Introduction to R

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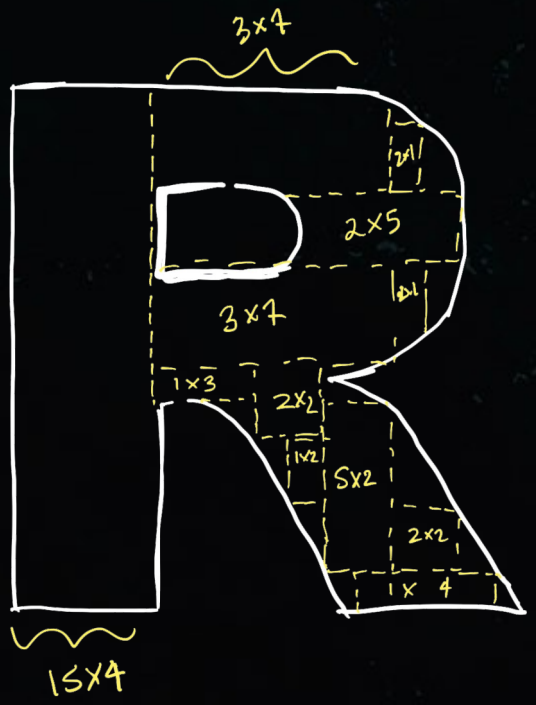


内容 *Content*

- **第一天** *First day*
- 什么是 R？ *¿what is R?*
- 什么是 Rstudio？ *¿what is Rstudio?*
- 它们是什么样子的？ *¿how they look?*
- 它们是如何工作的？ *¿how they work?*
- 整洁数据 *(Tidy Data)*：在开始之前，我应该如何组织我的数据集？ *¿how should I organize my dataset before starting?*

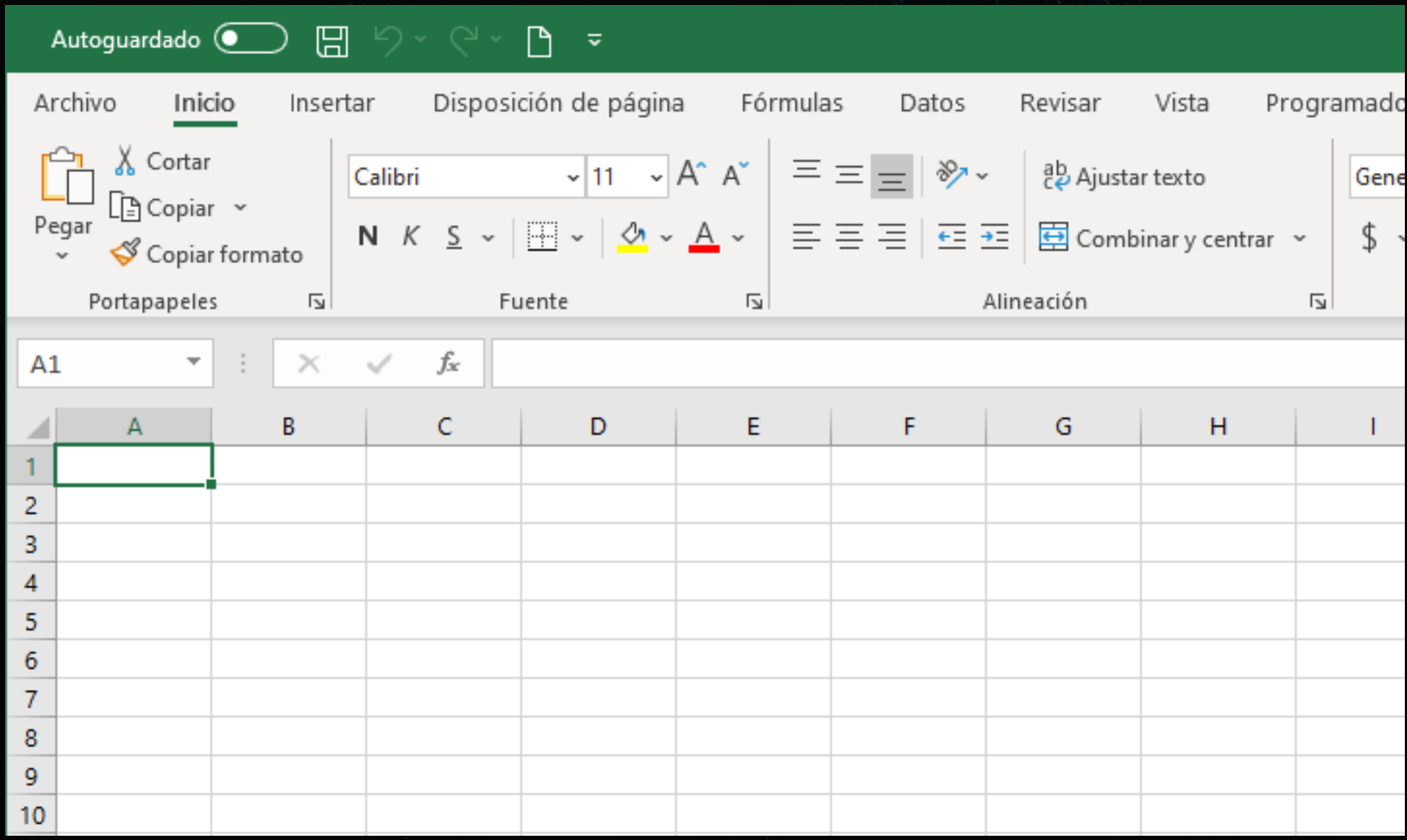
- **第二天** *Second day*
- 使用 *Praxelis* 数据进行实践 *Practice with Praxelis data*
- 加载数据集 *Load dataset*
- 相关性分析 *Correlation Analysis*
- 方差分析 *Analysis of Variance*

