R for Economics

Wesley Brashear

11 January 2022

"Introduction"

Sources and additional resources

- DataCamp - https://app.datacamp.com/learn
- Data Carpentry - https://datacarpentry.org/
- R for Data Science - https://r4ds.had.co.nz/data-visualisation.html
- UCSB Carpentry - https://ucsbcarpentry.github.io/2021-05-06-IntroR/07-plot-ggplot2/
- tutorialspoint - https://www.tutorialspoint.com/index.htm

And many more…

Day 1 - Tuesday, January 11th, 9:00 - 4:00

1. Orientation
2. Introduction to RStudio
3. R as a calculator
4. Data types
5. Variables
6. Functions
7. Loops
8. Matrices
9. Data frames

Day 2 - Friday, January 14th, 9:00-4:00

1. Factors
2. User-created functions
3. Data visualization in R
4. Working with R markdown

Orientation

Learning Objectives

1) Motivate use for R in Economics
2) Get started with RStudio
3) Get the “R for Economics” notebook working

Orientation

What is R?

- A high level object oriented programming language and environment for statistical analysis and graphics.
- Open source free software

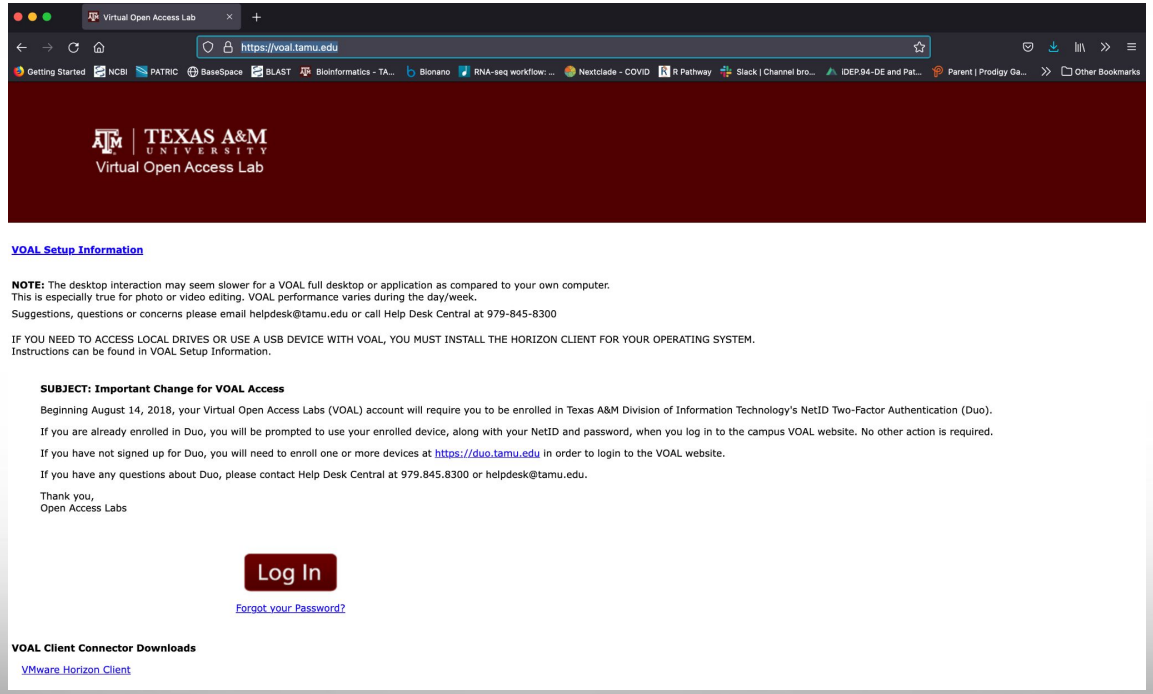
Orientation

Why R?

- Commonly used for Data Analytics / Science
- Built-in functions for statistical analysis
- Highly customizable, publication-quality graphics
- Can easily build web-apps without prior knowledge of web development.

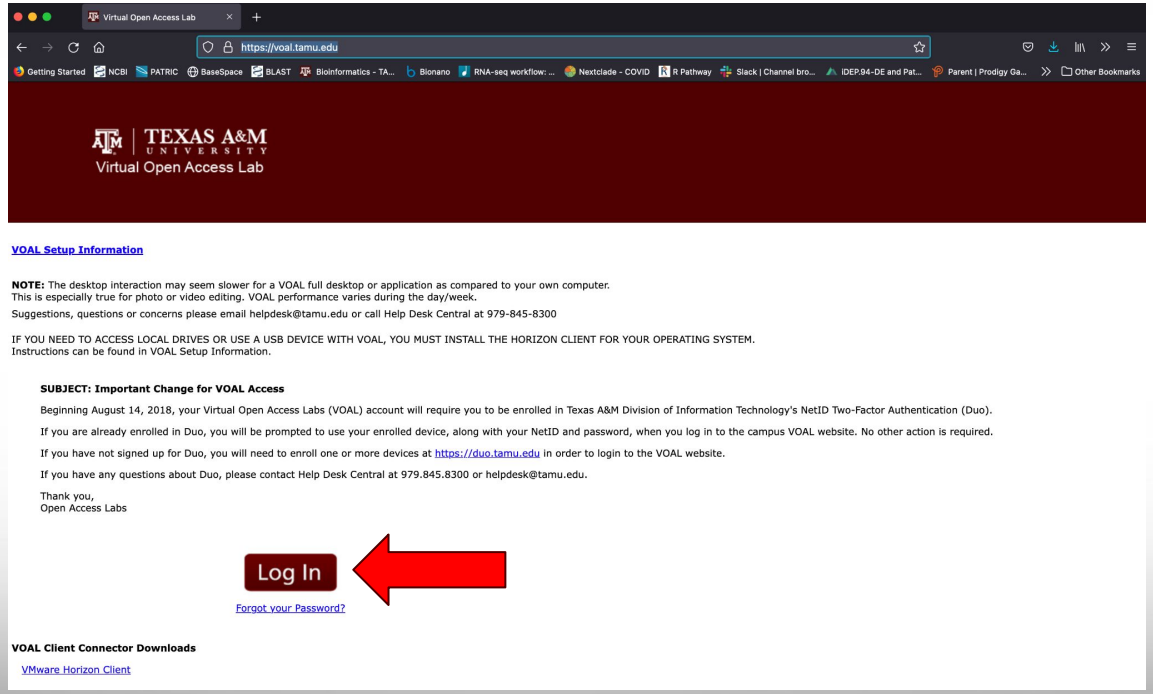
Getting Started

Navigate to https://voal.tamu.edu/



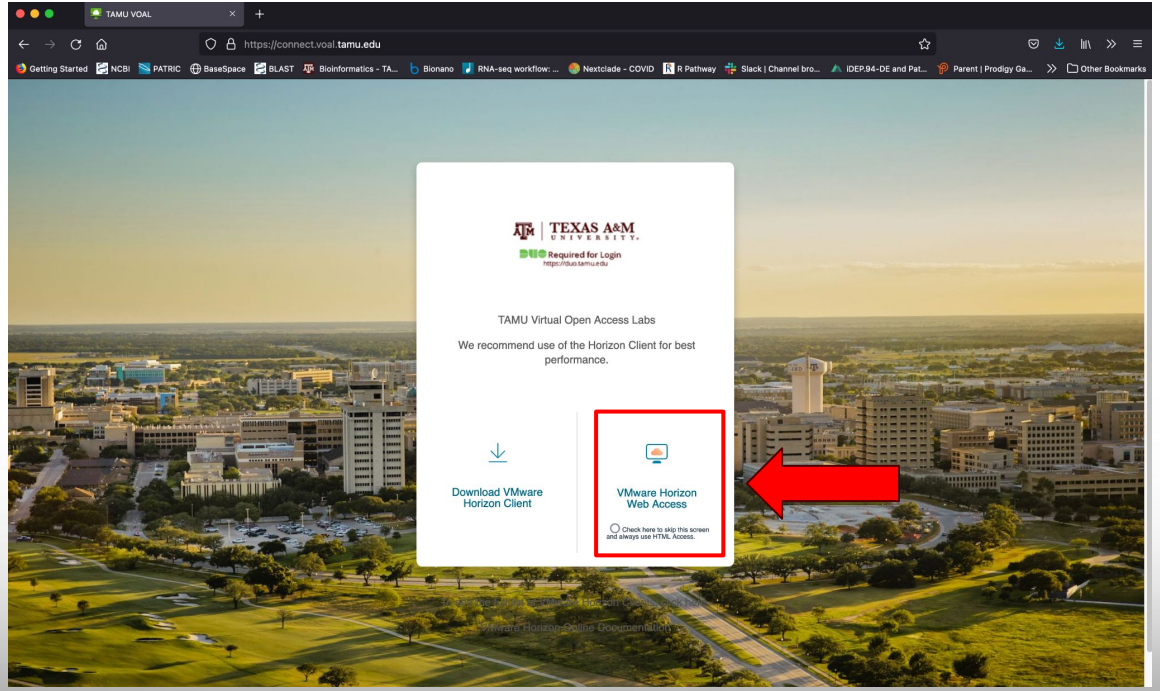
Getting Started

Click on “Log In”



