

# 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
```

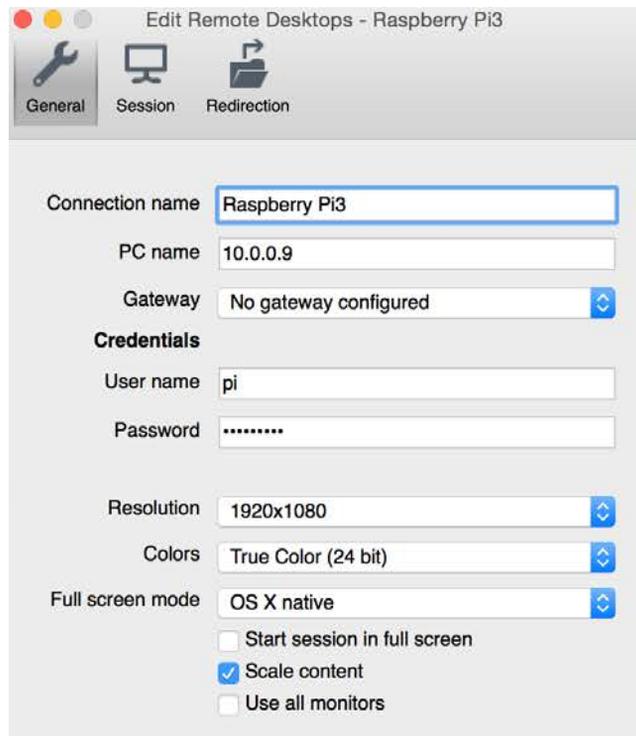
```
ssh pi@raspberrypi.local
```

### 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



## Resource: Girls Who Build Cameras

Kristen Railey, Bob Schulein, Olivia Glennon, Leslie Watkins, Alex Lorman, Carol Carveth, and Sara James

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