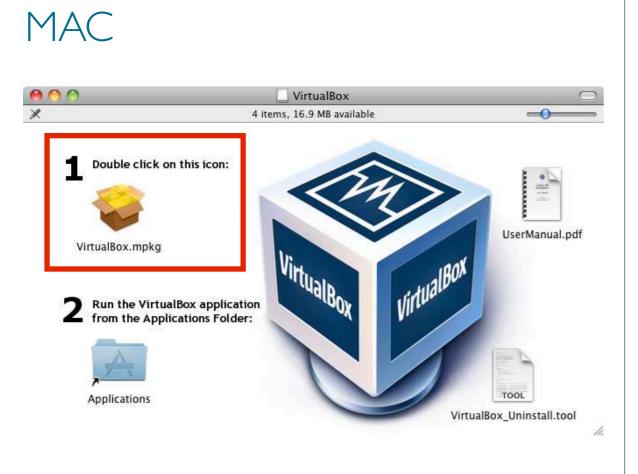
Notes

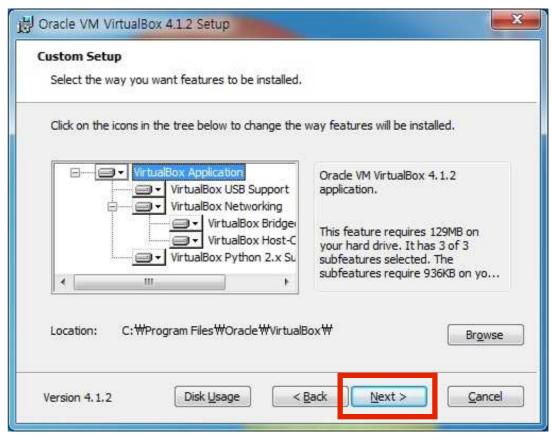
- 1. The following slides on "Setting up C Programming Environment" is not created by me. The authors reserve the copyright of the slides.
- 2. The Ubuntu I installed is version 14.04, which is not the latest version. If you want to install this one, you can find it here https://www.ubuntu.com/download/alternative-downloads
- 3. The link to download VirtualBox in the slides (Page 2) is not correct. Please visit https://www.virtualbox.org/wiki/Downloads to download VirtualBox.

Setting up C Programming Environment

Install VirtualBox

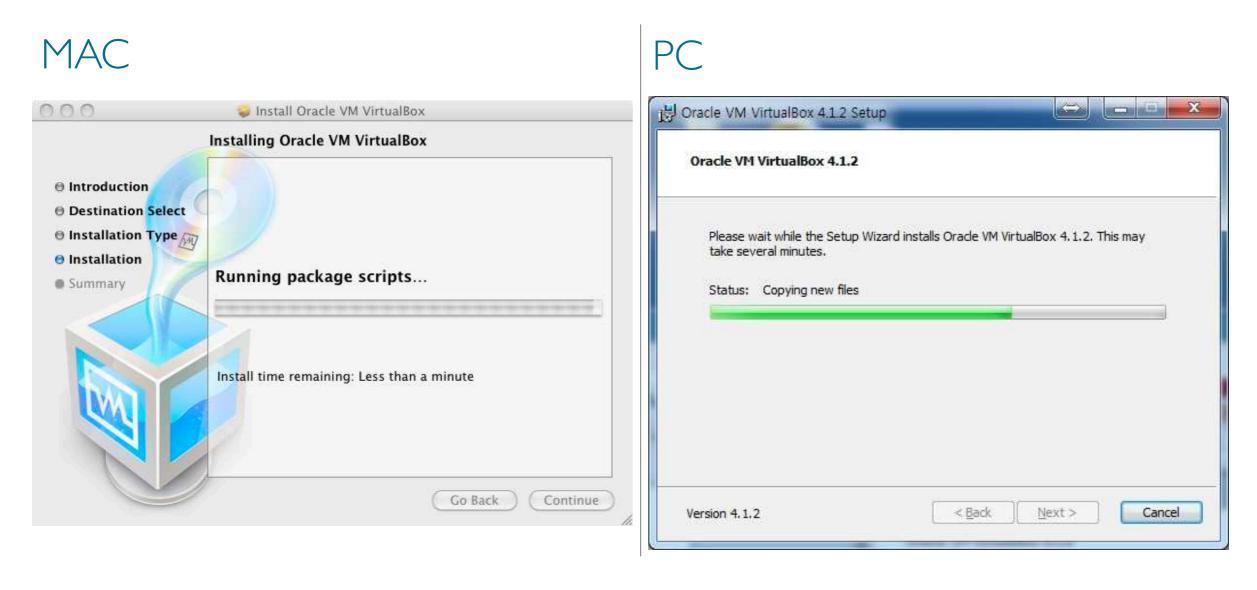
- I. Visit http://www.virtualbox.org/wiki/downloads
- 2. Download VirtualBox platform packages for your OS
- 3. Open the Installation Package by double clicking