内容 *Activities*

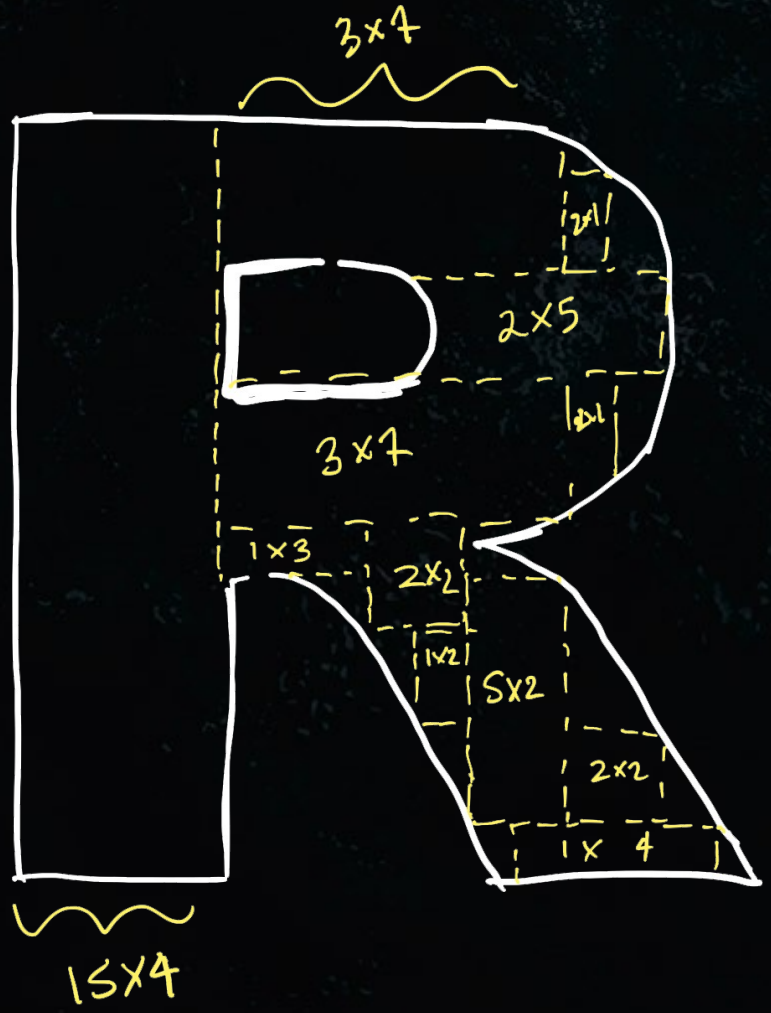
- www.pepiamodeo.com/cursoR/activity/activity_1.R
- www.pepiamodeo.com/cursoR/activity/activity_2.R
- www.pepiamodeo.com/cursoR/activity/activity_3.R
- www.pepiamodeo.com/cursoR/activity/activity_4.R

