

# R Studio and Github Integration

BST 625

Min Lu

# Step 1: download and install git

## <https://git-scm.com/download/>

Download Git for Windows: <https://git-scm.com/download/win>  
macOS: <https://git-scm.com/download/mac>

**git** --distributed-is-the-new-centralized

Search entire site...

**Downloads**

Mac OS X Windows Linux/Unix

Older releases are available and the Git source repository is on GitHub.

**GUI Clients**  
Git comes with built-in GUI tools (**git-gui**, **gitk**), but there are several third-party tools for users looking for a platform-specific experience.  
[View GUI Clients →](#)

**Logos**  
Various Git logos in PNG (bitmap) and EPS (vector) formats are available for use in online and print projects.  
[View Logos →](#)

**Git via Git**  
If you already have Git installed, you can get the latest development version via Git itself:  

```
git clone https://github.com/git/git
```

  
You can also always browse the current contents of the git repository using the [web interface](#).

The entire **Pro Git book** written by Scott Chacon and Ben Straub is available to [read online for free](#). Dead tree versions are available on [Amazon.com](#).

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### Adjusting your PATH environment

How would you like to use Git from the command line?



**Use Git from Git Bash only**

This is the most cautious choice as your PATH will not be modified at all. You will only be able to use the Git command line tools from Git Bash.

**Git from the command line and also from 3rd-party software**

**(Recommended)** This option adds only some minimal Git wrappers to your PATH to avoid cluttering your environment with optional Unix tools. You will be able to use Git from Git Bash, the Command Prompt and the Windows PowerShell as well as any third-party software looking for Git in PATH.

**Use Git and optional Unix tools from the Command Prompt**

Both Git and the optional Unix tools will be added to your PATH.  
**Warning: This will override Windows tools like "find" and "sort". Only use this option if you understand the implications.**

<https://gitforwindows.org/>

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Cancel

### Choose a credential helper

Which credential helper should be configured?



**None**

Do not use a credential helper.

**Git Credential Manager**

The [Git Credential Manager for Windows](#) handles credentials e.g. for Azure DevOps and GitHub (requires .NET framework v4.5.1 or later).

**Git Credential Manager Core**

**(NEW!)** Use the new, [cross-platform version of the Git Credential Manager](#). See more information about the future of Git Credential Manager [here](#).

<https://gitforwindows.org/>

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Cancel

### Configuring extra options

Which features would you like to enable?



**Enable file system caching**

File system data will be read in bulk and cached in memory for certain operations ("core.fscache" is set to "true"). This provides a significant performance boost.

**Enable symbolic links**

Enable [symbolic links](#) (requires the SeCreateSymbolicLink permission). Please note that existing repositories are unaffected by this setting.

<https://gitforwindows.org/>

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Step 2: create a GitHub account and copy your link  
<https://github.com/>



Why GitHub? Team Enterprise Explore Marketplace Pricing

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# Built for developers

GitHub is a development platform inspired by the way you work. From **open source** to **business**, you can host and review code, manage projects, and build software alongside 50 million developers.

**Username**

luminwin

Username luminwin is not available.  
luminwin-igtm, luminwin-droid, or luminwin374 are available.

**Password**

.....

Make sure it's at least 15 characters OR at least 8 characters including a number and a lowercase letter. [Learn more.](#)

**Sign up for GitHub**

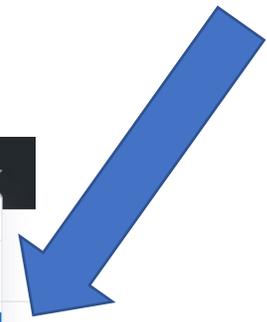
By clicking "Sign up for GitHub", you agree to our [Terms of Service](#) and [Privacy Statement](#). We'll occasionally send you account related emails.

GitHub navigation bar: Search or jump to..., Pull requests, Issues, Marketplace, Explore. Signed in as luminwin. Set status button. Profile dropdown menu: Your profile (highlighted), Your repositories, Your projects, Your stars, Your gists, Upgrade, Feature preview, Help, Settings, Sign out.

Profile card for Min Lu (luminwin):  
Ph.D. student at University of Miami  
Edit profile button  
0 followers · 1 following · 0 stars  
luminwin@gmail.com

Repository card for playwith:  
Automatically exported from code.google.com/p/playwith  
R Updated on Mar 24, 2015

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Profile tabs: Overview, **Repositories 1**, Projects, Packages

Repository search: Find a repository..., Type: All, Language: All, **New** (highlighted with a blue arrow), Star

Repository details: **playwith**, Automatically exported from code.google.com/p/playwith, Updated on Mar 24, 2015

Star luminwin/playwit

User profile: **Min Lu**, luminwin, Ph.D. student at University of Miami, Edit profile, 0 followers · 1 following · 0 stars, luminwin@gmail.com

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# Everything by default

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Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere? [Import a repository.](#)

Owner \*  / Repository name \*

Great repository names are short and memorable. Need inspiration? How about [ubiquitous-telegram](#)?

