Octodash

Basic OS

download and install the latest octoPi as in install_raspbian_on_f2fs_root

Display

get the display up and running:

```
sudo apt update
sudo apt upgrade
sudo apt install git
git clone https://github.com/waveshare/LCD-show.git
cd LCD-show/
sed -i 's/ext4/f2fs/' cmdline.txt
chmod +x LCD35-show
./LCD35-show
```

this will reboot your raspberry and you should then see some output on your display

add screen calibration

```
sudo apt install xinput-calibrator
```

OctoDash

to install OctoDash, use the one-liner that they provide on their github page.. at the time of writing this, the command was:

```
bash <(wget -qO-
https://github.com/UnchartedBull/OctoDash/raw/master/scripts/install.sh)
```

that'll do everything for you.

to make sure octodash can start upon bootig your raspberry, you need to enable autologin on the console. to do that, start the raspi-config utility

```
sudo raspi-config
```

in there go to system options -> S5 Boot / Auto Login and choose the B2 Console Autologin option

go back to the main menu

VNC

in order to remote-control your octodash screen, for example to set up some things or to debug something from remote, you can add VNC.. mind you, this isn't needed for octoprint to work or to be setup, but it may help if you need to debug something and you can't or don't want to connect a keyboard to the raspberry. I would recommend to disable VNC again as soon as you are done debugging whatever you had to debug. It is always a good idea to minimize remote-access to the necessary.

to install VNC, if you haven't already started the `raspi-config` utility, start it now:

```
sudo raspi-config
```

now go to 3 `Interface Options` –> VNC to install and enable the vnc server.

now that this is done, you can exit raspi-config

if you are using the realvnc viewer, you may connect to your raspberry now, however, if you are using any other viewer, you might get an error that the encryption type is not supported or something similar. This is because the raspberry is using realvnc server which in turn defaults to some, i believe, proprietary encryption config to secure your vnc connection. you can disable this, in order to allow any other viewers to be used as well. **this means though, that anything you type and also your password will be transferred over the network in plain text** so use this in your LAN only!

to disable encryption create a new file in `/etc/vnc/config.d/common.custom`

```
cat <<EOF | sudo tee /etc/vnc/config.d/common.custom
Authentication=VncAuth
Encryption=AlwaysOff
EOF
```

now set the password you want to use for authenticating your session:

```
sudo vncpasswd -file /etc/vnc/config.d/common.custom
```

finally, restart the vnc service:

```
sudo systemctl restart vncserver-x11-serviced.service
```

you should now be able to login using your password.

before we forget it, let's go ahead and disable the vncserver service by default, so it won't be autostarted upon booting your raspberry but only on demand:

```
sudo systemctl disable vncserver-x11-serviced.service
```

if you want to use your vnc server in the future, start it manually via an ssh session:

```
sudo systemctl start vncserver-x11-serviced.service
```

and stop it once you're done

```
sudo systemctl stop vncserver-x11-serviced.service
```

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