Wysiwyg

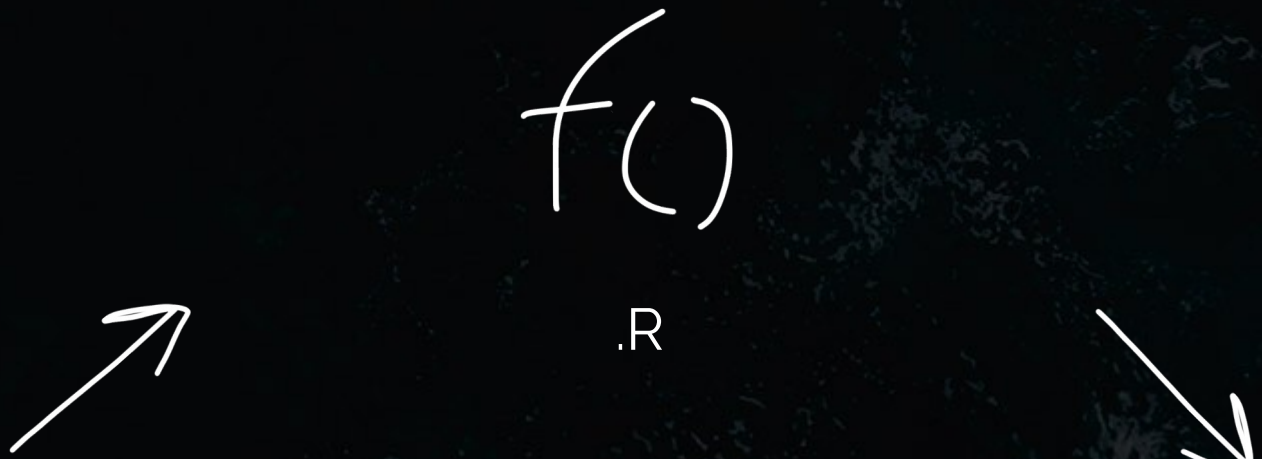
What You See is What You Get

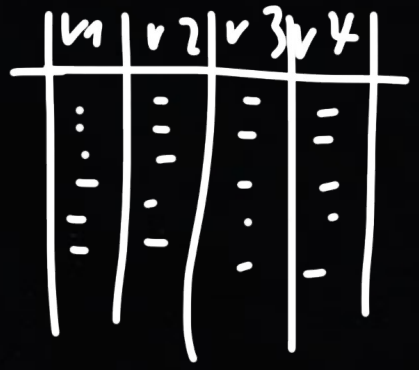


¿R?

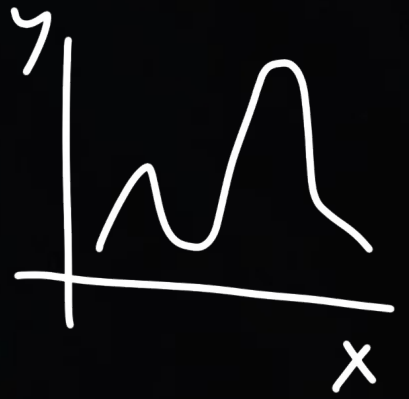


Worlflow



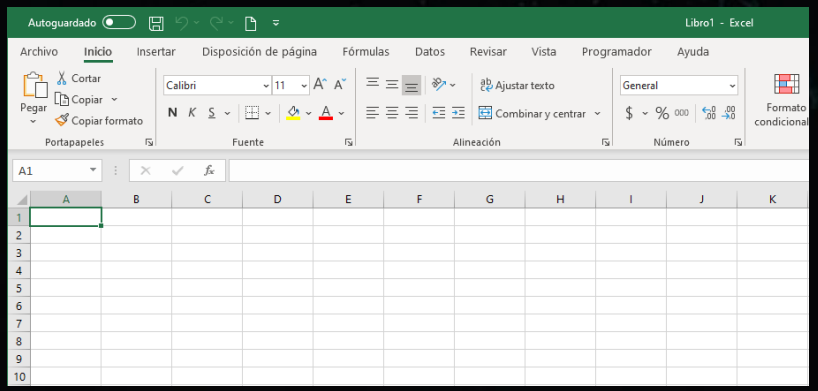


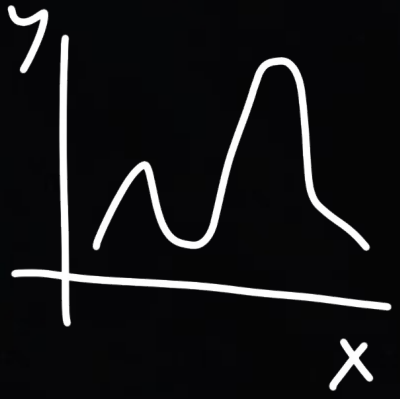
txt, csv, xlsx... geotiff...



