

Basic Guide to Git Repositories

Kristen Hernandez (TA)

For Rstudio in OnDemand
Rstudio Version 4.2.2
Guide Version 1.1 “Bare Bone Beta”, 2023

Background

You just started your coding career. Good luck!

First you hear about Repositories, Bitbucket, Git, BASH, LaTeX, Markdown, Push, Pull, Commit, path, directory- Lots of new terms, not sure what they all mean.

No problem! We will define these in terms that are in their practical setting.

The intent of this guide is to help walk you through the initial setup process with pictures and little pointers.

Let's get started with what we need to do...

First step: Getting linked up

Check your casID email - You will need to have a casID email account for all your access

Check you have access to OnDemand - Generic environment that is standard for everyone.

Find that Bitbucket email sent to your casID.email (abc123@case.edu)

If no, you need to get in touch with TAs or Prof.

You should have a link for Bitbucket (might be in Junk folder)

That link should take you to the “Repository” - a shared folder or directory

It will ask you to login (Login with your “google account”)

Use your casID email (abc123@case.edu) and password

Once logged in...

You should see the prof “Repository”

Name is subject to change based on year and course enrollment

The screenshot shows a Bitbucket repository page. At the top left, it says "23s-dsci353-453-prof". An arrow points from the text "Name is subject to change based on year and course enrollment" to this repository name. The repository details on the right show it was last updated 45 minutes ago, has 26 forks, and an admin access level. The repository structure on the left includes folders like 1-assignments, 2-class, 3-readings, 4-syllabus, 5-semproj, data, docs, figs, and packages. The commit history on the right lists several commits made by LE1, including notes ready for class week 3a and updates to the semester project.

For students in DSCI 353, 453 at CWRU and Pitt/UCF/UTRGV. Fork this and change "prof" to your CaseID.

main Files Filter files Q

Name	Size	Last commit	Message
1-assignments		5 days ago	LE1 posted to the prof repo.
2-class		45 minutes ago	Class week 3a notes ready
3-readings		2023-01-24	added ISLR2 errata
4-syllabus		45 minutes ago	Class week 3a notes ready
5-semproj		2023-01-24	updates to semester project
data		2023-01-08	first commit
docs		2023-01-08	first commit
figs		2023-01-08	first commit
packages		2023-01-08	first commit

Repository details

- Last updated 45 minutes ago
- Language R
- Open pull requests 0
- Branches 1
- Watchers 2
- Forks 26
- Access level Admin

0 builds

It looks like you haven't configured a build tool yet. You can use Bitbucket Pipelines to build, test and deploy your code.

Your existing plan already includes build minutes.

Set up a pipeline

Make a Bitbucket Fork - A “copy” but - not quite

This will act as your linked copy to modify and do coursework, midterms and exams

Bitbucket Your work Repositories Projects More Create

Search

23s-dsci353-453-prof

23s-dsci353-453-prof

For students in DSCI 353, 453 at CWRU and Pitt/UCF/UTRGV. Fork this and change "prof" to your CaseID.

Source

Commits

Branches

Pull requests

Pipelines

Deployments

Jira issues

Security

Downloads

Repository settings

main / Files Filter files Q

Click here

Invite Clone ...

Name	Size	Last commit	Message
1-assignments		5 days ago	LE1 posted to the prof repo.
2-class		45 minutes ago	Class week 3a notes ready
3-readings		2023-01-24	added ISLR2 errata
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packages		2023-01-08	first commit

Repository details

Last updated 45 minutes ago Language R

Open pull requests 0 Branches 1

Watchers 2 Forks 26

Access level Admin

0 builds

It looks like you haven't configured a build tool yet. You can use Bitbucket Pipelines to build, test and deploy your code.

Your existing plan already includes build minutes.

Set up a pipeline

What is a Fork? More detailed expla

“When developers take a copy of source code from one software package and start independent development on it, creating a distinct and separate piece of software.” -wikipedia

So, the repository you have forked is a “software package”, any changes to the source code can be synced to your fork repository.

Changes you do to your fork repository does not write back.*

23s-dsci353-453-prof

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Click the drop down “Fork this repository”

Name	Size	Last commit	Message
1-assignments		5 days ago	LE1 posted to the prof repo.
2-class		53 minutes ago	Class week 3a notes ready
3-readings		2023-01-24	added ISLR2 errata
4-syllabus		53 minutes ago	Class week 3a notes ready
5-semproj		2023-01-24	updates to semester project
data		2023-01-08	first commit
docs		2023-01-08	first commit
figs		2023-01-08	first commit
packages		2023-01-08	first commit
scripts		2023-01-08	first commit
topics		2023-01-08	first commit
.gitignore	4.77 KB	2023-01-08	first commit
2301-353-353m-453-syllabus.txss2	809 B	2023-01-16	updated the dates in syllabus
2301-CloningMyCourseRepoTo-mnt-pan-courses.txt	1.4 KB	2023-01-08	first commit
2301-DSCI-Acknowledgement-of-IP.pdf	65.11 KB	2023-01-08	first commit

- Invite
- Clone
- ...
- Fork this repository
- Compare branches or tags
- Add file
- Manage notifications
- Download repository

Repository details	Last updated 53 minutes ago	Language R
Open pull requests 0	Branches 1	
Watchers 2	Forks 26	
Access level Admin		

0 builds



It looks like you haven't configured a build tool yet. You can use [Bitbucket Pipelines](#) to build, test and deploy your code.

Your existing plan already includes build minutes.

[Set up a pipeline](#)

Saving the Fork

Fork cwrudsci / 23s-dsci353-453-prof

Workspace  Kristen Hernandez ▾

Project* Select project ▾

Name*

Access level Private repository

This repository does not allow public forks.

» Advanced settings

Workspace (Your name, should autofill)

Project (Folder location, call it your CaselD)

Name (change the “prof” part to reflect your caselD)

Fork cwrudsci / 23s-dsci353-453-prof

Workspace  Kristen Hernandez ▾

Project* Select project ▾

Name* 

Access level Private repository
This repository does not allow public forks.

[Advanced settings](#)

  Cancel

After naming your fork, press the “Fork repository” option
(be sure to select a Project from drop down menu- doesn’t really matter the name)

Now you have your Bitbucket edition!

The screenshot shows a Bitbucket repository page for '23s-dsci353-453-kjh125'. The left sidebar includes links for Source, Commits, Branches, Pull requests, Pipelines, Deployments, Jira issues, Security, Downloads, and Repository settings. The main content area displays the repository's structure under the 'main' branch. A table lists files and their details:

Name	Size	Last commit	Message
1-assignments		3 days ago	this is a test
2-class		5 days ago	added TidyVerse review.
3-readings		2023-01-24	added ISLR2 errata
4-syllabus		2023-01-24	Class w02a notes
5-semproj		2023-01-24	updates to semester project
data		2023-01-08	first commit
docs		2023-01-08	first commit
figs		2023-01-08	first commit
packages		2023-01-08	first commit
scripts		2023-01-08	first commit
topics		2023-01-08	first commit
.gitignore	4.77 KB	2023-01-08	first commit
2301-353-353m-453-syllabus.bxss2	809 B	2023-01-16	updated the dates in syllabus
2301-CloningMyCourseRepoTo-mnt-pan-courses.txt	1.4 KB	2023-01-08	first commit
2301-DSCI-Acknowledgement-of-IP.pdf	65.11 KB	2023-01-08	first commit
2301-DSCI451-SemProj.txt	1.1 KB	2023-01-08	first commit

Buttons for Invite, Clone, and more options are located in the top right corner of the repository header.

Let's get your App Password Setup

Kristen Hernandez / kjh125

23s-dsci353-453-kjh125

Here's where you'll find this repository's source files. To give your users an idea of what they'll find here, add a description to your repository.

main ▾ Files ▾ Filter files Q

Name	Size	Last commit	Message
1-assignments		3 days ago	this is a test
2-class		5 days ago	added TidyVerse review.
3-readings		2023-01-24	added ISLR2 errata
4-syllabus		2023-01-24	Class w02a notes
5-semproj		2023-01-24	updates to semester project
data		2023-01-08	first commit
docs		2023-01-08	first commit
figs		2023-01-08	first commit
packages		2023-01-08	first commit
scripts		2023-01-08	first commit
topics		2023-01-08	first commit
.gitignore	4.77 KB	2023-01-08	First commit

Invite Clone ...

ACCOUNT

K Kristen Hernandez
kjh125@case.edu

Switch account

Manage account

RECENT WORKSPACES

CWRU-DSCI

All workspaces

SETTINGS

Personal settings

Labs

Log out

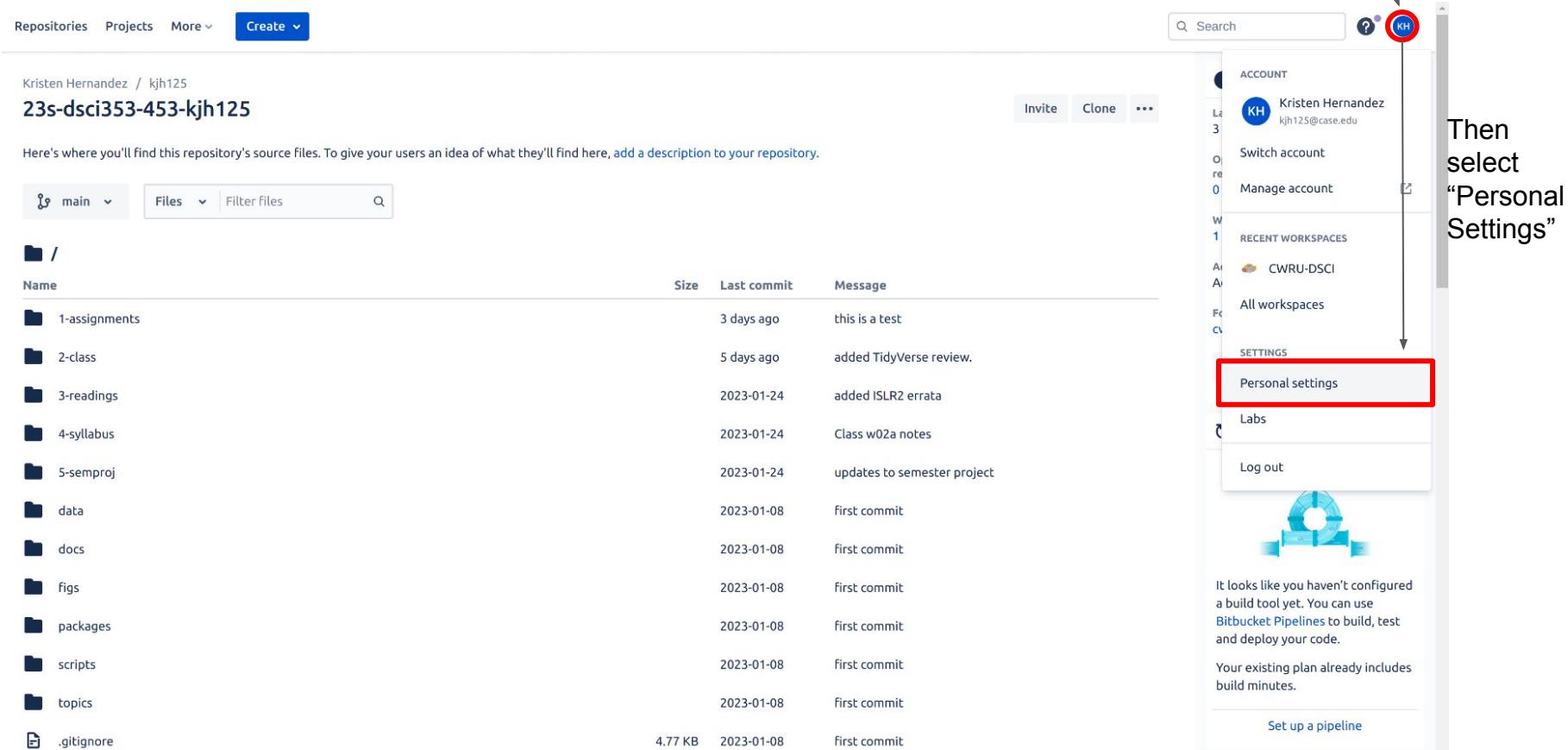
It looks like you haven't configured a build tool yet. You can use Bitbucket Pipelines to build, test and deploy your code.

