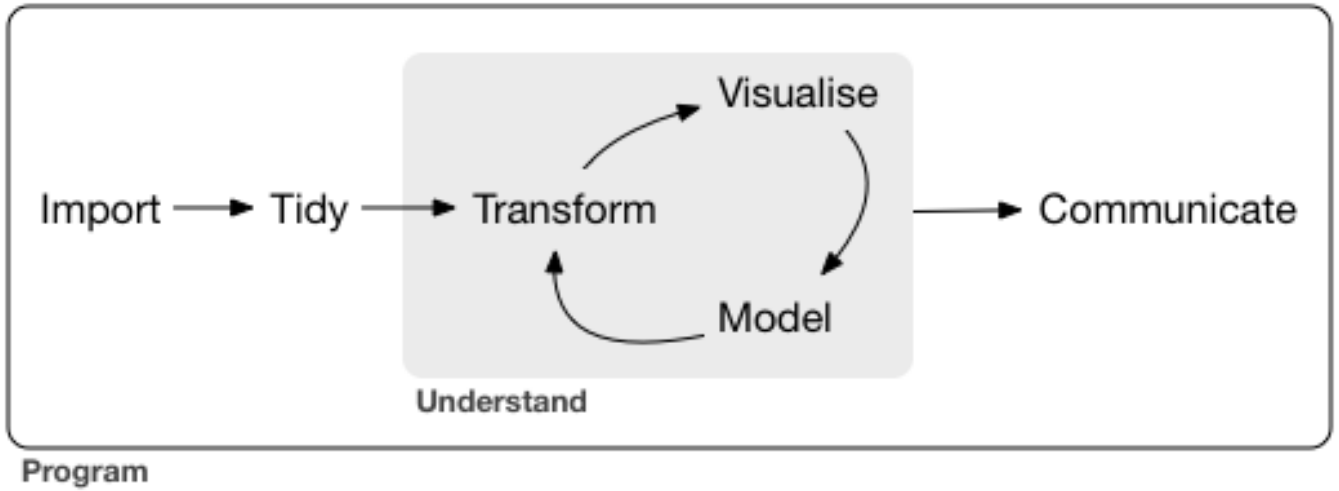
Data Analysis

Introduction

Prof. Dr. Gero Szepannek
Statistics, Business Mathematics & Machine Learning
Stralsund University of Applied Sciences



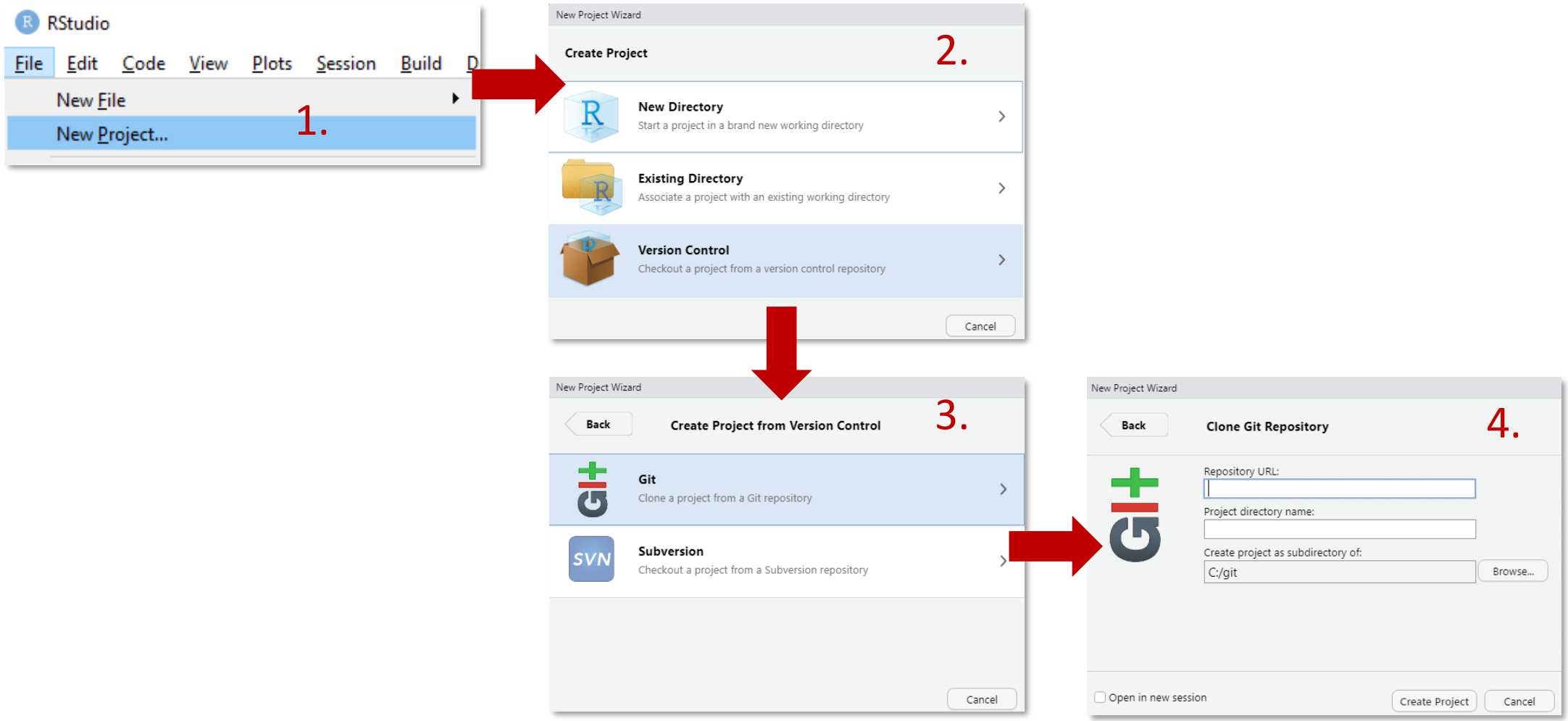
https://r4ds.had.co.nz/introduction.html

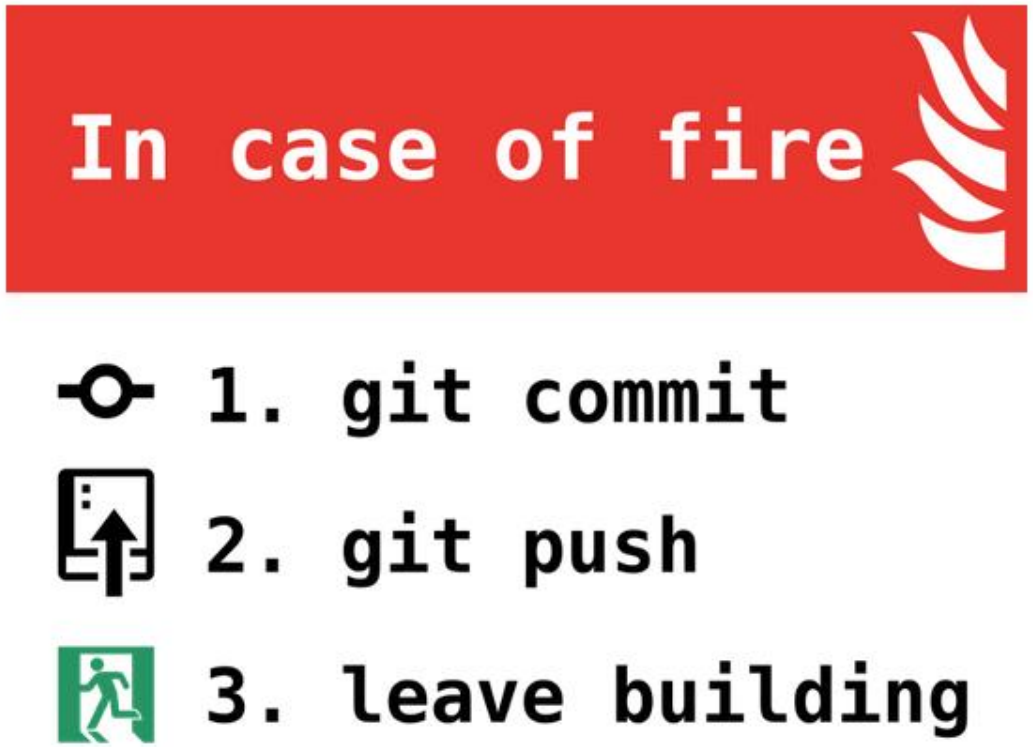
Happy Git and GitHub for the useR

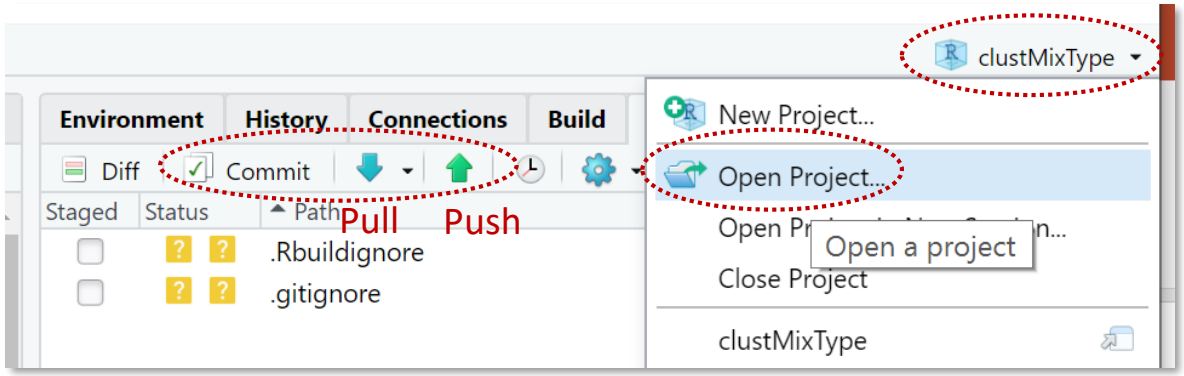
Jenny Bryan, the STAT 545 TAs, Jim Hester

