

Foundations of R Software

Lecture 4

Introduction

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Command Line and Data Editor

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Command Line versus Scripts

What is command line?

```
R Console

R version 4.1.2 (2021-11-01) -- "Bird Hippie"
Copyright (C) 2021 The R Foundation for Statistical Computing
Platform: x86_64-w64-mingw32/x64 (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.

[Previously saved workspace restored]

> |
```



Command line. Type commands here

Command Line versus Scripts

Execution of commands in R is not menu driven.

(Not like Clicking over buttons to get outcome)

We need to type the commands.

Single line and multi line commands are possible to write.

When writing multi-line programs, it is useful to use a text editor rather than execute everything directly at the command line.

Command Line versus Scripts

Option 1:

One may use R's own built-in editor.

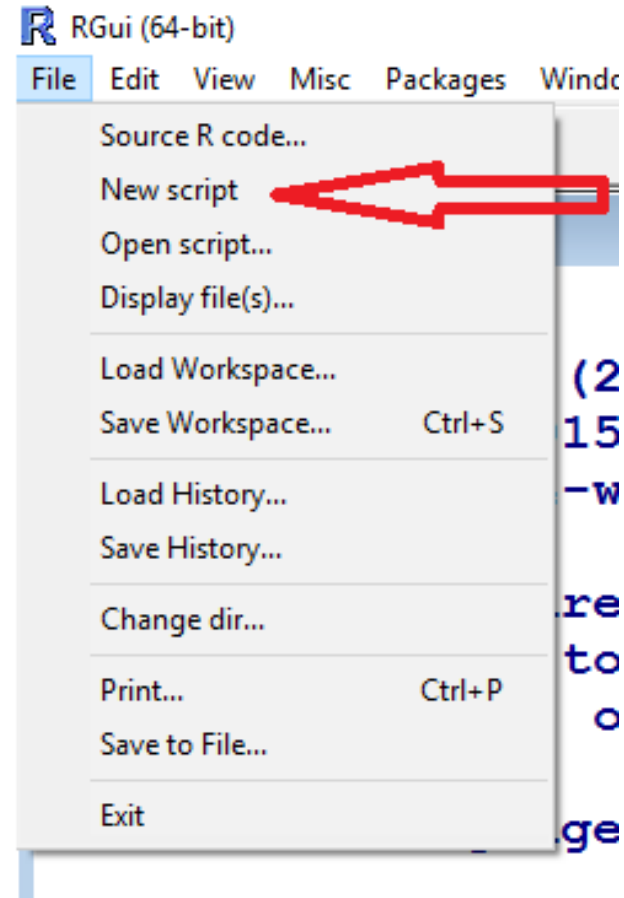
It is accessible from the **RGui** menu bar.

Click **File** and then click on **New script**.

Command Line versus Scripts

At this point R will
open a window entitled
Untitled-R Editor.

We may type and edit in this.



If we want to execute a line or a group of lines, just highlight them and press **Ctrl+R**.

Command Line versus Scripts

Option 2:

Use other editor software which help running of R.

Different editors are available- R studio, Tinn R etc.

They are free software.

R Studio is an editor which helps working in R.

Tinn R is is another editor available at

(<https://sourceforge.net/projects/tinn-r>)