Your existing plan already includes build minutes.

Set up a pipeline

Click here

Then select "Personal Settings"



Personal settings

GENERAL

[Account settings](#)[Email aliases](#)[Notifications](#)

ACCESS MANAGEMENT

[App authorizations](#)[App passwords](#)

SECURITY

[SSH keys](#)[Two-step verification](#)[Sessions](#)[Audit log](#)

FEATURES

[Labs](#)

Upgrade to Premium

Get enforced merge checks, enforced 2FA, additional build minutes, and more with Bitbucket Premium.

[Upgrade](#)

Account settings



Click here

Avatar

Name Kristen Hernandez

Update your avatar, name, email address, and password or delete your account through your [Atlassian account](#).

Bitbucket profile settings

Username Kristen_Hernandez ([change](#))

Website

Language English

[Help translate Bitbucket](#) into your language.

[Delete account](#)

Preferences

Shortcuts [Enable keyboard shortcuts](#)

Press your ? key for a list of shortcuts.

Console [Enable console messages](#)

Disable to prevent Bitbucket from sending nonurgent console messages.

[Update](#)

Personal settings

GENERAL

[Account settings](#)[Email aliases](#)[Notifications](#)

ACCESS MANAGEMENT

[App authorizations](#)[App passwords](#)

SECURITY

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FEATURES

[Labs](#)

App passwords

App passwords allow users to access their Bitbucket account through apps such as Sourcetree. We'll generate the app passwords for you, and you won't need to remember them.

[Create app password](#)

← Click here

Label	Created	Last accessed	
OnDemand	2022-03-01	23 hours ago	Revoke

Personal settings

GENERAL

[Account settings](#)

[Email aliases](#)

[Notifications](#)

ACCESS MANAGEMENT

[App authorizations](#)

[App passwords](#)

SECURITY

[SSH keys](#)

[Two-step verification](#)

[Sessions](#)

[Audit log](#)

FEATURES

[Labs](#)

Add app password

Details

Label*

Permissions

Account	<input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Read <input checked="" type="checkbox"/> Write	Issues	<input checked="" type="checkbox"/> Read <input checked="" type="checkbox"/> Write
Workspace membership	<input checked="" type="checkbox"/> Read <input checked="" type="checkbox"/> Write	Wikis	<input checked="" type="checkbox"/> Read and write
Projects	<input checked="" type="checkbox"/> Read <input checked="" type="checkbox"/> Write <input checked="" type="checkbox"/> Admin	Snippets	<input checked="" type="checkbox"/> Read <input checked="" type="checkbox"/> Write
Repositories	<input checked="" type="checkbox"/> Read <input checked="" type="checkbox"/> Write <input checked="" type="checkbox"/> Admin <input checked="" type="checkbox"/> Delete	Webhooks	<input checked="" type="checkbox"/> Read and write
Pull requests	<input checked="" type="checkbox"/> Read <input checked="" type="checkbox"/> Write	Pipelines	<input checked="" type="checkbox"/> Read <input checked="" type="checkbox"/> Write <input checked="" type="checkbox"/> Edit variables
		Runners	<input checked="" type="checkbox"/> Read <input checked="" type="checkbox"/> Write

[Create](#) [Cancel](#)

Name it whatever you would like
Give it all permissions
Then hit create

This will display a one-time displayed code
that you will need to make a copy off.

This will act as your “app password”
Keep it hidden, keep it safe.

But we need to edit using our programming language...

A local version needs to be made

Now we have our own cloud version, we can make a modifiable version

This is our “clone”

We will need to make a clone of our repository

So, go to **YOUR** repository main page (shouldn't be prof)

Cloning our Repository

Kristen Hernandez / kjh125

23s-dsci353-453-kjh125

Make sure you are in YOUR repository

Invite **Clone** ...

Click "Clone"

Here's where you'll find this repository's source files. To give your users an idea of what they'll find here, [add a description to your repository](#).

	Name	Size	Last commit	Message
📁	1-assignments		3 days ago	this is a test
📁	2-class		5 days ago	added TidyVerse review.
📁	3-readings		2023-01-24	added ISLR2 errata
📁	4-syllabus		2023-01-24	Class w02a notes
📁	5-semproj		2023-01-24	updates to semester project
📁	data		2023-01-08	First commit
📁	docs		2023-01-08	First commit
📁	figs		2023-01-08	First commit
📁	packages		2023-01-08	First commit
📁	scripts		2023-01-08	First commit
📁	topics		2023-01-08	First commit
📄	.gitignore	4.77 KB	2023-01-08	First commit
📄	2301-353-353m-453-syllabus.txss2	809 B	2023-01-16	updated the dates in syllabus
📄	2301-CloningMyCourseRepoTo-mnt-pan-courses.txt	1.4 KB	2023-01-08	First commit
📄	2301-DSCI-Acknowledgement-of-IP.pdf	65.11 KB	2023-01-08	First commit
📄	2301-DSCI451-SemProj.txt	1.1 KB	2023-01-08	First commit

K Repositories Projects More Create

Kristen Hernandez / kjh125
23s-dsci353-453-kjh125

Here's where you'll find this repository's source files. To

main Files Filter files

Name

- 1-assignments
- 2-class
- 3-readings
- 4-syllabus
- 5-semproj
- data
- docs
- figs
- packages
- scripts
- topics
- .gitignore
- 2301-353-353m-453-syllabus.txss2
- 2301-CloningMyCourseRepoTo-mnt-par-courses.txt
- 2301-DSCI-Acknowledgement-of-IP.pdf
- 2301-DSCI151-SemProject

Clone this repository HTTPS Copy

en_Hernandez@bitbucket.org/Kristen_Hernandez/23s-dsci353-453-kjh125.git

VS Code is a source-code editor developed by Microsoft.

Clone in VS Code

Close

File/Commit	Type	Date	Description	
1-assignments	Folder	5 days ago	added TidyVerse review.	
2-class	Folder	2023-01-24	added ISLR2 errata	
3-readings	Folder	2023-01-24	Class w02a notes	
4-syllabus	Folder	2023-01-24	updates to semester project	
5-semproj	Folder	2023-01-08	first commit	
data	Folder	2023-01-08	first commit	
docs	Folder	2023-01-08	first commit	
figs	Folder	2023-01-08	first commit	
packages	Folder	2023-01-08	first commit	
scripts	Folder	2023-01-08	first commit	
topics	Folder	2023-01-08	first commit	
.gitignore	File	4.77 KB	2023-01-08	First commit
2301-353-353m-453-syllabus.txss2	File	809 B	2023-01-16	updated the dates in syllabus
2301-CloningMyCourseRepoTo-mnt-par-courses.txt	File	1.4 KB	2023-01-08	First commit
2301-DSCI-Acknowledgement-of-IP.pdf	File	65.11 KB	2023-01-08	First commit
2301-DSCI151-SemProject	File	1.1 KB	2023-01-08	First commit

Select HTTPS if you don't have SSH set up.

Invite Clone ...

Copy that command either by highlighting it

Or pressing the rectangle to copy text

Now, you need to open Rstudio

The screenshot shows the RStudio interface with the following components:

- Top Bar:** File, Edit, Code, View, Plots, Session, Build, Debug, Profile, Tools, Help. A user icon "kjh125" is in the top right.
- Console Tab:** Shows the R startup message and basic information about the R version and platform.
- Environment Tab:** Displays the global environment, showing a function definition for `set_lib_paths`.
- File Browser:** Shows a list of files and folders in the current directory, including ".history", ".Rprofile", "Boys-to-Girl ratio.pdf", "CSE_MSE_RXF131", "Desktop", "Documents", "Downloads", "elm-netSEM_reloaded.Rmd", "Git", "GSASII.desktop", "ImageJ2.desktop", "labelme.desktop", "labelmeimg.desktop", "LTT.log", "ML_111417_Radio.csv", "module.json", "Music", "ondemand", and "Pictures".

Navigate to your storage space (you may need lots of libraries!)

The screenshot shows the RStudio interface. On the left is the R Console window displaying the R startup message and basic usage information. On the right is the File Explorer window titled "Current working directory". A red box highlights the "Home" folder icon in the file list. An arrow points from the text "Current working directory" to this highlighted icon.

R version 4.2.2 Patched (2022-11-10 r83330) -- "Innocent and Trusting"
Copyright (C) 2022 The R Foundation for Statistical Computing
Platform: x86_64-pc-linux-gnu (64-bit)

R is free software and comes with ABSOLUTELY NO WARRANTY.
You are welcome to redistribute it under certain conditions.
Type 'license()' or 'licence()' for distribution details.

Natural language support is running in an English locale

R is a collaborative project with many contributors.
Type 'contributors()' for more information and
'citation()' on how to cite R or R packages in publications.

Type 'demo()' for some demos, 'help()' for on-line help, or
'help.start()' for an HTML browser interface to help.
Type 'q()' to quit R.

Current working directory

Name	Size	Modified
.History	1.7 KB	Jan 31, 2023, 11:32 AM
.Rprofile	1.6 KB	Jan 20, 2023, 4:03 PM
Boys-to-Girl ratio.pdf	4.8 KB	Aug 29, 2021, 7:19 PM
CSE_MSE_RXF131		
Desktop		
Documents		
Downloads		
elm-netSEM_reloaded.Rmd	5.1 KB	Jun 29, 2022, 4:41 PM
Git		
GSASII.desktop	338 B	Dec 19, 2022, 11:59 AM
ImageJ2.desktop	497 B	Dec 19, 2022, 11:59 AM
labelme.desktop	494 B	Dec 19, 2022, 11:59 AM
labelmeimg.desktop	503 B	Dec 19, 2022, 11:59 AM
LTT.log	559 B	Nov 10, 2021, 12:45 PM
ML_111417_Radio.csv	681.8 MB	Jan 21, 2022, 1:50 PM
module.json	2.3 KB	Jan 31, 2023, 11:20 AM
Music		
ondemand		
Pictures		

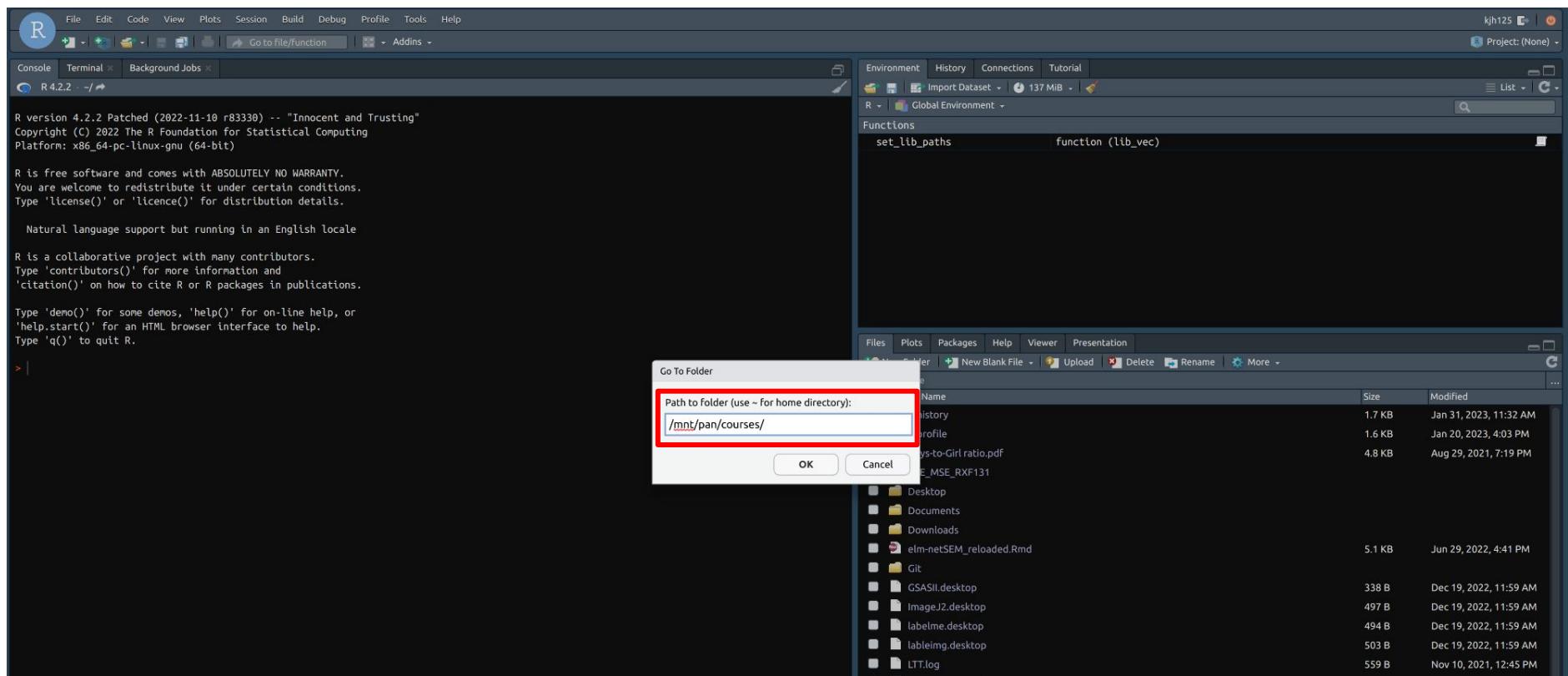
Navigate to your storage space (you may need lots of libraries!)

The screenshot shows the RStudio interface with the following details:

- Top Bar:** File, Edit, Code, View, Plots, Session, Build, Debug, Profile, Tools, Help.
- Project Bar:** kjh125, Project: (None).
- Console Tab:** Console, Terminal, Background Jobs.
- Terminal Tab:** R 4.2.2 - /.
- Environment Tab:** Environment, History, Connections, Tutorial.
- Functions Tab:** Global Environment, search bar, list of functions including `set_lib_paths`.
- File Browser:** Shows a list of files and folders in the current directory:

Name	Size	Modified
.History	1.7 KB	Jan 31, 2023, 11:32 AM
.Rprofile	1.6 KB	Jan 20, 2023, 4:03 PM
Boys-to-Girl ratio.pdf	4.8 KB	Aug 29, 2021, 7:19 PM
CSE_MSE_RXF131		
Desktop		
Documents		
Downloads		
elm-netSEM_reloaded.Rmd	5.1 KB	Jun 29, 2022, 4:41 PM
Git		
GSAII.desktop	338 B	Dec 19, 2022, 11:59 AM
ImageJ2.desktop	497 B	Dec 19, 2022, 11:59 AM
labelme.desktop	494 B	Dec 19, 2022, 11:59 AM
labelmeimg.desktop	503 B	Dec 19, 2022, 11:59 AM
LTT.log	559 B	Nov 10, 2021, 12:45 PM
ML_111417_Radio.csv	681.8 MB	Jan 21, 2022, 1:50 PM
module.json	2.3 KB	Jan 31, 2023, 11:20 AM
Music		
ondemand		
Pictures		
- Bottom Right:** A callout arrow points from the text "Click [...]" to the ellipsis button (...).

Type your Path (location you wish to work in) and click ok



The screenshot shows the RStudio interface and a file browser window.

RStudio Environment:

- Top menu bar: File, Edit, Code, View, Plots, Session, Build, Debug, Profile, Tools, Help.
- Toolbar icons: R logo, File, Edit, Run, Terminal, Go to file/function, Addins.
- Console tab: R 4.2.2 - ~/
- Output pane:

```
R version 4.2.2 Patched (2022-11-10 r83330) -- "Innocent and Trusting"
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'help.start()' for an HTML browser interface to help.
Type 'q()' to quit R.
```
- Global Environment pane: Shows a single entry: `set_lib_paths` function (lib_vec).

File Browser:

- Top menu bar: Files, Plots, Packages, Help, Viewer, Presentation.
- Toolbar icons: New Folder, New Blank File, Upload, Delete, Rename, More.
- Path: ~/mint/pan/courses
- Table view:

Name	Size	Modified
..		
admin		
bdb81		
bwttest		
csds133		
dsci35x		
dsci45x		
dsci351-451		
dsci352-452		
dsci353-453		
dsci354-454		
ech460		
epbi457		
gxb43_sybb402		
jmy41_dsci332-432		
lsh41_emse125		
mbx150_phol475		
nvc		
pqhs457		
rcci		
scb126_biol410		
smp201_chemx42		
suu125_sybb212		

Text Overlay: Click on the name of your course

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Platform: x86_64-pc-linux-gnu (64-bit)

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'help.start()' for an HTML browser interface to help.
Type 'q()' to quit R.

Console Terminal > Background Jobs

Environment History Connections Tutorial

Import Dataset 138 MB

R Global Environment

Functions set_lib_paths function (lib_vec)

File Plots Packages Help Viewer Presentation

New Folder New Blank File Upload Delete Rename More

.. mint pan courses dsci353-453

Name Size Modified

Make a “New folder” that is your caselD.

Select the name of the folder when you create it

You should then be in your folder

R version 4.2.2 Patched (2022-11-10 r83330) -- "Innocent and Trusting"
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Type 'demo()' for some demos, 'help()' for on-line help, or
'help.start()' for an HTML browser interface to help.
Type 'q()' to quit R.

> |

Repeat previous step, but create “git” folder.

Go into your “git” folder

Environment History Connections Tutorial

Import Dataset 139 MB

Functions set_lib_paths function (lib_vec)

Files Plots Packages Help Viewer Presentation

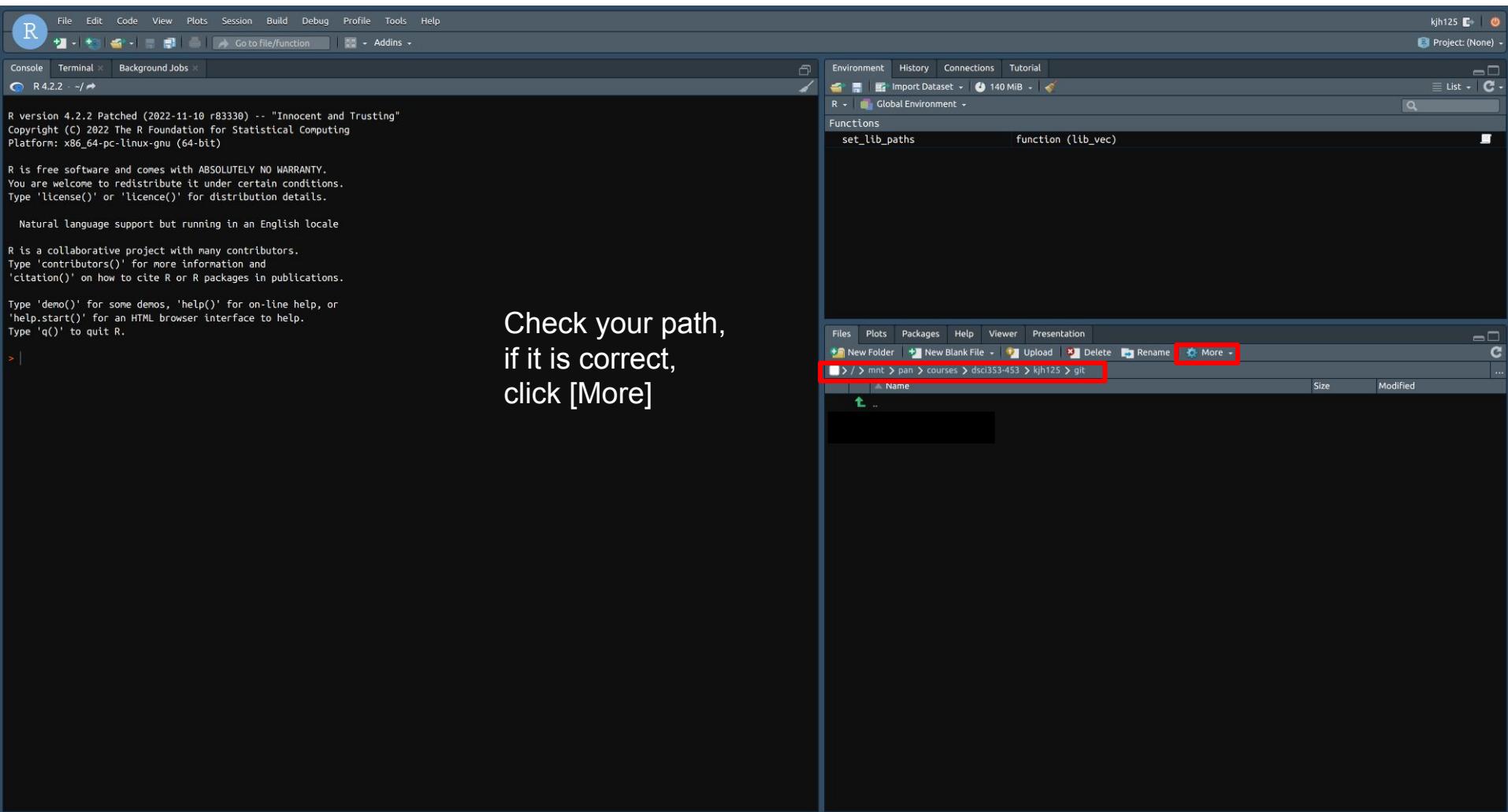
New Folder New Blank File Upload Delete Rename More

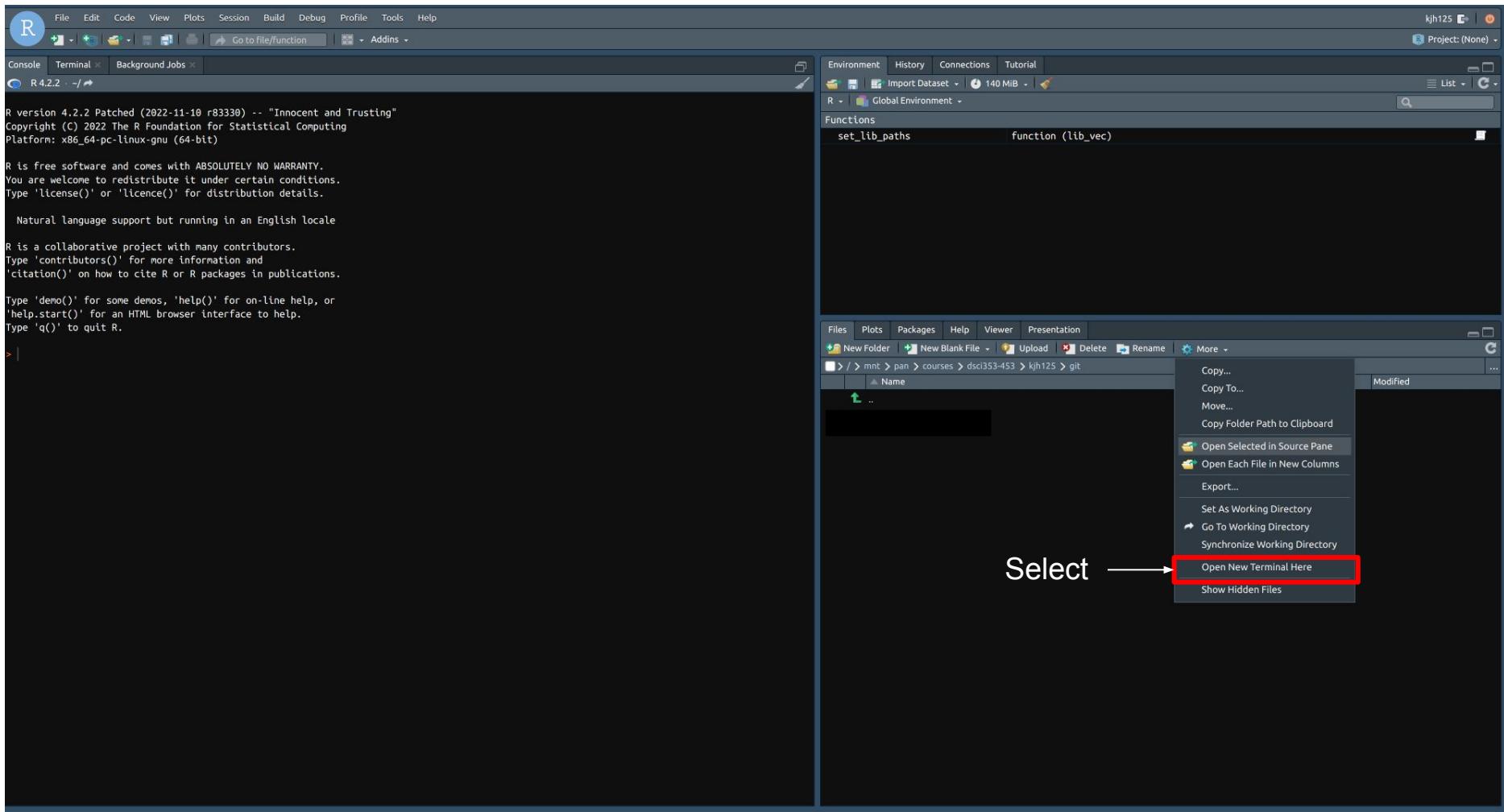
/ mint pan courses dsci353-453 kjh125

Name Size Modified

..

git





The screenshot shows the RStudio interface with a terminal session active. The terminal tab is titled "Terminal 1 (busy)" and contains the command: `git clone https://Kristen_Hernandez@bitbucket.org/Kristen_Hernandez/23s-dsci353-453-kjh125.git`. A red box highlights this command. The RStudio environment pane shows the global environment and functions. The files pane shows a directory structure under "mnt/pan/courses/dsci353-453/kjh125/git" containing a folder named "23s-dsci353-453-kjh125".

File Edit Code View Plots Session Build Debug Profile Tools Help

R kjh125 Project: (None)

Console Terminal Background Jobs

Terminal 1 (busy) /mnt/pan/courses/dsci353-453/kjh125/git

```
kjh125@classt002:/mnt/pan/courses/dsci353-453/kjh125/git$ git clone https://Kristen_Hernandez@bitbucket.org/Kristen_Hernandez/23s-dsci353-453-kjh125.git
```

Environment History Connections Tutorial

Import Dataset 141 MB

R Global Environment

Functions

```
set_lib_paths function (lib_vec)
```

Files Plots Packages Help Viewer Presentation

New Folder New Blank File Upload Delete Rename More

/ mnt pan courses dsci353-453 kjh125 git

Name	Size	Modified
..		
23s-dsci353-453-kjh125		

Check your directory,
paste the command to
“clone” from earlier and
hit enter

If prompted type your
App password from
bitbucket

You should see it begin
the download process
and make the folder in
your Files tab

The screenshot shows the RStudio interface with a terminal window and a file browser.

Terminal:

```
kjh125@classct002:/mnt/pan/courses/dsci353-453/kjh125/git$ git config
usage: git config [<options>]

Config file location
--global      use global config file
--system      use system config file
--local       use repository config file
--worktree    use per-worktree config file
-f, --file <file>   use given config file
--blob <blob-id>  read config from given blob object

Action
--get          get value: name [value-pattern]
--get-all      get all values: key [value-pattern]
--get-regexp   get values for regexp: name-regex [value-pattern]
--get-urimatch
--replace-all
--add
--unset
--unset-all
--rename-section
--remove-section
--l, --list
--fixed-value
-e, --edit
--get-color
--get-colorbool

Type
-t, --type <>
--bool
--int
--bool-or-int
--bool-or-str
--path
--expiry-date
value is given this type
value is "true" or "false"
value is decimal number
value is --bool or --int
value is --bool or string
value is a path (file or directory name)
value is an expiry date

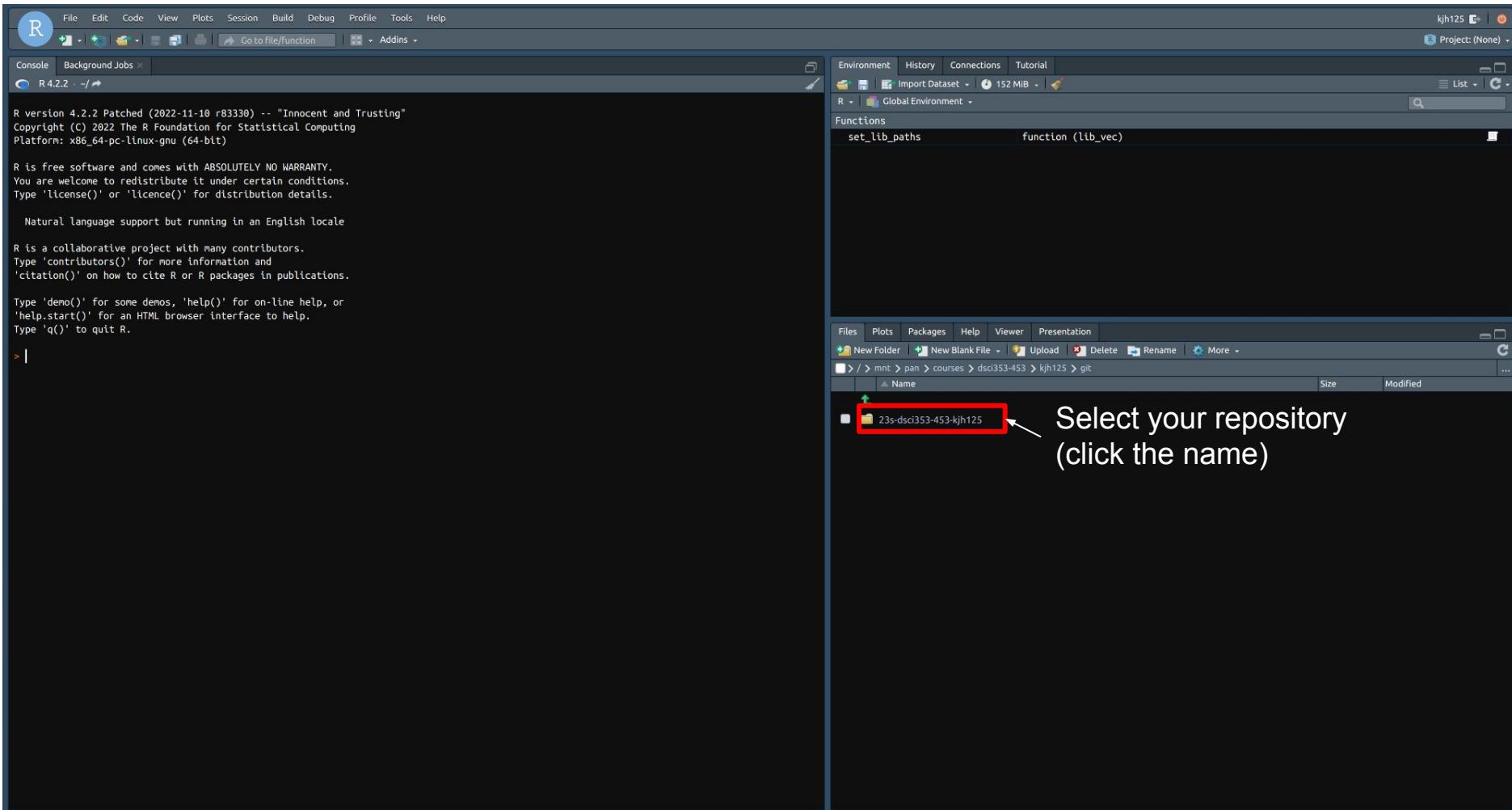
Other
-z, --null
--name-only
--includes
--show-origin
--show-scope
--default <value>
terminate values with NUL byte
show variable names only
respect include directives on lookup
show origin of config (file, standard input, blob, command line)
show scope of config (worktree, local, global, system, command)
with --get, use default value when missing entry
```