Install VirtualBox

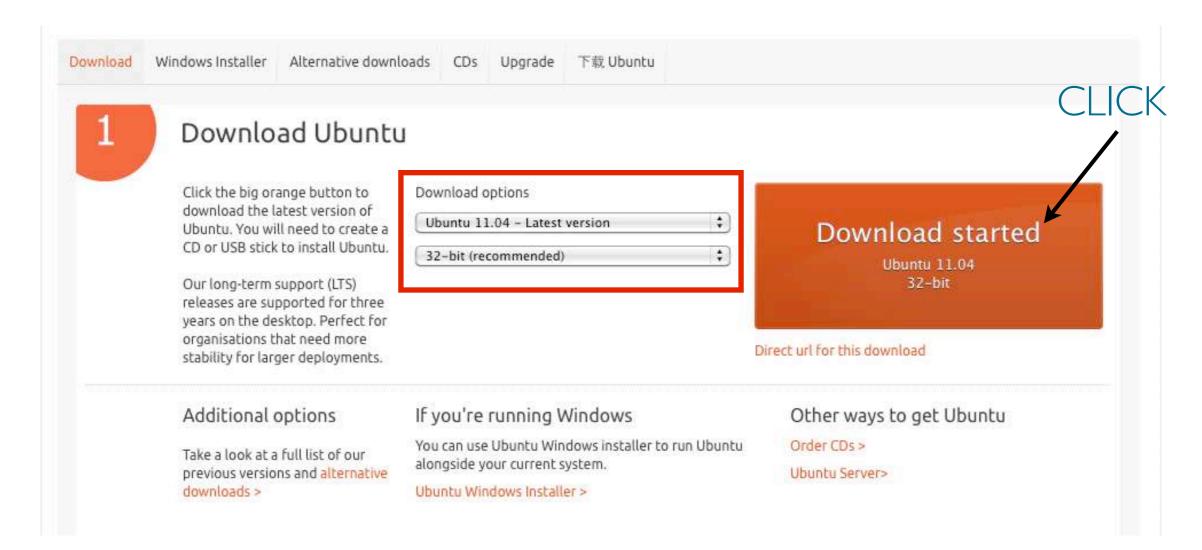
4. Click continue and finish installing VirtualBox



5. When finished installation, close the window.

Download Linux

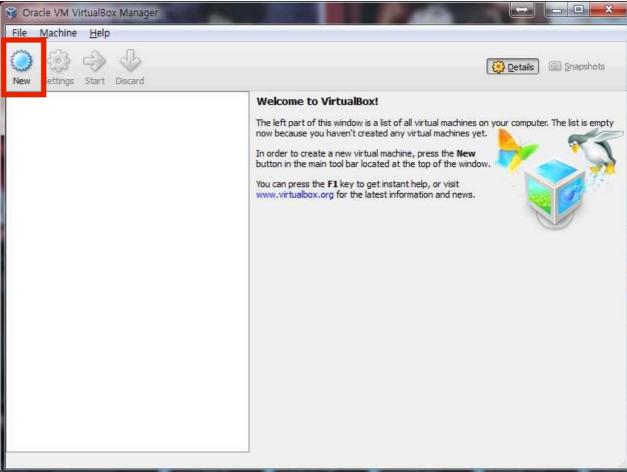
- I. Visit the page http://www.ubuntu.com/download/ubuntu/download/
- 2. Choose the Latest version of Ubuntu and 32-bit and click "Start Download"



- I. Run VirtualBox by double-clicking the icon
- 2. Click "New" button on the top left corner

