R from the beginning

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Started using R almost 20 years ago, after having used its ancestor for 10 years.

I develop R packages and teach R to ecologists, statisticians, immunologists and \ldots

What is R?.....A little history:

AT&T and Bell Labs : 1970's: Unix, then C as a system implementation language for Unix.



John Tukey,



The S -team

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S is for Statistics





The -team

 $\boldsymbol{R}oss$ Ihaka and $\boldsymbol{R}ob$ Gentleman.

Programming with Data





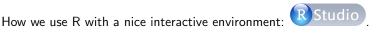
Comprehensive R Archive Network (CRAN) has almost 10,000 packages.

Bioconductor has over 1,000 packages

There are hundreds of contributed manuals and documents.

This is a course for beginners that shows:

All the details of how to download and install R



What are the objects we manipulate in R look like.

Where the objects are stored, how to save our work.

All the important data structures: data frames, lists, matrices.

How to import data into R, how to save your work.

Manipulating and preprocessing data, missing values.

How to plot your data, an introduction to ggplot2.

Using the wealth of contributed packages for specific tasks.