

(A bit of) Advanced R

Part 1 - R-base programming

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<http://github/jchiquet/CourseAdvancedR>

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Outline

References

- R Core Team (2017): A Language and Environment for Statistical Computing
<https://www.R-project.org/>
- Wickham (2014): Advanced R, retrieved from <http://adv-r.had.co.nz/>

Prerequisites

Data Structure in base R

- ① Atomic vector (integer, double, logical, character)
- ② Recursive vector (list)
- ③ Factors
- ④ Matrices and array
- ⑤ Data Frame


→ Creation, Basic Operation, Manipulation, Representation

Resources

- Advanced R, chapters I.2, I.3 (Wickham, 2014, <http://adv-r.had.co.nz/>)
- An introduction to R programming
http://julien.cremeriefamily.info/teachings_L3BI_ISV51.html

Development environment I

The Rstudio API

- A full API with code, interpreter, workspace and plots
- Package development and external code integration are easier
- Notebooks integration with Rmarkdown
- Interface with github  required tool for efficient development in R

Development environment II

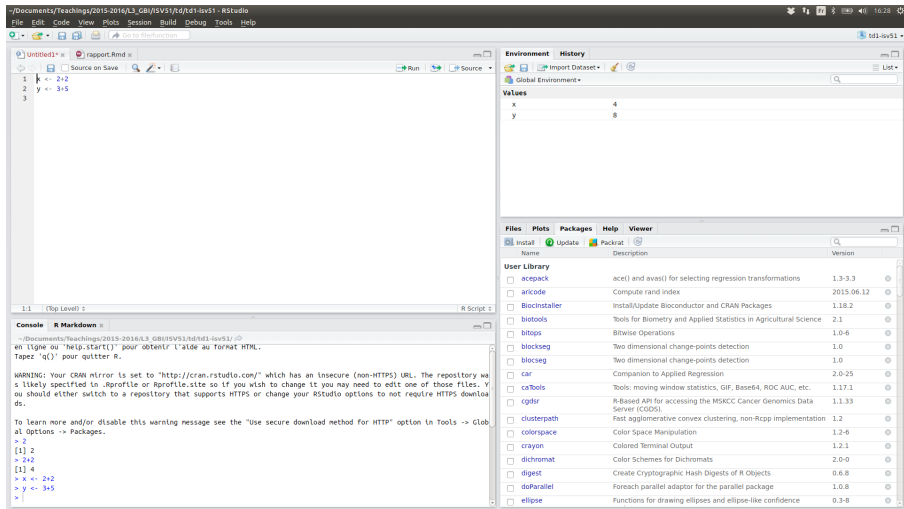


Figure 1: Screenshot of the Rstudio API

References I

References II

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