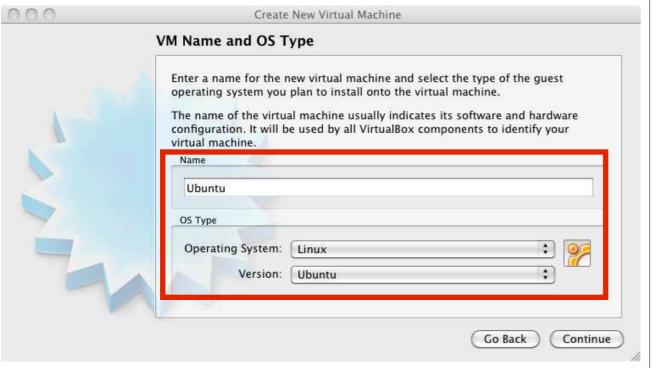
MAC

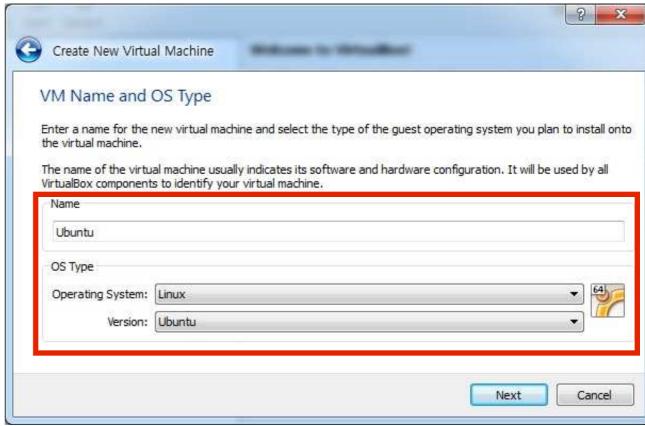




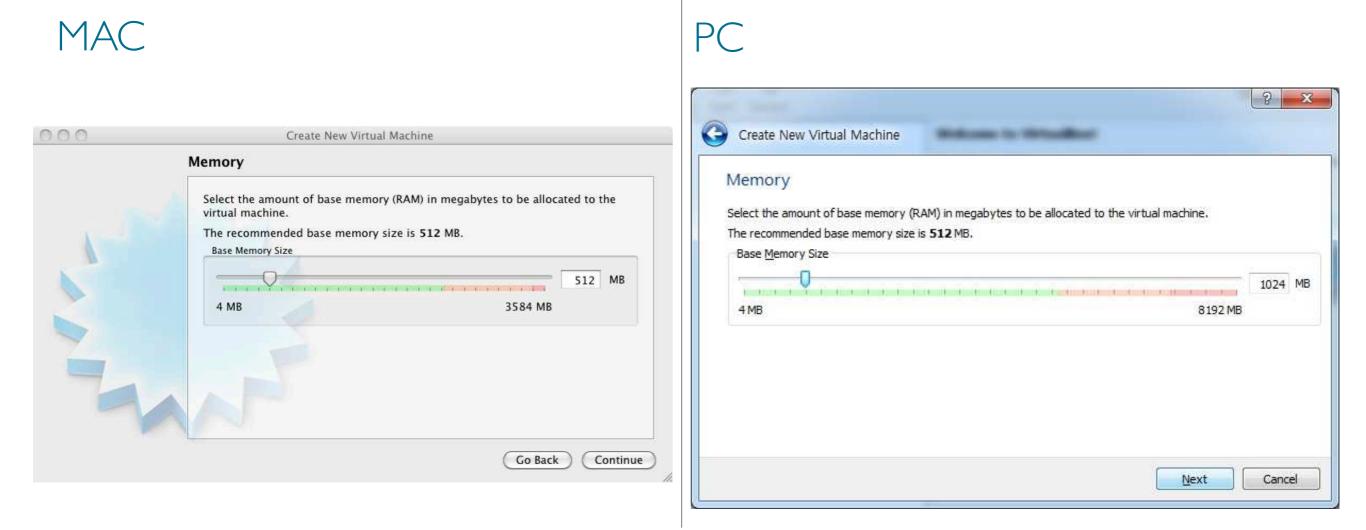
- 3. Click "Continue" on the pop-up window
- 4. Type VM name, select "Linux" for the OS and choose "Ubuntu" for the version.

MAC





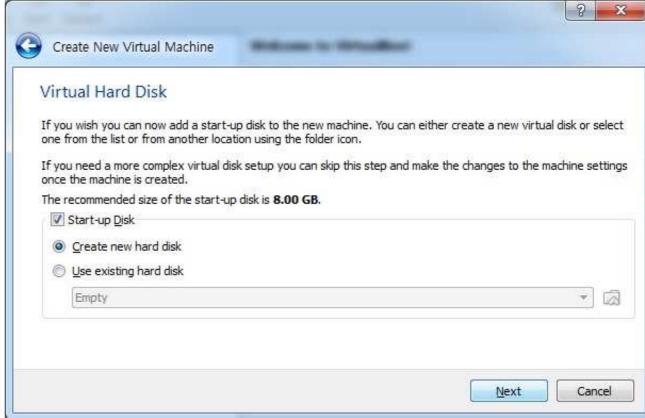
- 5. Choose the amount of memory to allocate (I suggest choosing between 512 MB to 1024 MB)
- 6. Click Continue or Next



- 7. Choose create a new virtual hard disk
- 8. Click Continue or Next

MAC





- 9. Choose VDI (VirtualBox Disk Image)
- 10. Click Continue or Next

MAC





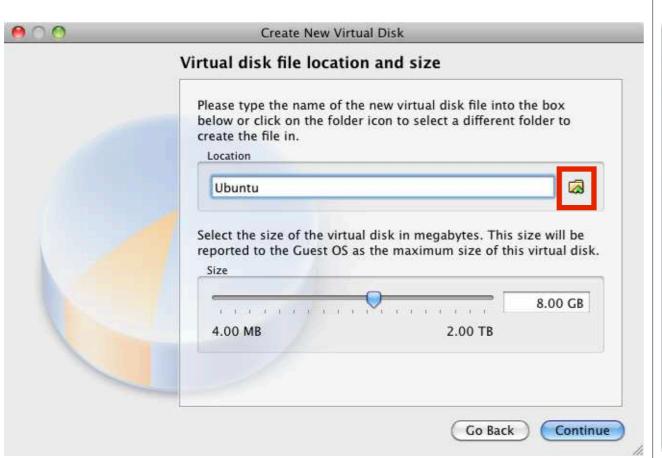
II. Choose "Dynamically Allocated" click continue.
This way, the size of your Virtual Hard Disk will grow as you use.

