

xv6 setup from scratch

I see this is a problem with some of you. Others have work through it smoothly.

Now, for those who have issues I want you to go through a full installation and setup process. Those with Mac can use the books installation process found here: <https://github.com/remzi-arpacidusseau/ostep-projects/blob/master/INSTALL-xv6.md>

Everyone else you'll download Ubuntu Desktop: <https://ubuntu.com/#download>
Installation directions (Install Guest Additions and also create a shared folder with your local): <https://brb.nci.nih.gov/seqtools/installUbuntu.html>

Then install Homebrew from the terminal by running the following commands: (these commands are case sensitive)

```
1. sudo install curl
2. /bin/bash -c "$(curl -fsSL
  https://raw.githubusercontent.com/Homebrew/install/HEAD/install.sh)"
```

After this is done, at the end of the installation there is a section call "Next steps:" run the two command there:

```
1. echo 'eval $(/home/linuxbrew/.linuxbrew/bin/brew shellenv)' >>
  /home/<username>/.profile
2. eval $(/home/linuxbrew/.linuxbrew/bin/brew shellenv)
```

Then we'll start setting your environment for xv6. Run the following commands:

```
1. brew install qemu
2. sudo apt install qemu-system-x86_64
3. sudo apt install gcc
4. sudo apt install make
5. qemu-system-x86_64 -nographic (after this runs it should indicate "No bootable device". This is to
  make sure qemu is working correctly. Press Ctrl-a, x to terminate qemu)
6. brew tap nativeos/i386-elf-toolchain
7. brew install i386-elf-binutils i386-elf-gcc
```

Create a directory in your home directory where your xv6 will be copied to.

```
8. cd <directory>
9. sudo apt install git
10. git clone git://github.com/mit-pdos/xv6-public.git
11. cd xv6-public
```

To run xv6 in qemu run:

```
12. make qemu
```

Press Ctrl-a, x to terminate.