Install Linux and Intro to Project 1

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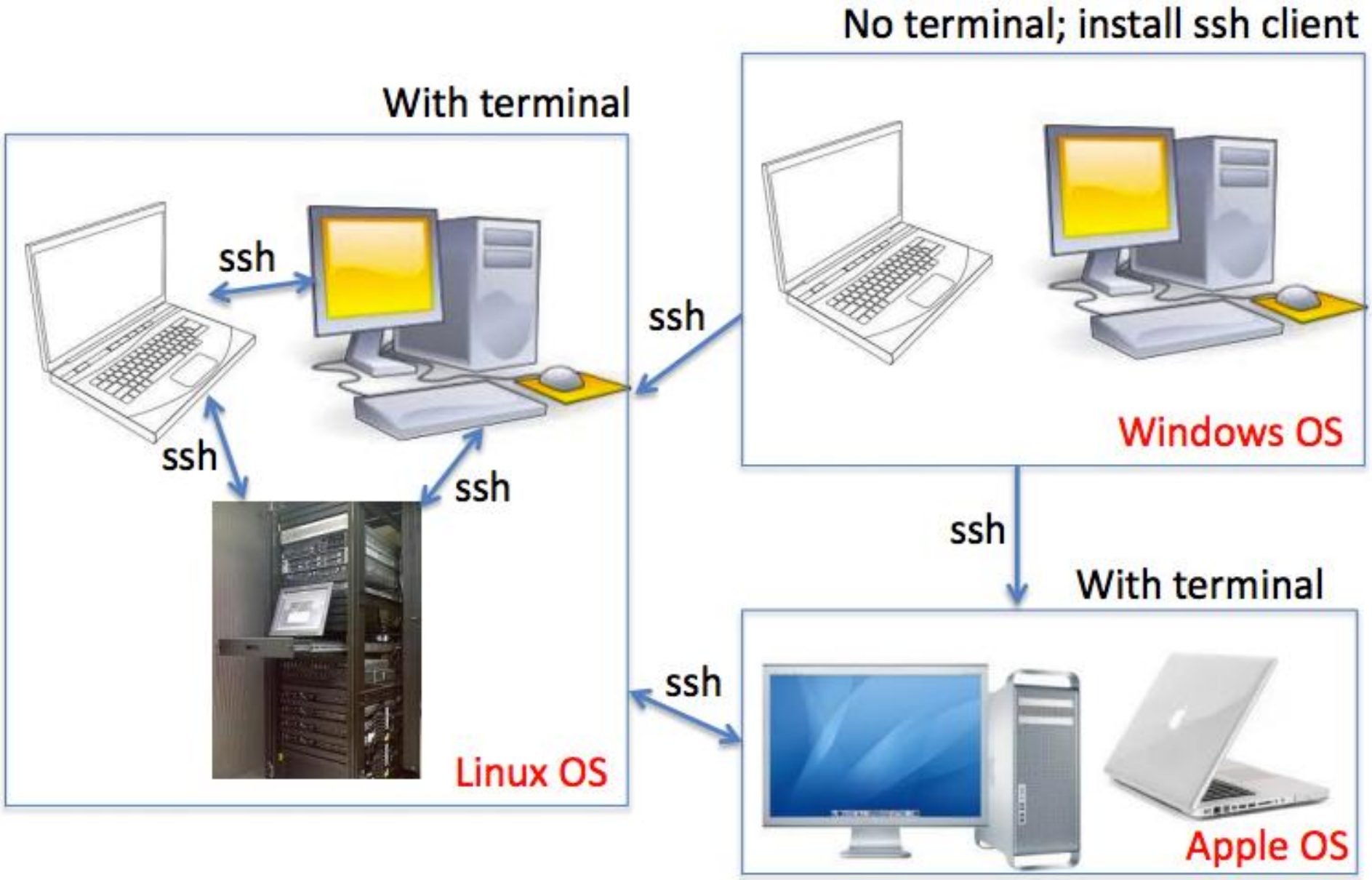
Spring 2013

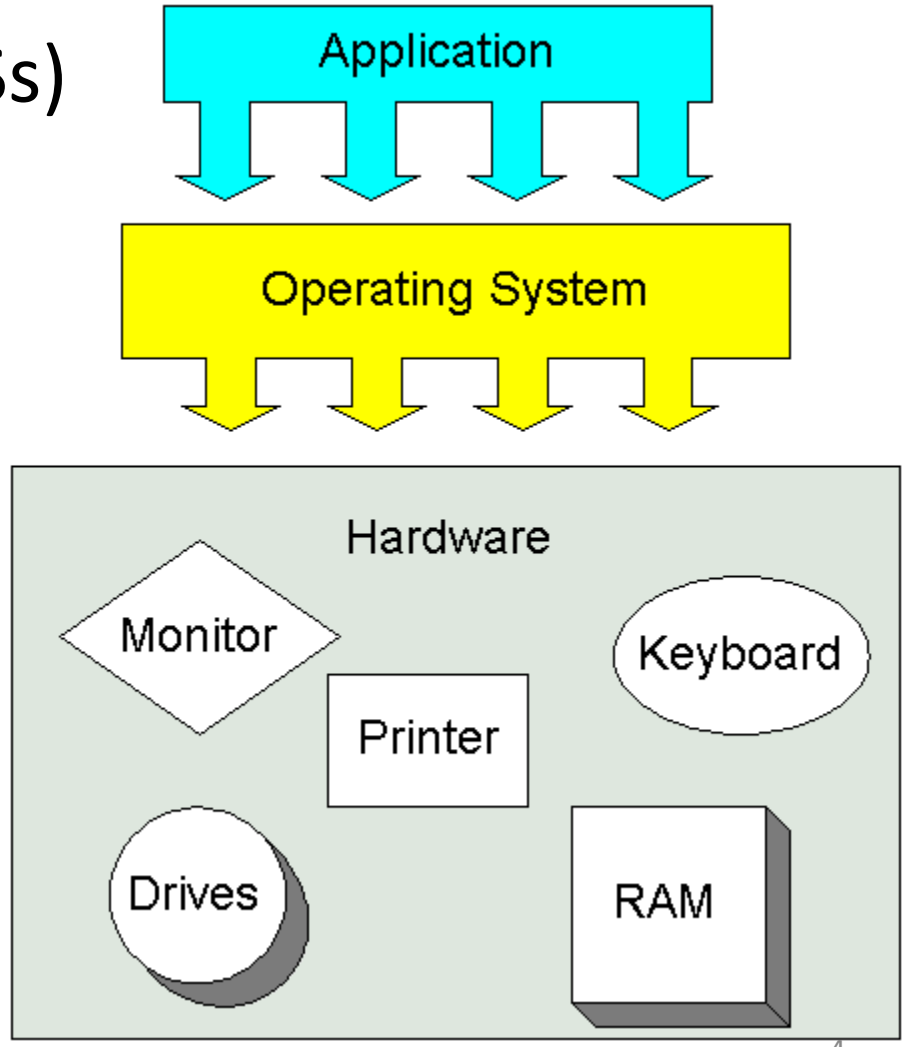
Homework #4

- Create a folder in the remote server
  - In file transfer client
  - In putty terminal


No terminal; install ssh client
With terminal
ssh
ssh
ssh
ssh
ssh
ssh
Windows OS
With terminal
Linux OS
Apple OS

Operating Systems

- Operating systems (OSs)
  - Windows
  - MAC OS
  - UNIX



http://www.karbosguide.com/hardware/module6c1.htm

Why do bioinformaticians NOT like Windows?