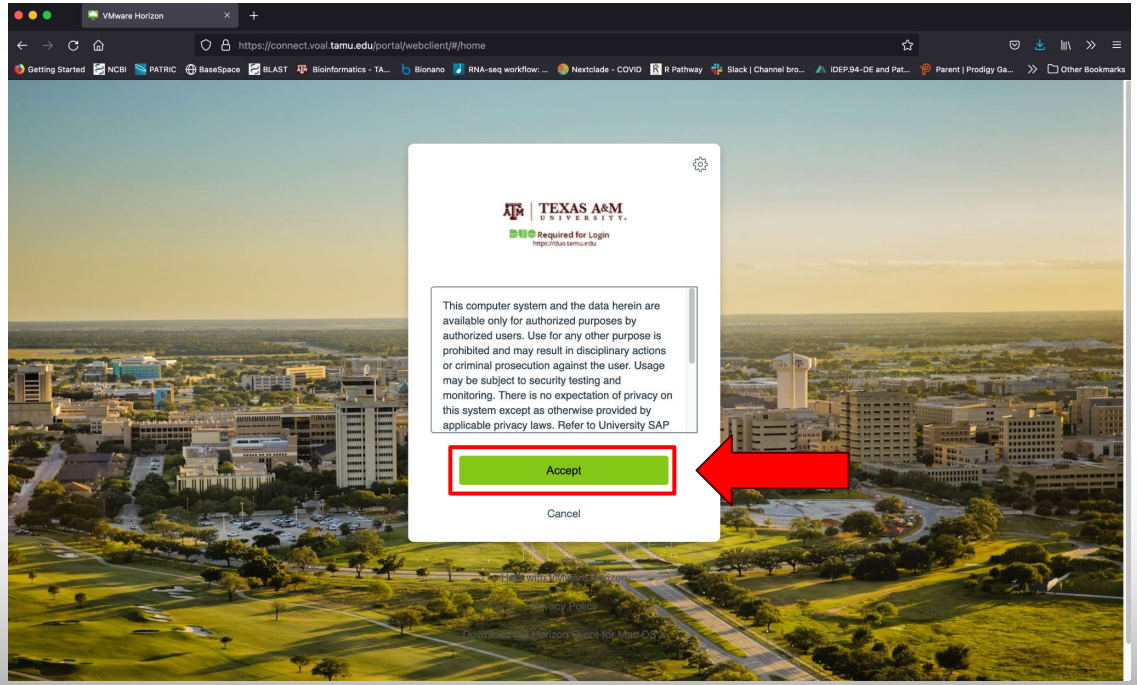
Getting Started

Select the VMware Horizon Web Access



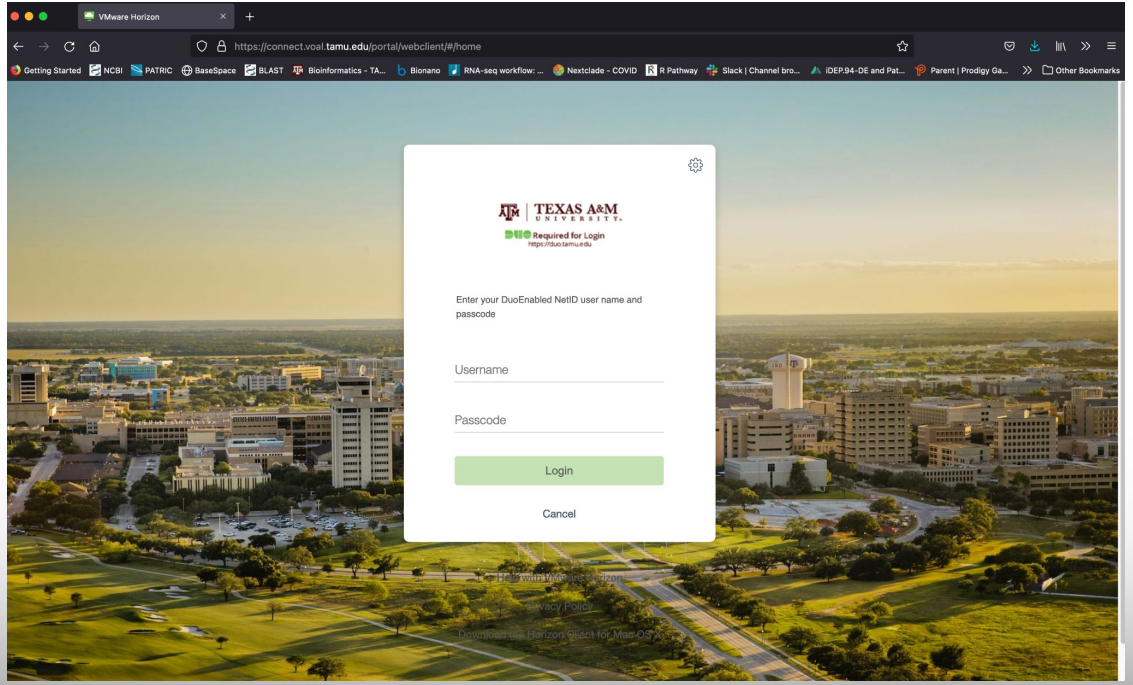
Getting Started

Click “Accept”



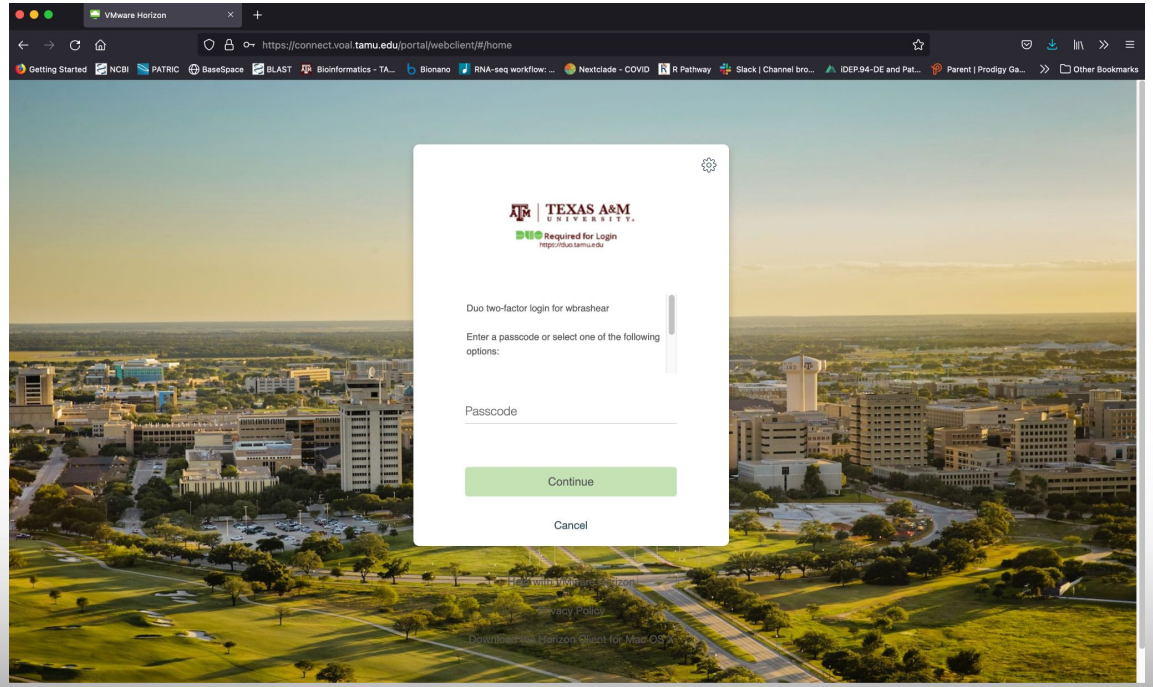
Getting Started

Enter your username and password



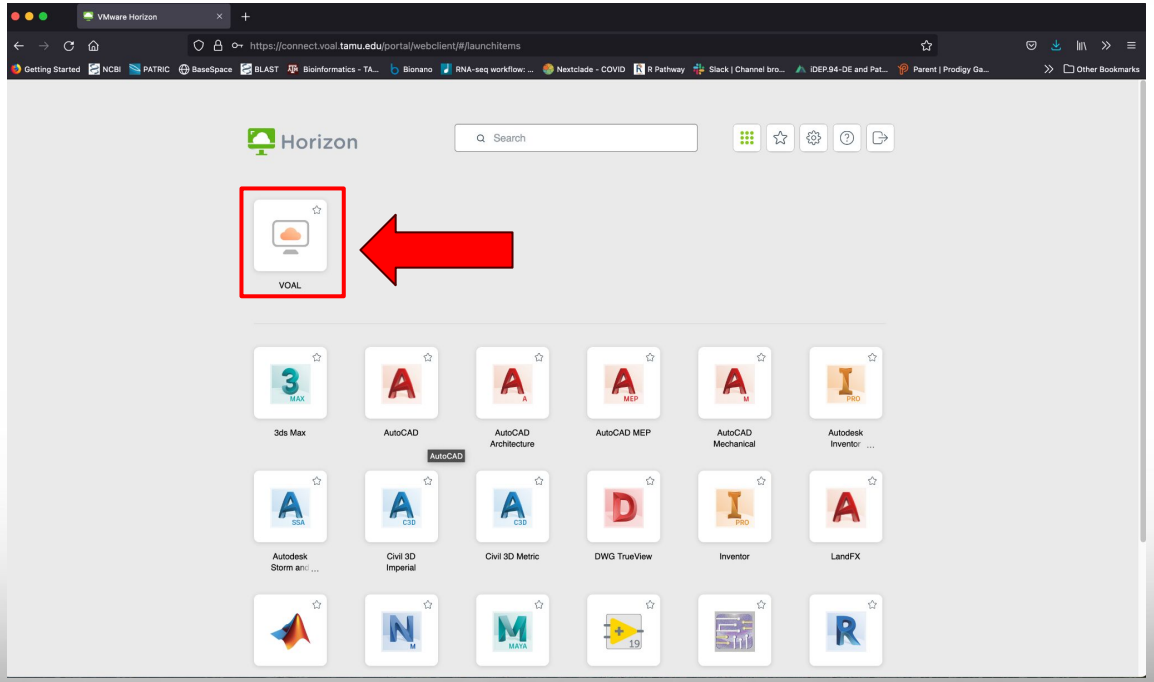
Getting Started

