第一次上机

生信 2001 张子栋 2020317210101

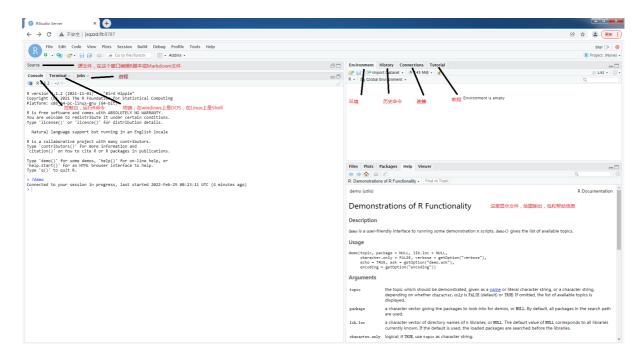
源文件 GitHub 地址:[MarkdownNotes/R at main ·

Bluuur/MarkdownNotes (github.com)]

(https://github.com/Bluuur/MarkdownNotes/tree/main/R)

界面的主要组成部分

主要有三个窗口,打开文件进行编辑时会出现四个窗口



以下为已安装的 package 列表

File	es Plots Packages Help	Viewer		-0
0	Install 🕡 Update		Q,	
	Name	Description	Version	
Use	er Library			
	corrplot	Visualization of a Correlation Matrix	0.92	⊕ ⊗
Sys	tem Library			
✓	base	The R Base Package	4.1.2	
	boot	Bootstrap Functions (Originally by Angelo Canty for S)	1.3-28	⊕ ⊗
	class	Functions for Classification	7.3-20	⊕ ⊗
	cluster	"Finding Groups in Data": Cluster Analysis Extended Rousseeuw et al.	2.1.2	⊕ ⊗
	codetools	Code Analysis Tools for R	0.2-18	⊕ ⊗
	compiler	The R Compiler Package	4.1.2	
✓	datasets	The R Datasets Package	4.1.2	
	foreign	Read Data Stored by 'Minitab', 'S', 'SAS', 'SPSS', 'Stata', 'Systat', 'Weka', 'dBase',	0.8-82	⊕ ⊗
✓	graphics	The R Graphics Package	4.1.2	
✓	grDevices	The R Graphics Devices and Support for Colours and Fonts	4.1.2	
	grid	The Grid Graphics Package	4.1.2	
	KernSmooth	Functions for Kernel Smoothing Supporting Wand & Jones (1995)	2.23-20	⊕ ⊗
	lattice	Trellis Graphics for R	0.20-45	⊕ ⊗
	MASS	Support Functions and Datasets for Venables and Ripley's MASS	7.3-55	⊕ ⊗
	Matrix	Sparse and Dense Matrix Classes and Methods	1.4-0	⊕ ⊗
✓	methods	Formal Methods and Classes	4.1.2	
	mgcv	Mixed GAM Computation Vehicle with Automatic Smoothness Estimation	1.8-38	⊕ ⊗
	nlme	Linear and Nonlinear Mixed Effects Models	3.1-155	⊕ ⊗
	nnet	Feed-Forward Neural Networks and Multinomial Log-Linear Models	7.3-17	⊕ ⊗
	parallel	Support for Parallel computation in R	4.1.2	
	rpart	Recursive Partitioning and Regression Trees	4.1.16	⊕ ⊗
	spatial	Functions for Kriging and Point Pattern Analysis	7.3-11	

help 的组成

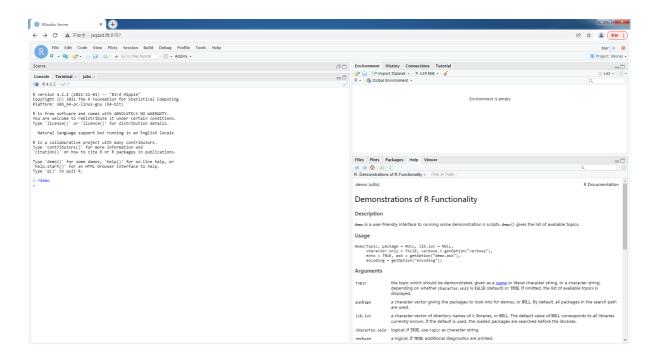
- 1. 标题
- 2. Description 简述
- 3. Usage 用法
- 4. Arguments 参数
- 5. Details 细节

此外还包括注意事项,参考内容和使用范例等

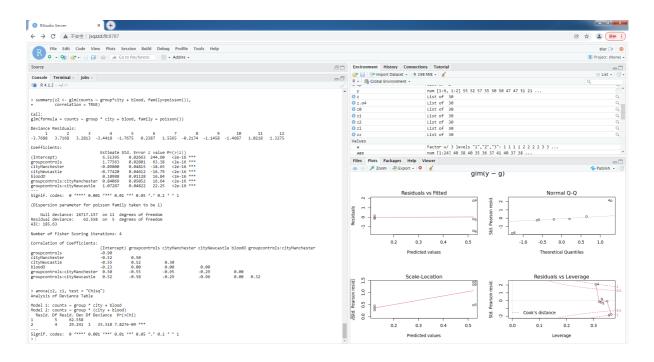
下图运行的是 demo 的 help 中的第一个例子,查看所有可用的 demo

运行 demo 的 help ,然后运行一个 package 的 demo

运行 demo 的 help:

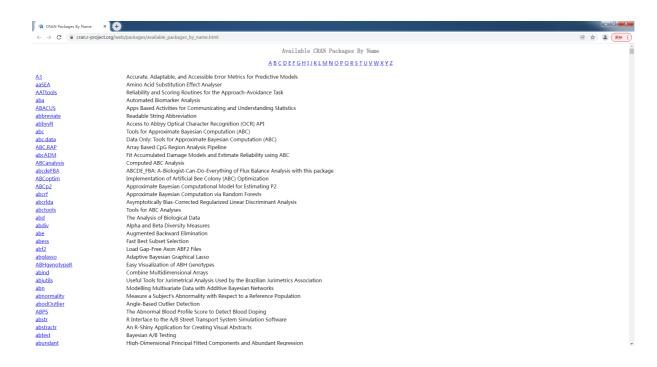


运行的 demo 命令为 demo(lm.glm, package = "stats", ask = TRUE)

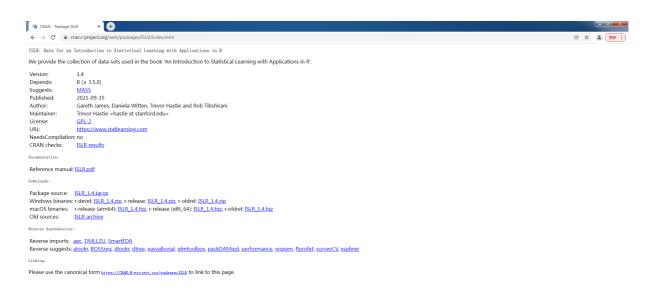


浏览 r-project 网页,安装任一 R package, 并在当前环境导入

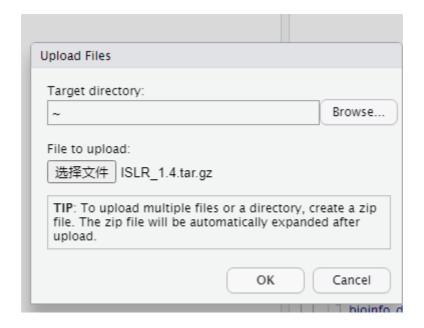
打开网页:



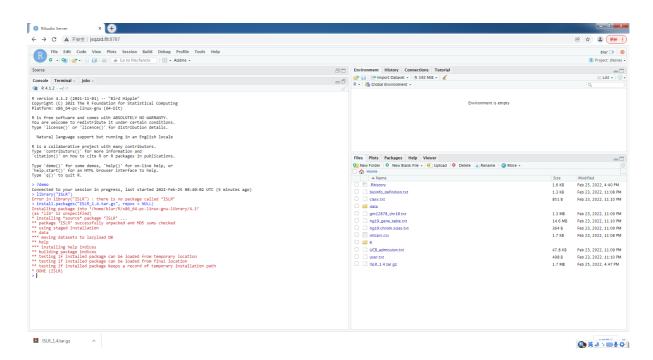
下载界面:



上传至 R studio server 服务器:



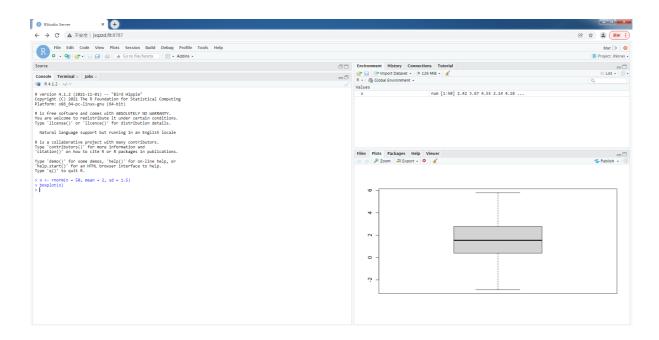
完成安装:



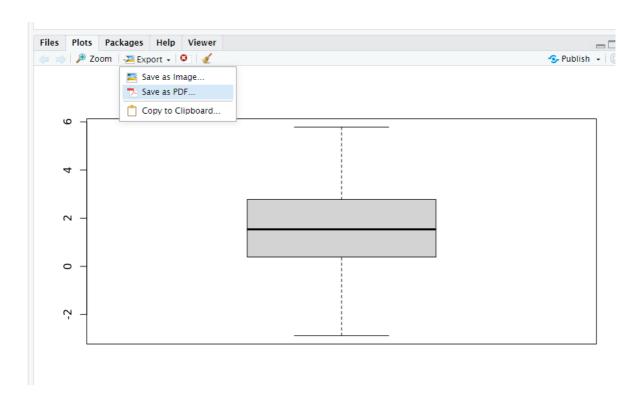
运行命令并绘图

运行命令 x <- rnorm(n = 50, mean = 2, sd = 1.5)

并绘出箱线图



选择导出为 pdf:



储存命令为 R 脚本

选中需要储存的命令:

```
Environment History Connections Tutorial
💣 🔒 💽 To Console 🚆 To Source 👂 🎻
help(==)
help("==")
? demo
?demo
?demo
demo(package = .packages(all.available = TRUE))
demo(lm.glm, package = "stats", ask = TRUE)
?demo
library("ISLR")
install.packages("ISLR_1.4.tar.gz", repos = NULL)
x < -rnorm(n = 50, mean = 2, sd = 1.5)
boxplot(x)
             Packages Help Viewer
Files Plots
```

存为 R 脚本:

运行:

