MANAGING YOUR WORKFLOW WITH RProjects

ECON 480 - ECONOMETRICS - FALL 2018

Ryan Safner

November 26, 2018





• A **project** is a way of systematically organizing your **R** history, working directory, and related files in a single package



- A **project** is a way of systematically organizing your **R** history, working directory, and related files in a single package
- $\boldsymbol{\cdot}$ Can easily be sent to others who can reproduce your work easily



- A **project** is a way of systematically organizing your **R** history, working directory, and related files in a single package
- · Can easily be sent to others who can reproduce your work easily
- · Connects well with version control software like GitHub



- A **project** is a way of systematically organizing your **R** history, working directory, and related files in a single package
- · Can easily be sent to others who can reproduce your work easily
- · Connects well with version control software like GitHub
- · Can open multiple projects in multiple windows



 $\boldsymbol{\cdot}$ Projects solve all of the following problems:



- Projects solve all of the following problems:
 - 1. Organizing your files (data, plots, text, citations, etc)



- Projects solve all of the following problems:
 - 1. Organizing your files (data, plots, text, citations, etc)
 - 2. Having an accessible working directory (for loading and saving data, plots, etc)



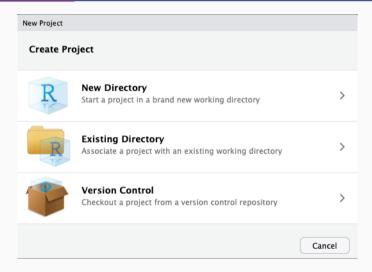
- Projects solve all of the following problems:
 - 1. Organizing your files (data, plots, text, citations, etc)
 - 2. Having an accessible working directory (for loading and saving data, plots, etc)
 - 3. Saving and reloading your commands history and preferences



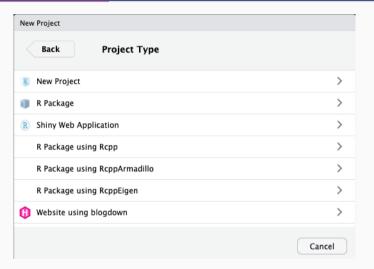
- Projects solve all of the following problems:
 - 1. Organizing your files (data, plots, text, citations, etc)
 - 2. Having an accessible working directory (for loading and saving data, plots, etc)
 - 3. Saving and reloading your commands history and preferences
 - 4. Sending files to collaborators, so they have the same working directory as you



CREATING A PROJECT









CREATING A PROJECT: TYPES

 \cdot In almost all cases, you simply want a ${\tt New\ Project}$



CREATING A PROJECT: TYPES

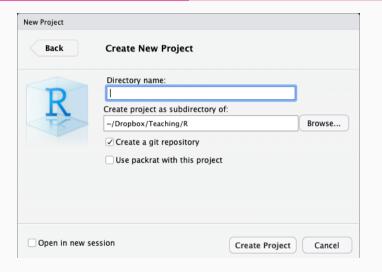
- · In almost all cases, you simply want a New Project
- For more advanced uses, your project can be an R Package or a Shiny Web Application



CREATING A PROJECT: TYPES

- · In almost all cases, you simply want a New Project
- For more advanced uses, your project can be an R Package or a Shiny Web Application
- If you have other packages that create templates installed (as I do, in the previous image), they will also show up as options







• Enter a name for the project in the top field



- · Enter a name for the project in the top field
 - $\boldsymbol{\cdot}$ Also creates a folder on your computer with the name you enter into the field



- Enter a name for the project in the top field
 - $\boldsymbol{\cdot}$ Also creates a folder on your computer with the name you enter into the field
- $\boldsymbol{\cdot}$ Choose the location of the folder on your computer