Enter “1” to get send a Duo Push



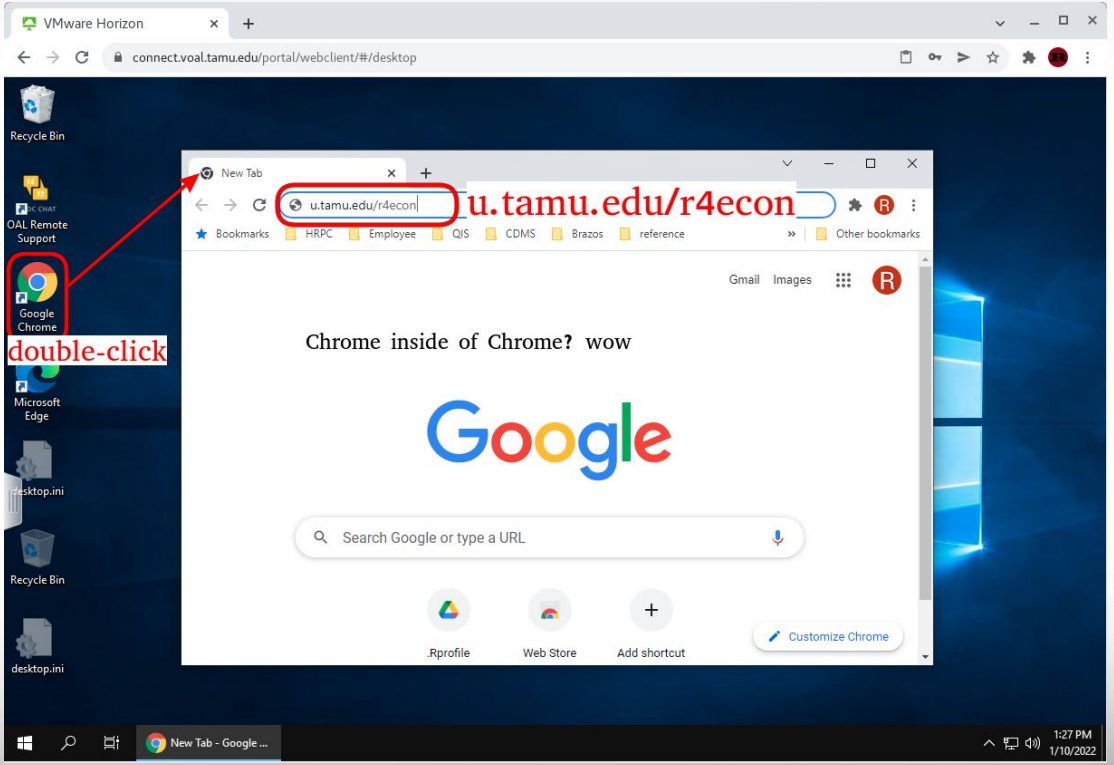
Getting Started

Select the “VOAL” Icon to start the Desktop - this will take some time to load



