

RASPBERRY PI ASSEMBLY

Getting Started

Camera Code

Using github <http://rogerdudler.github.io/git-guide/>

Code: <https://github.com/kristenrailey/GWB>

GWB_take_picture.py

Takes picture with button, displays current image on LCD screen, shutdowns button

Access pi from your terminal

ssh pi@192.168.0.110

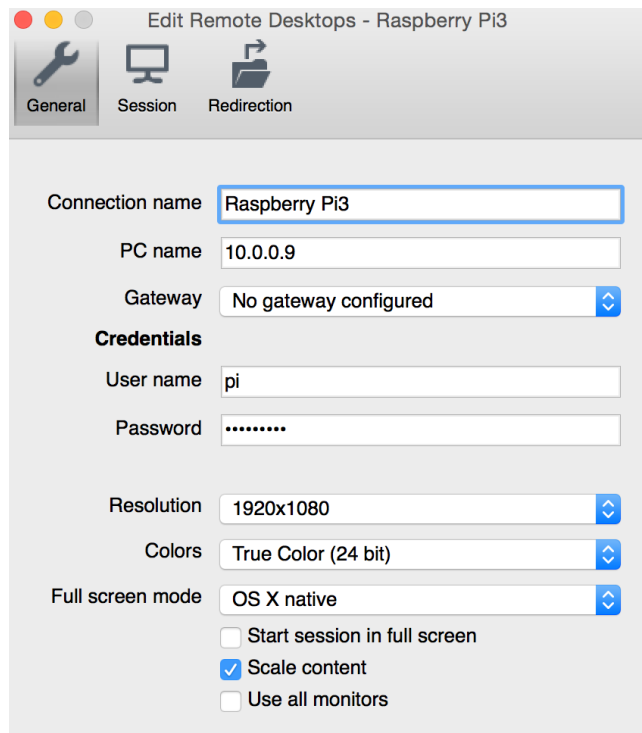
ssh pi@raspberrypi.local

For microsoft remote desktop

First on the pi: \$ sudo apt-get install xrdp

Install microsoft remote desktop on computer

Setting up microsoft remote desktop: raspberrypi.local



LCD Screen set-up

<https://learn.adafruit.com/adafruit-pitft-28-inch-resistive-touchscreen-display-raspberry-pi/easy-install>

Pi Camera Set-up

```
$ sudo apt-get install python-picamera
```

```
$ sudo raspi-config  
    Turn on camera  
    (R/L keyboard)
```

<https://www.raspberrypi.org/learning/getting-started-with-picamera/worksheet/>

Camera settings to play with:

camera.brightness

camera.contrast

camera.image_effect

none, negative, solarize, sketch, denoise, emboss, oilpaint, hatch, gpen, pastel, watercolor, film, blur, saturation, colorswap, washedout, posterise, colorpoint, colorbalance, cartoon, deinterlace1, and deinterlace2