Let's Git started

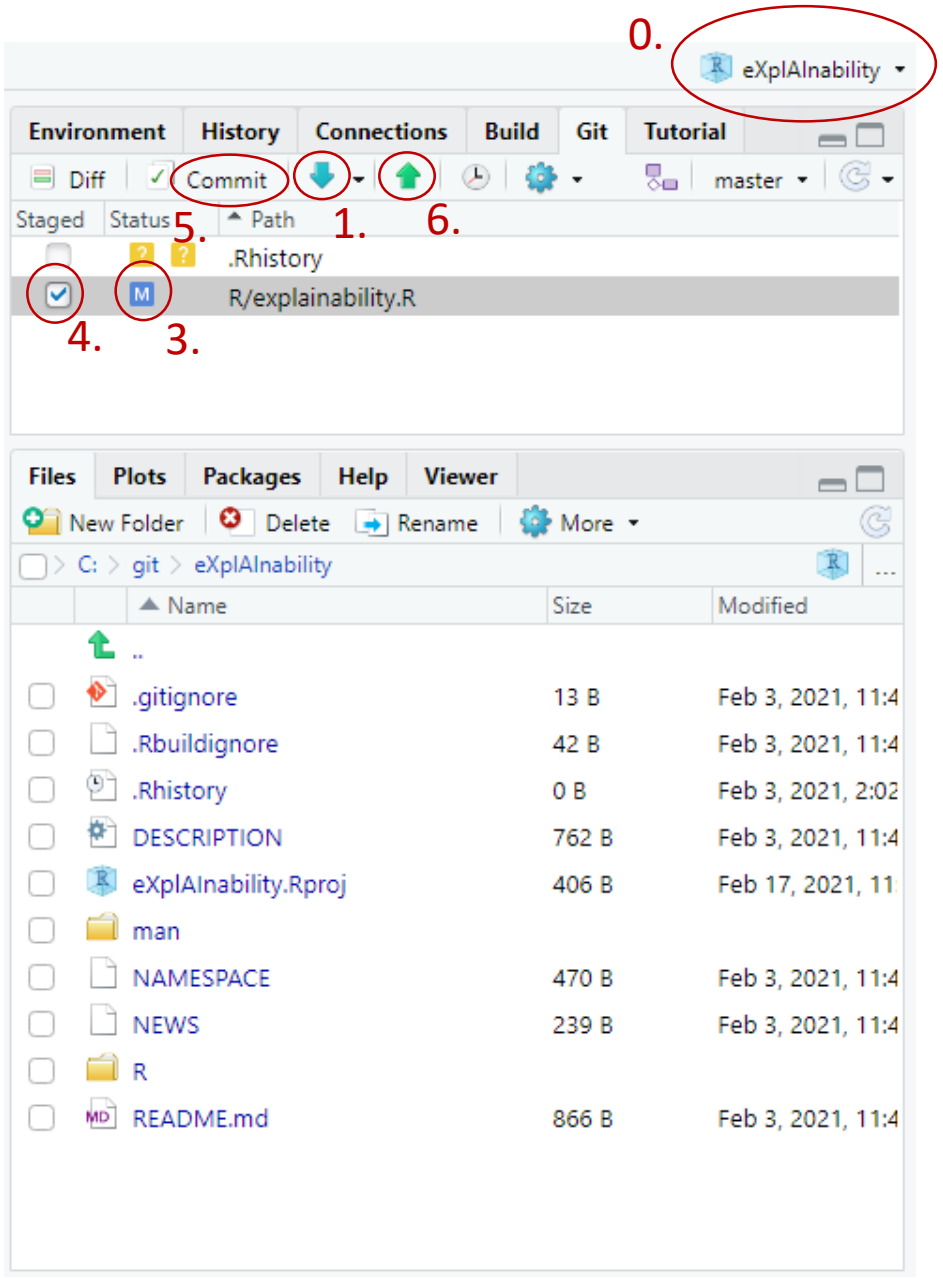
https://happygitwithr.com/


RStudio
File Edit Code View Plots Session Build D
New File
New Project...
1.
New Project Wizard
Create Project
2.
New Directory
Start a project in a brand new working directory
Existing Directory
Associate a project with an existing working directory
Version Control
Checkout a project from a version control repository
Cancel
New Project Wizard
Back
Create Project from Version Control
3.
Git
Clone a project from a Git repository
Subversion
Checkout a project from a Subversion repository
Cancel
New Project Wizard
Back
Clone Git Repository
4.
Repository URL:
Project directory name:
Create project as subdirectory of:
C:/git
Browse...
Open in new session
Create Project
Cancel

