Eric Pitman Summer Workshop in Computational Science



0. Workshop environment

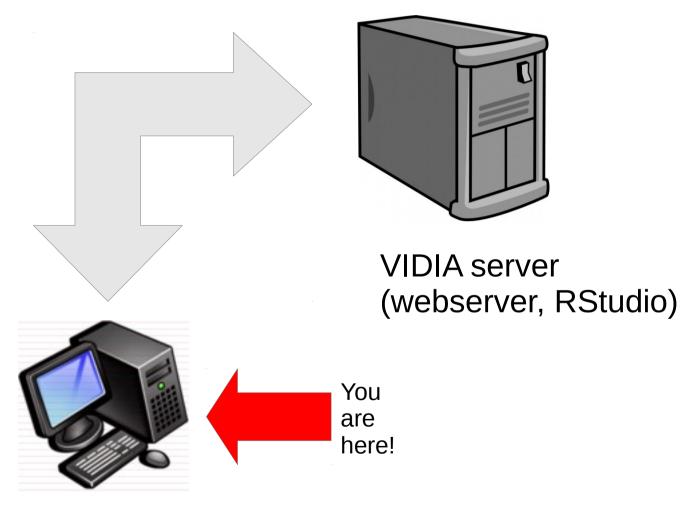




0. Workshop environment: set up on vidia.ccr.buffalo.edu

- Register on VIDIA
- Starting the RStudio tool
- Setting up RStudio Projects: GitHub
- File transfer: using WebDAV
- Using groups on VIDIA

Workshop Computing Environment



Student workstation (Firefox browser)

Register on VIDIA

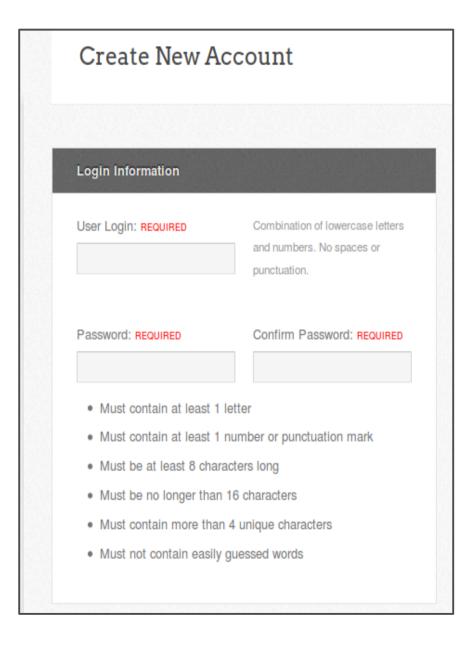
Use email address:

firstname.lastname@workshop.ccr.buffalo.edu

- 1. On vidia.ccr.buffalo.edu, click Register.
- Specify your full name; choose username and password; specify email address; submit.
- 3. We will enable your account.



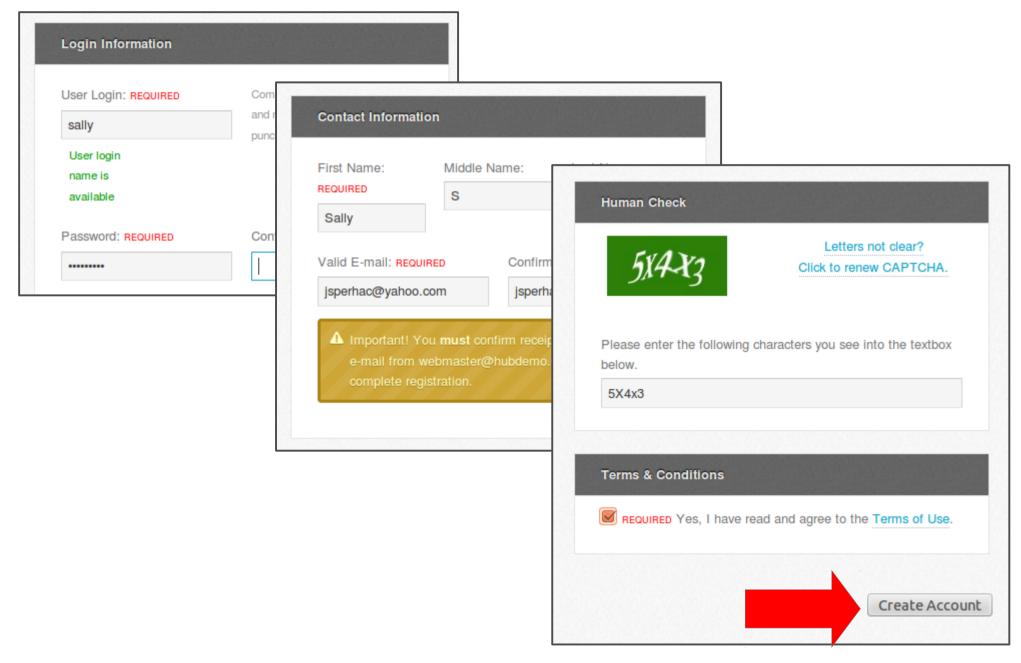
Create New Account screen



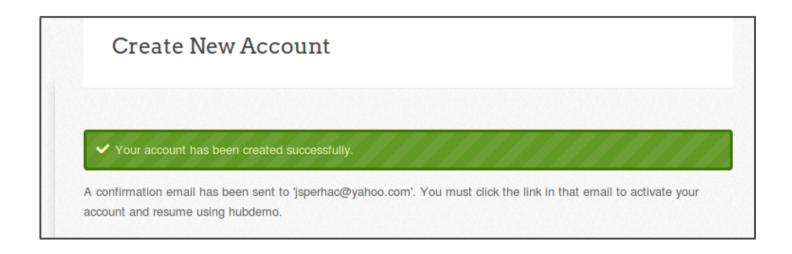
Complete and submit:

- contact information
- username and password
- email address

Fill in required fields and submit

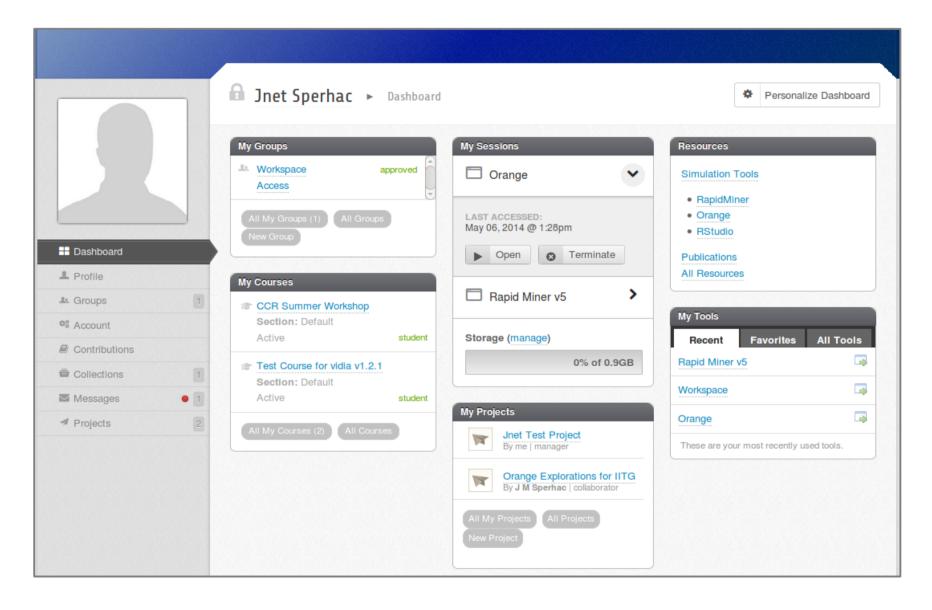


New account created



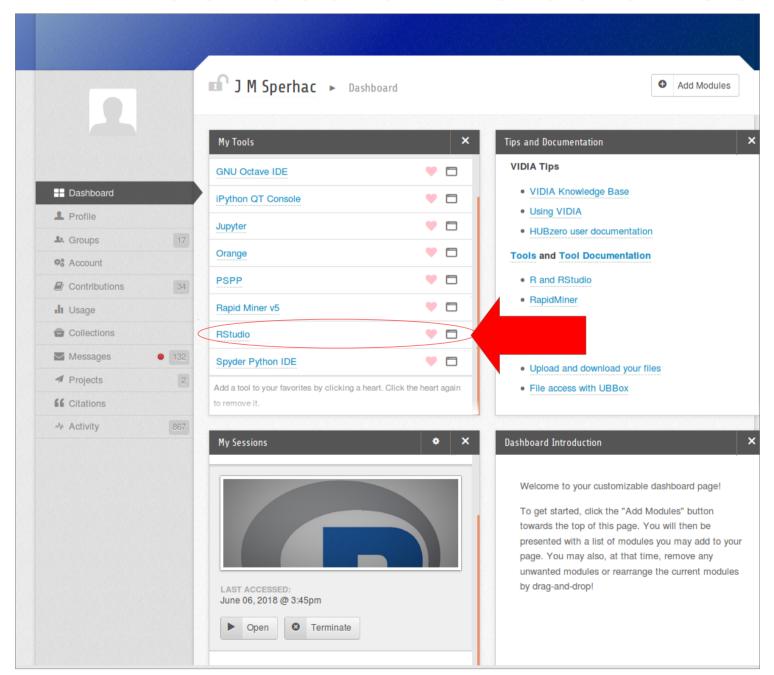
We will enable your account; then, you can sign in to VIDIA.

User Dashboard



Running Rstudio tool on VIDIA

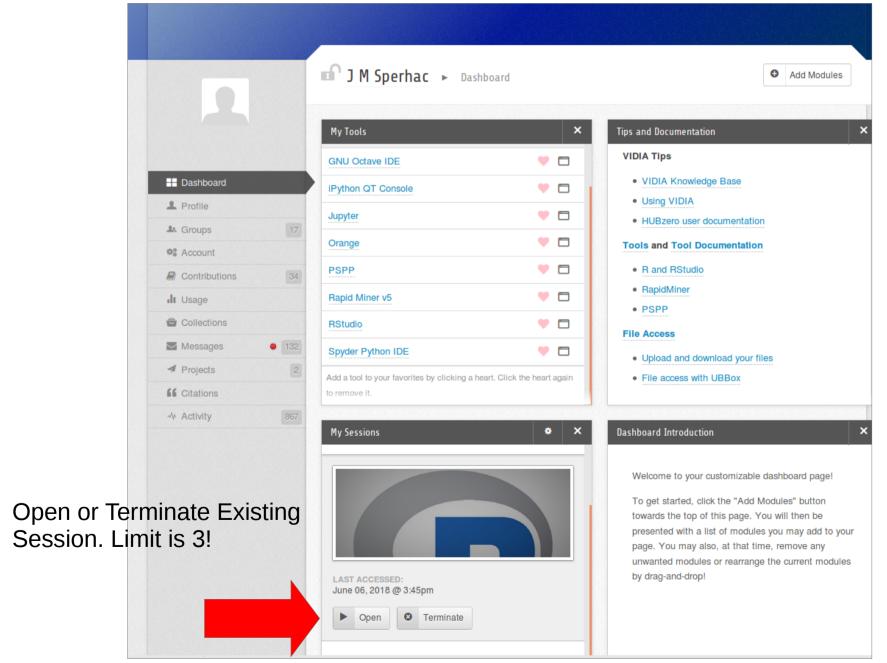
VIDIA Dashboard: RStudio Tool



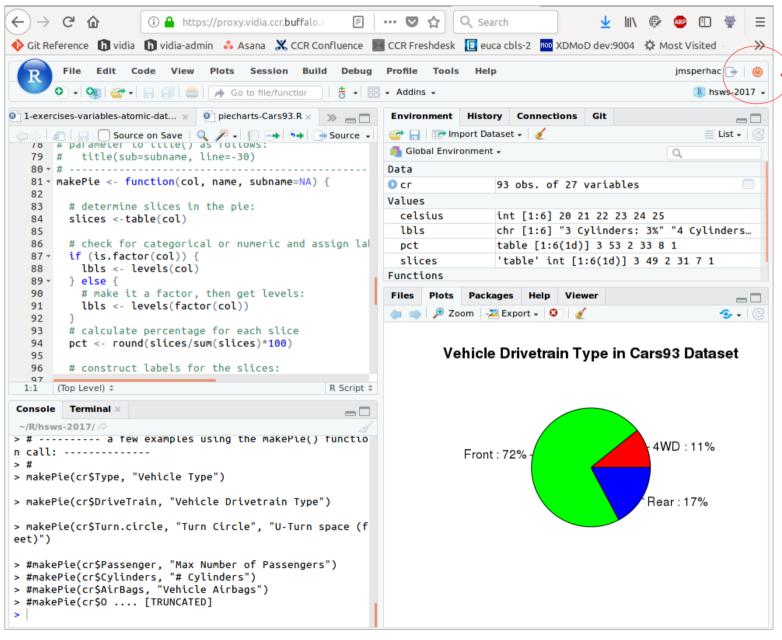
Launch RStudio



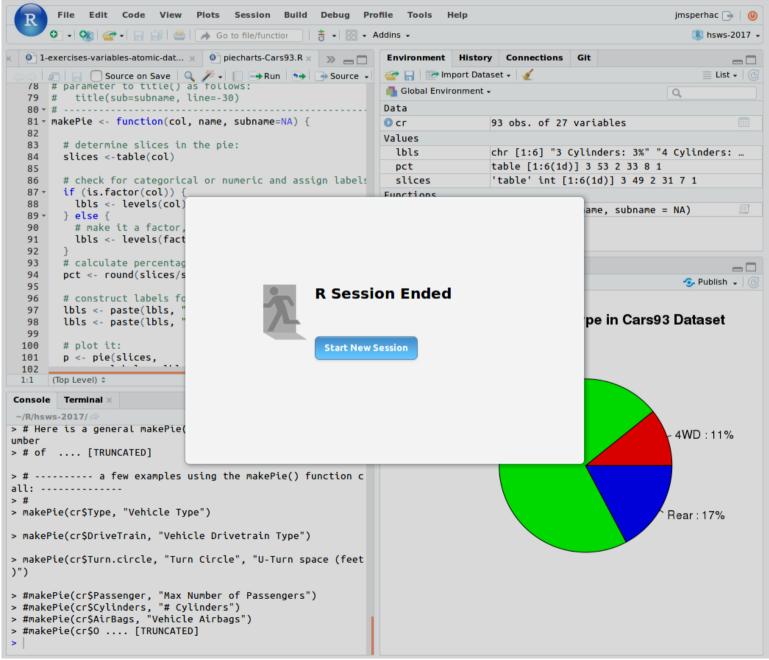
Running Rstudio Sessions



Quitting RStudio

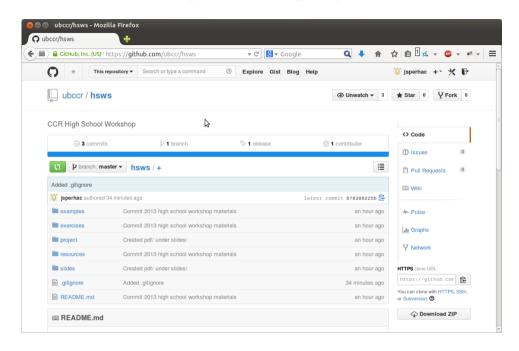


Quitting RStudio





GitHub

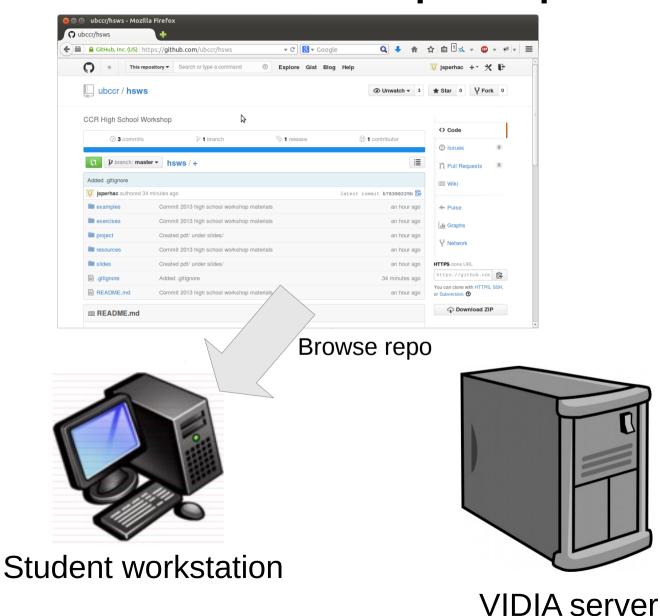


Git is a version control system for tracking changes in computer files and coordinating work on those files among multiple people. It is primarily used for source code management in software development.

