

# R from the beginning

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# Who am I ?



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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 .....

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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



**Ross Ihaka and Rob 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

How we use R with a nice interactive environment:



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.