# GitHub and Initial Set Up

### Hamid Semiyari

## Create GitHub

- Git is a version control system (VSM), GitHub is a website that hosts git repositories. (so on your resume, say that you know git, not GitHub).
- How to open an account in github?
  - Step 1: Go to github.com, and then select Sign up.
  - Step 2: Enter your *email* address.
  - Step 3: Create a password for your new GitHub account and then click continue.
  - Step 5: Verify your account by solving a *puzzle*. Then select the *Create account* button.
  - Step 6: GitHub sends a launch code to your email address. Type that launch code in the Enter code dialog, and then press Enter.
  - Step 7: GitHub asks you some questions. Then choose the *Free account*, select the *Skip personalization button*.

#### **Initial Setup**

- Make sure you have
  - i. git installed and
  - ii. you can connect to GitHub.
- To verify that you have git installed, open up the terminal and type
- git --version

#### Question: How to open terminal?

1. You may directly open BASH or terminal from your laptop 2. On R-studio click "Tools", then select "Terminal" and "New Terminal" 3. Windows Alt + Shift + R

Type

```
git --version
```

If git is installed, you will see something like git version 2.43.0.windows.1

- To see if you can connect to GitHub:
  - 1. Enter the following in the terminal/ BASH:

```
ssh -T git@github.com
```

- Type "yes" if prompted to continue connecting.
- You are successful if you see something like

Hi Semiyari! You've successfully authenticated, but GitHub does not provide shell access.

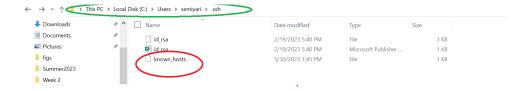
- If you have issues with either of these step, make sure you have completed Setting up Git and gitHub.
- You may get a warning such as

```
::\Users\semiyari>cd
::\Users\semiyari>cd
::\Users\semiyari>cd
::\Users\semiyari>touch .bash_profile
'touch' is not recognized as an internal or external command,
peprable program or batch file.
::\Users\semiyari>git --version
git version 2.39.0.windows.2
::\Users\semiyari>ssh -T git$github.com
ssh: Could not resolve hostname git$github.com: No such host is known.
::\Users\semiyari\ssh -T git@github.com

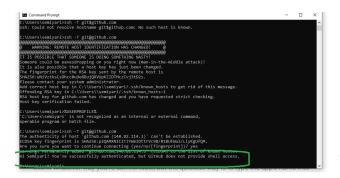
WARNING: REMOTE HOST IDENTIFICATION HAS CHANGED!

WARNING: REMOTE HOST IDENTIFICATION HA
```

- One possible solution is to go to your "user folder" in your local machine
- C:\Users\ OR
- C:\Users\[YOUR USERNAME]
- There will also be a .ssh folder.
- The file we want in this folder is known\_hosts. You can open this with Notepad (or your favorite text editor). Inside will be a list of keys. Here, you can delete the key that's causing the problem, then resave the file.



- 2. Type "yes" if prompted to continue connecting.
- 3. You are successful if you see something like



Hi Semiyari! You've successfully authenticated, but GitHub does not provide shell access.

• If you get error

```
git@github.com: Permission denied (publickey).
```

GitHub's Permission denied (publickey) error is usually caused by one of the following three issues:

- 1. You have used an incorrect email address in the GitHub SSH URL
- 2. You have not configured your public SSH key in your GitHub account
- 3. You must create GitHub SSH keys to be used by the secure shell. My email was okay. So to fix this I need to Generate SSH Key and add it to GitHub's SSH Keys.
- How to do it?

You need to create a public Key! See the lecture "6a\_authentication\_github\_ssh."