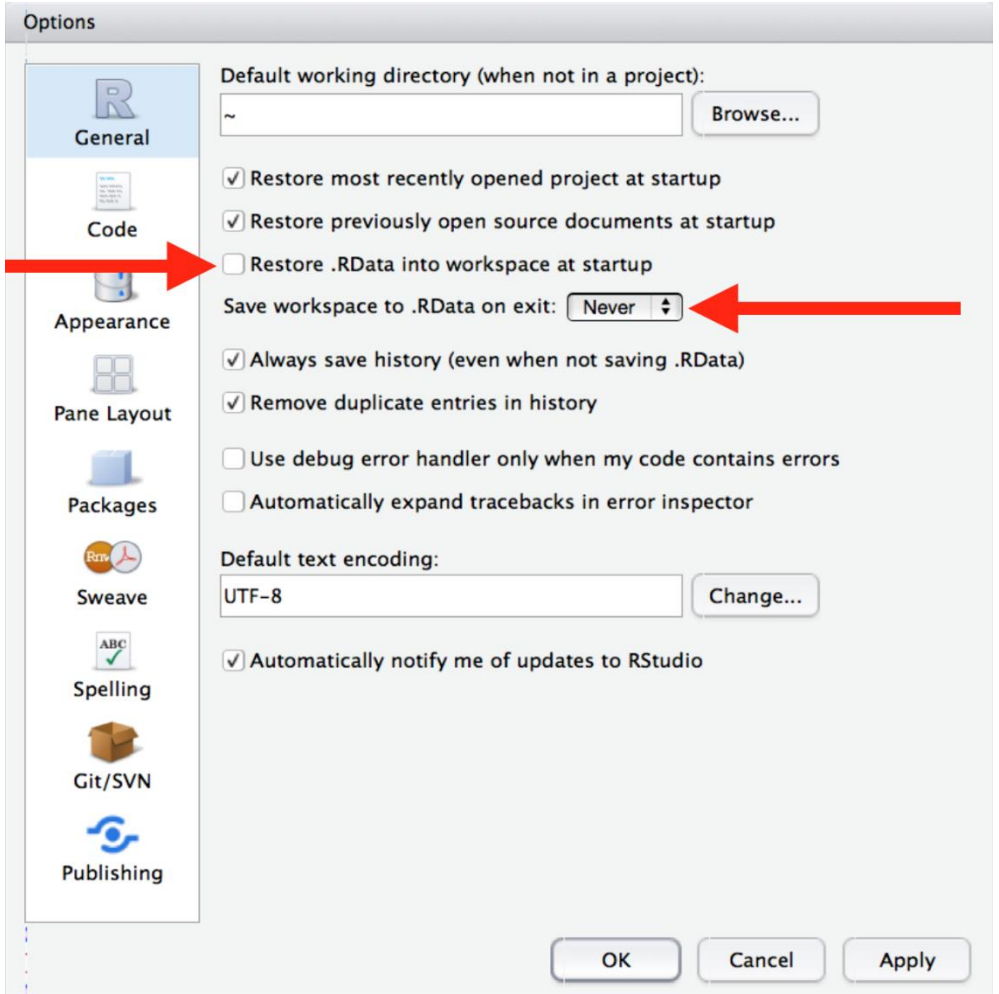




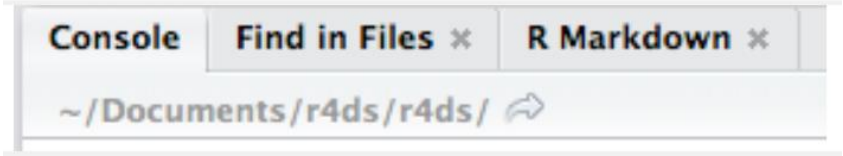
https://medium.com/mindorks/what-is-git-commit-push-pull-log-aliases-fetch-config-clone-56bc52a3601c



0. Open project
1. Pull latest version from github
2. …work…
3. …modified files appear
4. Mark modified files that should be commited
5. Commit (+ add comment if requested)
6. Push to Github

