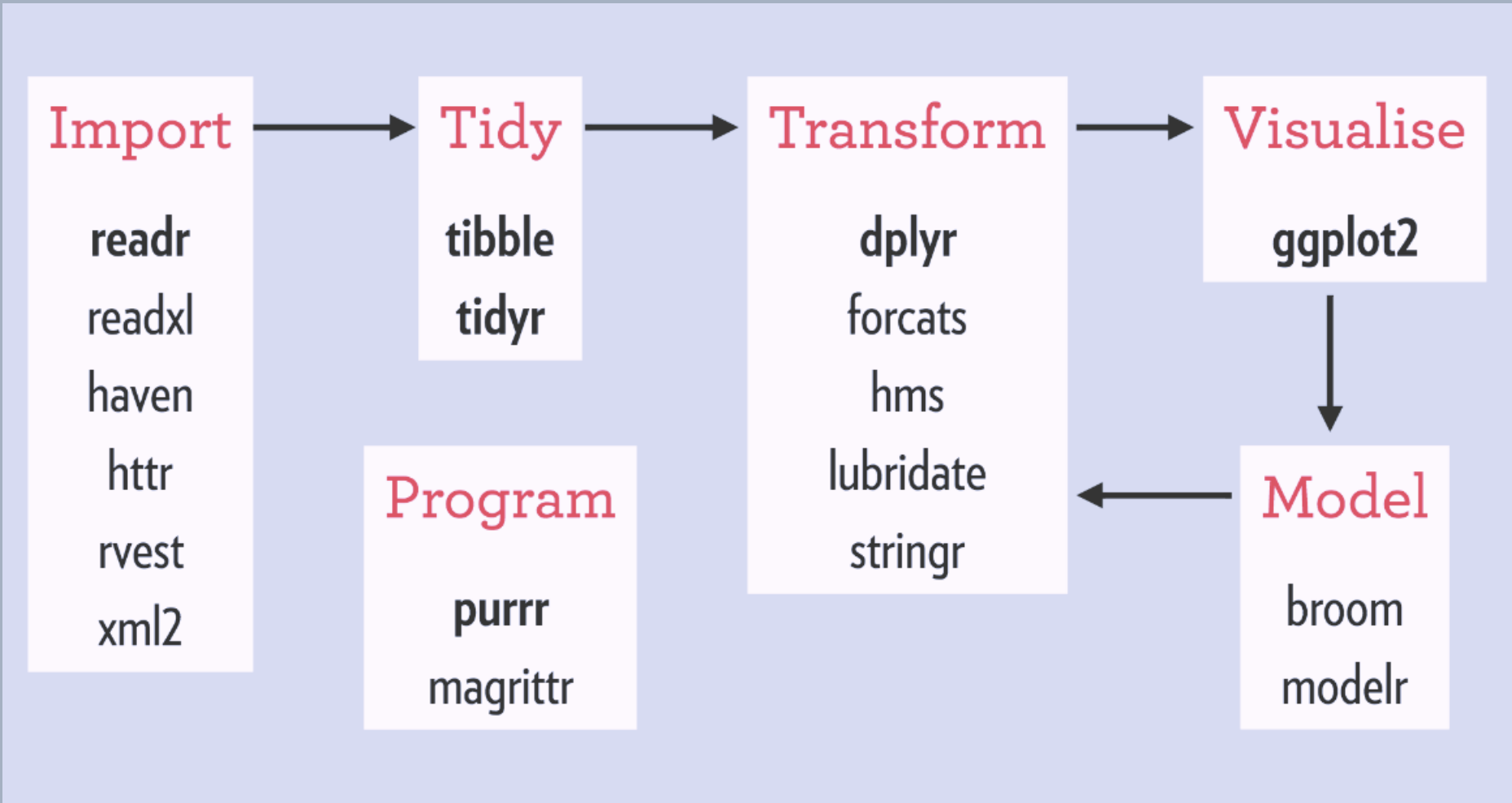
R Packages: Apps you can download



Currently, the CRAN package repository features **13529** available packages:
<https://cran.r-project.org/web/packages/>