csv, jpg, png, pdf, tiff

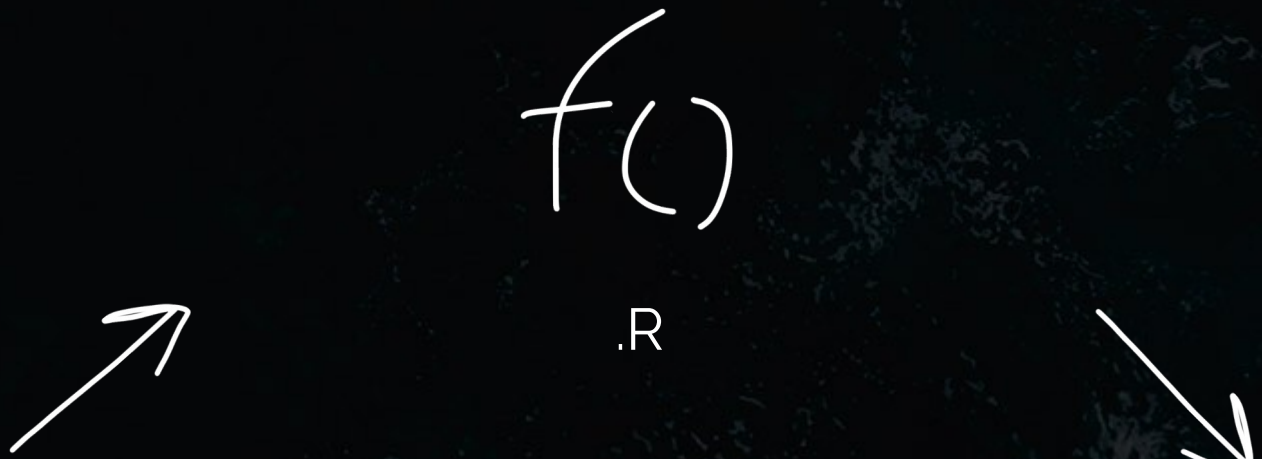
Work flow is not smooth with wysiwyg

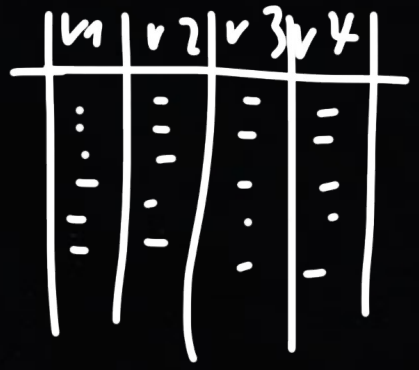




Reproducible Science

Workflow





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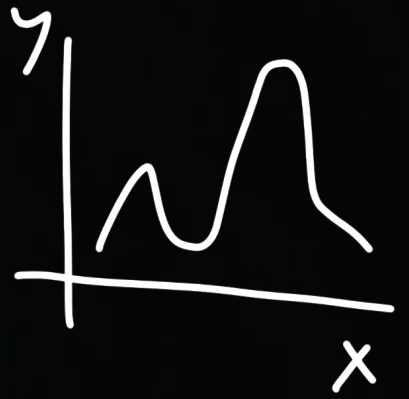


csv, jpg, png, pdf, tiff

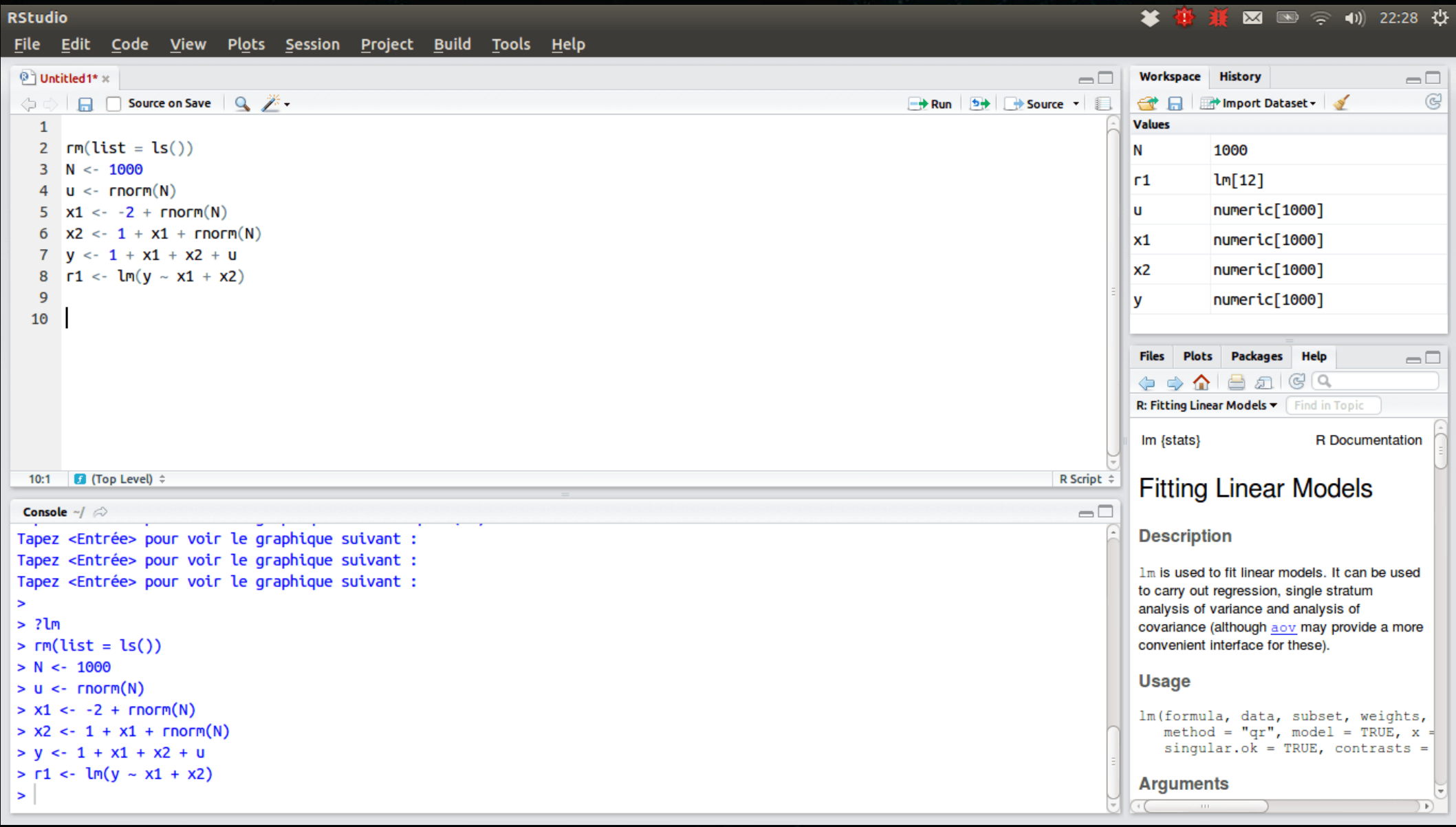
¿Rstudio?

