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# Get Your Tools Installed (Mac)

Now you'll install the required tools and software for the course. There's a lot to get through, so buckle in and get ready!

### **Create Accounts**

First, create accounts on the following websites, which you'll use throughout the course. Don't just create logins; recruiters often search these sites for job candidates, so be sure to provide at least a headshot and up-to-date contact information.

• LinkedIn

 $\label{thm:continuous} \textbf{Note:} \ \ \text{You should create a full profile that highlights your skills and work experience and includes a headshot.}$ 

- GitHub
- Stack Overflow

In addition, be sure to accept the invite for your section on Slack. You will receive the link to your class-specific channel during orientation.

# **Computer Specifications**

The computer you will use in this course needs to meet the following requirements.

· Laptop with at least 8 GB RAM and 64-bit dual processor

Note: Desktops, netbooks, thin clients, and tablets are not permitted.

- 100 GB free disk space (300 GB preferred)
- At least 2.0 GHz CPU
- · Virtualization capable (Check BIOS settings.)
- USB port
- Full administrator ("root") privileges to operating and all software

## **Additional Considerations**

- If you are using a work-issued computer, you may not have the permissions required to modify
  the system in order to complete class activities.
- Students with limited free disk space may elect to purchase a external hard drive to store software and courseware. Note that this is not a substitute for the required 100 GB of free disk space.

 $\textbf{Note:} \ \mathsf{If} \ \mathsf{you} \ \mathsf{need} \ \mathsf{assistance} \ \mathsf{determining} \ \mathsf{these} \ \mathsf{specifications}, \mathsf{see} \ \mathsf{the} \ \mathsf{images} \ \mathsf{below}.$ 

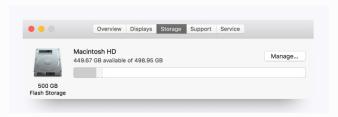
# Check CPU and RAM

Click the Apple icon in the top left of your desktop screen. Select **About This Mac** from the drop-down menu. A window like the one below will pop up. Your machine's CPU and RAM will be listed bere.



# Check Available Free Space

Click the **Storage** tab along the top of the window.



# **Check for Virtualization Capability**

Launch Terminal by pressing Command+spacebar on your keyboard. Then type terminal in the Spotlight Search bar.

Type the command sysct1 -a | grep machdep.cpu.features . The output is shown below. Look for an entry showing wex (highlighted below).

```
Douglass-MBP:~ doug --bash -- 80x24

Douglass-MBP:~ doug$ sysctl -a | grep machdep.cpu.features
machdep.cpu.features: FPU VME DE PSE TSC MSR PAE MCE CX8 APIC SEP MTRR PGE MCA C
MOV PAT PSE36 CLFSH DS ACPI MMX FXSR SSE SSE2 SS HTT TM PBE SSE3 PCLMULQDQ DTES6
4 MON DSCPL VMX EST TM2 SSSE3 FMA CX16 TPR PDCM SSE4.1 SSE4.2 x2APIC MOVBE POPCN
T AES PCID XSAVE OSXSAVE SEGLIM64 TSCTMR AVX1.0 RDRAND F16C
```

### **Tool and Software Installations**

Follow these instructions to complete the installation process for all required tools.

### **Google Chrome**

- 1. If you don't already have Chrome installed, visit the download page here.
- $2.\, {\sf Download}, open, and \, {\sf run} \, {\sf the} \, {\sf installation} \, {\sf file}.$

#### Slack

- 1. Search for Slack in the App Store. Click Get under the app name and icon, and then click Install.
- $2. \, When the installation is complete, add our channel to your application.$
- $3.\,Click\,the\,header\,of\,your\,current\,Slack\,channel.$
- 4. Select Sign in to another team.
- 5. Enter the Slack domain provided to you during orientation.

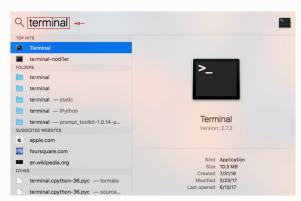


1. Enter your email (the one that the Slack invite was sent to) and password.

## **Terminal**

You'll be entering your command line code through this interface. Since you're on a Mac right now, you already have it! Just follow these steps.

- 1. Press Command+spacebar to open Spotlight Search.
- 2. Type terminal into the search and then press  ${\bf Enter.}$



1. Keep this window open; you'll need it for the next steps.



# Homebrew

- 1. Go to Homebrew
- 2. Copy the script listed under Install Homebrew.





1. Paste the script into your Terminal window. Press Enter.

```
CARYNS-IMac:~ caryngraboski yusr/bin/ruby -e "$(curl -fsSL https://raw.githubus)
ercontent.com/Homebrew/install/master/install)"
=> This script will install:
/usr/local/bin/brew
/usr/local/bin/brew
/usr/local/share/doc/homebrew
/usr/local/share/man/manl/brew.1
/usr/local/share/man/manl/brew.1
/usr/local/share/man/manl/brew
| wsr/local/share/man/manl/brew
| wsr/local/share/man/mellorew
| wsr/local/share/mellorew
Press RETURN to continue or any other key to abort
```

### SSH Keys

It's recommended that you use the following walkthrough video alongside the steps outlined below to add GitHub SSH keys:

#### SSH Keys Video Walkthrough

To complete these steps, you will need to sign up for a GitHub account if you haven't already.