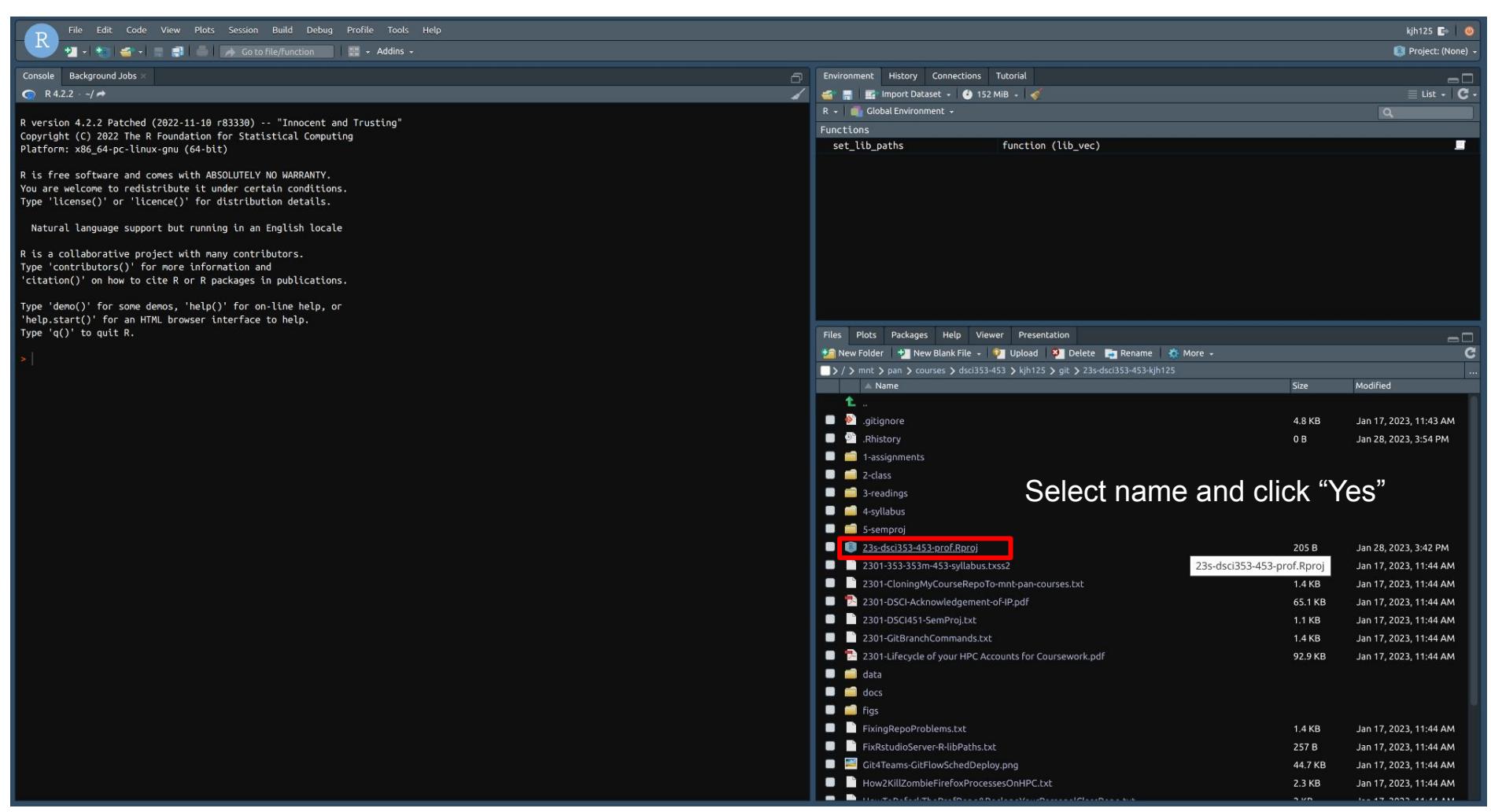
File Browser:

Shows a file tree under the path /mnt/pan/courses/dsci353-453/kjh125/git. The folder contains a single item: 23s-dsci353-453-kjh125.

Text Content:

- You can also type in this terminal**
- Use “git config” here to get an idea of the commands you will need to use to setup your local repository settings**
- This is how you will be identified in Bitbucket**
- To id yourself in the global settings you will need to type the two id commands.**
- Id Commands:**
 - git config --global user.name “Your name”
 - git config --global user.email “Your CaseEmail”
- Your id should now be set.





R 4.2.2 · /mnt/pan/courses/dsci353-453/kjh125/git/23s-dsci353-453-kjh125/ ↵

R version 4.2.2 Patched (2022-11-10 r83330) -- "Innocent and Trusting"
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Platform: x86_64-pc-linux-gnu (64-bit)

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Natural language support but running in an English locale

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'citation()' on how to cite R or R packages in publications.

Type 'demo()' for some demos, 'help()' for on-line help, or
'help.start()' for an HTML browser interface to help.
Type 'q()' to quit R.

|

Environment History Connections **Git** Tutorial

Import Dataset 134 MB

Global Environment

Functions set_lib_paths function (lib_vec)

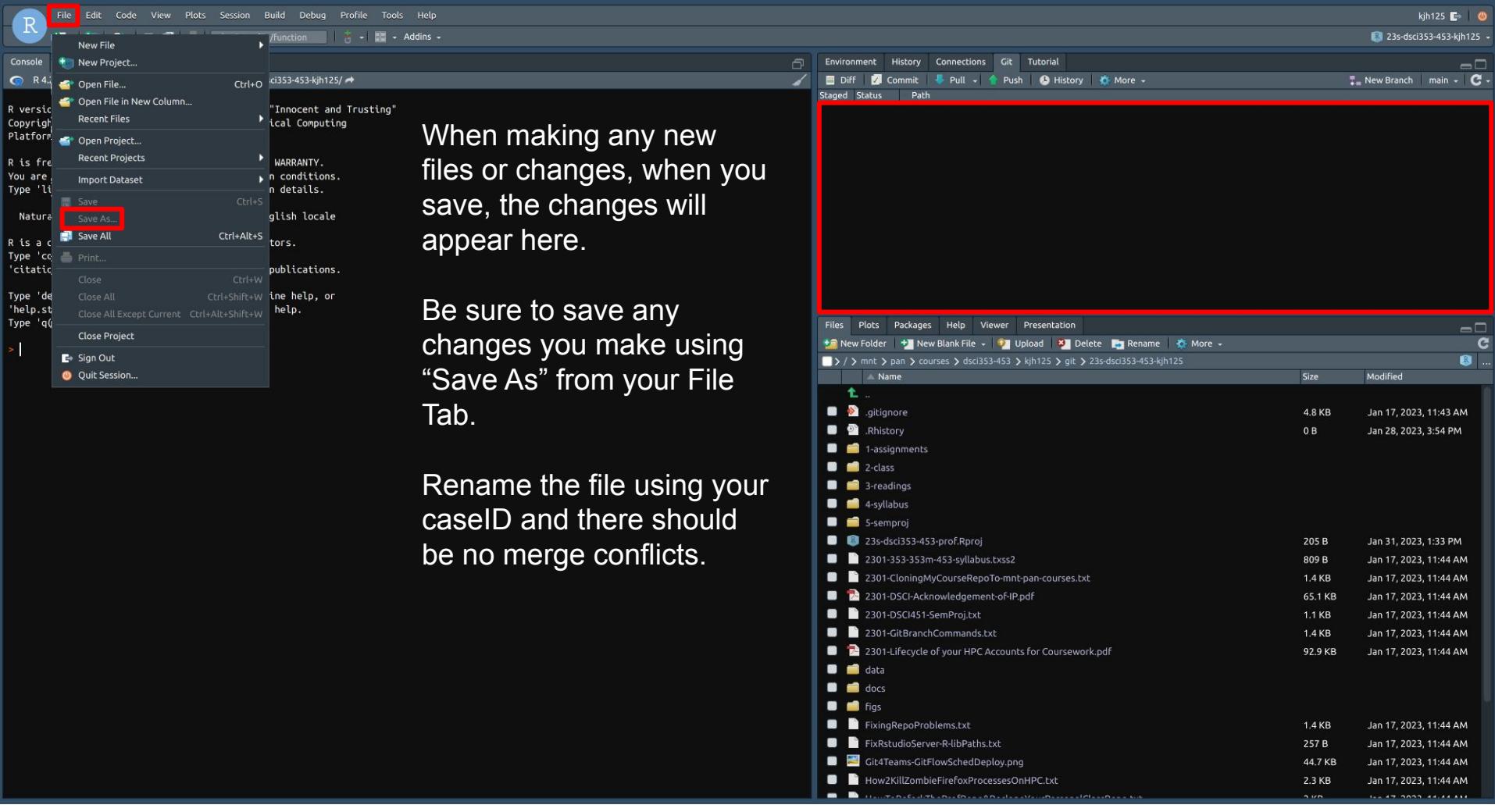
You now can access Git commands! Click the tab!
Notice how your upper corner has changed to
reflect your Rproj? Shouldn't say (None) like
before

Files Plots Packages Help Viewer Presentation

New Folder New Blank File Upload Delete Rename More

/ mint pan courses dsci353-453 kjh125 git 23s-dsci353-453-kjh125

Name	Size	Modified
..	4.8 KB	Jan 17, 2023, 11:43 AM
.gitignore	0 B	Jan 28, 2023, 3:54 PM
.Rhistory		
1-assignments		
2-class		
3-readings		
4-syllabus		
5-semproj		
23s-dsci353-453-prof.Rproj	205 B	Jan 31, 2023, 1:33 PM
2301-353-353m-453-syllabus.txss2	809 B	Jan 17, 2023, 11:44 AM
2301-CloningMyCourseRepoTo-mnt-pan-courses.txt	1.4 KB	Jan 17, 2023, 11:44 AM
2301-DSCI-Acknowledgement-of-IP.pdf	65.1 KB	Jan 17, 2023, 11:44 AM
2301-DSCI451-SemProj.txt	1.1 KB	Jan 17, 2023, 11:44 AM
2301-GitBranchCommands.txt	1.4 KB	Jan 17, 2023, 11:44 AM
2301-Lifecycle of your HPC Accounts for Coursework.pdf	92.9 KB	Jan 17, 2023, 11:44 AM
data		
docs		
figs		
FixingRepoProblems.txt	1.4 KB	Jan 17, 2023, 11:44 AM
FixRstudioServerR-libPaths.txt	257 B	Jan 17, 2023, 11:44 AM
Git4Teams-GitFlowSchedDeploy.png	44.7 KB	Jan 17, 2023, 11:44 AM
How2KillZombieFireFoxProcessesOnHPC.txt	2.3 KB	Jan 17, 2023, 11:44 AM
HowToDefineTheCourseScopeOfDataWhenYourProjectIsClear-CourseScope	2 KB	Jan 17, 2023, 11:44 AM



The image shows a dual-pane view in RStudio. The left pane is a terminal window displaying the R environment. The right pane shows a Git interface and a file browser.

