

## Raspberry Pi Cheat Sheet

### Starting Up:

Plug in Raspberry Pi using the Micro USB plug  
Login at the prompt  
    Username: pi  
    Password: raspberry  
At the prompt (\$), type 'startx'

### Variables:

```
myColor = "yellow"
myNumber = 5
myList = ["red", "yellow", "blue"]
```

### Conditions:

```
if myColor == "Yellow":
    print "You picked yellow!"
elif myColor == "Red":
    print "You picked red!"
else:
    print "You picked some other color"
```

### Loops:

```
for color in ["red", "yellow", "blue"]:
    print color

counter = 0
while (counter < 4):
    print "The count is: ", counter
    counter = counter + 1
```

### Functions:

```
def say_hello(name):
    print "Hello, ", name
    return "Hello, ", name
say_hello("Katie")
```

```
greeting = say_hello("Katie")
```

### Input:

```
print "Enter you name"
name = raw_input()
print "Hi, ", name, "how are you?"
```

### Objects:

```
class Ball:
    color = "red"
    size = "small"
    direction = ""

    def bounce(self):
        if self.direction == "down":
            self.direction = "up"

myBall = Ball()
myBall.direction = "down"
myBall.color = "blue"
myBall.bounce()
```

### Modules:

```
import random
print random.randint(1, 100)
```

You can find out about other modules at <http://docs.python.org>

Class slides: <http://bit.ly/I7KS8VM>

### Other Links

<https://github.com/kcunning/Katie-s-Rougish-PyGame>

<http://www.raspberrypi.org/quick-start-guide>

<http://www.raspberry.io>