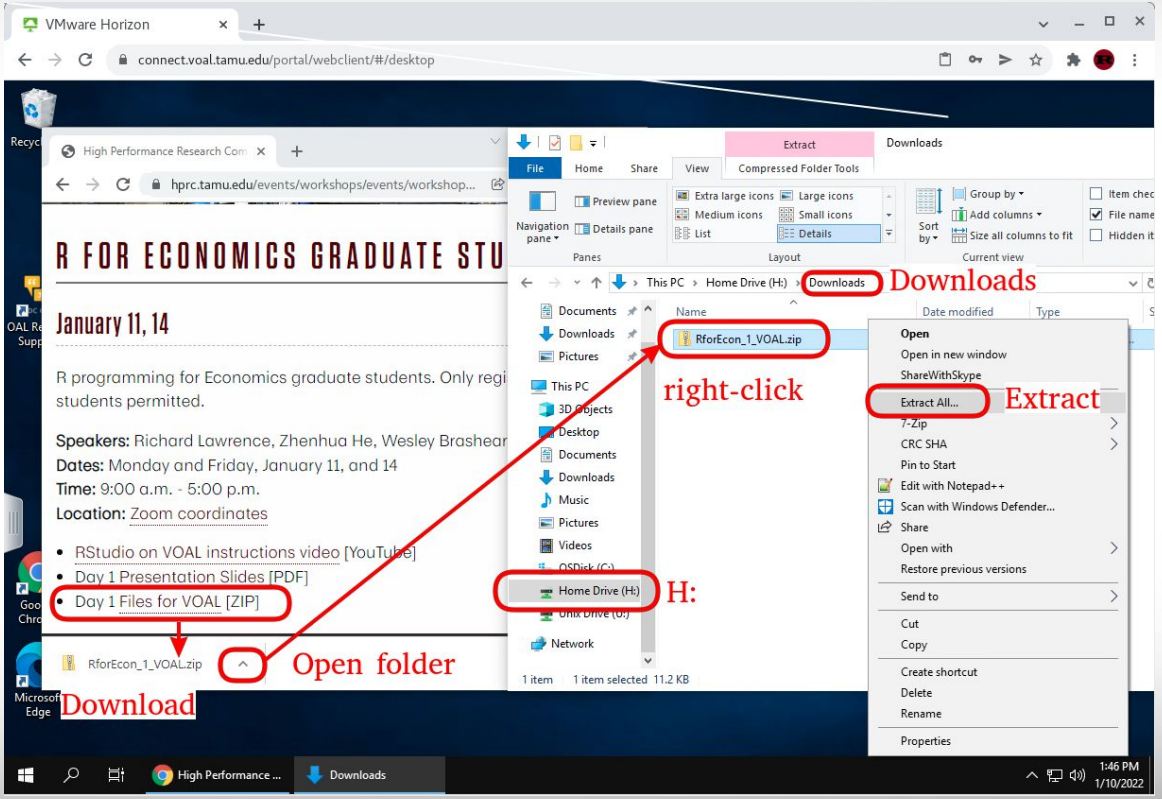
Getting Started

- Open Google Chrome and navigate to u.tamu.edu/r4econ