- OS is NOT free
- Applications are NOT free
- The OS uses too much CPU and RAM resource
- Command-line is too simple to support automated data processing

Why do Bioinformaticians prefer Mac or UNIX over Windows?

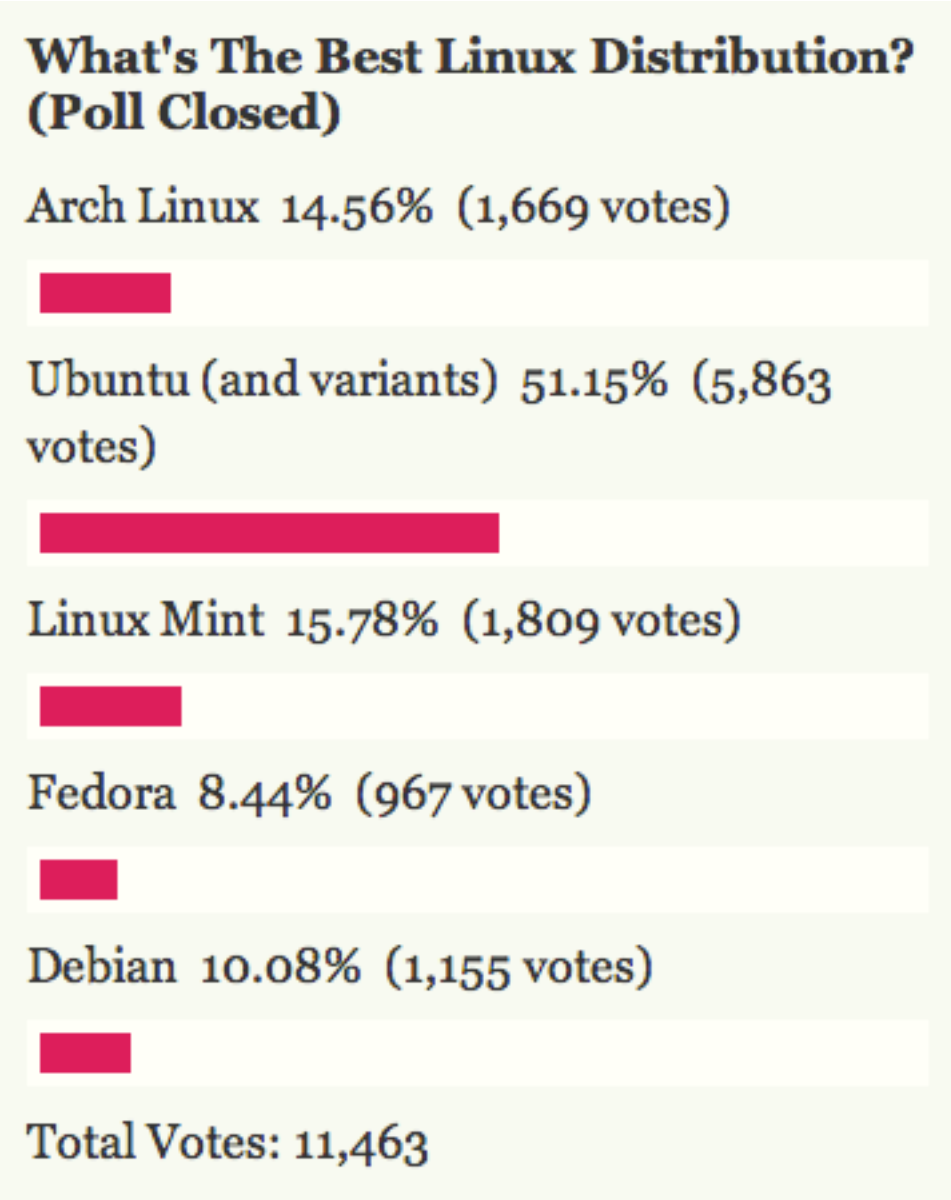
- Better development environment
- Software availability
- Powerful command-line interface (terminal)

To really learn bioinformatics (regardless of whether you're a "biology student"), you need to become familiar with a "*nix" environment and the tools that it provides

http://network.nature.com/groups/bioinformatics/forum/topics/8100

UNIX & Linux

- There are many different versions of UNIX, although they share common similarities. The most popular varieties of UNIX are Sun Solaris, GNU/Linux, and MacOS X
- Linux is a Unix-like computer operating system assembled under the model of free and open source software development and distribution. The Linux kernel was written in 1991 by Linus Torvalds



Ubuntu: one of the most popular desktop Linux Distro

http://lifehacker.com/5904069/five-best-linux-distributions

Two distinct UNIX environments

- Large/super computer cluster
- Individual Linux desktop/workstation

MAC users

- MAC OS is essentially Unix based and has built-in terminal.

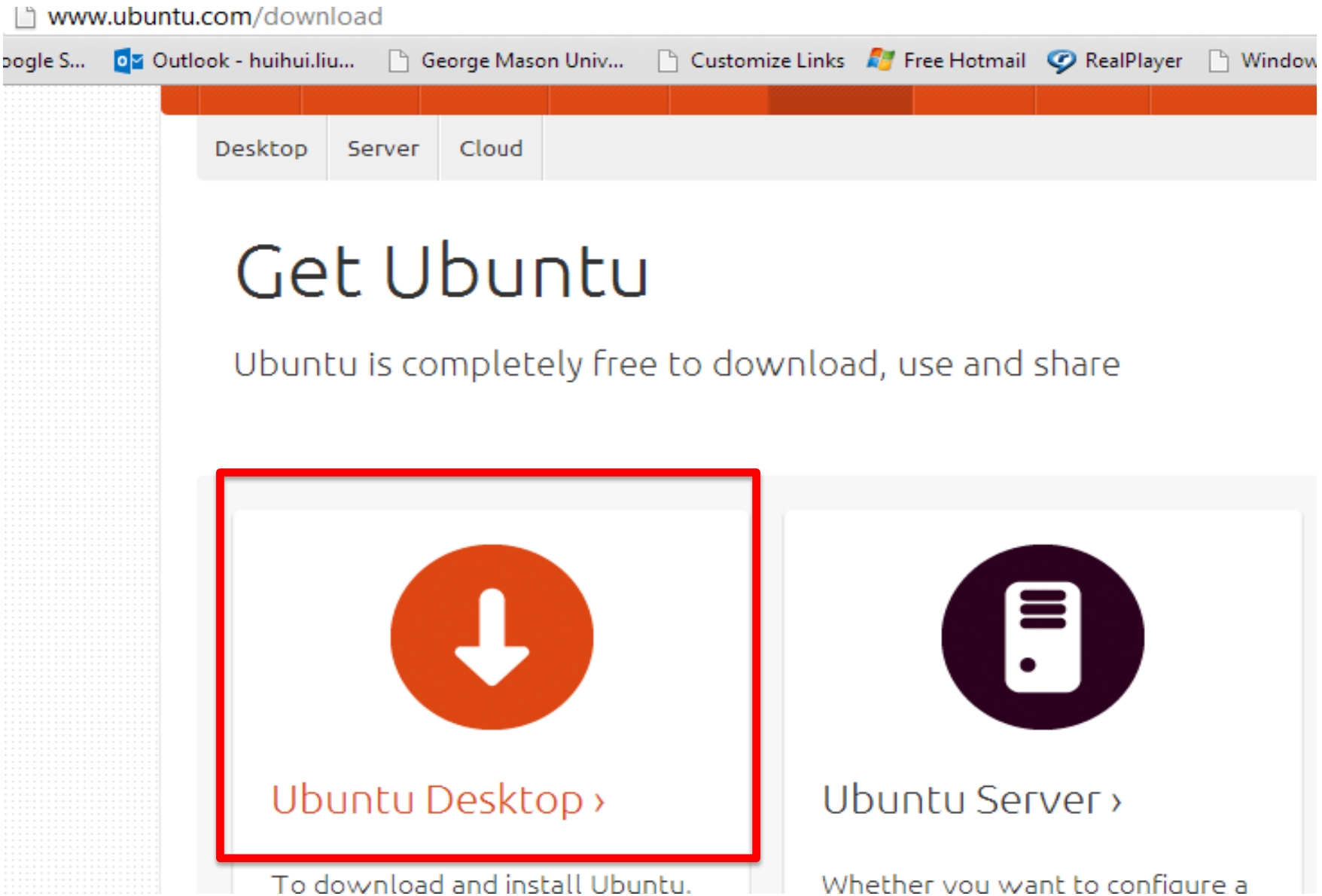
http://tech-devnet.blogspot.de/2012/05/running-ubuntu-1204-on-mac.html

Multiple ways to install ubuntu

- http://www.youtube.com/watch?v=ba9Wv-XU_4M

- Make sure you are connected to the internet!

www.ubuntu.com/download



www.ubuntu.com/download/desktop

ogle S... Outlook - huihui.liu... George Mason Univ... Customize Links Free Hotmail RealPlayer

Other ways to get Ubuntu

Windows installer

With Wubi, our officially supported Windows installer for Ubuntu Desktop, you can install and uninstall Ubuntu easily and safely.

Get the Windows installer

Buy DVDs

If you'd rather order an official Ubuntu DVD and install Ubuntu that way, they are available from the Ubuntu shop, at just £4.71 each, plus postage and packing.

Buy Ubuntu DVDs from the

Download the Windows installer for Ubuntu Desktop

Windows 8

Have a new PC with the Windows 8 logo or using UEFI firmware?

Please use a 64-bit flavour of Ubuntu, installed directly to its own partition rather than using the Windows installer.

Learn more ›

Windows installer for Ubuntu Desktop

With our officially supported Windows installer, you can install and uninstall Ubuntu easily and safely. Choose either the 12.10 release for all the latest software or 12.04.2 LTS for long-term support.

Read the installation instructions ›

Choose your release

12.04.2 LTS

Get the installer

$ 2

$ 2

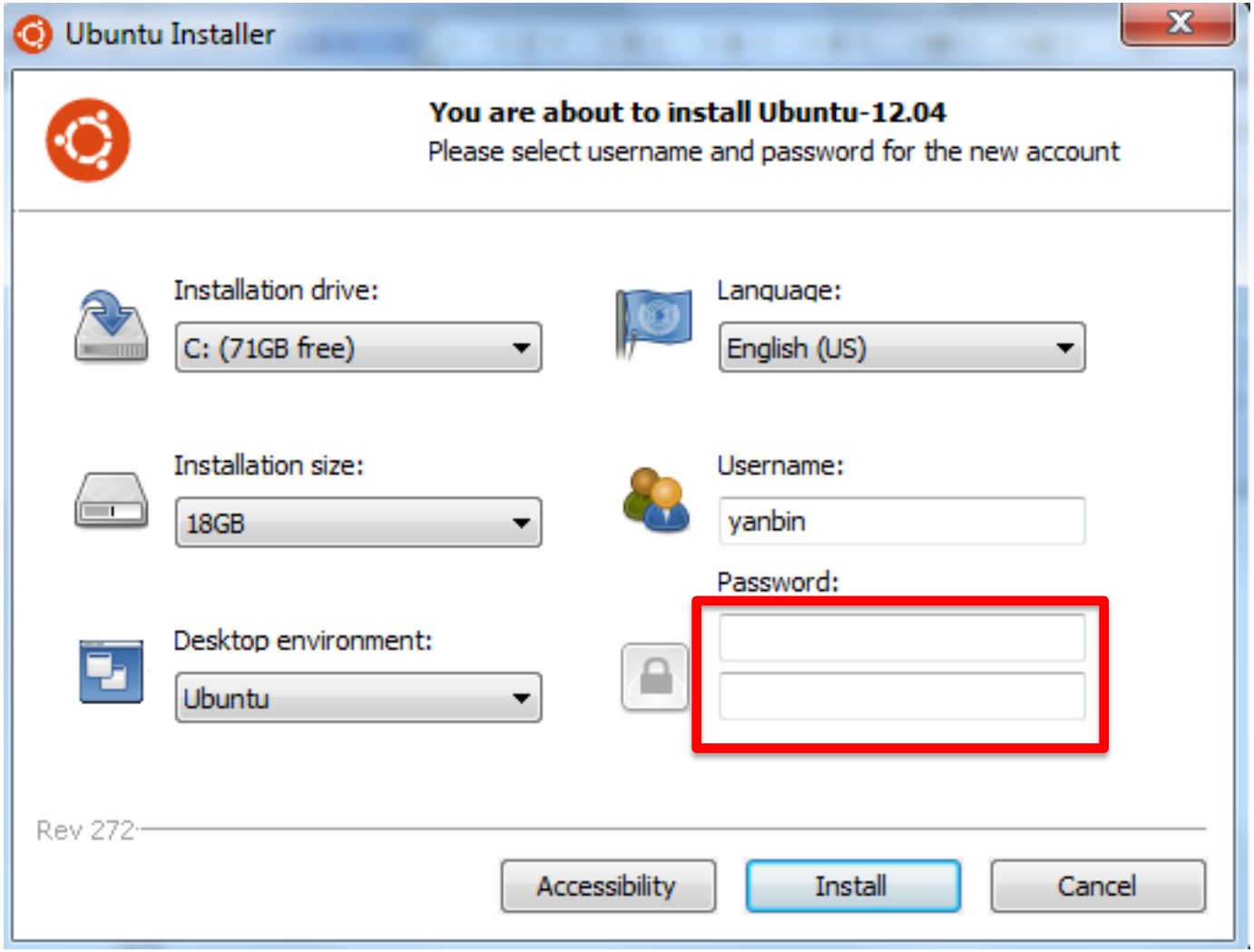
The same price as
Peace, Love and Linux t-shirt
$20

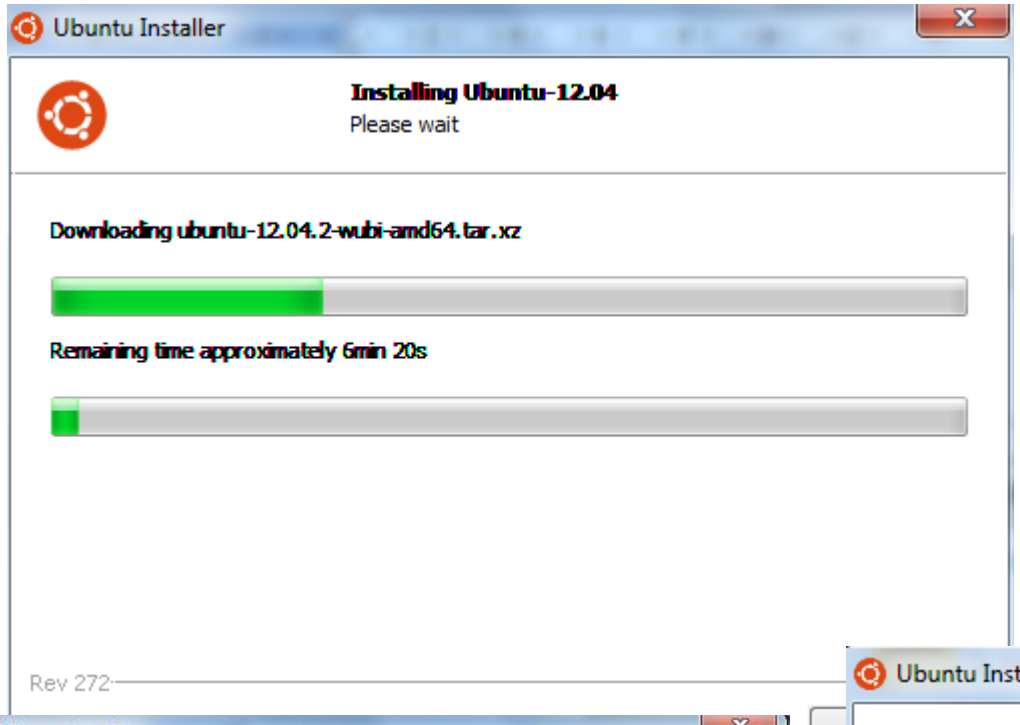
Contribution

$ 16

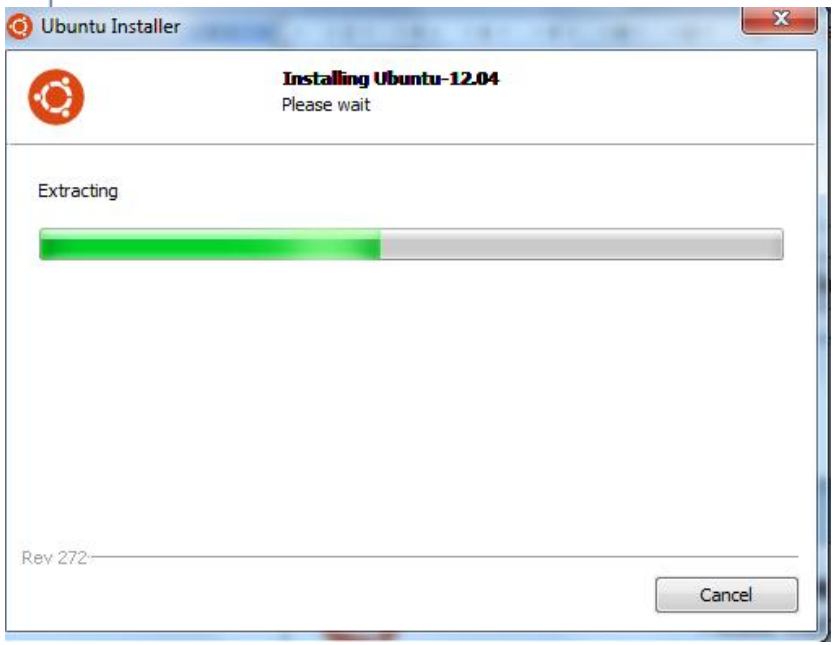
Not now, take me to the download ›

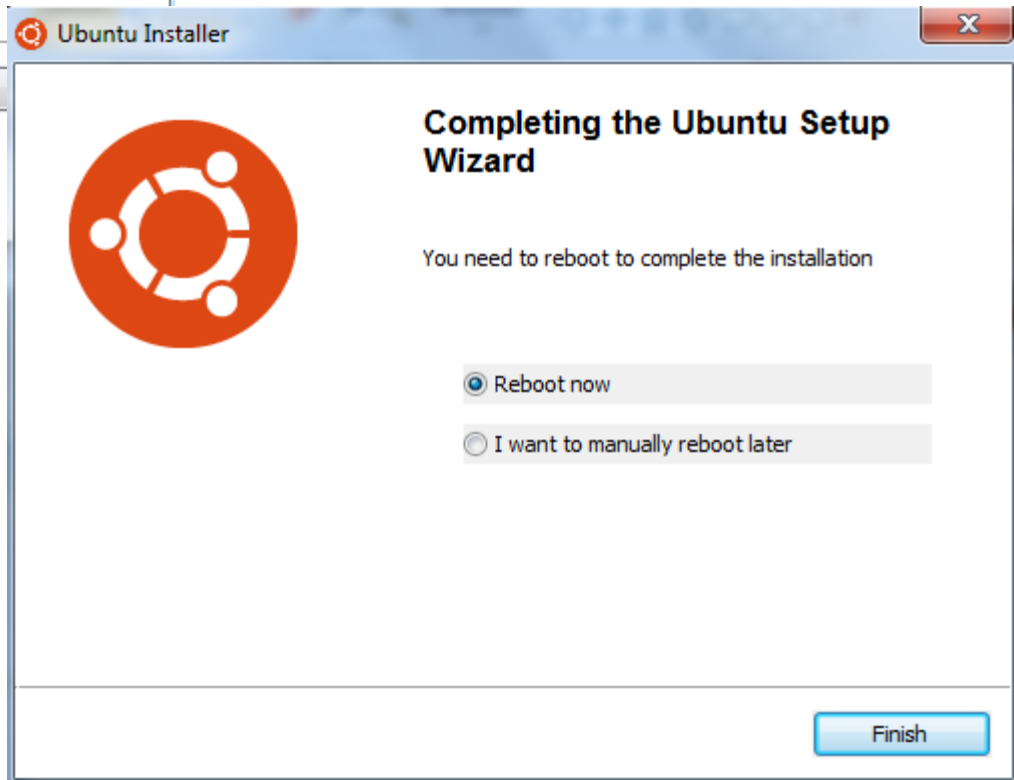
Pay with PayPal

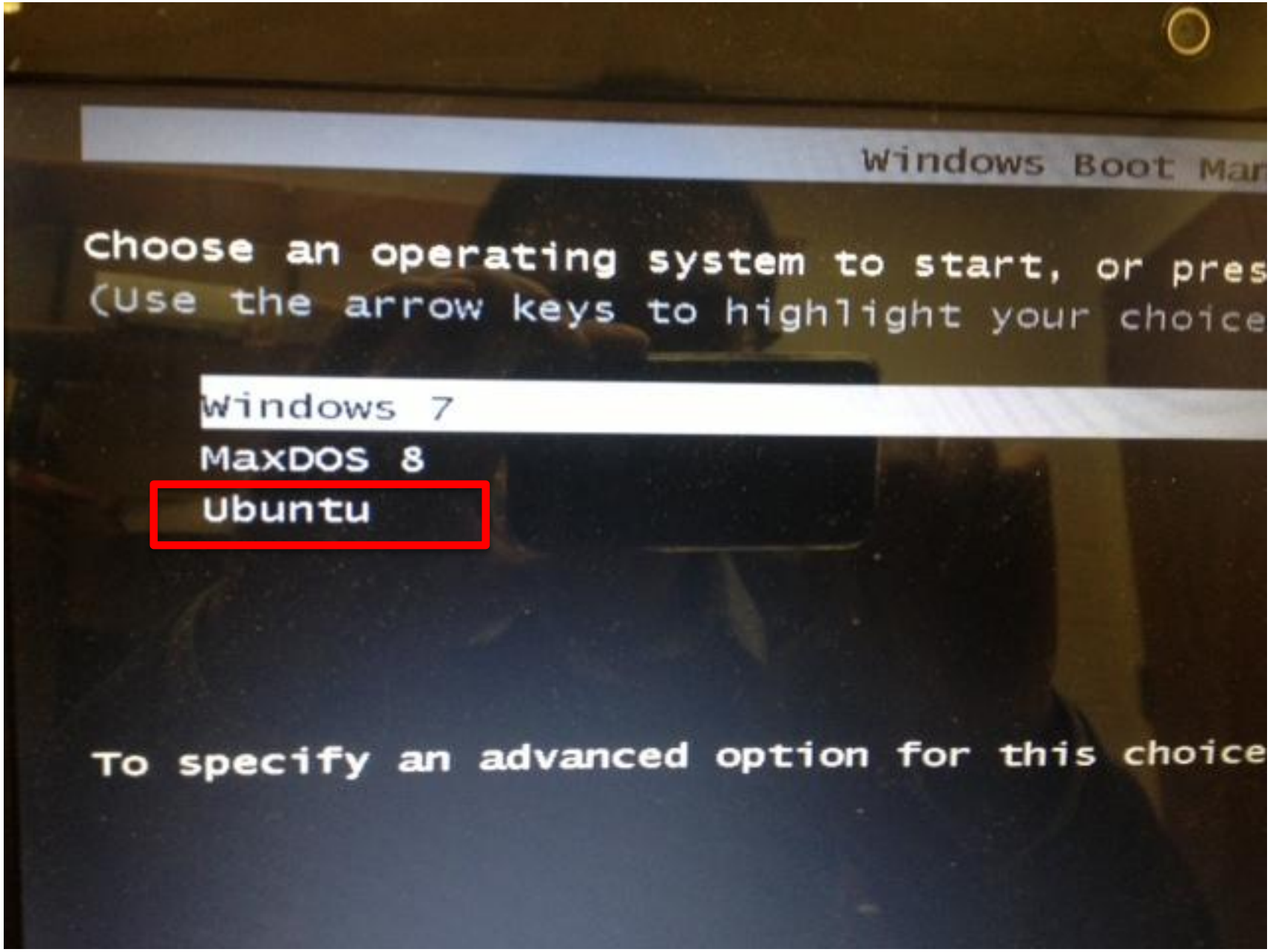

Ubuntu Installer
You are about to install Ubuntu-12.04
Please select username and password for the new account
Installation drive:
C: (71GB free)
Language:
English (US)
Installation size:
18GB
Username:
yanbin
Password:
Desktop environment:
Ubuntu
Rev 272
Accessibility
Install
Cancel

