**Lab 1A: NOOBS and Wi-Fi**

### 1. [Raspberry Pi](https://en.wikipedia.org/wiki/Raspberry_Pi) supports [SDHC](https://en.wikipedia.org/wiki/SD_card) (High Capacity up to 32 GB) cards with the FAT ([File Allocation Table](https://en.wikipedia.org/wiki/File_Allocation_Table)) file system only (cannot use SDXC cards with [exFAT](https://en.wikipedia.org/wiki/ExFAT))

### 2. On a laptop, download the latest New Out-Of-Box Software ([NOOBS](https://www.raspberrypi.org/downloads/noobs/)) zip file and extract the zip file to a folder

* Insert a new or reformatted SD card, go to the folder, select all items, then drag and drop them to the SD card
* Eject the SD card properly, and insert it to Raspberry Pi SD card slot

### 3. Install NOOBS by connecting Raspberry Pi to a monitor, keyboard, and mouse, then power on to access a [Wi-Fi](https://en.wikipedia.org/wiki/Wi-Fi) network

* Click "Wifi network (w)," select "Stevens," enter Stevens Username and Password — once connected, more operating systems become available
* Select "Raspbian Full [RECOMMENDED]" and "English (US) Language and Keyboard"
* Click "Install (i)" and OK — installable without the internet access
* Click OK after "OS(es) Installed Successfully" to reboot

### 4. After reboot, change Password (default: raspberry) and skip Wi-Fi (that has been set up) and update (that may take a while)

### 5. Point (not click) the curser to the Wi-Fi icon at the right of the menu bar to see and write down the [IP address](https://en.wikipedia.org/wiki/IP_address) such as 192.168.x.xxx excluding the CIDR ([Classless Inter-Domain Routing](https://en.wikipedia.org/wiki/Classless_Inter-Domain_Routing)) notation of /24 suffix that indicates the number of bits of the prefix