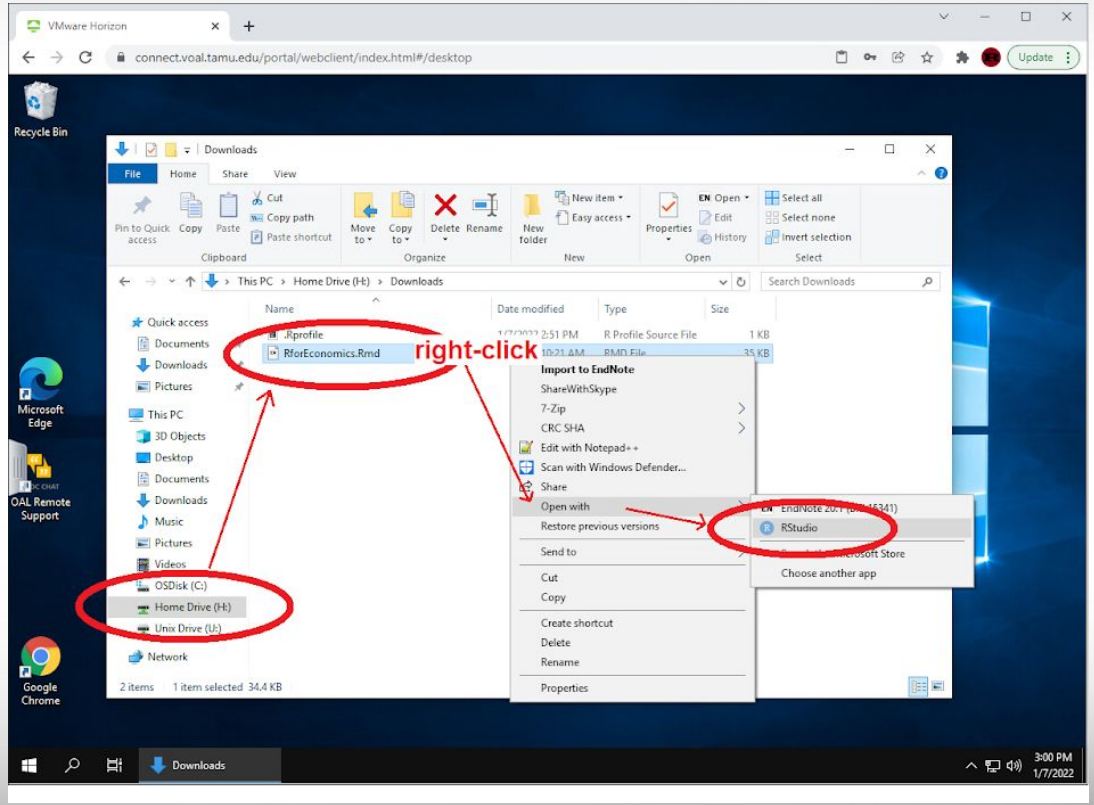
Getting Started

- Download “Day 1 Files for VOAL”
- Open the folder
- Right click on the zip file
- Select “Extract All…”