Interface

- Another software we use to interact with R

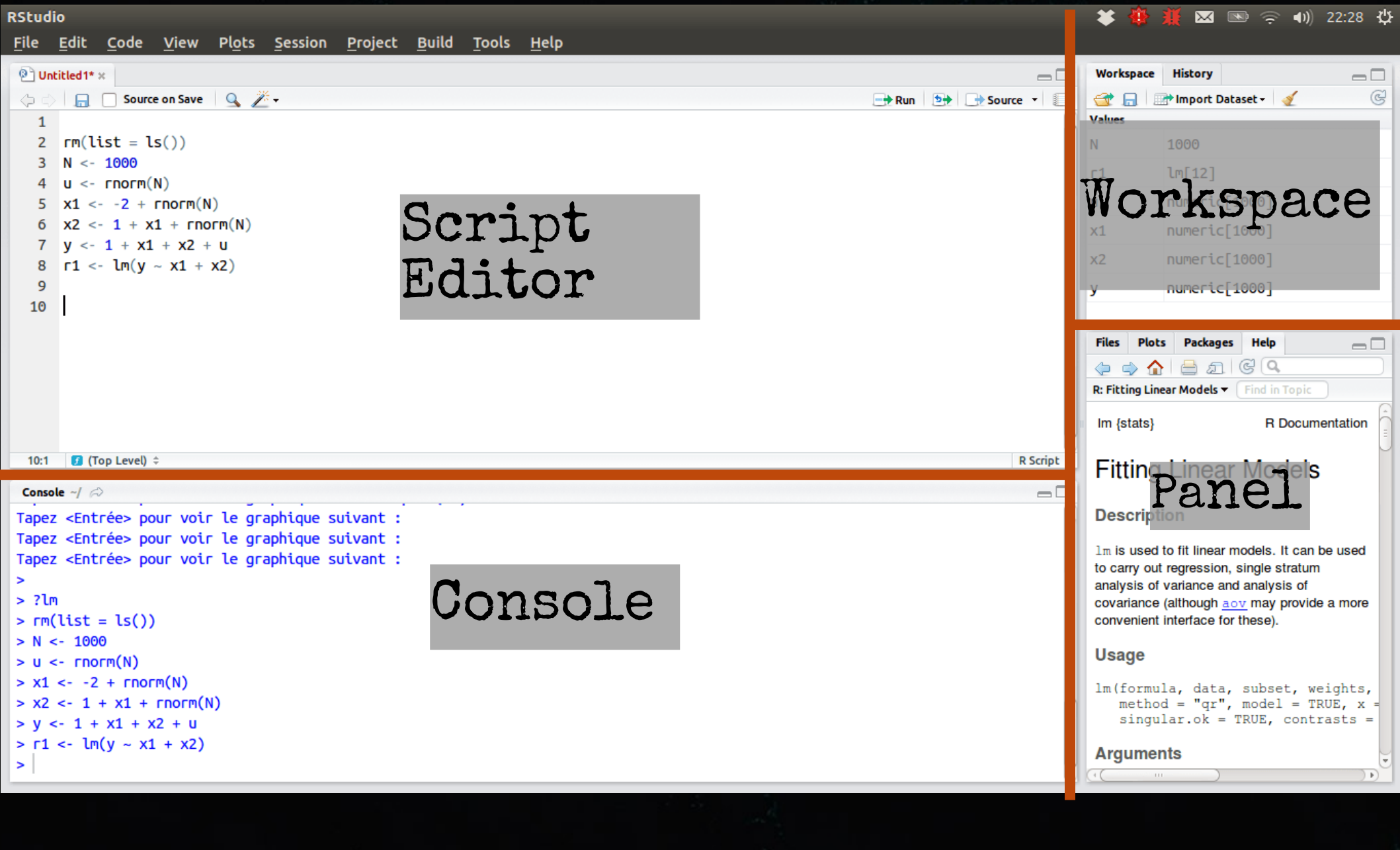
Rstudio

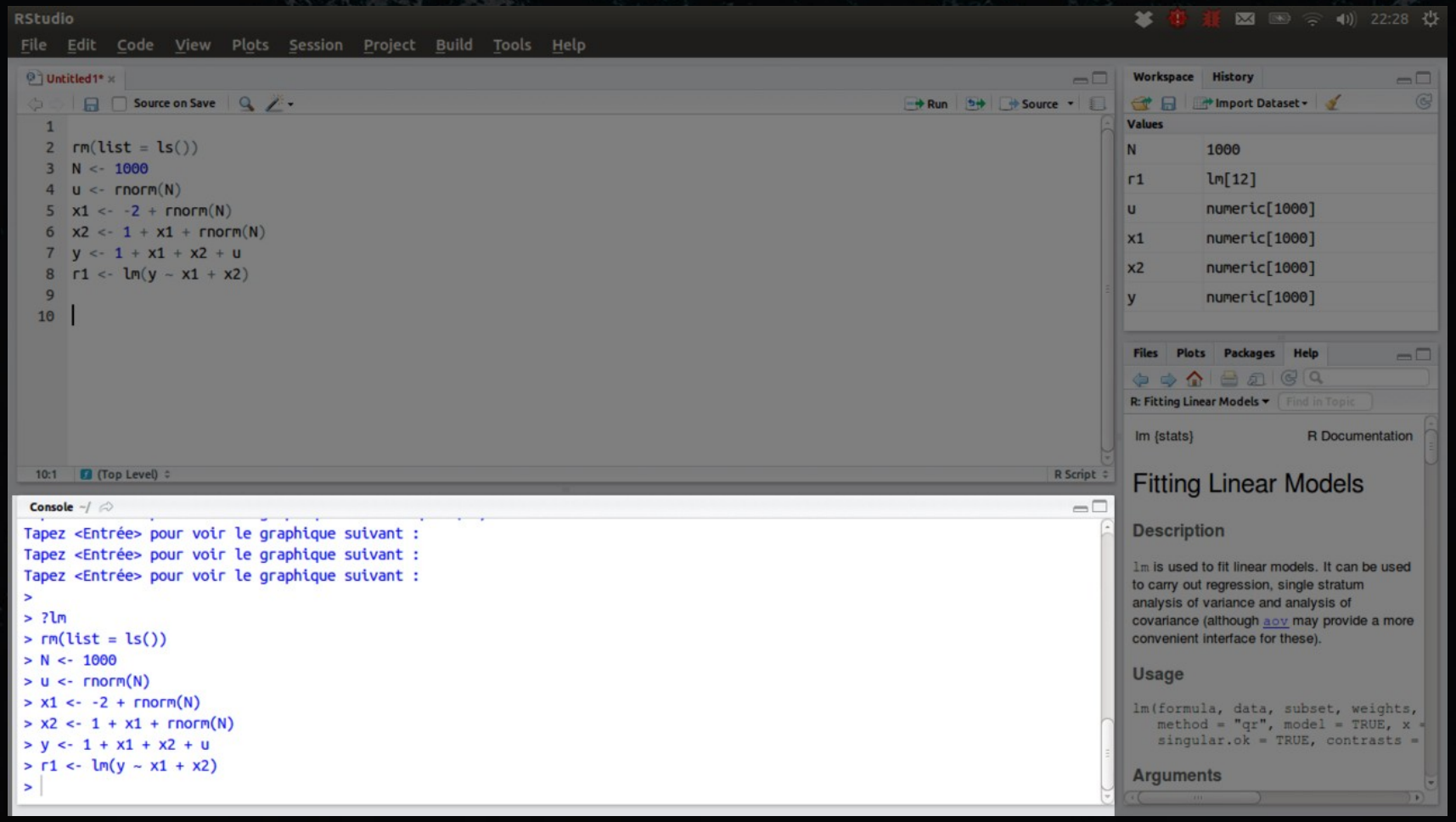