Data Science Workflow

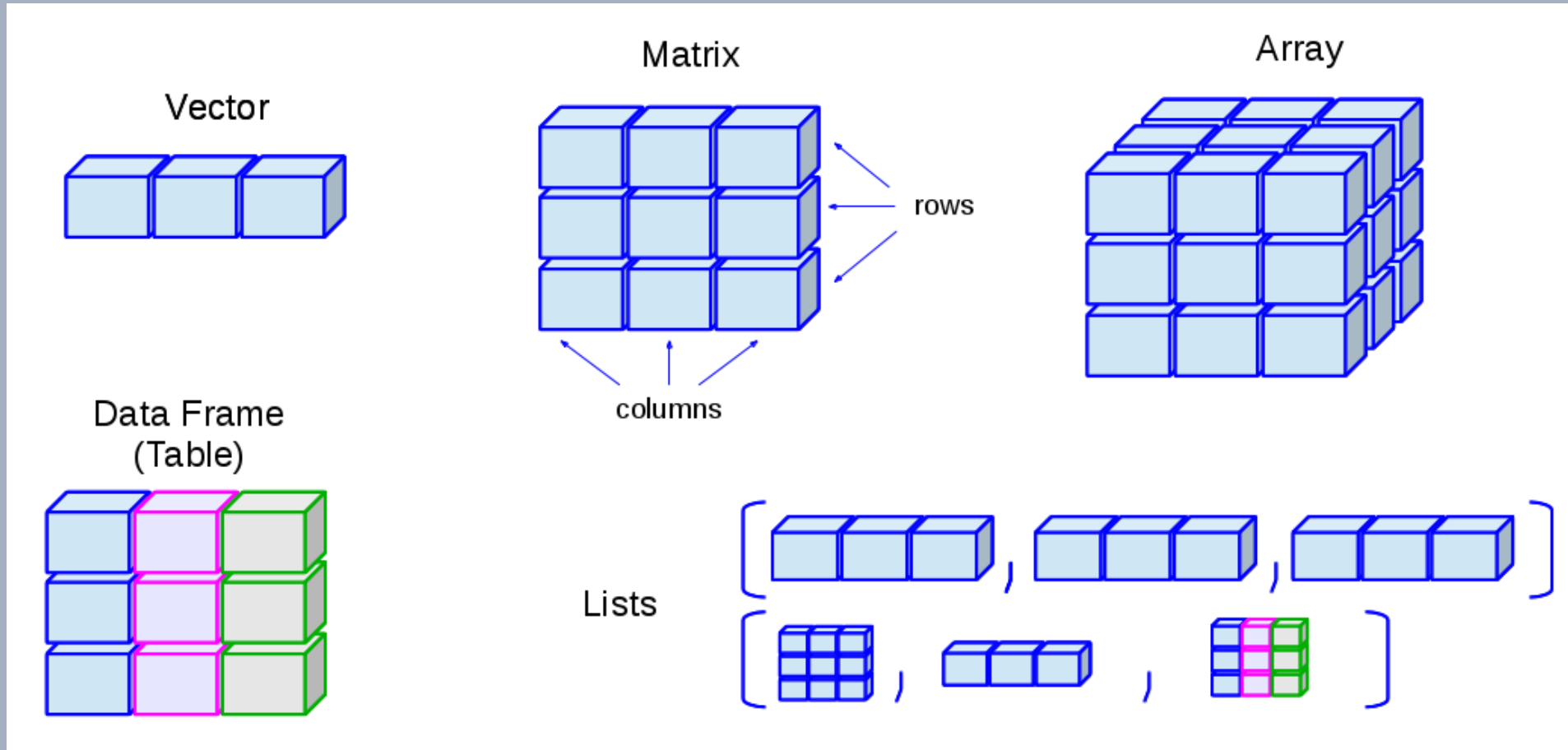




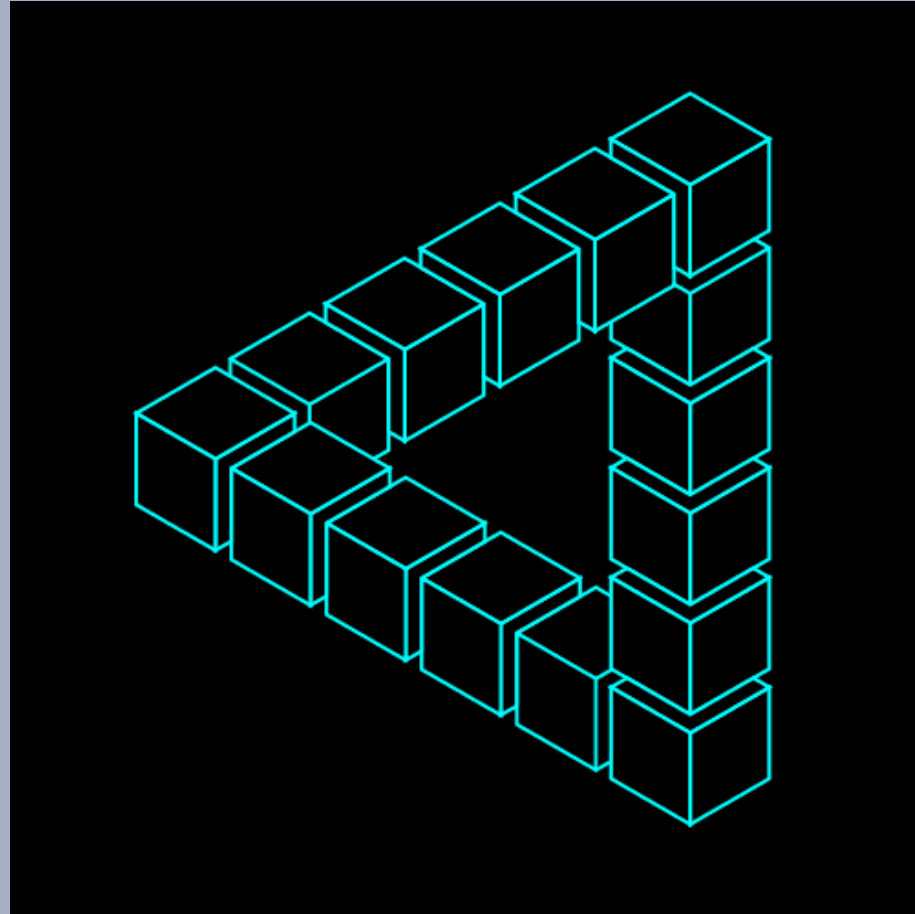
Basic Data Types in R

Data Type	Stores
character	strings
numeric	integers or double
integer	integers
complex	Complex numbers
logical	TRUE or FALSE

Data Structures in R



How do I code in R?





Further Resources

- Introduction to R - <https://www.datacamp.com/courses/free-introduction-to-r>
- Introduction to the Tidyverse - <https://www.datacamp.com/courses/introduction-to-the-tidyverse>
- R Programming A-Z™ - <https://www.udemy.com/r-programming/>
- R for Data Science - Garrett Grolemund & Hadley Wickham - <https://r4ds.had.co.nz/>
- Cheat Sheets - <https://www.rstudio.com/resources/cheatsheets/>

THANK YOU