MAC





- 12. Click the folder icon and choose the ubuntu iso file you downloaded.
- I 3. Select the size of the Virtual Disk (I recommend choosing 8 GB) and click continue



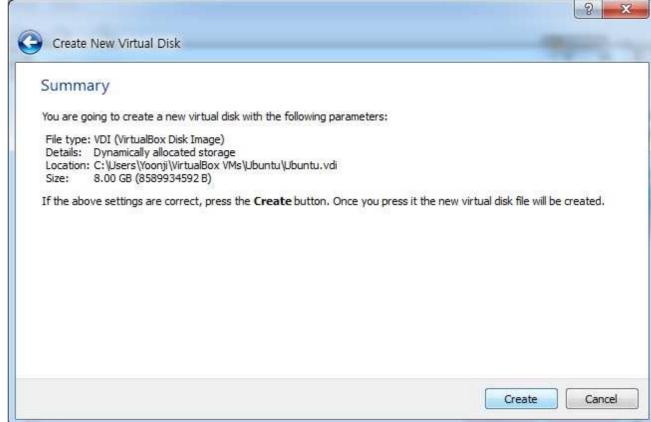
MAC

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	the fi	le in.																		
7000	untu																			
[00	arrear		900		1 115001				car sa								GI III	215	25	
									200		121		4.4		200			10.5		Section 1997
	the si	ze of	the v	rirtual	disk i	n me	gabyt	tes. I	his siz	ze will	be re	porte	d to	the G	uest	OS as	the m	aximu	m size	of this virt
disk.		ze of	the v	irtual	disk i	n me	gabyt	tes. T	his siz	ze will	be re	porte	d to	the G	uest	OS as	the m	aximu	m size	of this virt
							2 80				0		d to	the G	uest	OS as	the m	aximu	m size	
disk.							2 80				be re			the G				aximu	m size	of this virt