Description (optional)

**Public**  
Anyone on the internet can see this repository. You choose who can commit.

**Private**  
You choose who can see and commit to this repository.

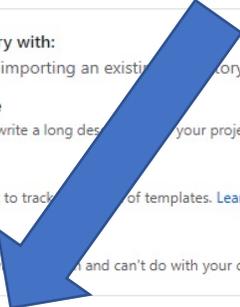
Initialize this repository with:

Skip this step if you're importing an existing repository.

**Add a README file**  
This is where you can write a long description of your project. [Learn more.](#)

**Add .gitignore**  
Choose which files not to track. [Learn more.](#)

**Choose a license**  
A license tells others what they can and can't do with your code. [Learn more.](#)



**Copy** this address and we will paste it in R studio

luminwin / BST625R

Unwatch 1 Star 0 Fork 0

Code Issues Pull requests Actions Projects Wiki Security Insights Settings

**Quick setup — if you've done this kind of thing before**

Set up in Desktop or HTTPS SSH <https://github.com/luminwin/BST625R.git>

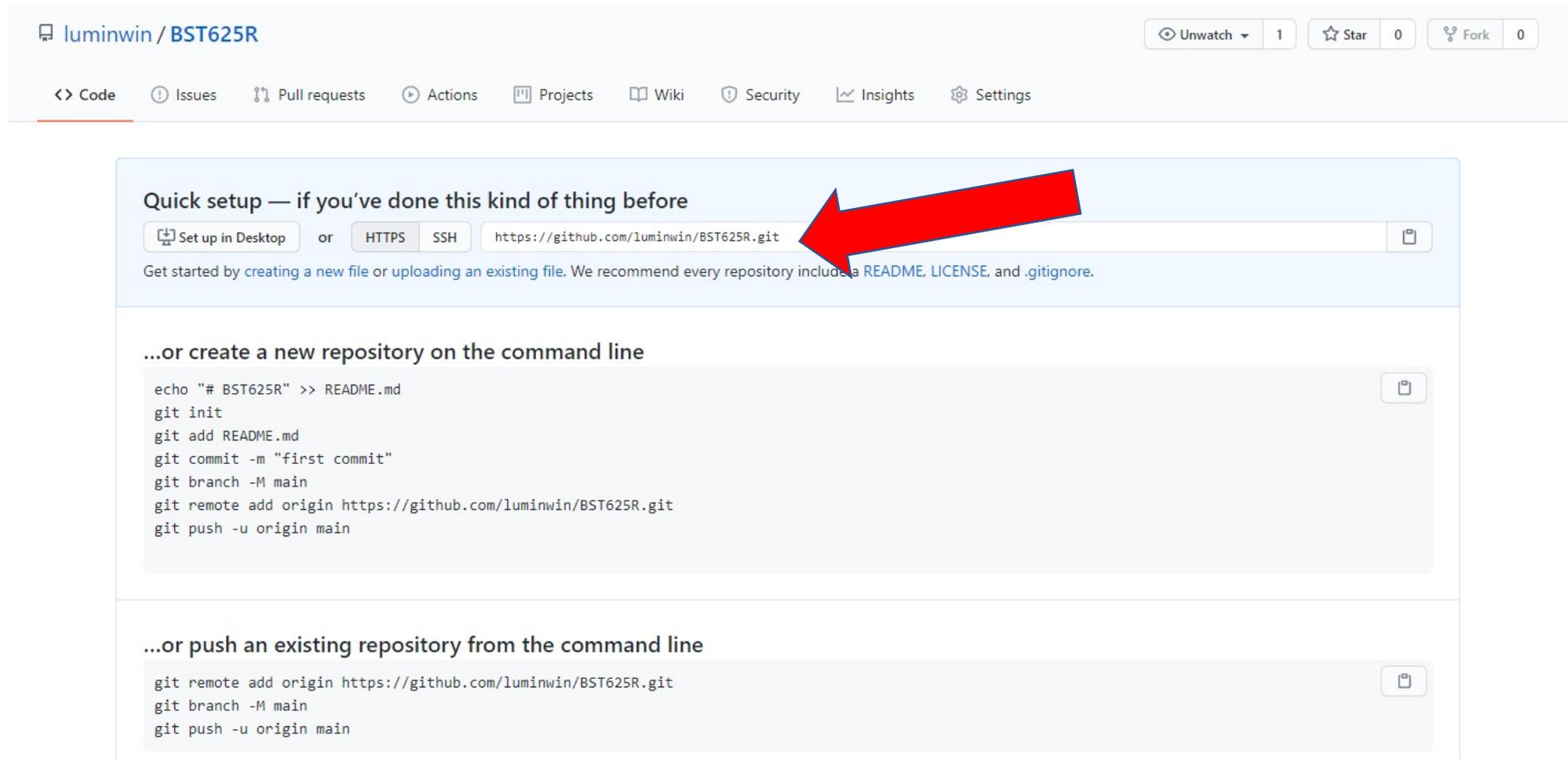
Get started by [creating a new file](#) or [uploading an existing file](#). We recommend every repository includes a [README](#), [LICENSE](#), and [.gitignore](#).