Installing R Studio

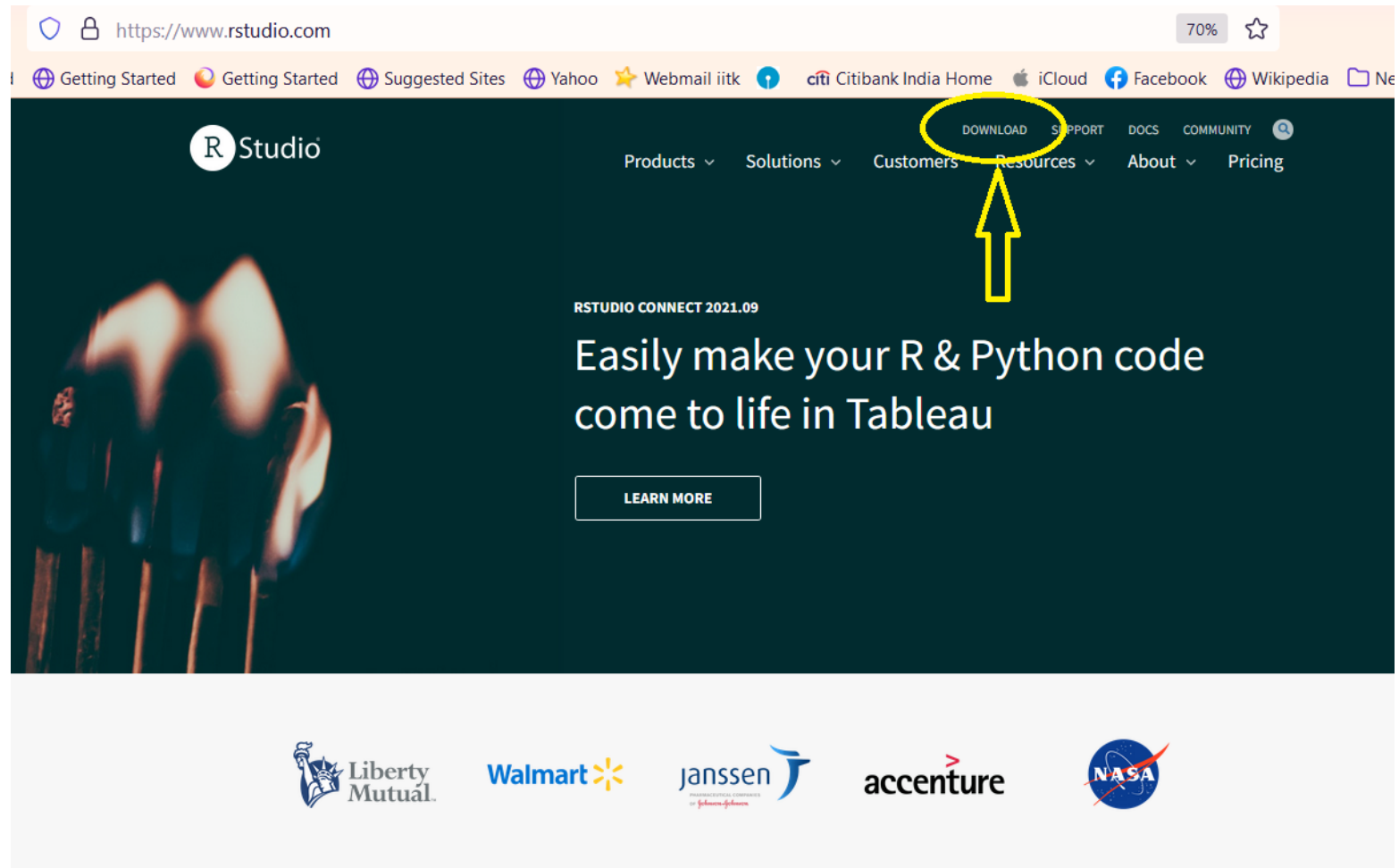
R Studio is a software which helps in running the R software.

R Studio is written in C++ programming language.

R Studio is a free and open-source integrated development environment (IDE) for R.