Terminal (Left):

```
R version 4.2.2 Patched (2022-11-10 r83330) -- "Innocent and Trusting"
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'citation()' on how to cite R or R packages in publications.

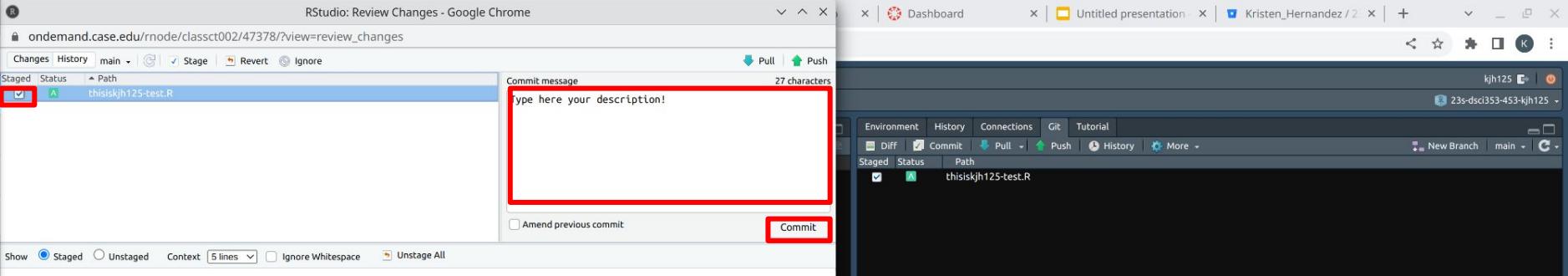
Type 'demo()' for some demos, 'help()' for on-line help, or
'help.start()' for an HTML browser interface to help.
Type 'q()' to quit R.
```

Git Interface (Top Right):

Environment History Connections Git Tutorial
Diff Commit Pull Push History More
Staged Status Pull

File Browser (Bottom Right):

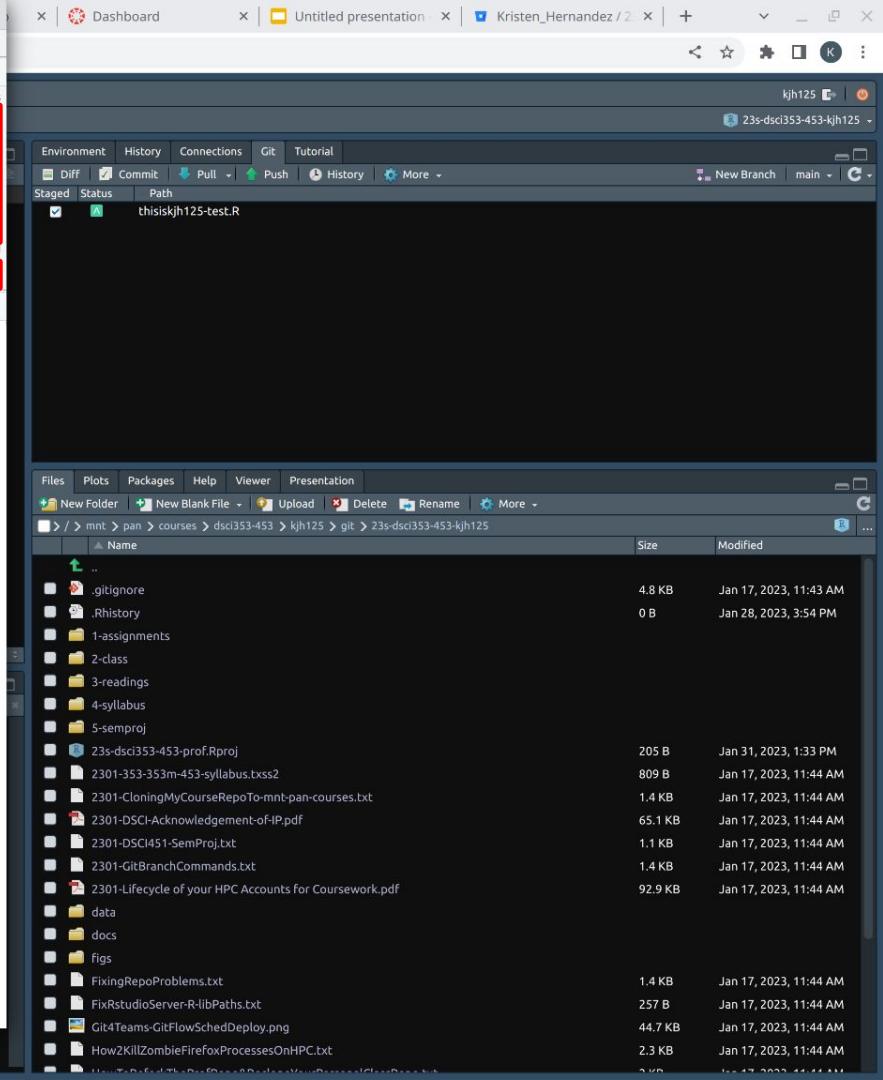
Name	Size	Modified
..	4.8 KB	Jan 17, 2023, 11:43 AM
.gitignore	0 B	Jan 28, 2023, 3:54 PM
.Rhistory		
1-assignments		
2-class		
3-readings		
4-syllabus		
5-semproj		
23s-dsci353-453-prof.Rproj	205 B	Jan 31, 2023, 1:33 PM
2301-353-353m-453-syllabus.tex2	809 B	Jan 17, 2023, 11:44 AM
2301-CloningMyCourseRepoTo-mnt-pan-courses.txt	1.4 KB	Jan 17, 2023, 11:44 AM
2301-DSCI-Acknowledgement-of-IP.pdf	65.1 KB	Jan 17, 2023, 11:44 AM
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2301-GitBranchCommands.txt	1.4 KB	Jan 17, 2023, 11:44 AM
2301-Lifecycle of your HPC Accounts for Coursework.pdf	92.9 KB	Jan 17, 2023, 11:44 AM
data		
docs		
figs		
FixingRepoProblems.txt	1.4 KB	Jan 17, 2023, 11:44 AM
FixRStudioServer-R-libPaths.txt	257 B	Jan 17, 2023, 11:44 AM
Git4Teams-GitFlowSchedDeploy.png	44.7 KB	Jan 17, 2023, 11:44 AM
How2KillZombieFirefoxProcessesOnHPC.txt	2.3 KB	Jan 17, 2023, 11:44 AM
HowToRunRStudioServerOnHPC.txt	2 KB	Jan 17, 2023, 11:44 AM

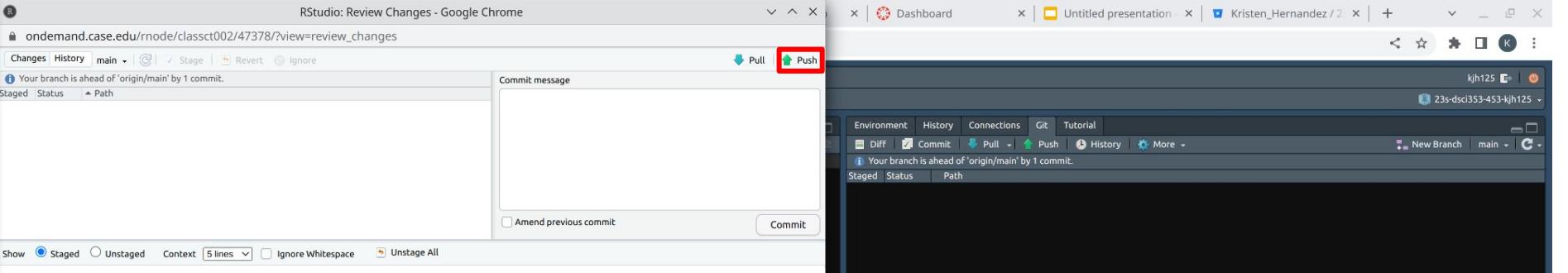


Changes should be similar to this.
Press **commit** in this popup screen.

This should process and when finish, click
“Close”

You then will return to this popup screen.





Now that it is committed, you can **Push** your changes to the cloud.

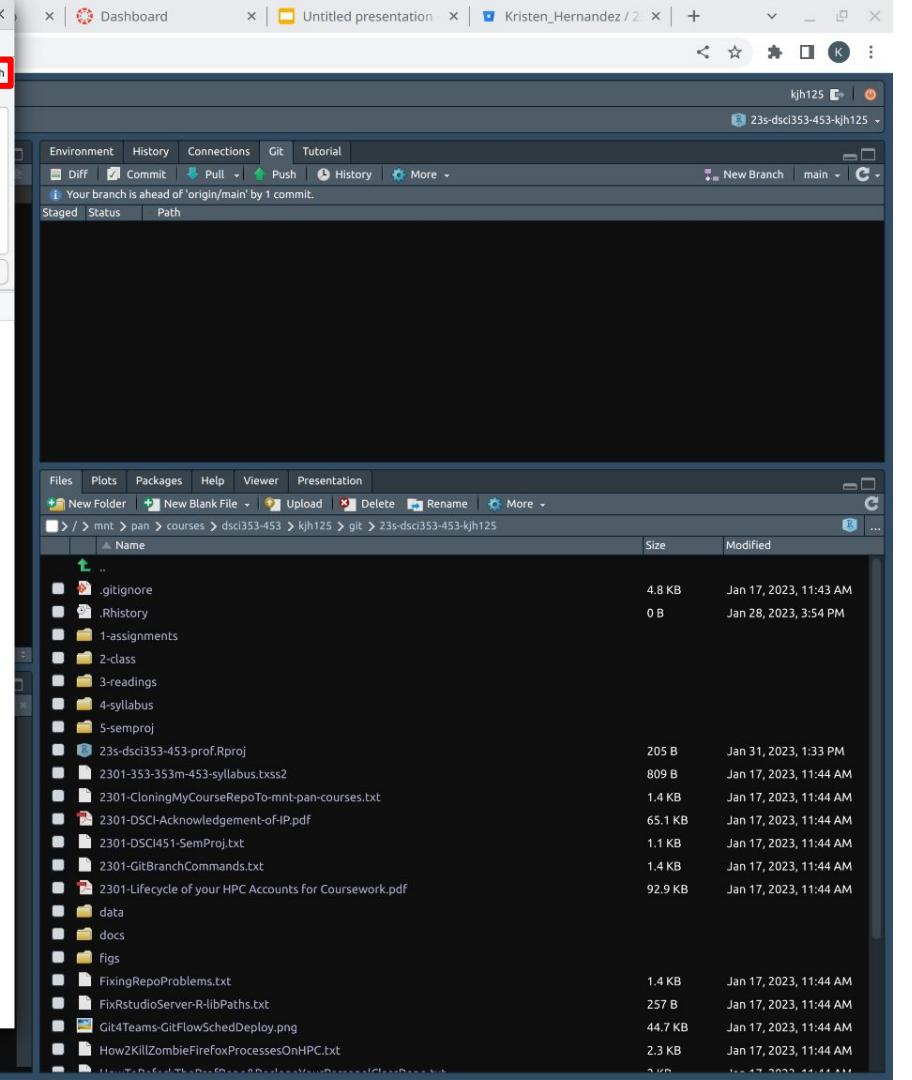
Press push and when prompted, type your app password.

This will upload your changes to Bitbucket.

Close when your push completes.

Close this popup window.

Check Bitbucket for your change!





Source

Commits

Branches

Pull requests

Pipelines

Deployments

Jira issues

Security

Downloads

Repository settings

figs		2023-01-08	first commit
packages		2023-01-08	first commit
scripts		2023-01-08	first commit
topics		2023-01-08	first commit
.gitignore	4.77 KB	2023-01-08	first commit
2301-353-353m-453-syllabus.txss2	809 B	2023-01-16	updated the dates in syllabus
2301-CloningMyCourseRepoTo-mnt-pan-courses.txt	1.4 KB	2023-01-08	first commit
2301-DSCI-Acknowledgement-of-IP.pdf	65.11 KB	2023-01-08	first commit
2301-DSCI451-SemProj.txt	1.1 KB	2023-01-08	first commit
2301-GitBranchCommands.txt	1.37 KB	2023-01-08	first commit
2301-Lifecycle of your HPC Accounts for Coursework.pdf	92.92 KB	2023-01-08	first commit
23s-dsci353-453-prof.Rproj	205 B	2023-01-16	added *.Rproj file
FixRStudioServer-R-libPaths.txt	257 B	2023-01-08	first commit
FixingRepoProblems.txt	1.43 KB	2023-01-08	first commit
Git4Teams-GitFlowSchedDeploy.png	44.7 KB	2023-01-08	first commit
How2KillZombieFirefoxProcessesOnHPC.txt	2.26 KB	2023-01-08	first commit
HowToReforkTheProfRepo&RecloneYourPersonalClassRepo.txt	1.98 KB	2023-01-08	first commit
HowToSetPrimaryGroupinAmara.pdf	193.62 KB	2023-01-08	first commit
LICENSE.txt	63 B	2023-01-08	first commit
README.md	2.93 KB	2023-01-08	first commit
thisiskjh125-test.R	0 B	5 minutes ago	Type here your description!