14. Click Create

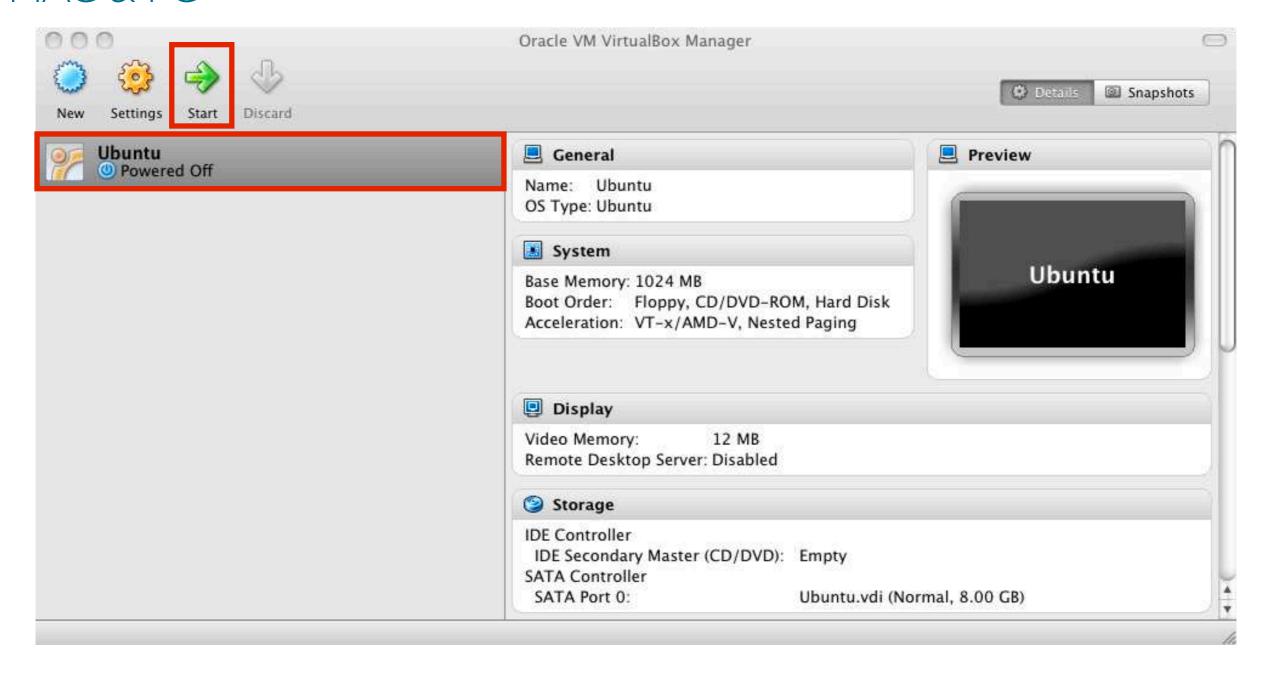
MAC





I. Choose Ubuntu from left column and click Start

MAC & PC



2. Click continue on pop-up window

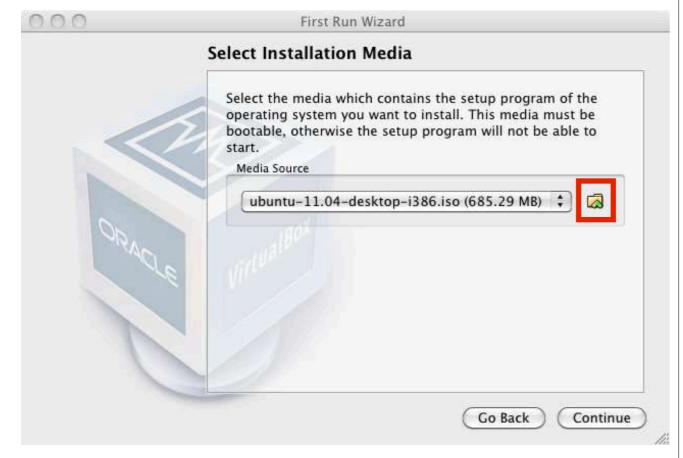
MAC

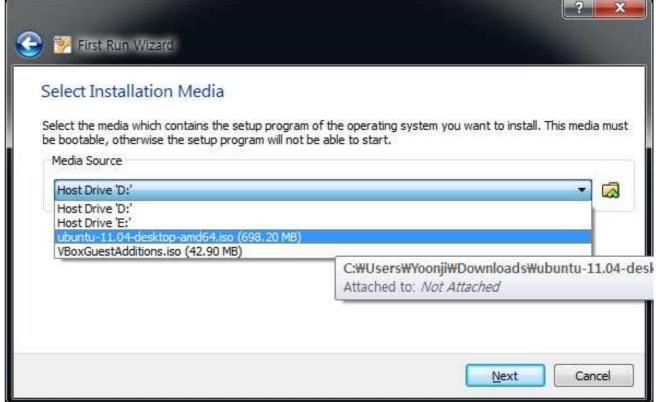




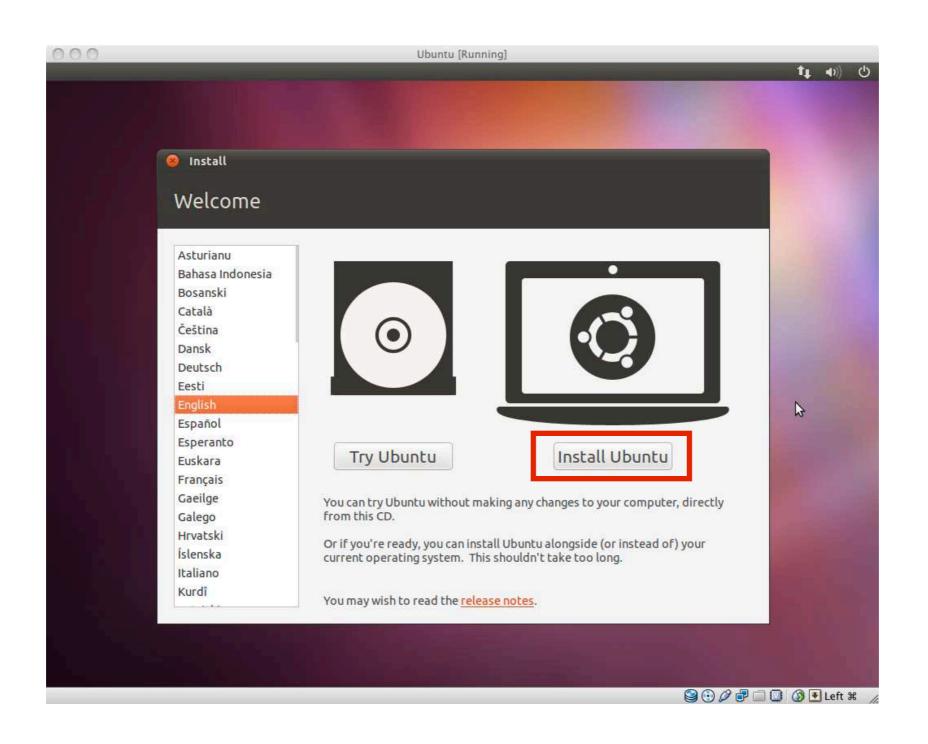
3. Click the folder icon and choose the ubuntu iso file you downloaded and click continue and start

