Download noobs
https://www.raspberrypi.org/downloads/noobs/
Make sure to use the same version as everyone else for consistency
1.9.2
2016-05-27

Format micro sd card to fat32
Extract to the sd card

Boot pi with the card
Check Raspian and install that

I am simply connecting to wifi here
Believe that ethernet can be used
Wait for a little while after boot and then right click on the top right internet thing
And then select the wifi
This RPI super easy compared to past setups
Open browser and go to some website to confirm it works

SSH:
ping raspberrypi

Will return some IP … in my case:
192.168.1.165

ssh pi@192.168.1.165
Password: raspberry

VNC:
sudo apt-get install tightvncserver
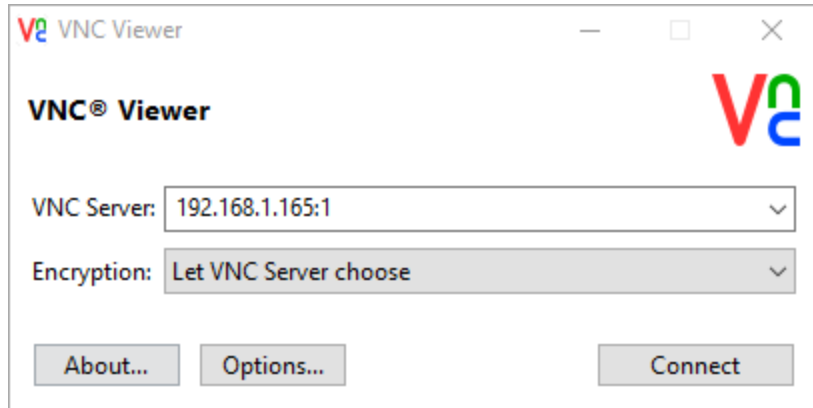https://www.realvnc.com/download/viewer/
https://www.raspberrypi.org/documentation/remote-access/vnc/

vncviewer -geometry 1920x1080

Once have the IP and the 'key' can use vncviewer to log in
Example:
192.168.1.165:1

Sound:

https://www.raspberrypi.org/documentation/configuration/audio-config.md

Sudo raspi-config

Advanced options

Audio

3.5mm

Enable ssh:

https://www.raspberrypi.org/documentation/remote-access/ssh/

Sudo raspi-config

Advanced options

ssh

Pull the repo:

Git clone https://github.com/bcrafton/Capstone

Install pyaudio:

sudo apt-get install python-pyaudio

Copy and Paste:

```
sudo apt-get install autocutsel
nano /home/pi/.vnc/xstartup

#!/bin/sh
xrdb $HOME/.Xresources
xsetroot -solid grey
autocutsel -fork
#x-terminal-emulator -geometry 80x24+10+10 -ls -title "$VNCDESKTOP Desktop" &
#x-window-manager &
# Fix to make GNOME work
export XKL_XMODMAP_DISABLE=1
/etc/X11/Xsession
```

Finding local machines ip on windows:

Control panel

Network and internet

View network status and tasks

Connections ->

View your basic network information and set up connections

View your active networks

FiOS-RRTKD
Public network

Access type: Internet
Connections: Wi-Fi (FiOS-RRTKD)

Change your networking settings

Set up a new connection or network
Set up a broadband, dial-up, or VPN connection; or set up a router or access point.

Troubleshoot problems
Diagnose and repair network problems, or get troubleshooting information.

Details

Ip address

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Wi-Fi Status ✕

General

Connection
IPv4 Connectivity: Internet
IPv6 Connectivity: No network access
Media State: Enabled
SSID: FiOS-RRTKD
Duration: 00:59:05
Speed: 216.7 Mbps

Signal Quality:

Details... | Wireless Properties

Activity

Sent — Received

Bytes: 1,585,003 | 3,093,278

Properties | Disable | Diagnose

Close

Network Connection Details ✕

Network Connection Details:

Property	Value
Connection-specific DN...	fios-router.home
Description	Qualcomm Atheros AR938x Wireless Netw
Physical Address	60-E3-27-1D-7F-3E
DHCP Enabled	Yes
IPv4 Address	192.168.1.166
IPv4 Subnet Mask	255.255.255.0
Lease Obtained	Thursday, September 1, 2016 11:20:16 P
Lease Expires	Friday, September 2, 2016 11:20:16 PM
IPv4 Default Gateway	192.168.1.1
IPv4 DHCP Server	192.168.1.1
IPv4 DNS Server	192.168.1.1
IPv4 WINS Server	
NetBIOS over Tcpip En...	Yes
Link-local IPv6 Address	fe80::70bc:9aaf:5c74:ff97%2
IPv6 Default Gateway	
IPv6 DNS Server	

Close

If you run tcpserver.py
And tcpclient.py
And modify the IP addresses
Then you should hear stairway to heaven playing!!!