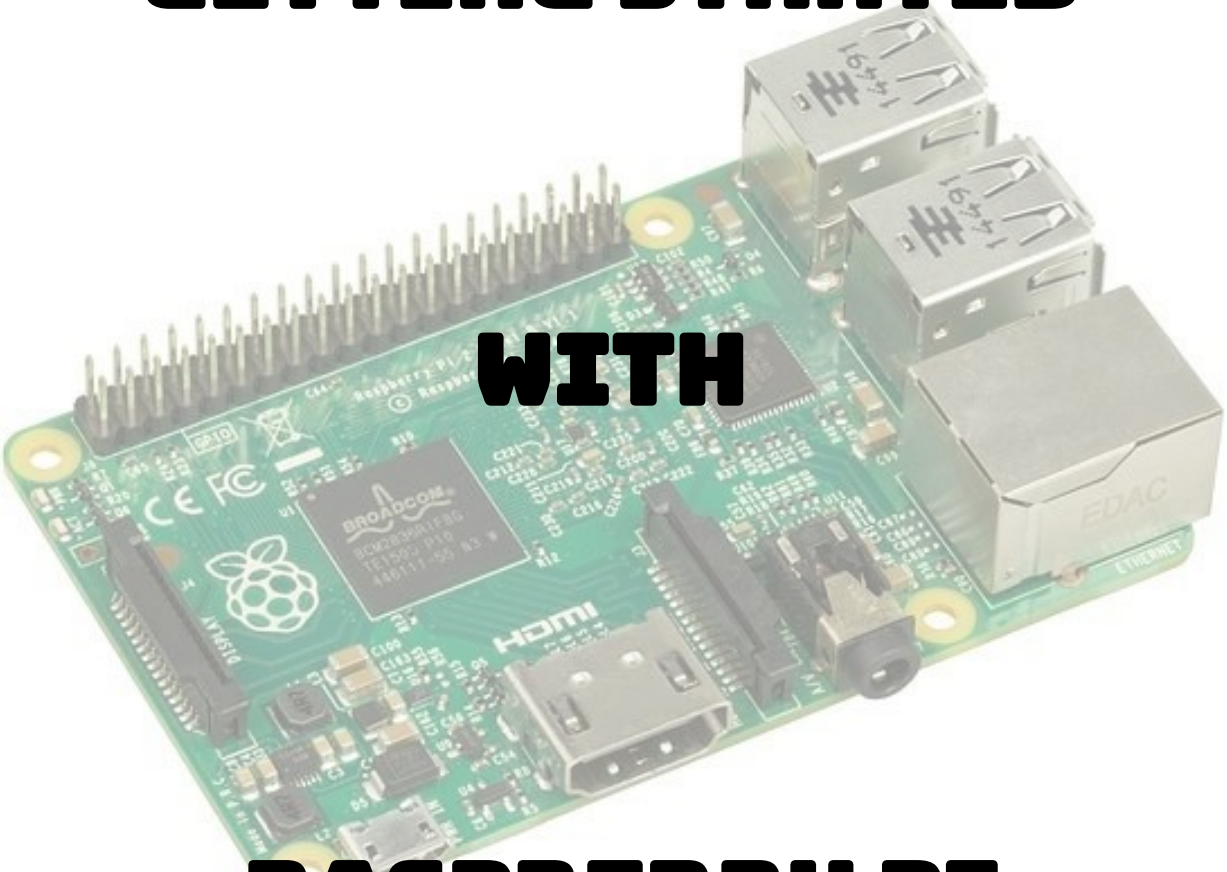
raspikidd

Internet Required

GETTING STARTED



WITH

RASPBERRY PI

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GETTING STARTED

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WHAT IS A RASPBERRY PI?

A Raspberry Pi is a small credit card sized computer that plugs into an HDMI display, whether that be a TV or monitor. The Raspberry Pi uses a standard USB mouse and keyboard for inputting information and uses SD cards to store files and its Operating System (OS). The most common Operating System for a Raspberry Pi is Raspbian, which is designed to get people of all ages into programming with the use of Scratch and Python.

The Raspberry Pi also has the ability to interact with the outside world through the GPIO (General Purpose Input Output) pins. You can use them to turn LEDs on and off, register a button press or build a robot.

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WHAT YOU NEED

- A Raspberry Pi
- Micro USB power supply (what you would use to power an Android phone)
- USB keyboard and mouse
- Micro SD card with NOOBS (New Out Of Box Software)
- HDMI Compatible TV/monitor
- HDMI Cable
- Ethernet/WiFi adapter (if required)

GETTING STARTED

SET UP

1. Insert the Micro SD card into the SD card slot on the underside of the Raspberry Pi.
2. Plug the USB keyboard and mouse into the USB ports on the Raspberry Pi.
3. Turn the TV/monitor on and make sure it is on the correct channel e.g. HDMI1.
4. Plug the HDMI cable into the Raspberry Pi and connect the other end into the TV.monitor.
5. Connect the ethernet cable /WiFI adapter to the Raspberry Pi. (if required)
6. Connect the power supply to the Raspberry Pi.
7. Plug the power supply into the power outlet and turn it on. This will turn on and boot the Raspberry Pi.