Repository details

Last updated
23 seconds agoLanguage
ROpen pull
requests
0Branches
1Watchers
1Forks
0Access level
AdminFork of
[crudsci/23s-dsci353-453-prof](#)

Sync (1 commit behind)

We are behind
the Prof!

0 builds



It looks like you haven't configured a build tool yet. You can use Bitbucket Pipelines to build, test and deploy your code.

Your existing plan already includes build minutes.

Set up a pipeline

But there is our file!

Congratulations on your First Commit/Push!

However, we need to catch up with the prof repository!

Being too far behind means we don't have the up to date syllabus

We also don't have the LEs for class.

So, let's fix this!

23s-dsci353-453-kjh...

Source

Commits

Branches

Pull requests

Pipelines

Deployments

Jira issues

Security

Downloads

Repository settings

figs		2023-01-08	first commit
packages		2023-01-08	first commit
scripts		2023-01-08	first commit
topics		2023-01-08	first commit
.gitignore	4.77 KB	2023-01-08	first commit
2301-353-353m-453-syllabus.txss2	809 B	2023-01-16	updated the dates in syllabus
2301-CloningMyCourseRepoTo-mnt-pan-courses.txt	1.4 KB	2023-01-08	first commit
2301-DSCI-Acknowledgement-of-IP.pdf	65.11 KB	2023-01-08	first commit
2301-DSCI451-SemProj.txt	1.1 KB	2023-01-08	first commit
2301-GitBranchCommands.txt	1.37 KB	2023-01-08	first commit
2301-Lifecycle of your HPC Accounts for Coursework.pdf	92.92 KB	2023-01-08	first commit
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Git4Teams-GitFlowSchedDeploy.png	44.7 KB	2023-01-08	first commit
How2KillZombieFirefoxProcessesOnHPC.txt	2.26 KB	2023-01-08	first commit
HowToReforkTheProfRepo&RecloneYourPersonalClassRepo.txt	1.98 KB	2023-01-08	first commit
HowToSetPrimaryGroupinAmara.pdf	193.62 KB	2023-01-08	first commit
LICENSE.txt	63 B	2023-01-08	first commit
README.md	2.93 KB	2023-01-08	first commit
thisiskjh125-test.R	0 B	5 minutes ago	Type here your description!

Repository details

Last updated 23 seconds ago Language R

Open pull requests 0 Branches 1

Watchers 1 Forks 0

Access level Admin

Fork of cwrudsci/23s-dsci353-453-prof

Click here!

Sync (1 commit behind)

0 builds



It looks like you haven't configured a build tool yet. You can use Bitbucket Pipelines to build, test and deploy your code.

Your existing plan already includes build minutes.

Set up a pipeline



Source

Commits

Branches

Pull requests

Pipelines

Deployments

Jira issues

Security

Downloads

Repository settings

figs
packages
scripts
topics
.gitignore
2301-353-353m-453-syllabus.txss2
2301-CloningMyCourseRepoTo-mnt-pan-courses.b
2301-DSCI-Acknowledgement-of-IP.pdf
2301-DSCI451-SemProj.txt
2301-GitBranchCommands.txt
2301-Lifecycle of your HPC Accounts for Coursework.pdf
23s-dsci353-453-prof.Rproj
FixRstudioServer-R-libPaths.txt
FixingRepoProblems.txt
Git4Teams-GitFlowSchedDeploy.png
How2KillZombieFirefoxProcessesOnHPC.txt
HowToReforkTheProfRepo&RecloneYourPersonalClassRepo.txt
HowToSetPrimaryGroupinAmara.pdf
LICENSE.txt
README.md
thisiskjh125-test.R

Sync repository

Source

cwrudsci/23s-dsci353-453-prof main

Destination

Kristen_Hernandez/23s-dsci353-453-kjh125 main

Commit message

Merged cwrudsci/23s-dsci353-453-prof into main

Click Sync to get the prof changes

Sync

Cancel

92.92 KB	2023-01-08	first commit
205 B	2023-01-16	added *.Rproj file
257 B	2023-01-08	first commit
1.43 KB	2023-01-08	first commit
44.7 KB	2023-01-08	first commit
2.26 KB	2023-01-08	first commit
1.98 KB	2023-01-08	first commit
193.62 KB	2023-01-08	first commit
63 B	2023-01-08	first commit
2.93 KB	2023-01-08	first commit
0 B	11 minutes ago	Type here your description!

Repository details

Last updated 6 minutes ago Language R

Open pull requests 0 Branches 1

Watchers 1 Forks 0

Access level Admin

Fork of cwrudsci/23s-dsci353-453-prof

Sync (1 commit behind)

0 builds



It looks like you haven't configured a build tool yet. You can use Bitbucket Pipelines to build, test and deploy your code.

Your existing plan already includes build minutes.

Set up a pipeline



Kristen Hernandez / kjh125

23s-dsci353-453-kjh125

Invite Clone ...

Source

Commits

Branches

Pull requests

Pipelines

Deployments

Jira issues

Security

Downloads

Repository settings



main

Files

Filter files



/

Name

Size

Last commit

Message

1-assignments

3 days ago

this is a test

2-class

3 hours ago

Class week 3a notes ready

3-readings

2023-01-24

added ISLR2 errata

4-syllabus

3 hours ago

Class week 3a notes ready

5-semproj

2023-01-24

updates to semester project

data

2023-01-08

first commit

docs

2023-01-08

first commit

figs

2023-01-08

first commit

packages

2023-01-08

first commit

scripts

2023-01-08

first commit

topics

2023-01-08

first commit

.gitignore

4.77 KB

2023-01-08

first commit

bus.txss2

809 B

2023-01-16

updated the dates in syllabus

repoTo-mnt-pan-courses.txt

1.4 KB

2023-01-08

first commit

2021-DSCI451-Acknowledgement-of-IP.pdf

65.11 KB

2023-01-08

first commit

2301-DSCI451-SemProj.txt

1.1 KB

2023-01-08

first commit



Your repository is now up-to-date

You successfully synced Kristen_Hernandez/23s-dsci353-453-kjh125 with commits from cwrudsci/23s-dsci353-453-prof

Repository details

Last updated 9 seconds ago Language R

Open pull requests 0 Branches 1

Watchers 1 Forks 0

Access level Admin Fork of cwrudsci/23s-dsci353-prof

0 builds



It looks like you haven't configured a build tool yet. You can use Bitbucket Pipelines to build, test and deploy your code.

Your existing plan already includes build minutes.

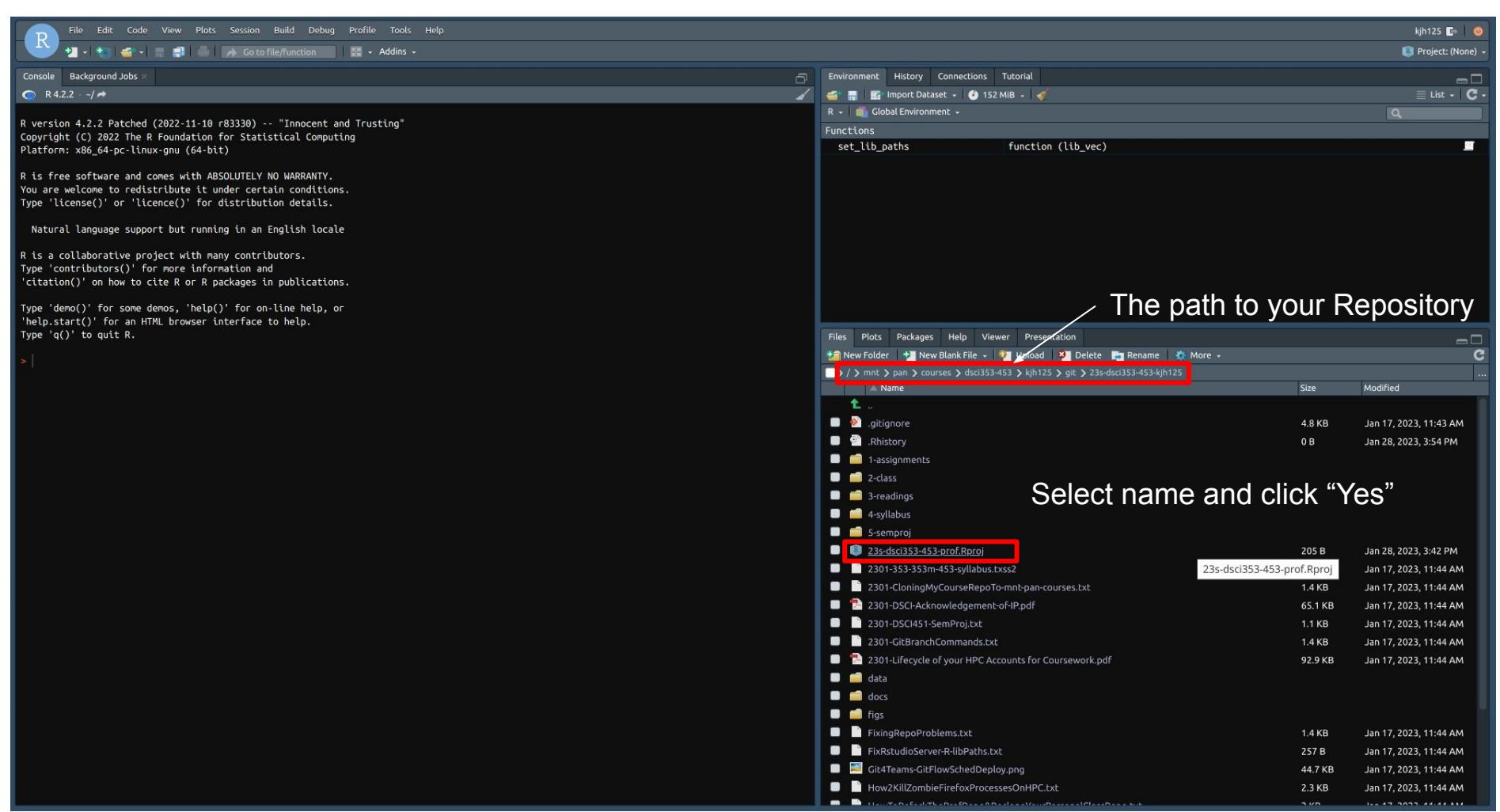
Set up a pipeline

Return to Rstudio!

With our Bitbucket now synced, we need to **Pull** that update from the cloud
This will bring it to our local.

We will need the git command pull

Navigate to your git repository (just like the earlier steps, but now you don't have to create it new, just open your repository location)



The screenshot shows the RStudio interface with the Git tab selected in the top navigation bar. A red box highlights the 'Git' tab. The top status bar shows the session identifier '23s-dsci353-453-kjh125'. The left pane displays the R console output, which includes the standard R startup message and information about the current session.

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Type 'demo()' for some demos, 'help()' for on-line help, or
'help.start()' for an HTML browser interface to help.
Type 'q()' to quit R.