MAC

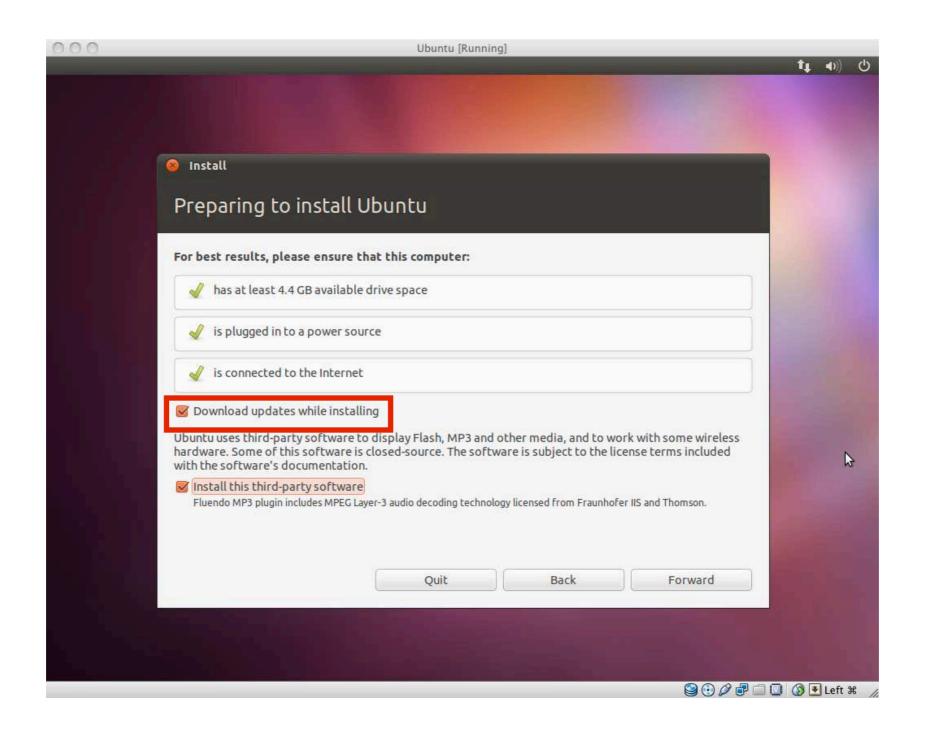




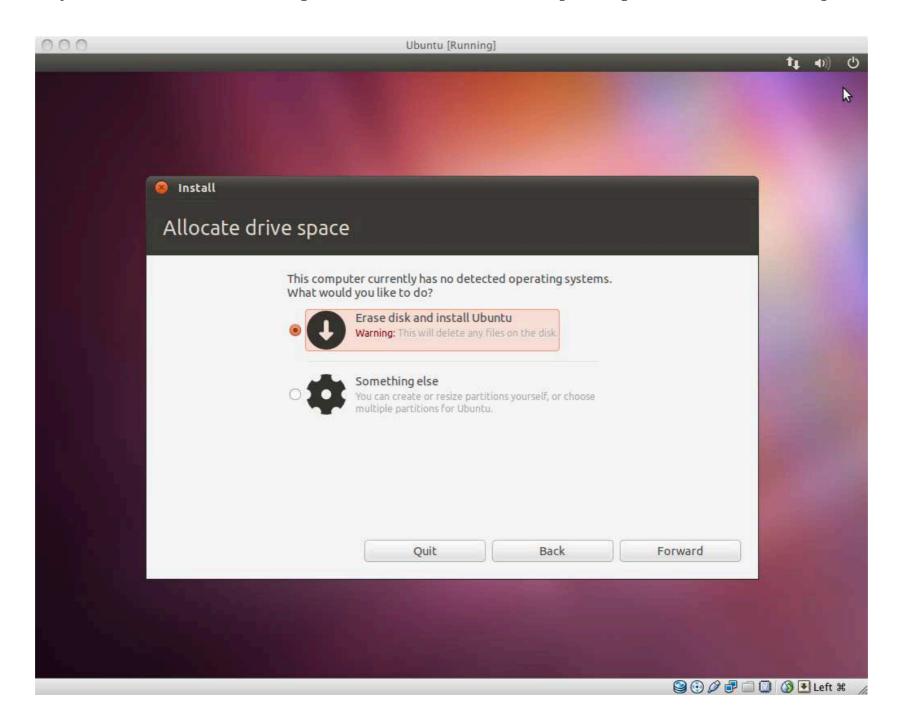
4. Click Install Ubuntu



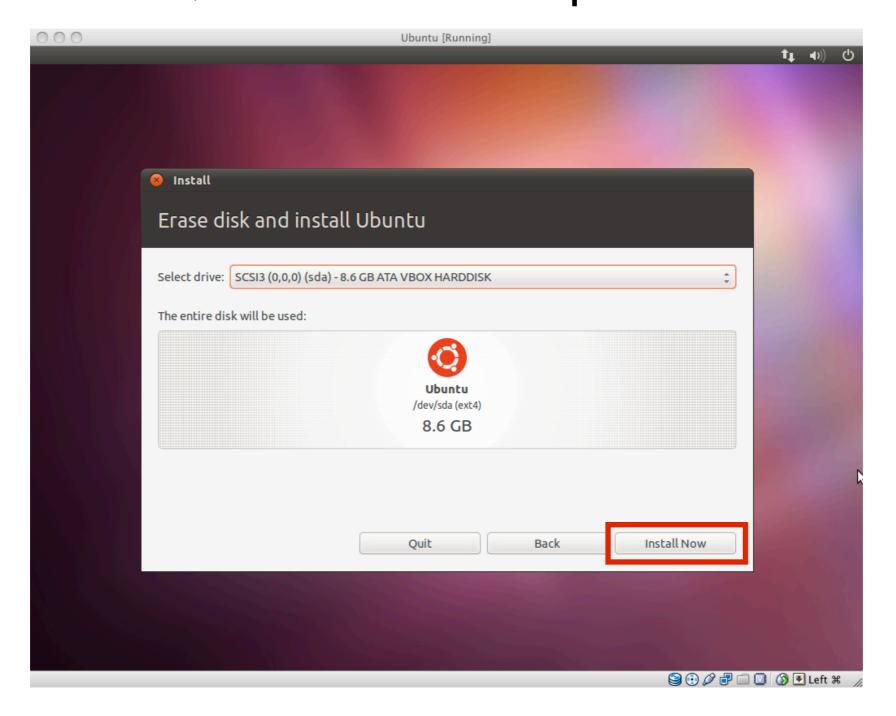