Interface



Rstudio

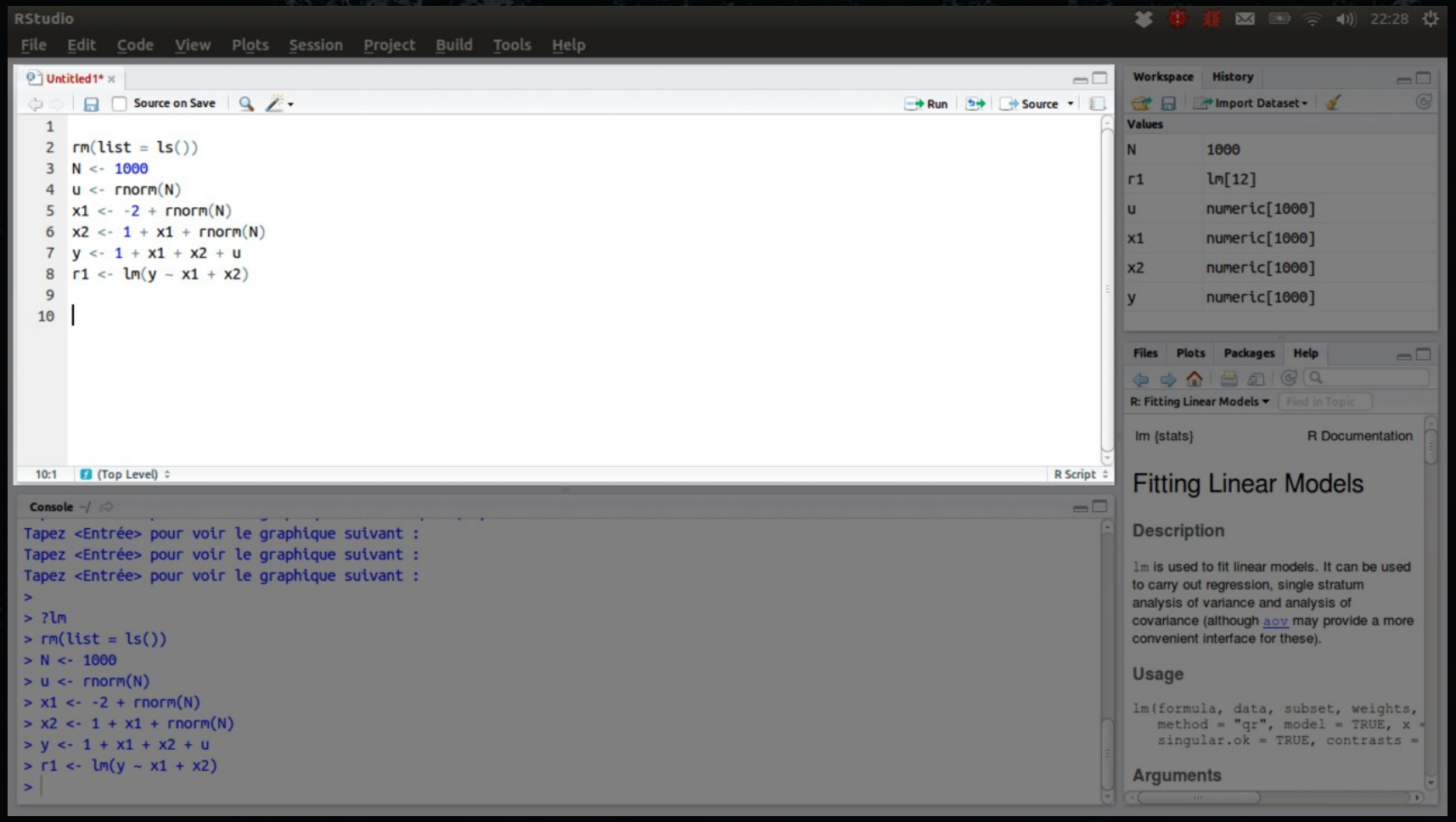
4 windows





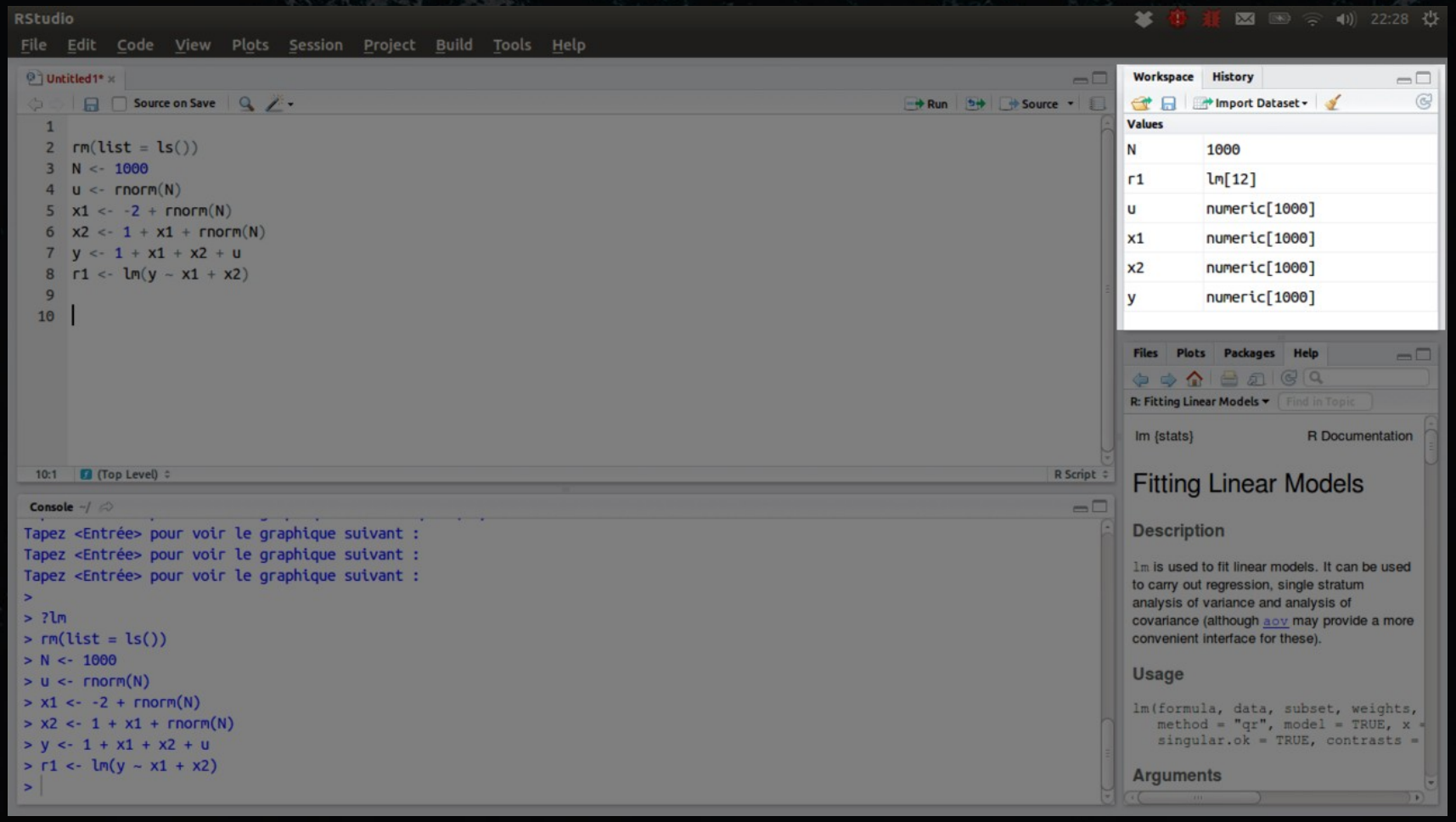
Console