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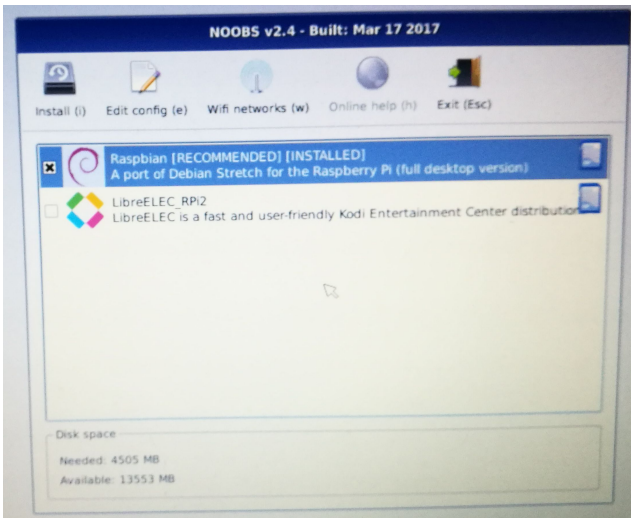
INSTALLING RASPBIAN

Raspbian is the Operating System (OS) that we are going to use.

Once the Raspberry Pi has booted up you will see:



1. Select Raspbian and click install.

2. A warning window will pop up, click on OK. This is just warning that the SD card will now be overwritten with the Operating System.

3. Once Raspbian has finished installing another pop up will appear and tell you OS is installed successfully. Click ok, the Raspberry Pi will now reboot.

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CONFIGURING RASPBERRY PI

Once the Raspberry Pi Has booted up you will see the Raspbian desktop. Well done you Have Installed the Operating System successfully.

We are now going to personalise a few settings:

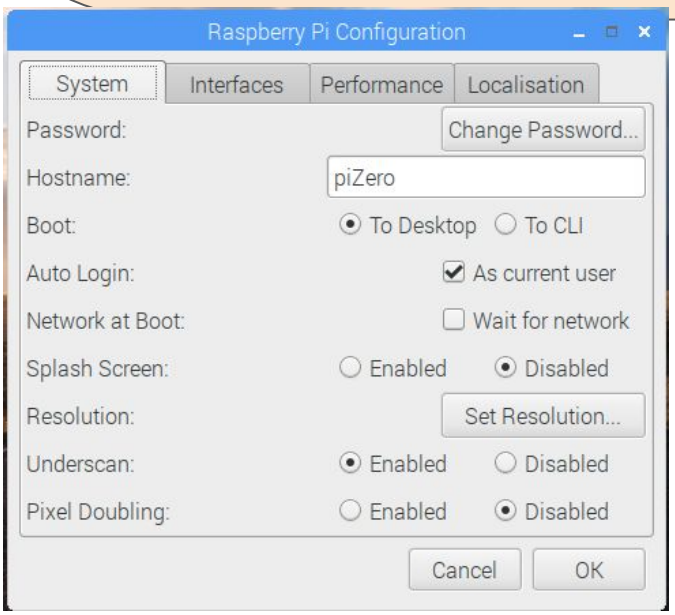
1. Connect to the internet by clicking on the WiFi icon at the top right. It will look something like this:  and select your WiFi network.

2. Click the menu icon in the top left corner of the screen 

3. Select Preferences in the drop-down menu and click on Raspberry Pi configuration. You should see the following:

GETTING STARTED

CONFIGURING RASPBERRY PI



4. Once the Configuration window opens click on the Localisation tab at the top.

5. Click on set Locale button to set your Location.

6. Click on set Timezone button to set your current timezone.

7. Click on set Keyboard to set the language of your Keyboard.

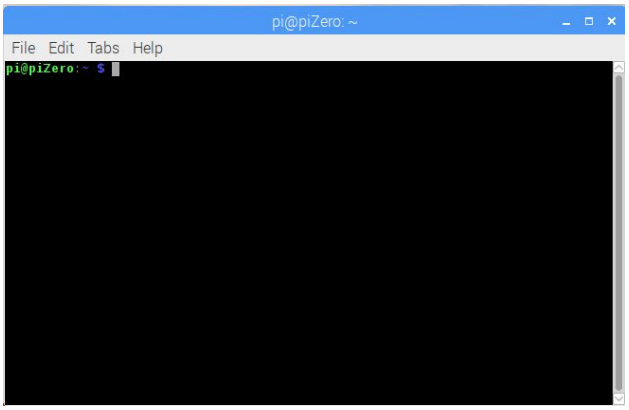
8. Now click on OK. This will prompt you to restart your Raspberry Pi, click yes and wait for the Raspberry Pi to reboot.

GETTING STARTED

UPDATING RASPBERRY PI

1. To update your Raspberry Pi, click on the Terminal icon at the top of the screen. It looks something like this:

2. Once the Terminal window has opened you will see something like this:



3. Type the following and press enter. This will download updates.

```
sudo apt update
```

4. Once the previous command has finished. Type the following and press enter. This will upgrade the packages that the updates downloaded for.

```
sudo apt upgrade
```

UPDATING RASPBERRY PI

Once you press enter you will be prompted to press “y” to update the Raspberry Pi.

CONCLUSION

Well done you have successfully installed the Raspbian Operating System, configured the Raspberry Pi settings and updated the Operating System.

Have fun while exploring your Raspberry PI and see what you can create!