> |

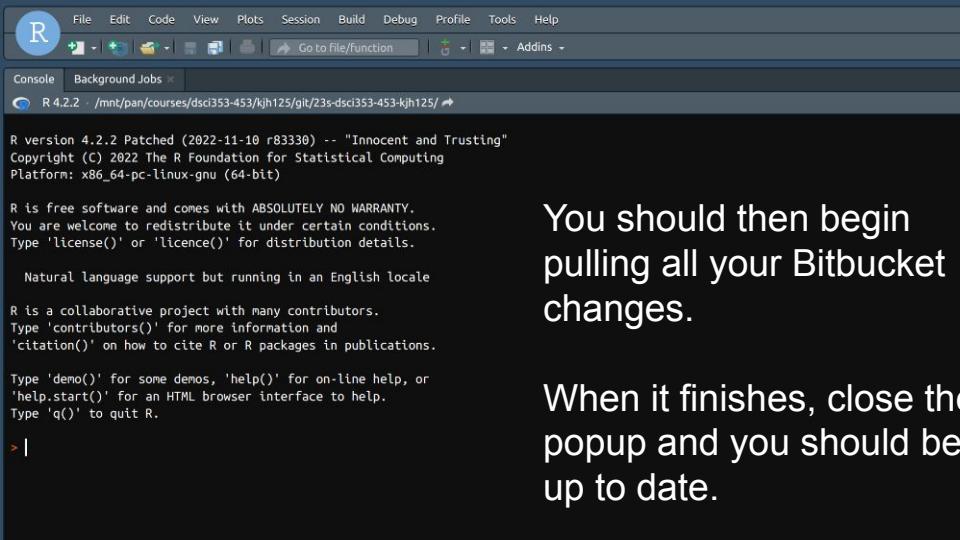
The right pane shows the Global Environment and Functions tabs. The Functions tab is active, displaying the 'set_lib_paths' function definition. Below the functions list, there is a note: "Like before, select Git".

The bottom pane shows a file browser with the following directory structure and files:

- ..
- .gitignore
- .Rhistory
- 1-assignments
- 2-class
- 3-readings
- 4-syllabus
- 5-semproj
- 23s-dsci353-453-prof.Rproj
- 2301-353-353m-453-syllabus.txss2
- 2301-CloningMyCourseRepoTo-mnt-pan-courses.txt
- 2301-DSCI-Acknowledgement-of-IP.pdf
- 2301-DSCI451-SemProj.txt
- 2301-GitBranchCommands.txt
- 2301-Lifecycle of your HPC Accounts for Coursework.pdf
- data
- docs
- figs
- FixingRepoProblems.txt
- FixRstudioServerR-libPaths.txt
- Git4Teams-GitFlowSchedDeploy.png
- How2KillZombieFireFoxProcessesOnHPC.txt
- HowToDefineTheOpenSSH-0.9.0-alpha1-Via-OpenSSH-0.9.0-alpha1

Like before, select Git

However, go to “Pull”



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|

Environment History Connections Git Tutorial
Diff Commit Pull Push History More
Staged Status Path

Click here

Files Plots Packages Help Viewer Presentation
New Folder New Blank File Upload Delete Rename More
/ > / mnt > pan > courses > dsci353-453 > kjh125 > git > 23s-dsci353-453-kjh125

Name	Size	Modified
..	4.8 KB	Jan 17, 2023, 11:43 AM
.gitignore	0 B	Jan 28, 2023, 3:54 PM
.Rhistory		
1-assignments		
2-class		
3-readings		
4-syllabus		
5-semproj		
23s-dsci353-453-prof.Rproj	205 B	Jan 31, 2023, 1:33 PM
2301-353-353m-453-syllabus.txss2	809 B	Jan 17, 2023, 11:44 AM
2301-CloningMyCourseRepoTo-mnt-pan-courses.txt	1.4 KB	Jan 17, 2023, 11:44 AM
2301-DSCI-Acknowledgement-of-IP.pdf	65.1 KB	Jan 17, 2023, 11:44 AM
2301-DSCI451-SemProj.txt	1.1 KB	Jan 17, 2023, 11:44 AM
2301-GitBranchCommands.txt	1.4 KB	Jan 17, 2023, 11:44 AM
2301-Lifecycle of your HPC Accounts for Coursework.pdf	92.9 KB	Jan 17, 2023, 11:44 AM
data		
docs		
figs		
FixingRepoProblems.txt	1.4 KB	Jan 17, 2023, 11:44 AM
FixRStudioServer-R-libPaths.txt	257 B	Jan 17, 2023, 11:44 AM
Git4Teams-GitFlowSchedDeploy.png	44.7 KB	Jan 17, 2023, 11:44 AM
How2KillZombieFirefoxProcessesOnHPC.txt	2.3 KB	Jan 17, 2023, 11:44 AM
HowToRunRStudioServerOnHPC.txt	2 KB	Jan 17, 2023, 11:44 AM

Congratulations on your first Pull!

You should be good to go now.

The rest is just repeating those steps as needed.

If you run into issues they are typically from a merge conflict, not setting your Bitbucket App password, your global id, or that you haven't pressed the Rproj to set your environment.

You can also change your interface using Tools -> Global Options in your Rstudio tab. There are many RStudio Tutorials available to get your interface right!

This is for setting up your repositories and getting used to Commit, Push and Pull

Please Note!

You can also use BASH (terminal code) to do this as well.

I used the GUI (Graphical User Interface) in this guide.

GUIs change- so this guide may change as well to reflect this.

Wait... everyone can access my mnt Repository...

We got you repository all set up, but people are able to access this
Security is a must in this class.

We don't want someone taking credit for your work - or possibly deleting your
work.

So, let's fix this security flaw...

Access OnDemand

Given you have launched your Rstudio in OnDemand, you can also run a LXDE terminal

This is just a Desktop in the Linux environment.

Go to your 'shared apps' and find LXDE

Create a session that is the same way as you would an RStudio Session



GSAS-II



ImageJ



LabelImg



Labelme

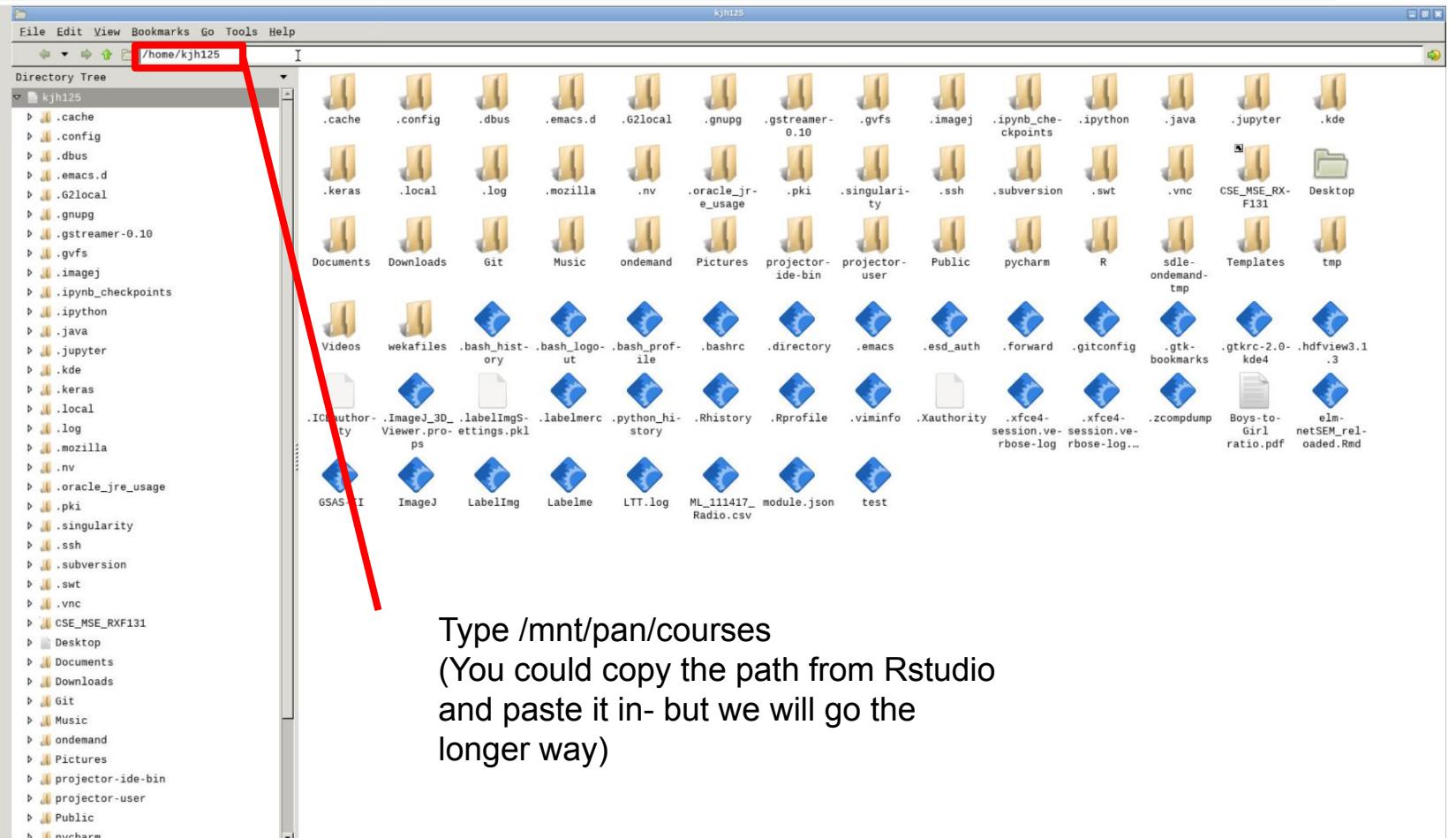
LXDE Desktop

Look at the desktop apps



Go to your file manager





Type /mnt/pan/courses
(You could copy the path from Rstudio
and paste it in- but we will go the
longer way)

Go to your correct course id

Select the folder/directory that is the class you are enrolled in

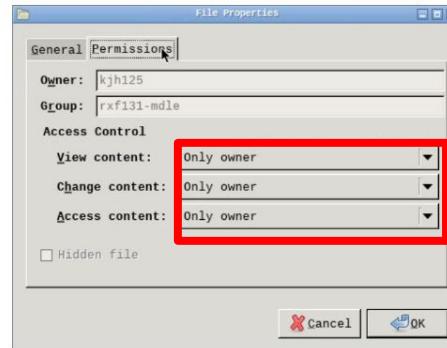
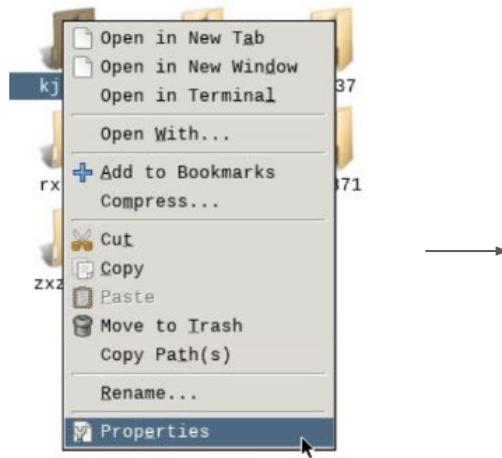


Navigate to your folder

You should see your folder casID code if you have followed along with this guide

You will need to right click on that folder that corresponds to your casID

This should make a drop box appear -> select properties -> select Permissions



Change all your permissions to “Only Owner” and hit ok

Now your folder is private!

Good Job! You now should be safe from getting your work copied

Or worse, deleted by some other user.