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# R for Bioinformatics and HDS

R & RStudio:  
Setting up a new project



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# Course Structure

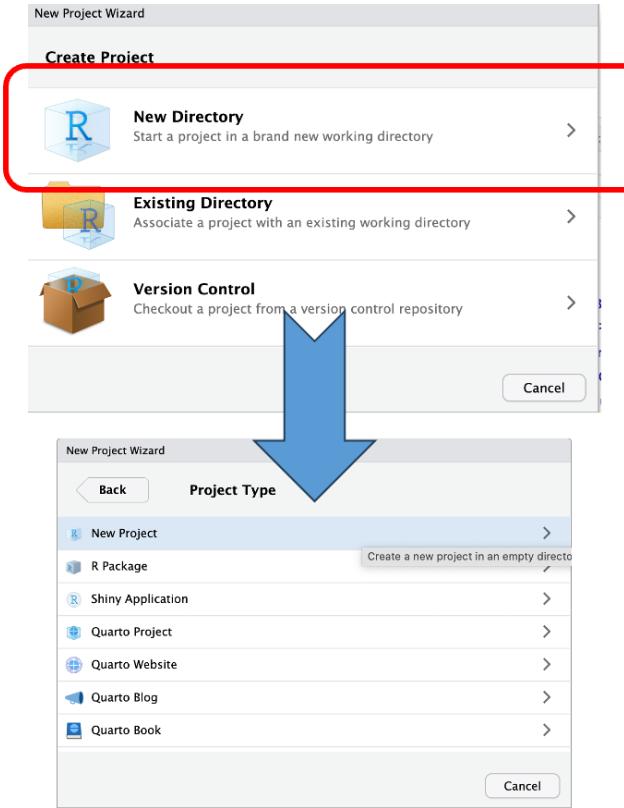
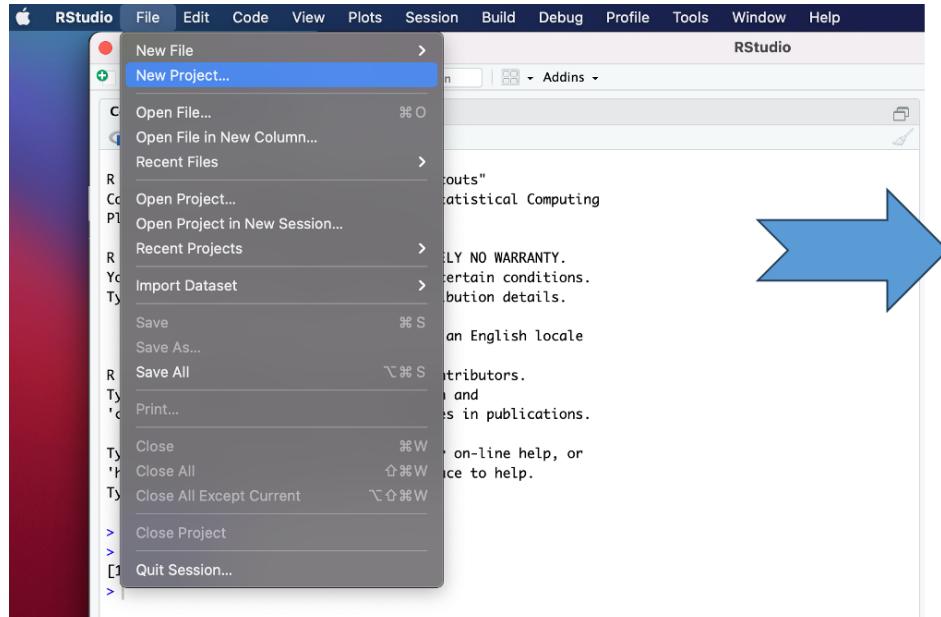
- Introduction to R & RStudio
- Syntax, Comments, Variables, Data Types and Operators
- Conditions, Loops, Functions and Data Structures
- Working with Data frames



# Getting Set UP – How to make a new Project

- Make a new project:  
**File menu** -> click on **New Project** -> choose **New Directory** -> then **New Project**
- Choose a convenient place to save your project (e.g., Desktop)
- Choose a convenient name (e.g., RSession1). **Don't use spaces!**
- Make a new folder:  
**Files** (tab on the right of the screen) -> click on **New Folder** -> folder name data
- Create a new R script  
**File** -> **New File** -> **R-script**