GitHub is a web-based hosting service for version control using Git. It is mostly used for computer code.

On June 4, 2018, Microsoft announced its intent to acquire GitHub for US\$7.5 billion.

hsws Workshop Repo



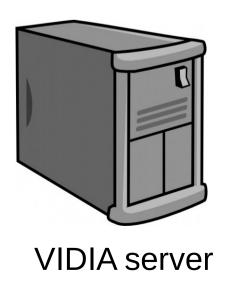
GitHub

GitHub hsws repository

Browse repo

Pull files and data



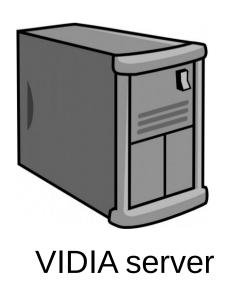


Workshop Files and Data: GitHub

GitHub hsws repository

Clone R source files to create your own RStudio project



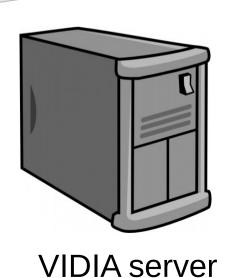


Workshop Files and Data: GitHub

GitHub hsws repository

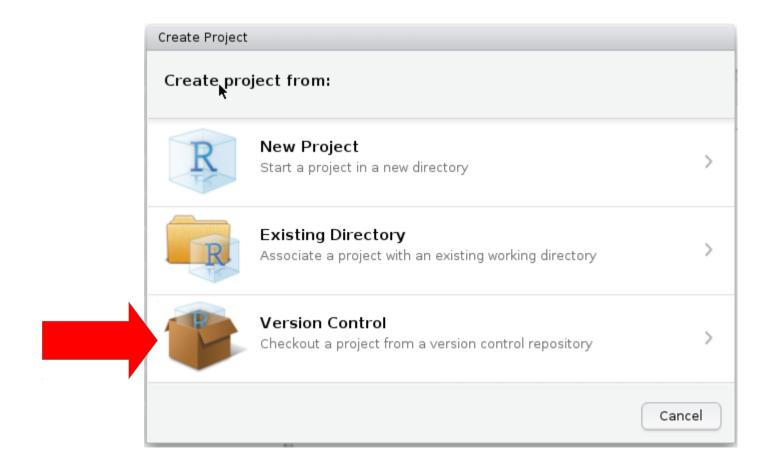
Clone R source files to create your own RStudio project



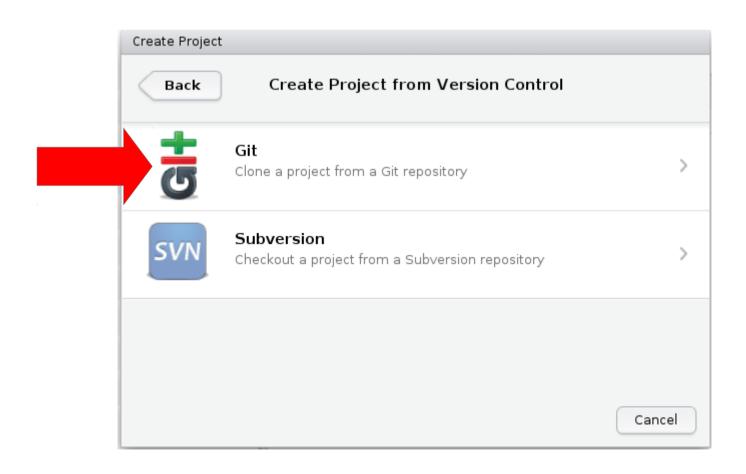


Rstudio Project management

- 1. In the RStudio menu:
- Select Project: Create Project
- Select Version Control