4. Check "Download updates" and click Forward



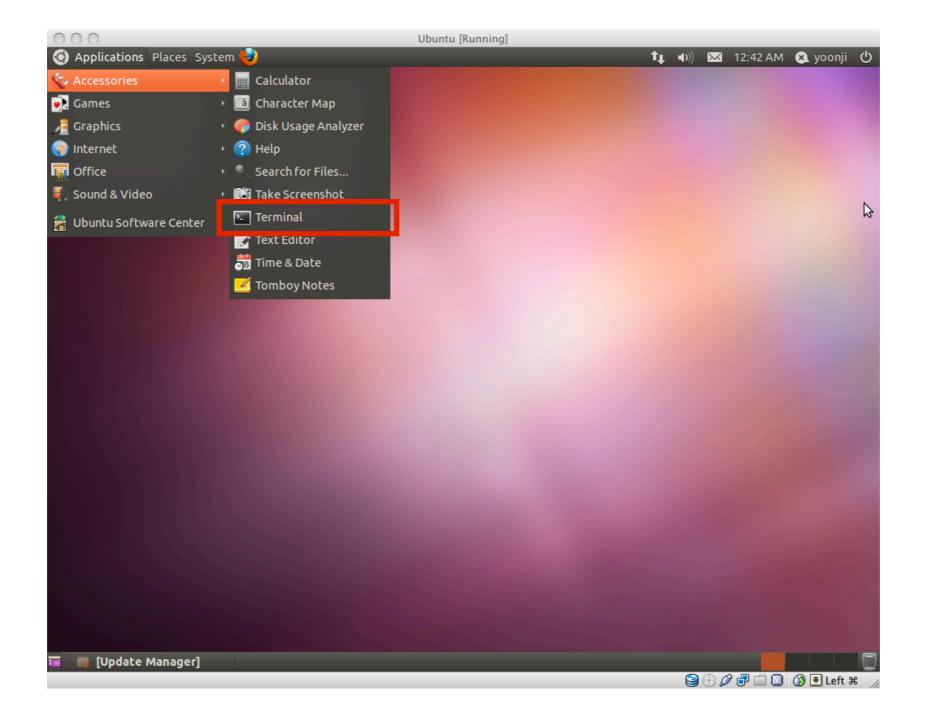
5. Choose "Erase disk and install Ubuntu" and click Forward (Don't worry, it won't wipe your computer)