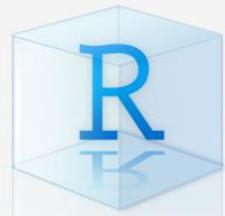


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## New Project Wizard

Back

### Create New Project



Directory name:

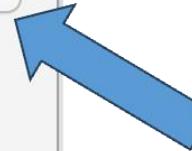
RSession1



Create project as subdirectory of:

/Users/vasilislenis/Desktop

[Browse...](#)



Create a git repository

Use renv with this project

**Name the new project as you wish (no gaps)**

Open in new session

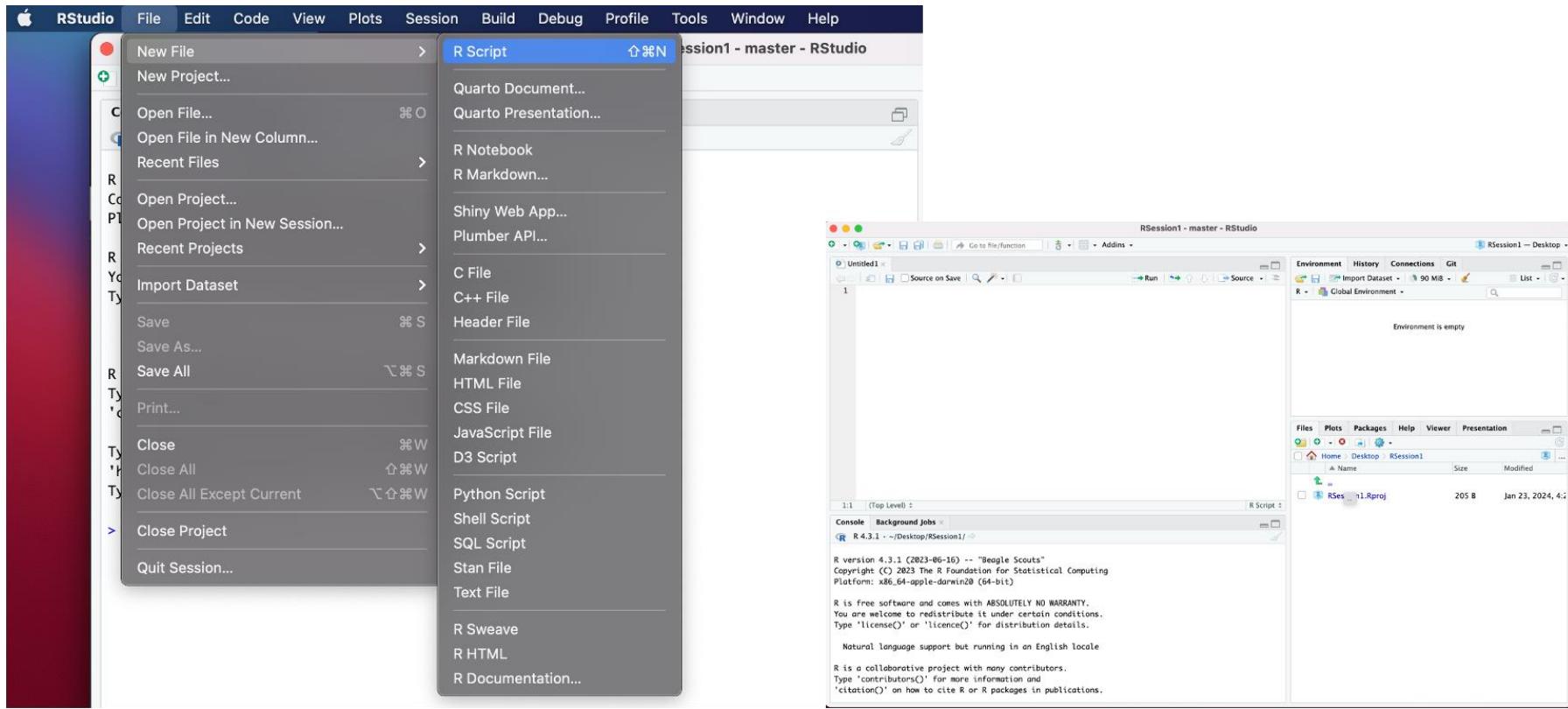
[Create Project](#)