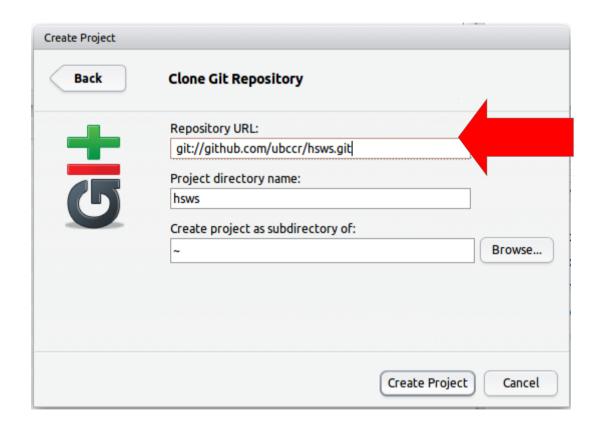


2. In RStudio: Next, select Git



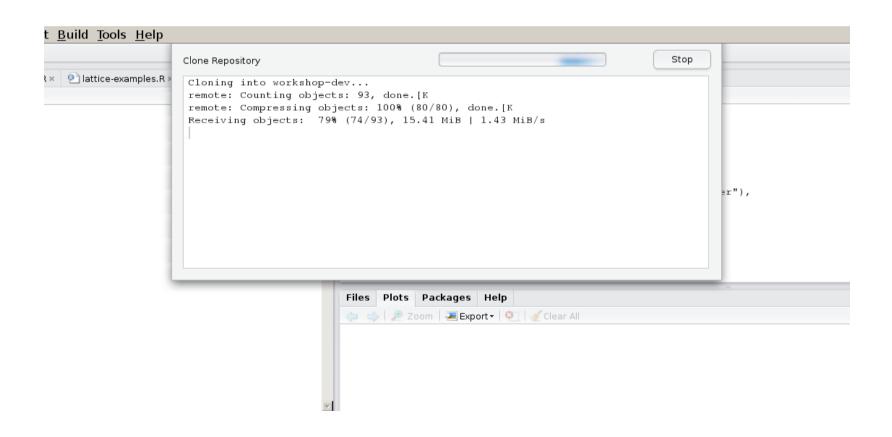
3. In RStudio:

- Type the Repository URL as shown
- Use a unique project directory name



git://github.com/ubccr/hsws.git

4. RStudio copies the files from GitHub to your home directory on VIDIA.

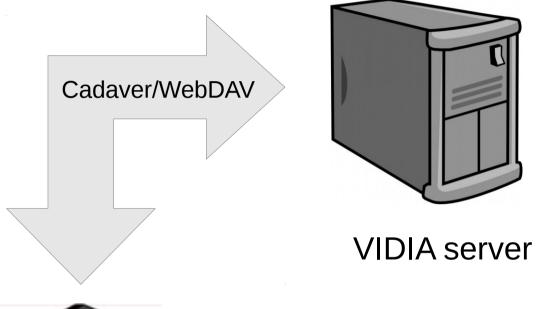




- Selecting the project sets the working directory
- Your RStudio project contains directories:
 - examples
 - exercises
 - project
 - resources

File transfer to and from VIDIA

File Transfer

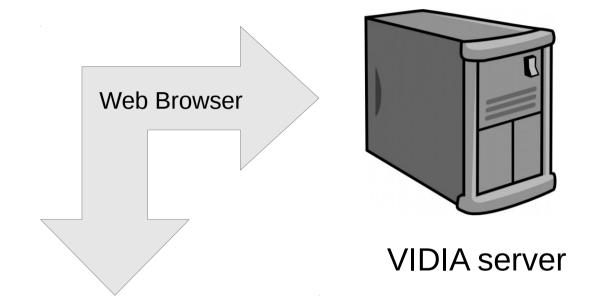




Student workstation

You'll need file transfer for adding graphics files to your presentation slides

View/Browse your Files





Student workstation

To browse your directory on VIDIA:

- 1. Start a web browser
- 2. Enter URL:

https://vidia.ccr.buffalo.edu/webdav

3. Authenticate when prompted

File Transfer: WebDAV

\$ cadaver https://vidia.ccr.buffalo.edu:443/webdav



To transfer files to/from VIDIA:

- 1. Start a terminal window
- 2. Issue cadaver command
- 3. Sign in with your VIDIA user credentials when prompted
- 4. Use 'ls', 'cd', 'get', 'put'

Much like typical ftp commands

HUBzero Resources