A Window for communication



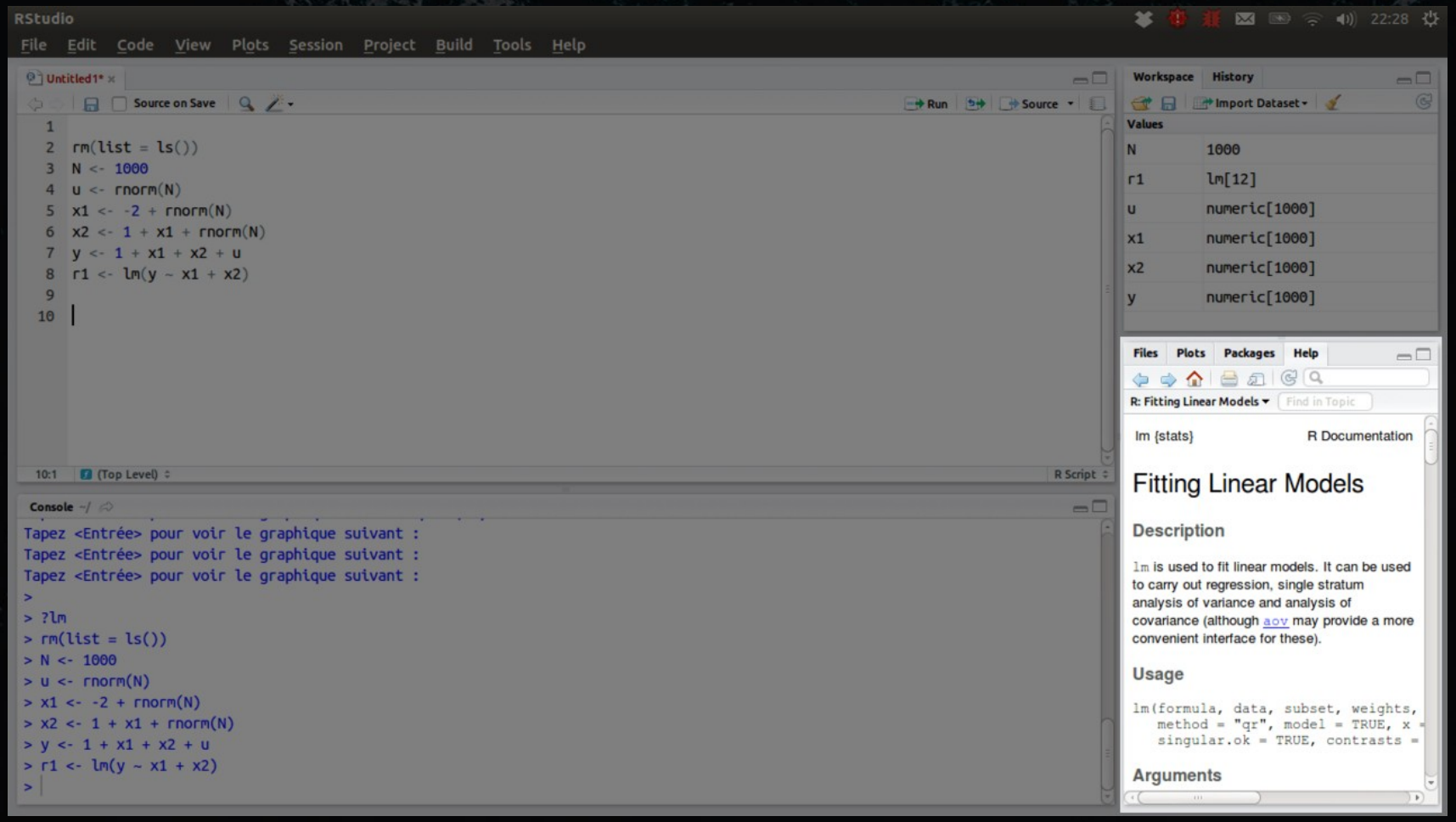
Script Editor

Script: Simple document with code



Workspace

It is the memory of R while we use it



Panel

Multiple functions: files/ packages / plots / help

R is the engine, Rstudio is the interface