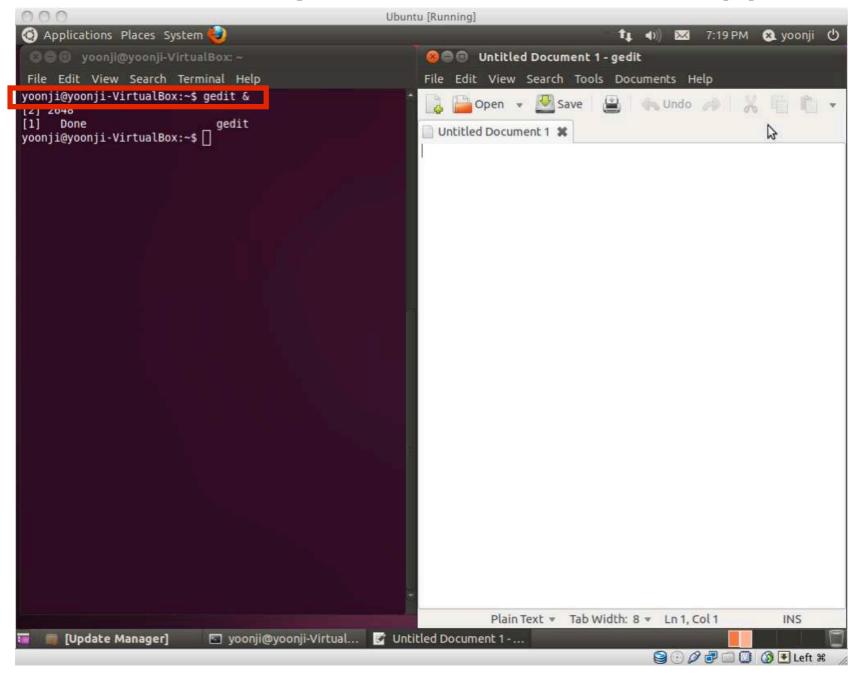
- 6. Click "Install Now" and wait. Maybe grab a snack.
- 7. When finished, click Restart and press Enter.



I. Open Terminal (Applications-Accessories-Terminal)



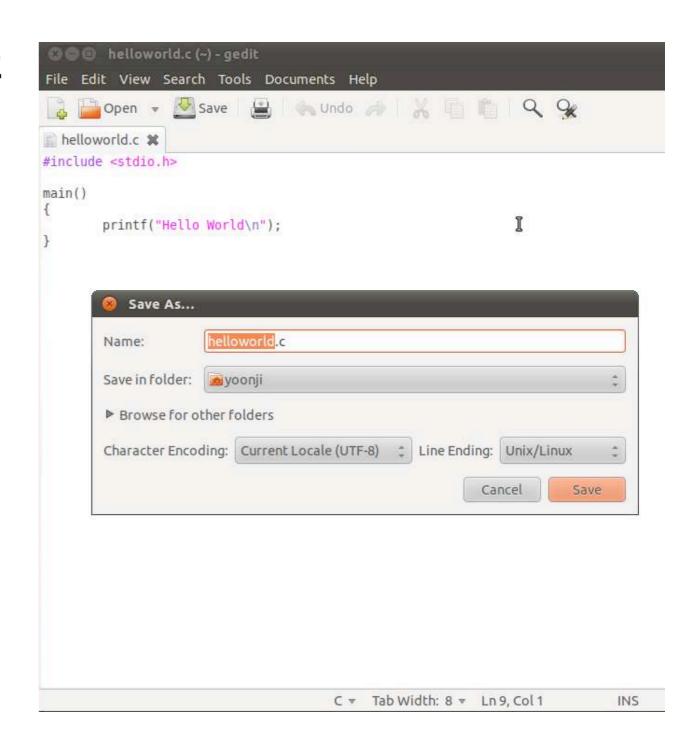
2. Open gedit by typing "gedit &" on terminal (You can also use any other Text Editor application)



3. Type the following on gedit (or any other text editor)

```
#include<stdio.h>
main()
{
    printf("Hello World\n");
}
```

4. Save this file as "helloworld.c"



- 5. Type "Is" on Terminal to see all files under current folder
- 6. Confirm that "helloworld.c" is in the current directory. If not, type cd DIRECTORY_PATH to go to the directory that has "helloworld.c"
- 7. Type "gcc helloworld.c" to compile, and type "ls" to confirm that a new executable file "a.out" is created

```
File Edit View Search Terminal Help
yoonji@yoonji-VirtualBox:~$ ls

Desktop Downloads helloworld.c Pictures Templates
Documents examples.desktop Music Public Videos
yoonji@yoonji-VirtualBox:~$ gcc helloworld.c
yoonji@yoonji-VirtualBox:~$ ls
a.out Documents examples.desktop Music Public Videos
Desktop Downloads helloworld.c Pictures Templates
yoonji@yoonji-VirtualBox:~$
```

- 8. Type "./a.out" on Terminal to run the program
- 9. If you see "Hello World" on the next line, you just successfully ran your first C program!
- 10. Try other codes from "A Shotgun Introduction to C" on professor Edwards's webpage. You can also find many C programing guides online. (just google it!) Enjoy:)

```
🥦 🗐 📵 yoonji@yoonji-VirtualBox: ~
 File Edit View Search Terminal Help
yoonji@yoonji-VirtualBox:~$ ls
Desktop
          Downloads
                           helloworld.c Pictures Templates
Documents examples.desktop Music
                                         Public
                                                   Videos
yoonji@yoonji-VirtualBox:~$ gcc helloworld.c
yoonji@yoonji-VirtualBox:~$ ls
        Documents examples.desktop Music
                                              Public
                                                        Videos
Desktop Downloads helloworld.c
                                Pictures Templates
yoonji@yoonji-VirtualBox:~$ ./a.out
yoonji@yoonji-VirtualBox:~$
```