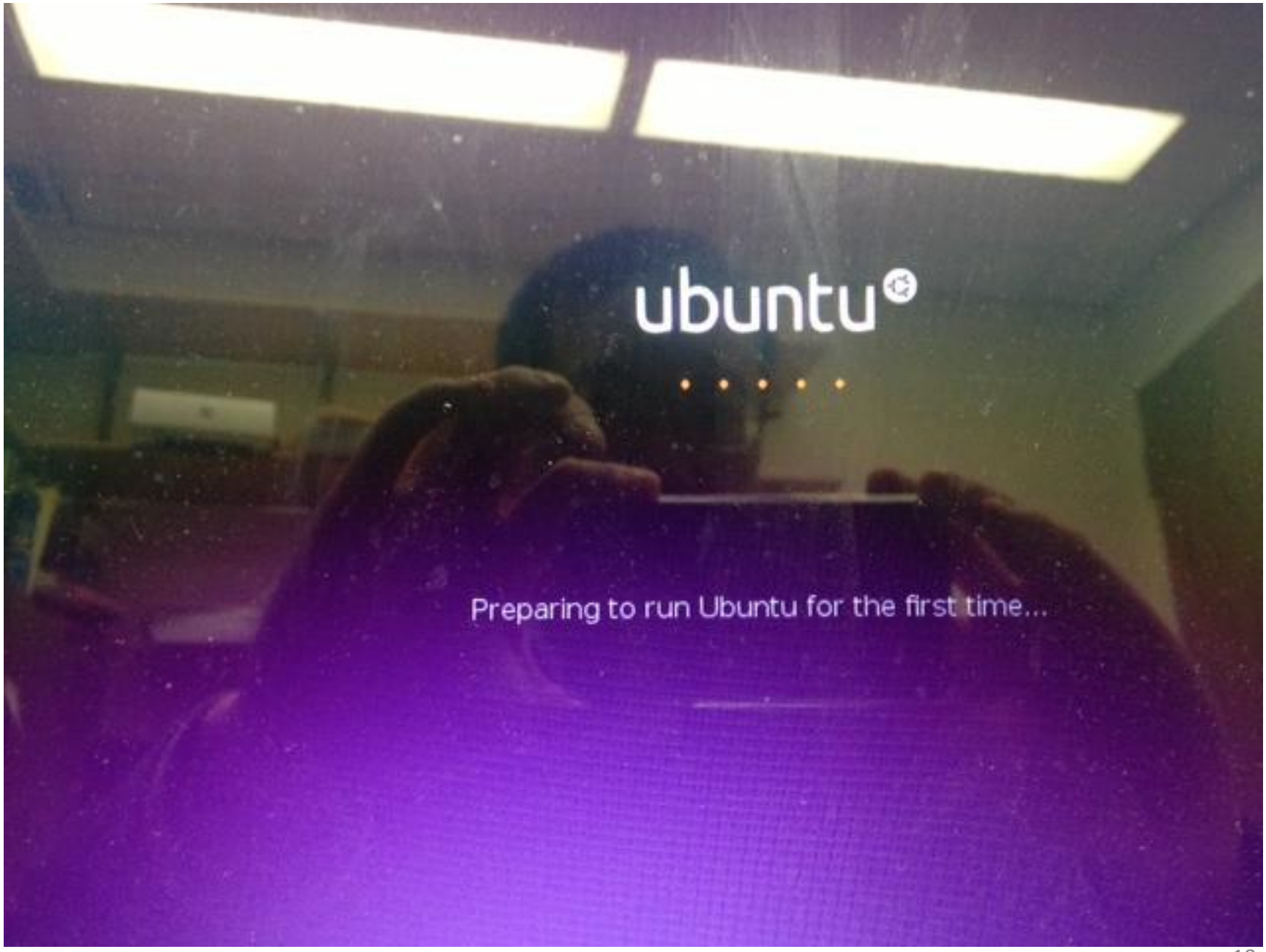


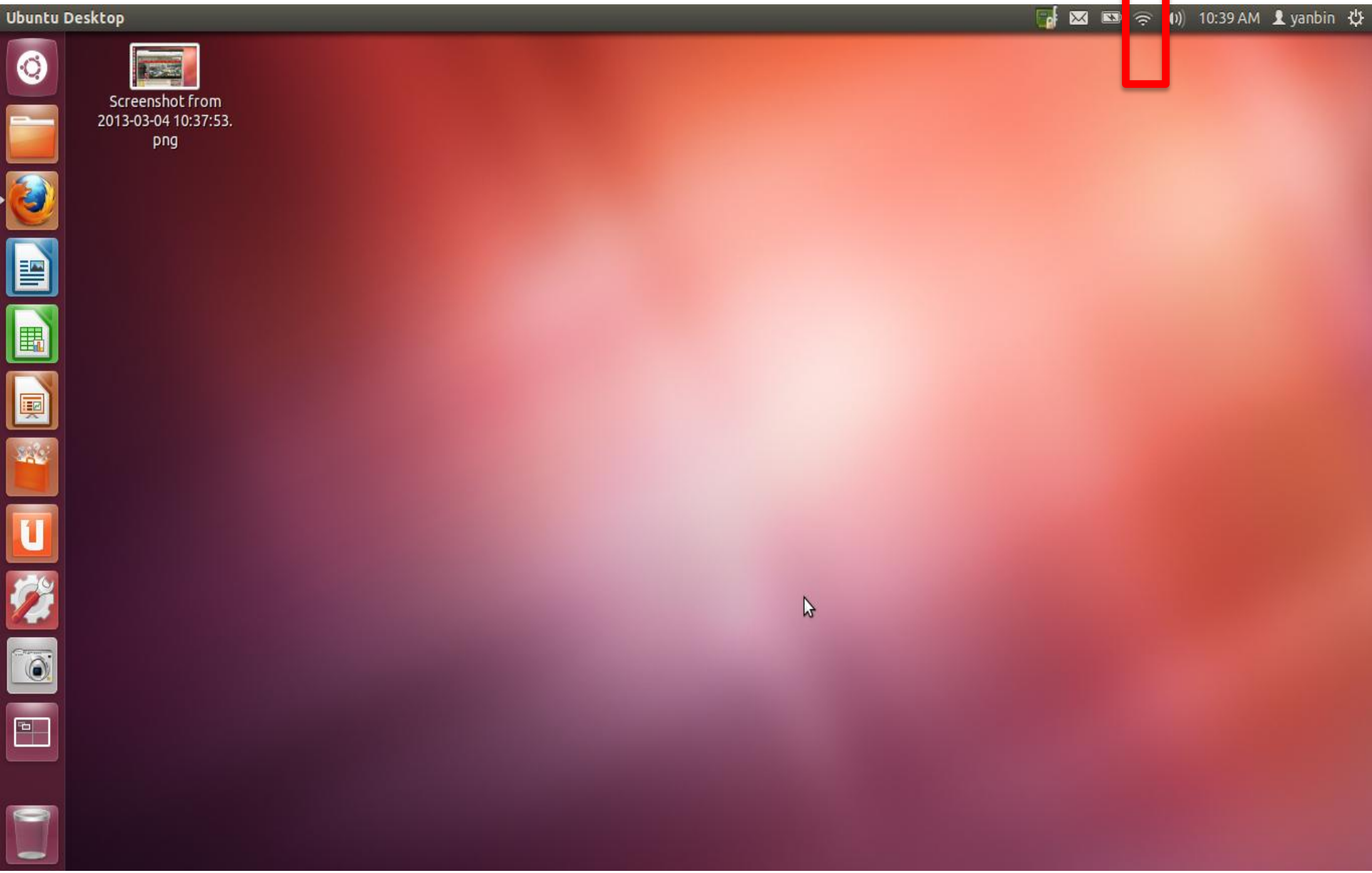
Takes at least **20 minutes** to finish depending on how fast your computer and internet are