Step 1. Open Terminal.

Step 2. To make sure you don't already have a set of keys on your computer, type the following in your Terminal window. Note: Copying and pasting will not work!

- . If no keys pop up, move on to Step 3.
- If keys do pop up, check that none of them are listed under id\_rsa , like in this image:

```
drwxr-xr-x 5 caryngraboski staff 170 Jun 23 12:14 .
drwxr-xr-xx 34 caryngraboski staff 1156 Aug 12 19:48 .

-rw----- 1 caryngraboski staff 1766 Jun 23 12:13 id_rsa ←
-rw-r-r-- 1 caryngraboski staff 400 Jun 23 12:13 id_rsa.pub
```

• If you find a key with a matching name, you can either overwrite it by following the next steps, or you can use the same key referenced in Step 8. If you decide not to overwrite it, you will need to remember the password tied to your key.

Step 3. Enter the following command along with your email to generate your keys.

```
ssh-keygen -t rsa -b 4096 -C "YOURGITHUBEMAIL@PLACEHOLDER.NET"
```

 $\textbf{Step 4.} \ \textbf{When prompted to enter a file to save the key, press \textbf{Enter}, and then enter a passphrase for the prompted to enter a file to save the key, press \textbf{Enter}, and then enter a passphrase for the prompted to enter a file to save the key, press \textbf{Enter}, and then enter a passphrase for the prompted to enter a file to save the key, press \textbf{Enter}, and then enter a passphrase for the prompted to enter a file to save the key, press \textbf{Enter}, and then enter a passphrase for the prompted to enter a file to save the key, press \textbf{Enter}, and then enter a passphrase for the prompted to enter a file to save the key, press \textbf{Enter}, and then enter a passphrase for the prompted to enter a file to save the key, press \textbf{Enter}, and then enter a passphrase for the prompted to enter a file to save the key, press \textbf{Enter}, and then enter a passphrase for the prompted to enter a file to save the key, press \textbf{Enter}, and the prompted to enter a file to save the key, press \textbf{Enter}, and the prompted to enter a file to save the key, press \textbf{Enter}, and the prompted to enter a file to save the key, press \textbf{Enter}, and \textbf{Enter}$ your key. Note: You shouldn't see any characters appear in the window while typing the password. When you're finished, your window should look like this:

```
.*B=
+oBX..
 -[SHA256]-
CARYNs-iMac:~ caryngraboski$ ■
```

Step 5. Link your key to your machine using a tool called the ssh-agent. Run the following command to test whether the ssh-agent is running on your machine: eval "\$(ssh-agent -s)" . Your Terminal



 $\textbf{Step 6.} \ \textbf{Run the following command:} \ \ \textbf{ssh-add ~/.ssh/id\_rsa} \ .$ 

Step 7. When prompted, enter the passphrase associated with the key. Note: If you've forgotten this key, go back to Step 3.

Step 8. To add the key to GitHub, copy the key to your clipboard by entering the following command:

pbcopy < ~/.ssh/id\_rsa.pub

- You shouldn't see any kind of message when you run this command. If you do, make sure you
  entered it correctly.
- Note: Do not copy anything else to your clipboard until all steps are completed. Otherwise, you'll
  need to enter the copy command again.

Step 9. Go to GitHub's SSH key settings. Click New SSH key.

Step 10. When the form pops up, enter a name for your computer in the Title input. In the Key input, paste the SSH key you copied in Step 8.

Step 11. To add GitHub to your computer's list of acceptable SSH hosts, type the following command in your Terminal window: | ssh - T git@github.com |.

```
* You should see an RSA fingerprint in your window. Enter **yes** only if it matches the one highlighted
![SSHKey6](assets/Install-SSHKey6.png)

| | |
```

### VS Code

- 1. Go to the setup page on the VS Code website and select Mac as your platform.
- 2. Open your Downloads folder and click on the file to unzip.
- 3. Drag the file to your Applications folder.

# You're Done!

That's all for the installations, so give yourself a pat on the back! Installations are never fun, but just like taxes, you gotta do them.

Be sure to take a break before continuing with the rest of the prework.

# **Prework Support**

 $Looking for pre-work \, support? \, Our \, team \, of \, tutors \, are \, eager \, to \, help! \, Request \, a \, tutor \, session \, with \, the following \, steps:$ 

- 1. If not already logged in to BCS, login using your credentials (supplied 24 hours after enrollment).
- $2.\,\mathsf{Click}\,\textbf{Support}\,\mathsf{in}\,\mathsf{the}\,\mathsf{top}\,\mathsf{right}.$
- 3. Complete the form fields to submit your request:
- ${\it 4.\,Under\,Question\,Category}, {\it select\,"Tutor\,Request"}$
- 5. Under Question Category, select "Request a Tutor"
- $6.\,Under\,\textbf{Currently}, \textbf{Which Sessions Would You Like to Discuss?}, select\, ``Prework assignment".$
- $7.\,Complete \,the \,additional \,fields \,and \,submit \,your \,request.$

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