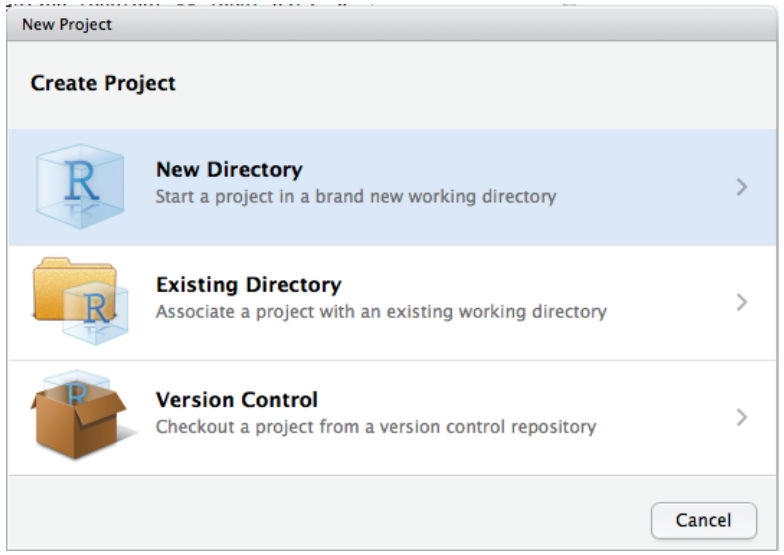


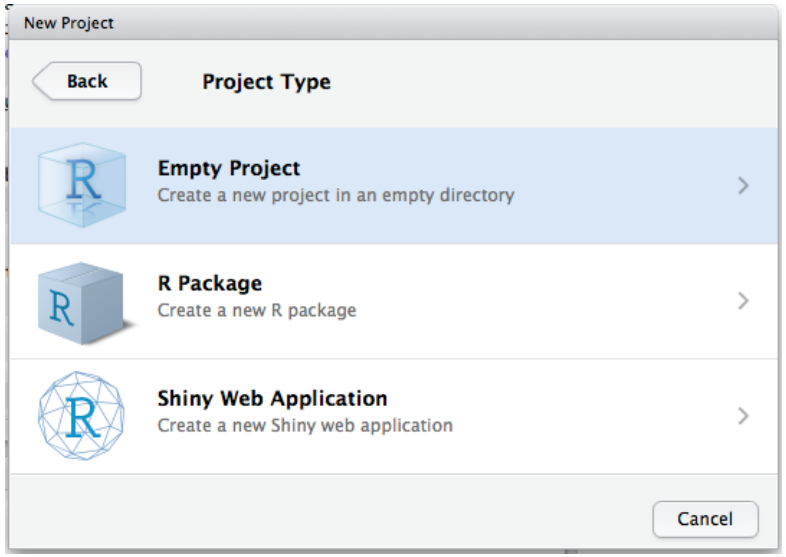
- **Working directory**: This is where R looks for files that you ask it to load, and where it will put any files that you ask it to save. RStudio shows your current working directory at the top of the console (or alternatively use `getwd()`):

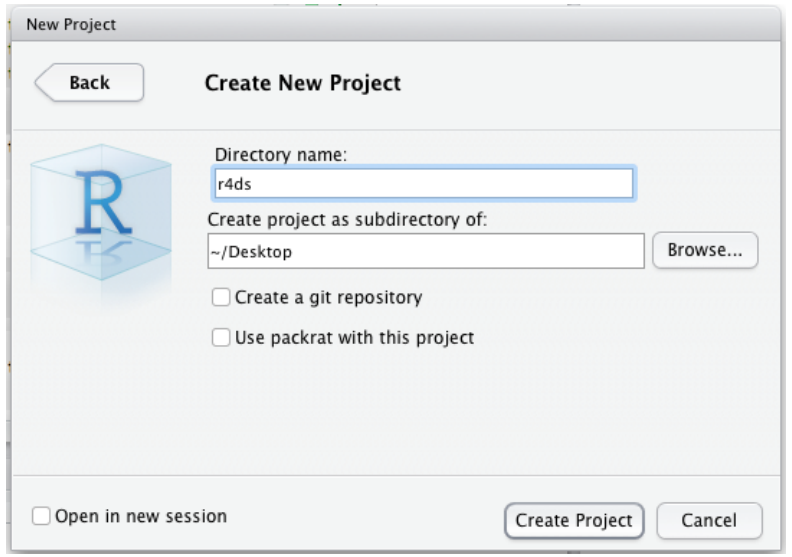


- Avoid automatic saving of the workspace!

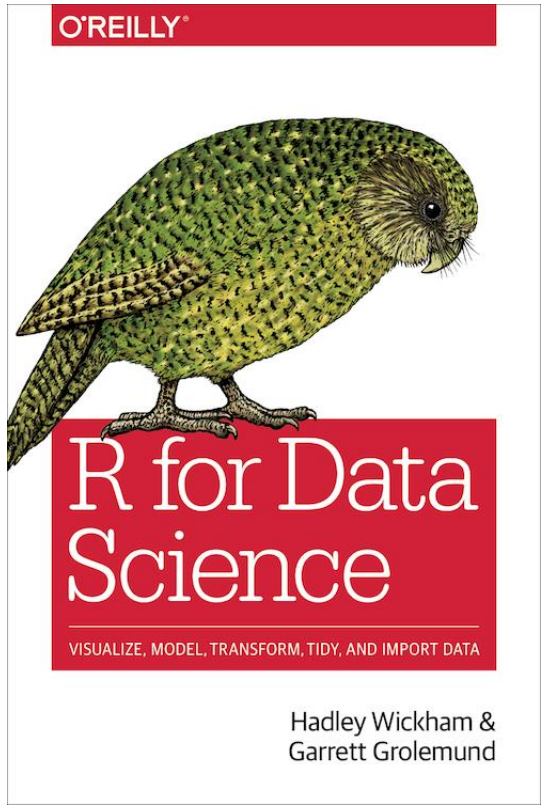
- Create an RStudio project for each data analysis project.
- Keep data files there; we'll talk about loading them into R in data import.
- Keep scripts there; edit them, run them in bits or as a whole.
- Save your outputs (plots and cleaned data) there.
- Only ever use relative paths, not absolute paths.







...type getwd()



https://r4ds.had.co.nz/index.html
Today: chapter 6 (/online: chapter 8)