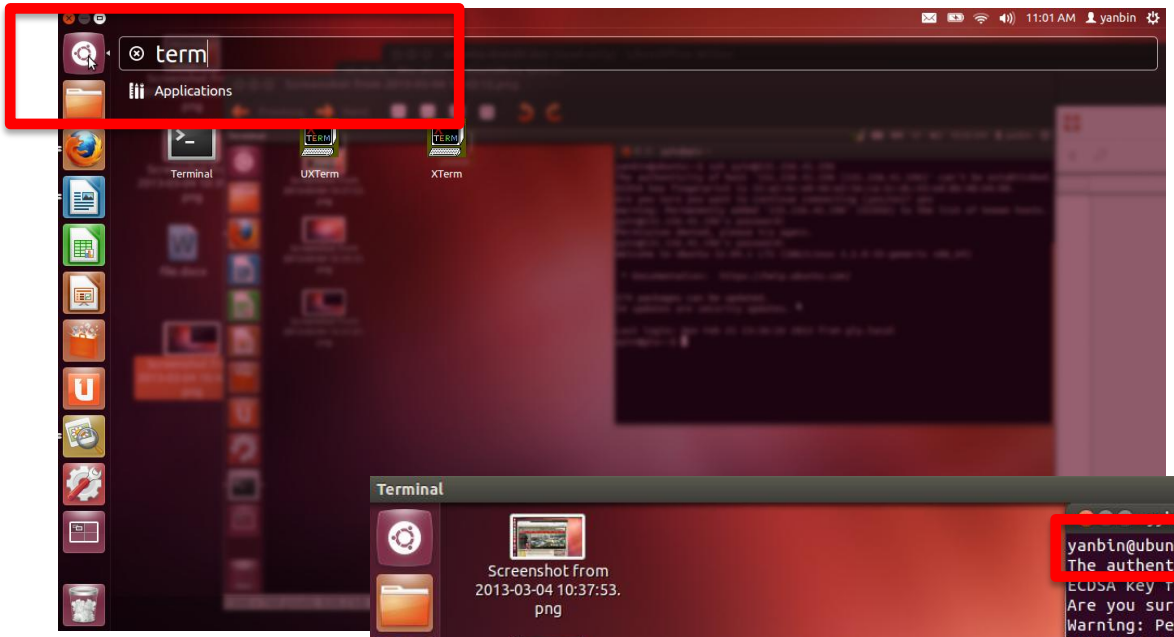




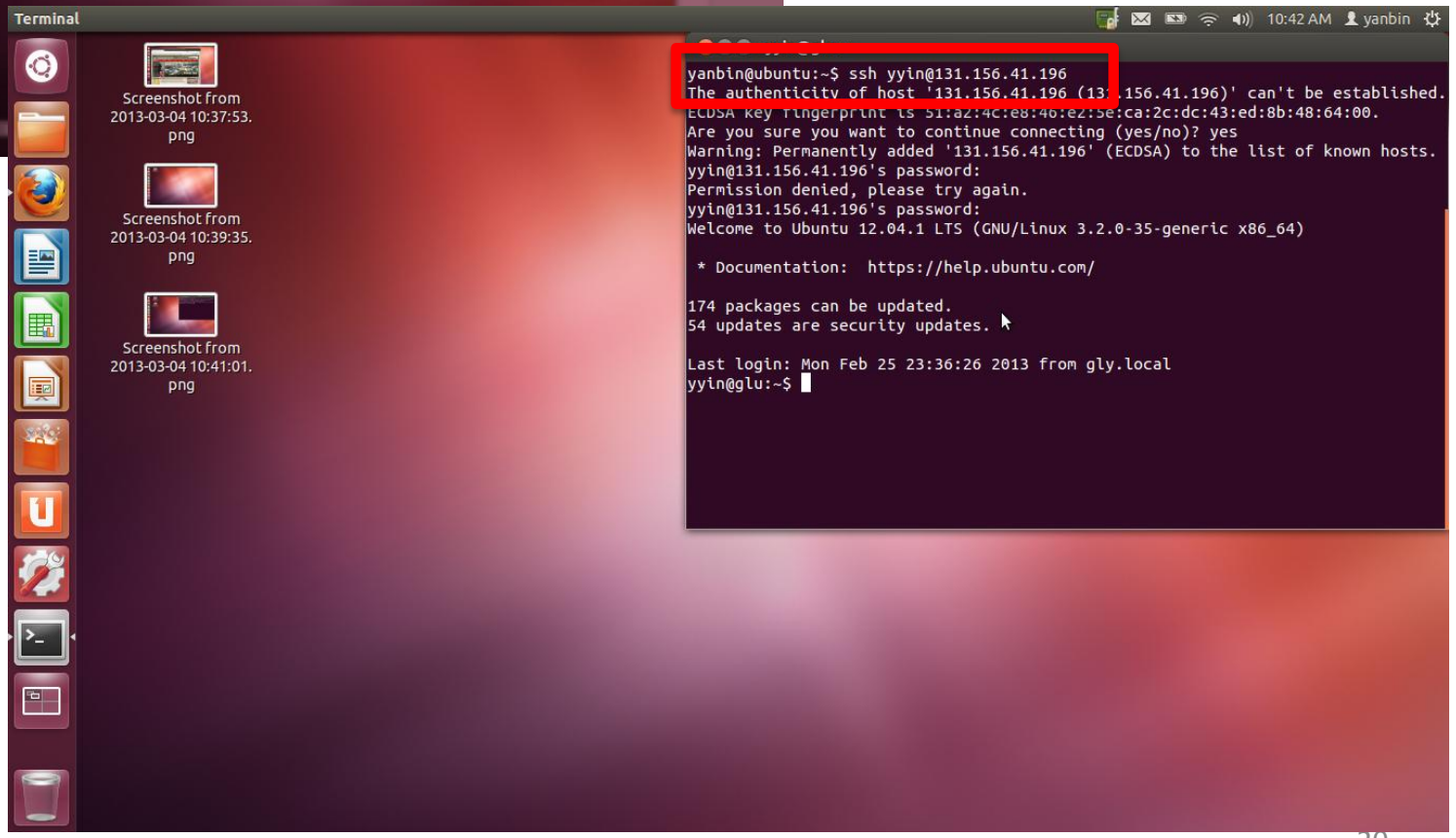

Windows Boot Mar
Choose an operating system to start, or pres
(Use the arrow keys to highlight your choice
Windows 7
MaxDOS 8
Ubuntu
To specify an advanced option for this choice