[Cancel](#)

**Don't forget to save it in a convenient place!**



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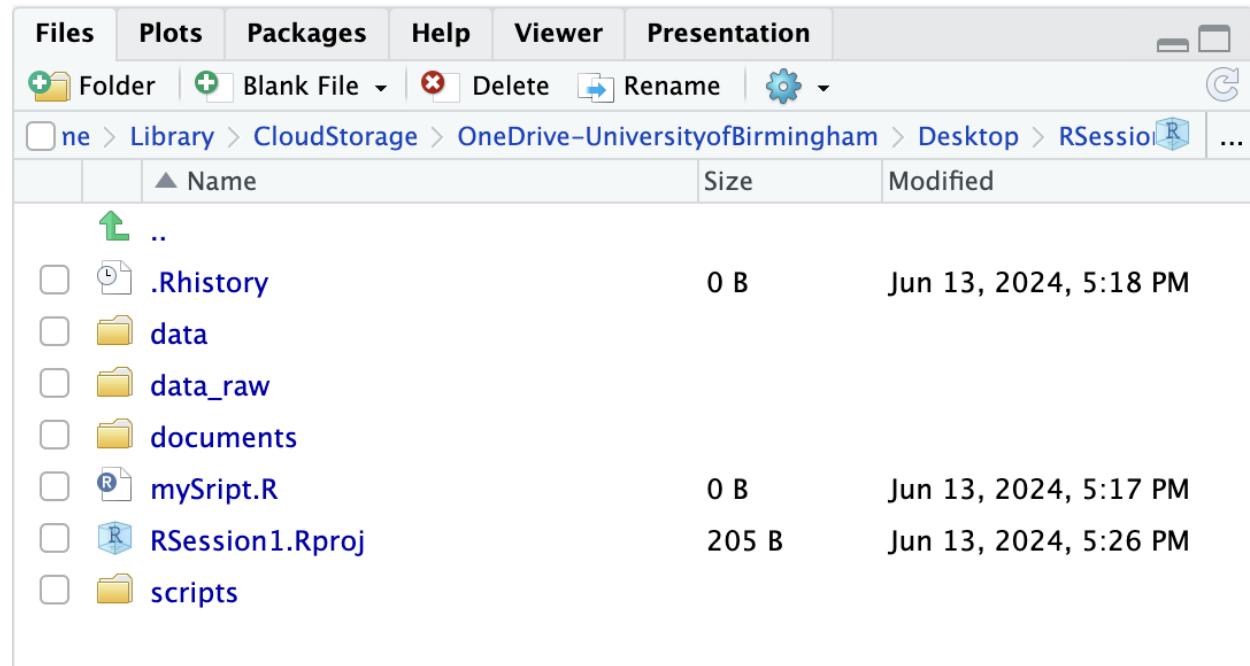
# Organizing your working directory

- **data\_raw/ & data/** Use these folders to store raw data and intermediate datasets you may create for the need of a particular analysis.
- **documents/** This would be a place to keep outlines, drafts, and other text.
- **scripts/** This would be the location to keep your R scripts for different analyses or plotting
- **Additional (sub)directories** depending on your project needs.



# Working Directory

And your working directory (bottom right panel) looks like this:



The screenshot shows the RStudio interface with the 'Files' tab selected in the top menu bar. The bottom right panel displays the 'Working Directory' content. The path in the toolbar is: 'ne > Library > CloudStorage > OneDrive–UniversityofBirmingham > Desktop > RSession1.Rproj'. The table lists the following files and folders:

|  | Name            | Size  | Modified              |
|--|-----------------|-------|-----------------------|
|  | ..              |       |                       |
|  | .Rhistory       | 0 B   | Jun 13, 2024, 5:18 PM |
|  | data            |       |                       |
|  | data_raw        |       |                       |
|  | documents       |       |                       |
|  | myScript.R      | 0 B   | Jun 13, 2024, 5:17 PM |
|  | RSession1.Rproj | 205 B | Jun 13, 2024, 5:26 PM |
|  | scripts         |       |                       |



# How to create a new project



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