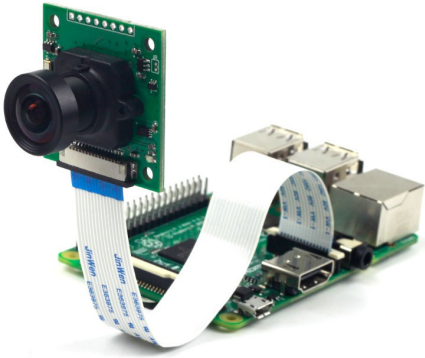




# Learn ICT Raspberry Pi Cheat Sheets

## Taking PiCamera pictures

### Wiring Diagram



Picture credit goes to <http://www.arducam.com>

Plug the PiCamera ribbon into the Raspberry Pi Camera Port  
Note: it is advisable to make sure your Pi is switched off first.

### Code

# Note you must have enabled using the picamera module already!

```
# Add this part of the code at the beginning of the python code
import picamera # this imports the PiCamera library
from datetime import datetime # Use this line if you want to timestamp your pic
```

```
# This creates an instance of the camera
camera = picamera.PiCamera()
```

```
# This takes a picture with the filename in quotes
camera.capture('image1.jpg')
```

```
# If you will be taking more than 1 pic, create a timestamp on your filename.
# Use a function to create a new timestamp for each picture
def takepicture():
    dt = datetime.now().isoformat() # This grabs current time
    dtime = dt[0:4]+dt[5:7]+dt[8:10]+dt[11:13]+dt[14:16]+dt[17:19] # This formarts the time to add to filename
    camera.capture("%d.jpg" % int(dtime))
```

```
takepicture() # Takes a pic using the function
```

### Ideas

Try taking pictures triggered by sensors, at the push of a button or try to write a programme that take a picture and than attaches to an email, tweet etc.