**...or create a new repository on the command line**

```
echo "# BST625R" >> README.md
git init
git add README.md
git commit -m "first commit"
git branch -M main
git remote add origin https://github.com/luminwin/BST625R.git
git push -u origin main
```

**...or push an existing repository from the command line**

```
git remote add origin https://github.com/luminwin/BST625R.git
git branch -M main
git push -u origin main
```



# Step 3: open you R Studio

The screenshot shows the RStudio interface with the 'New Project' dialog box open. The 'Version Control' section is selected, and the 'Git' option is chosen. The 'Clone Git Repository' sub-dialog is active, showing the 'Repository URL' field highlighted by a red arrow. The 'Project directory name' field is empty, and the 'Create project as subdirectory of:' field is set to 'C:/Users/mlu6/Desktop'. The 'Open in new session' checkbox is unchecked. The 'Create Project' and 'Cancel' buttons are visible at the bottom of the dialog. The background shows the RStudio menu bar, a file explorer window, and the R console with some text.

```
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.  
>
```

**Paste** the link from your github repository

New Project

Back Clone Git Repository



Repository URL:  
https://github.com/luminwin/BST625R.git

Project directory name:  
BST625R

Create project as subdirectory of:  
C:/Users/mlu6/Dropbox/R book/GitR Browse...

Open in new session

Create Project Cancel

Annotations:  
- Red arrow pointing to the Repository URL field.  
- Blue arrow labeled "Your name" pointing to the Project directory name field.  
- Blue arrow labeled "Your folder" pointing to the Browse... button.

# Select what to “push”

```
file Tools Help
Addins

L Professor, DIVISION OF BIOSSTATISTICS
Building
et, Room 1059
mi, Miami FL 33136

-----
LD NOT BE COPIED, USED, MODIFIED, OR
NY WAY WITHOUT SPECIFIC WRITTEN PERMISSION

#####

## familiar with R studio
0, 55, 80) # initialize a vector
, 122, 160, 149, 140)

make a plot

R or R packages in publications.
, 'help()' for on-line help, or
rowser interface to help.
```

RStudio: Review Changes

Changes History (no branch) Stage Revert Ignore Pull Push

Staged	Status	Path
<input type="checkbox"/>		.gitignore
<input checked="" type="checkbox"/>	A	1-intro.R
<input type="checkbox"/>		BST625R.Rproj

Commit message  
Topic 1: Introduction to

Amend previous commit

```
36 pdf("example.pdf", width = 5, height = 5)
37 plot(age, systolic)
38 dev.off()
39
40 ##### side 7 to 12 ## environment
41
42 plot(mtcars$mpg, mtcars$cyl)
43
44 x <- 1
45 ls() # print objects in your Global Environment
46 e <- new.env() # create new environment e
47 e$a <- FALSE
48 e$b <- "a"
49 e$c <- 2.3
50 e$d <- 1:3
51 rm(e) # remove environment e
52 rm(x) # remove object x from global environment
```

# Keeping others' files local (optional)

Download and install GitHub Desktop: <https://desktop.github.com/>

## Everything by default



luminwin/BST625R

github.com/luminwin/BST625R

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# Learn Git and GitHub without any code!

Using the Hello World guide, you'll start a branch, write comments, and open a pull request.

[Read the guide](#)

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Unwatch 1 Star 0 Fork 0

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master 1 branch 0 tags

luminwin Delete BST625R.Rproj

1-intro.R Topic 1: Introduction to R

Help people interested in this repository understand your project by adding a README

Go to file Add file Code

Clone

HTTPS SSH GitHub CLI

https://github.com/luminwin/BST625R.git

Use Git or checkout with SVN using the web URL.

Open with GitHub Desktop

Download ZIP

About

No description, website, or topics provided.

Releases

Packages

No packages published

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Languages

11638557.jpg

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