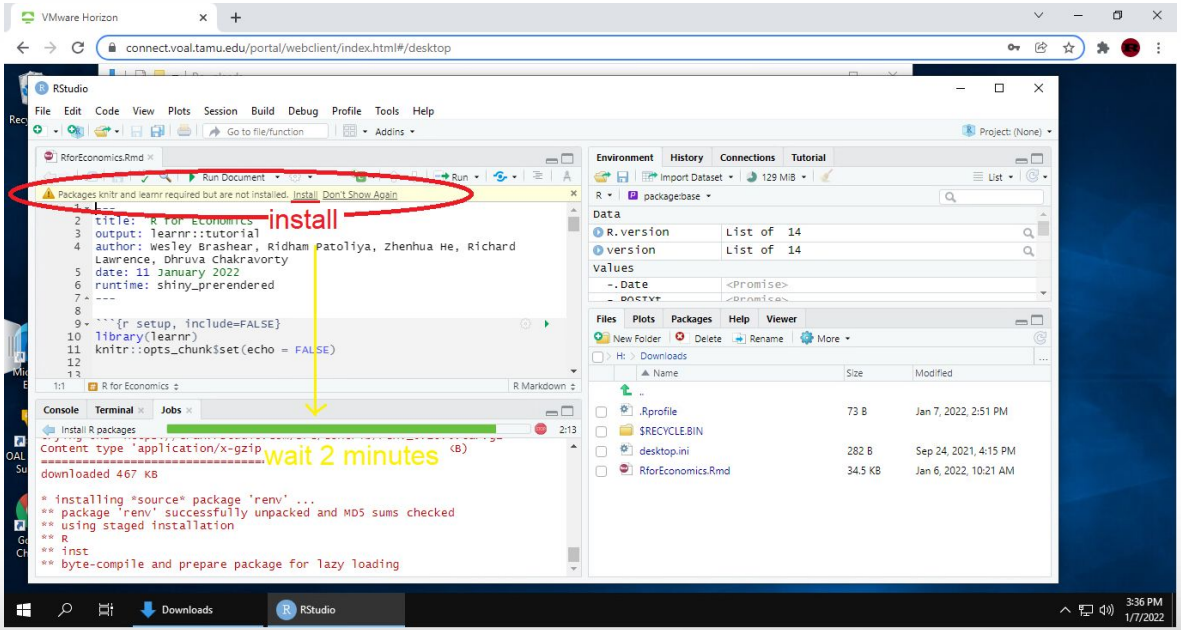
Getting Started

- Right click on the “RforEconomics.Rmd” file
- Select “Open with”
- Select RStudio.



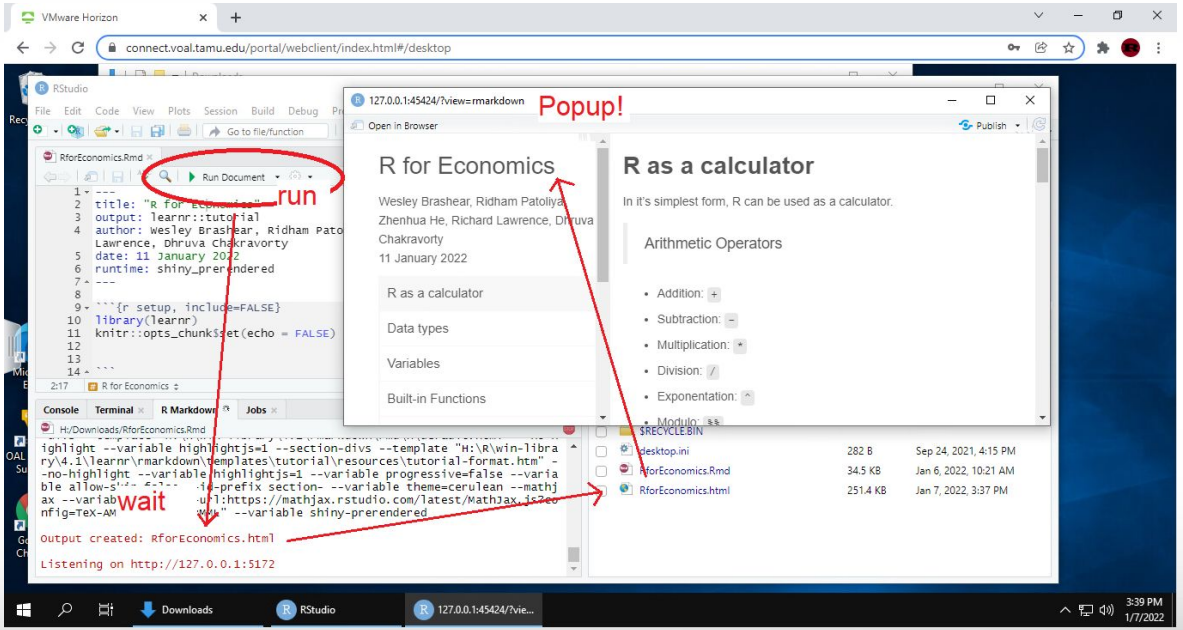
Getting Started

- In RStudio, you will receive a prompt to install some R packages
- Click “Install” and wait for the process to complete



Getting Started

- Once the install is complete, click on “Run Document”
- This will bring up the R markdown workbook for the class



Quizzes for Participation

One-question quizzes will be given regularly today.

Your ECON instructor will be informed of your participation.

The first quiz is now. (on Zoom: link to be posted in chat)

https://docs.google.com/forms/d/e/1FAIpQLScAifu7APdQy-r1st4wqIhumVLmvxy6615FKEDmnGRIRI7NOw/viewform?usp=sf_link

Ten minute break