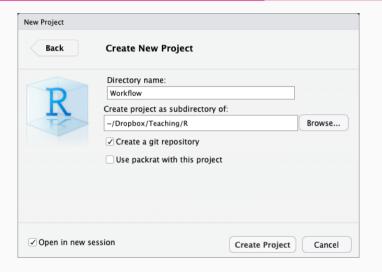


- · Enter a name for the project in the top field
 - $\boldsymbol{\cdot}$ Also creates a folder on your computer with the name you enter into the field
- · Choose the location of the folder on your computer
- Depending on if you have other packages or utilities installed (such as git), there may be additional options, do not check them unless you know what you are doing



- · Enter a name for the project in the top field
 - · Also creates a folder on your computer with the name you enter into the field
- · Choose the location of the folder on your computer
- Depending on if you have other packages or utilities installed (such as git), there may be additional options, do not check them unless you know what you are doing
- Lastly, the bottom left checkbox allows you to open a new instance (window) of R just for this project (and keep existing windows open)







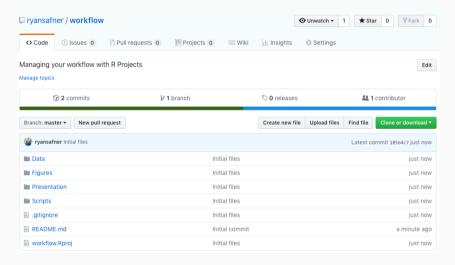
SWITCHING BETWEEN PROJECTS



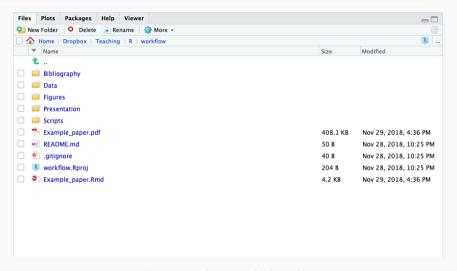
You can easily open and switch between multiple projects (e.g. Mac's dock shown here)



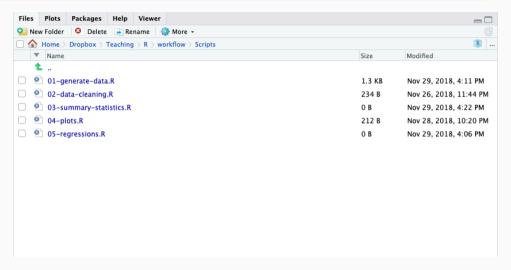
LOADING SOMEONE ELSE'S PROJECT















Data from Multiple Sources, Combined into one Clean Final version



• Read the **README** of this repository on GitHub for instructions (automatically shows on the main page)



- Read the **README** of this repository on GitHub for instructions (automatically shows on the main page)
- \cdot Look at the ${\tt Example_paper.Rmd}$



- Read the **README** of this repository on GitHub for instructions (automatically shows on the main page)
- Look at the Example_paper.Rmd
 - · Uses data from Data folder



- Read the **README** of this repository on GitHub for instructions (automatically shows on the main page)
- Look at the Example_paper.Rmd
 - · Uses data from Data folder
 - Uses .R scripts from Scripts folder



- Read the **README** of this repository on GitHub for instructions (automatically shows on the main page)
- Look at the Example_paper.Rmd
 - · Uses data from Data folder
 - Uses .R scripts from Scripts folder
 - · Uses figures from Figures folder



- Read the README of this repository on GitHub for instructions (automatically shows on the main page)
- Look at the Example_paper.Rmd
 - · Uses data from Data folder
 - Uses .R scripts from Scripts folder
 - · Uses figures from Figures folder
 - Uses bibexample.bib from Bibliography folder



- Read the README of this repository on GitHub for instructions (automatically shows on the main page)
- Look at the Example_paper.Rmd
 - · Uses data from Data folder
 - Uses .R scripts from Scripts folder
 - · Uses figures from Figures folder
 - Uses bibexample.bib from Bibliography folder
- · This file is workflow.presentation.Rmd in Presentation folder

