

Python-Arduino-Communication

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1 Serial communication with Arduino in Python

```
In [18]: import serial # https://pypi.org/project/serial/
```

```
import numpy as np
```

```
In [19]: # Example for Linux
```

```
port = serial.Serial("/dev/ttyACM0", baudrate=115200, timeout=3.0)
```

```
# or
```

```
# port = serial.Serial("/dev/ttyUSB0", baudrate=115200, timeout=3.0)
```

```
# Example for Windows
```

```
# port = serial.Serial("\\\\.\\COM1", baudrate=115200, timeout=3.0)
```

1.0.1 Send message over the serial port

```
In [20]: port.write('\nM42 P57 S0\n'.encode()) # Example for a G-Code command "M42 P57 S0"  
print('Send: M42 P57 S0')
```

Send: M42 P57 S0

1.0.2 Receive a message

```
In [21]: received_array = [] # create an empty array for receiving messages
```

```
In [22]: rcv = port.read(255).decode("utf-8") # read 255-bit lines
```

```
received_array.append(rcv) # and append it to the array
```

```
In [23]: received_array
```

```
Out[23]: ['']
```

```
In [ ]:
```