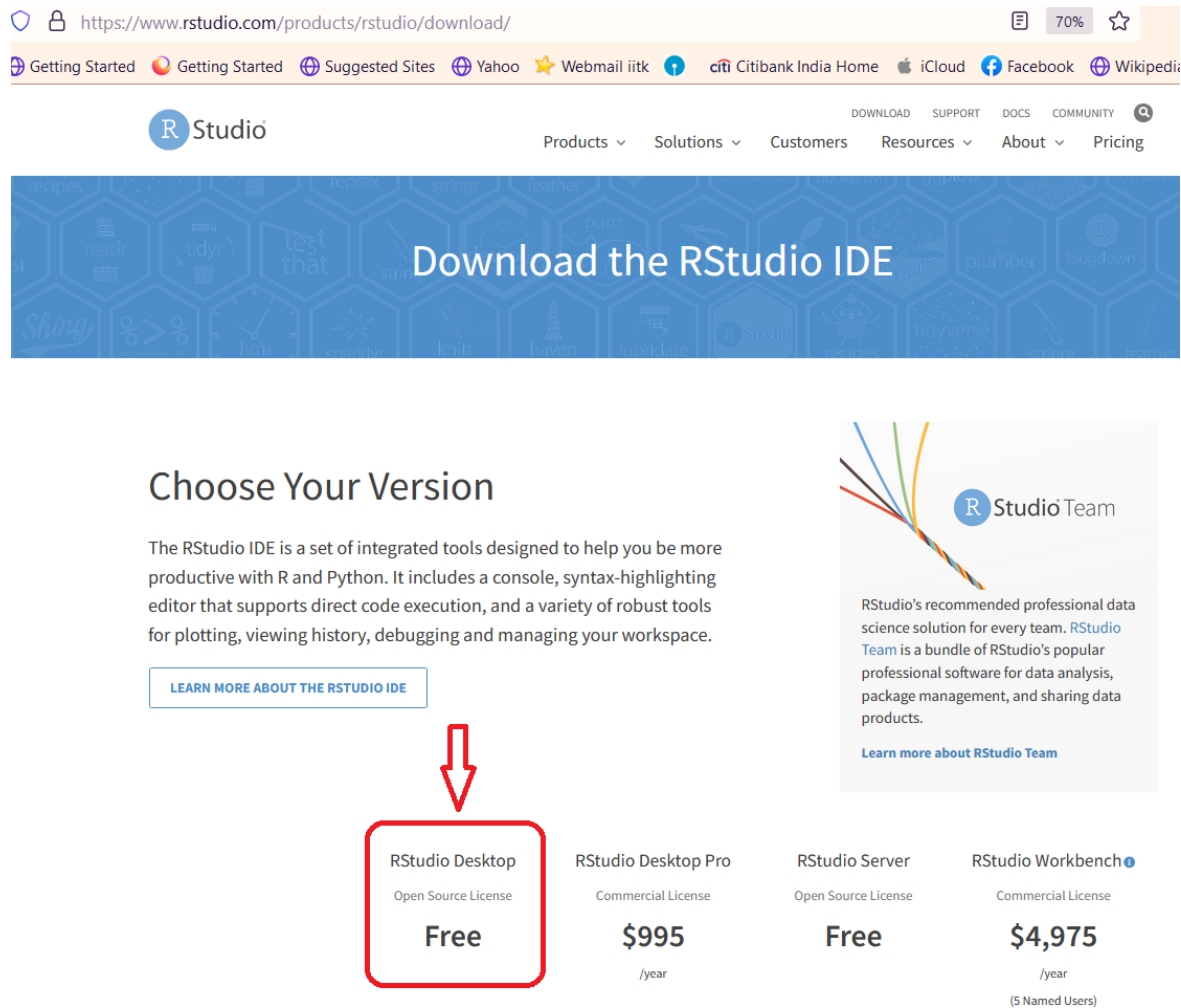
Download R Studio software from website
<https://www.rstudio.com/>

Installing R Studio



Click on Download.

Installing R Studio



The screenshot shows the RStudio website's download page. At the top, the browser address bar shows 'https://www.rstudio.com/products/rstudio/download/'. Below the navigation bar, a large blue banner reads 'Download the RStudio IDE'. Underneath, the 'Choose Your Version' section describes the RStudio IDE as a set of integrated tools for R and Python. A red arrow points from a 'LEARN MORE ABOUT THE RSTUDIO IDE' button to the 'RStudio Desktop' option. The pricing table below lists four options: RStudio Desktop (Open Source License, Free), RStudio Desktop Pro (Commercial License, \$995/year), RStudio Server (Open Source License, Free), and RStudio Workbench (Commercial License, \$4,975/year for 5 Named Users).

Choose Your Version

The RStudio IDE is a set of integrated tools designed to help you be more productive with R and Python. It includes a console, syntax-highlighting editor that supports direct code execution, and a variety of robust tools for plotting, viewing history, debugging and managing your workspace.

[LEARN MORE ABOUT THE RSTUDIO IDE](#)

RStudio Desktop
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Free

RStudio Desktop Pro
Commercial License
\$995
/year

RStudio Server
Open Source License
Free

RStudio Workbench
Commercial License
\$4,975
/year
(5 Named Users)

Download and double click on the downloaded file.

Command Line versus Scripts

Use R Studio software.