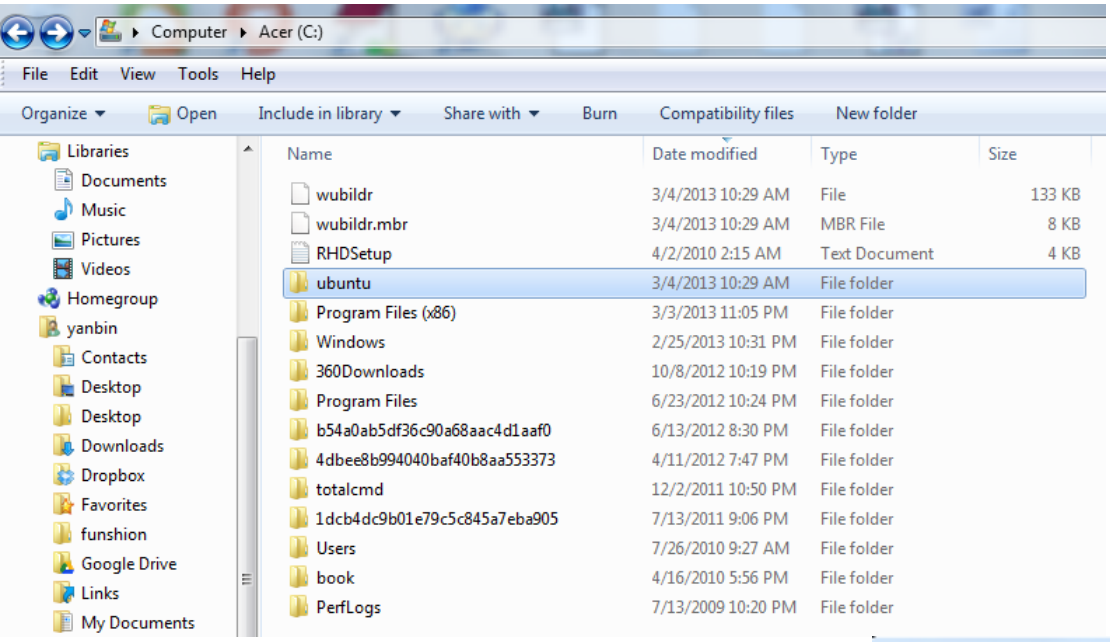

ubuntu
Preparing to run Ubuntu for the first time...


Ubuntu Desktop
10:39 AM
yanbin
Screenshot from 2013-03-04 10:37:53.png


term
Applications
Terminal
UXTerm
XTerm

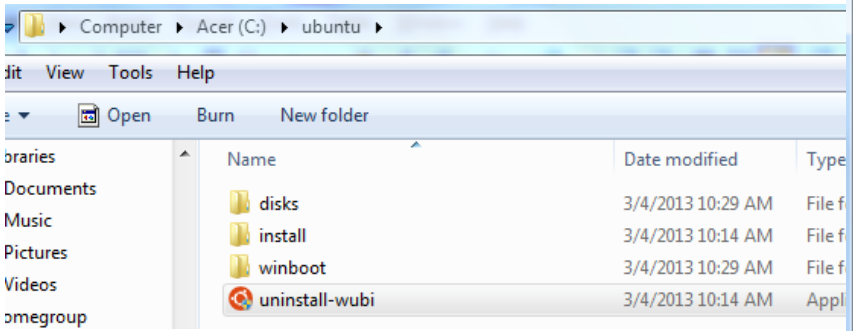
Ctrl+Alt+t

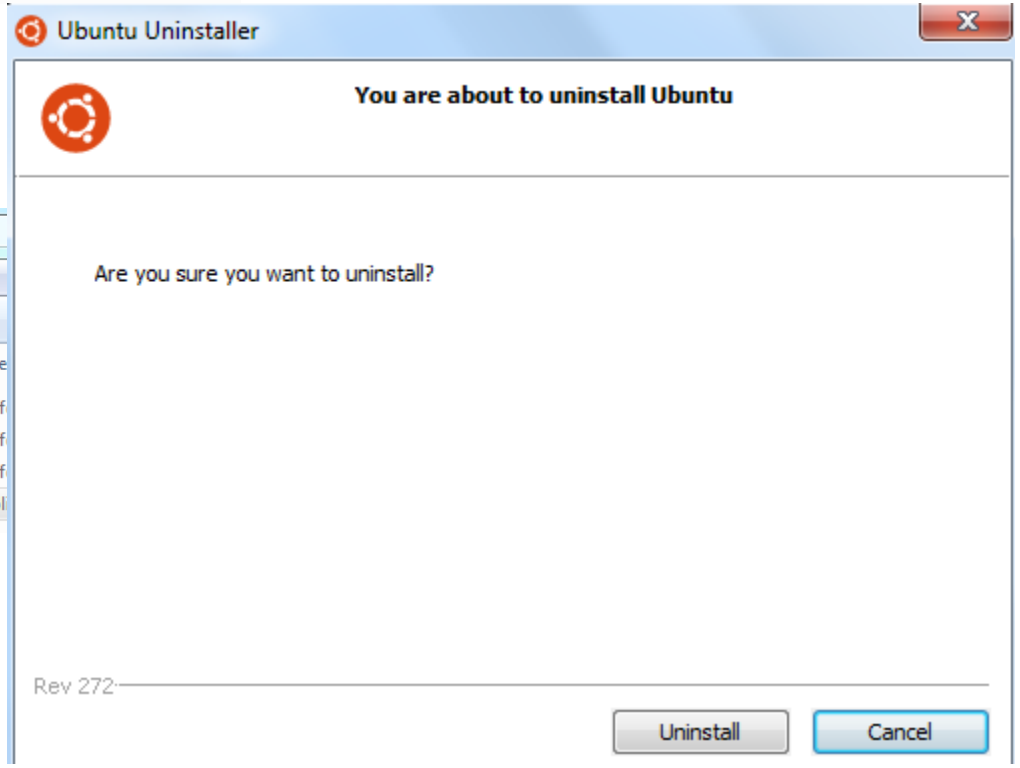

Terminal
10:42 AM yanbin
Screenshot from 2013-03-04 10:37:53.png
Screenshot from 2013-03-04 10:39:35.png
Screenshot from 2013-03-04 10:41:01.png
yanbin@ubuntu:~$ ssh yyin@131.156.41.196
The authenticity of host '131.156.41.196 (131.156.41.196)' can't be established.
ECDSA key fingerprint is 51:a2:4c:e8:46:e2:5e:ca:2c:dc:43:ed:8b:48:64:00.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added '131.156.41.196' (ECDSA) to the list of known hosts.
yyin@131.156.41.196's password:
Permission denied, please try again.
yyin@131.156.41.196's password:
Welcome to Ubuntu 12.04.1 LTS (GNU/Linux 3.2.0-35-generic x86_64)
* Documentation: https://help.ubuntu.com/
174 packages can be updated.
54 updates are security updates.
Last login: Mon Feb 25 23:36:26 2013 from gly.local
yyin@glu:~$



Want to delete ubuntu?

Get back to windows





Next class: Linux command line basics