## R and R Studio

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## Obtain R & RStudio

https://cran.r-project.org/

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

License: GNU General Public License (The GNU General Public License is a widely used free software license, which guarantees end users the freedom to run, study, share and modify the software.)

**Pricing:** Free

https://www.rstudio.com/

License: AGPL v3 (The AGPL v3 is an open-source license that guarantees the freedom to share and change the software, and to make sure it remains free software for all its users)

**Pricing:** Free

# R training Roadmap 1 day (1 hour) [file: R\_training\_A1.R]

- Install R & Rstudio;
- Overview;
- First steps with Rstudio:
  - \* Data types;
  - \* Vectors;
  - \* Plots.

## R training Roadmap

Before start please click on "Clone or Download" green button in <a href="https://github.com/antonellosalis/R\_training">https://github.com/antonellosalis/R\_training</a>; Save and unzip the content on your computer.

## Yes

- data handling and storage: numeric, textual, rasters, shapefiles.
- matrix algebra
- hash tables and regular expressions
- high-level data analytic and statistical functions
- graphics
- programming language: loops, branching, subroutines

## No

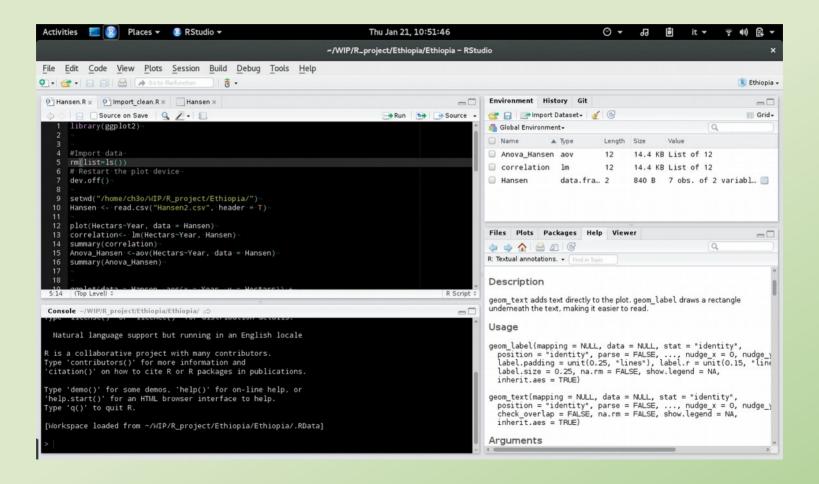
is not a database, but connects to DBMSs

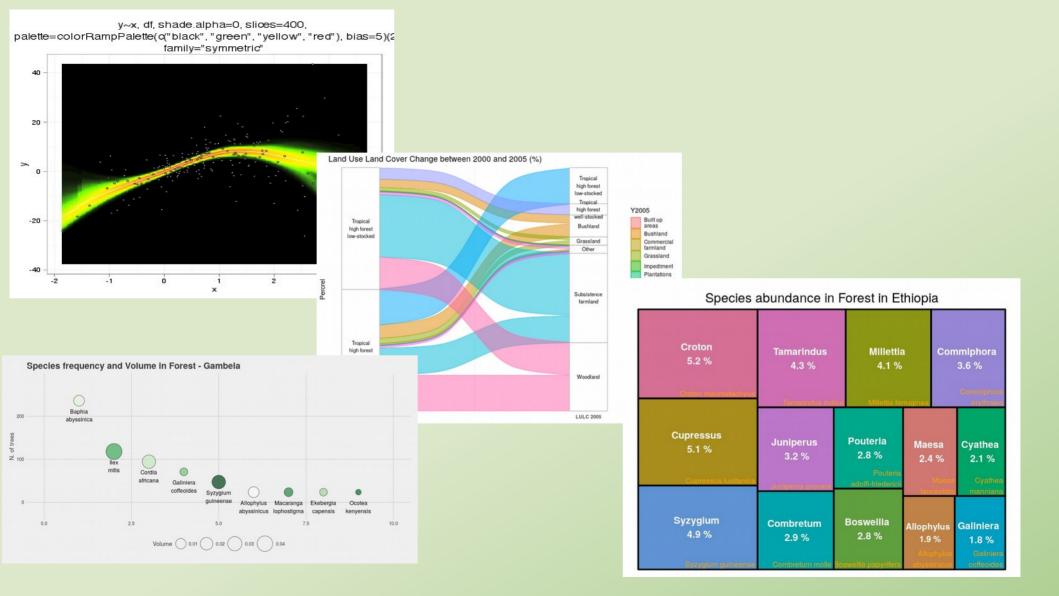
no professional / commercial support

## How R looks like

```
antonello@debian: ~
File Edit View Search Terminal Help
antonello@debian:~$ R
R version 3.5.2 (2018-12-20) -- "Eggshell Igloo"
Copyright (C) 2018 The R Foundation for Statistical Computing
Platform: x86 64-pc-linux-gnu (64-bit)
R is free software and comes with ABSOLUTELY NO WARRANTY.
You are welcome to redistribute it under certain conditions.
Type 'license()' or 'licence()' for distribution details.
 Natural language support but running in an English locale
R is a collaborative project with many contributors.
Type 'contributors()' for more information and
'citation()' on how to cite R or R packages in publications.
Type 'demo()' for some demos, 'help()' for on-line help, or
'help.start()' for an HTML browser interface to help.
Type 'q()' to quit R.
```

## How R in RStudio looks like





Over 10.000 Packages!

