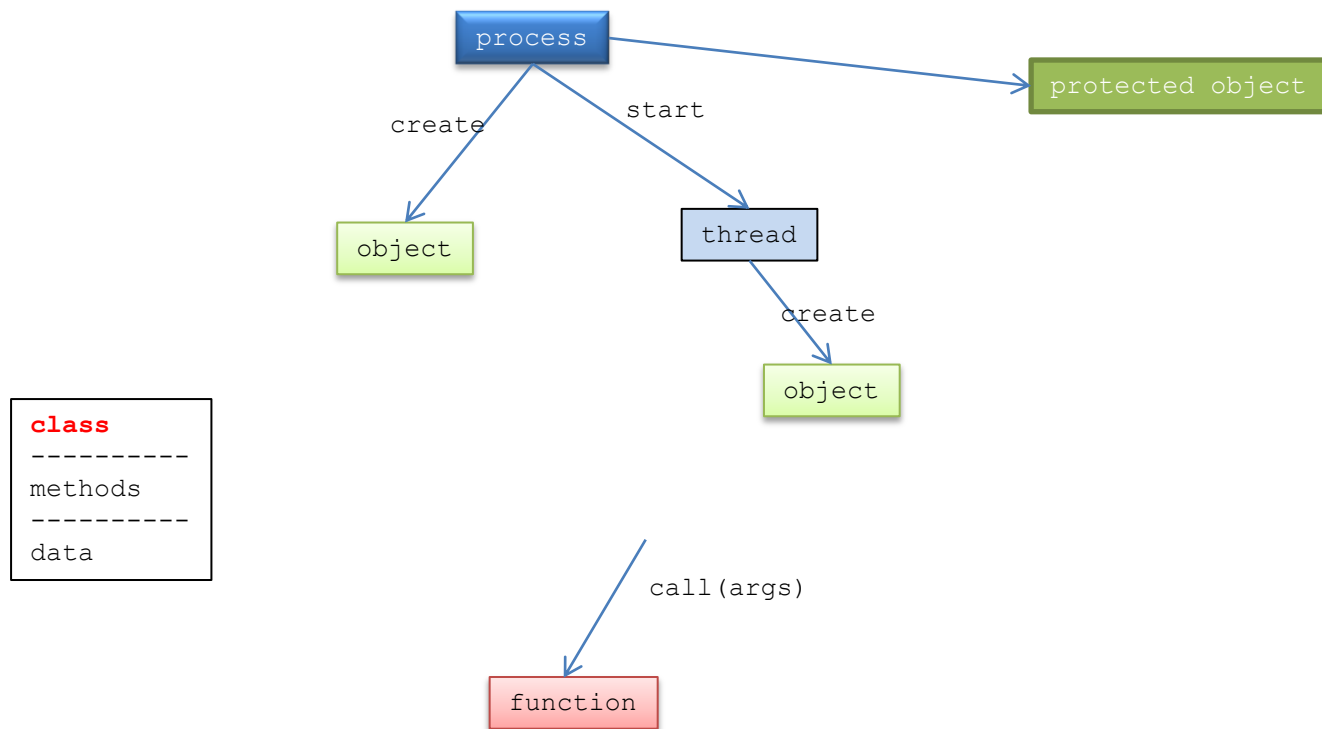
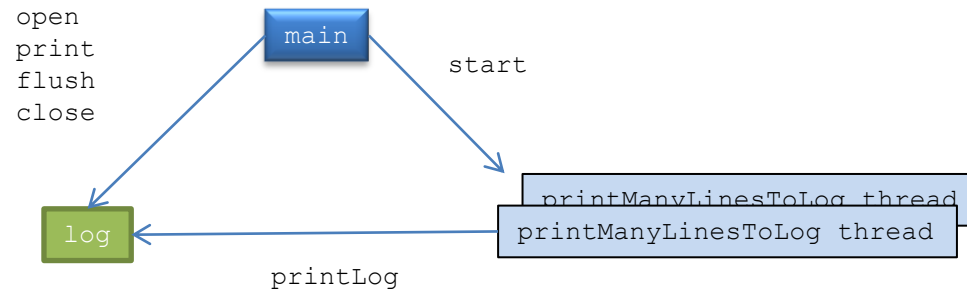


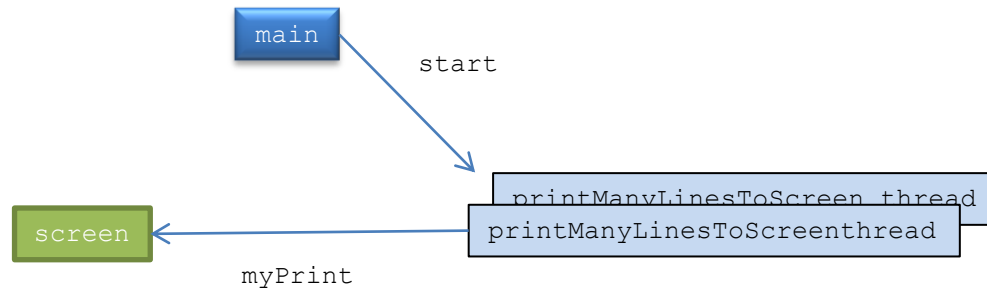
# Scripting Design Diagrams



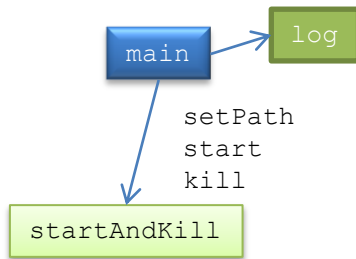
## Log\_Test.py



## MyPrint\_Test.py



## StartAndKill\_Test.py



# TCP/IP

## SCENARIO

- o Server creates socket and listens for clients.
  - Client creates socket, connects socket to server, sends 1 message, and closes socket.
- o Server accepts connection, spins off a socket for the connection, receives 1 message on this socket, and closes the socket.

### SERVER SIDE

```
listenSk = socket(AF_INET, SOCK_STREAM)
listenSk.bind(myIP, myPort)
listenSk.listen(5)
while ???:
    clientSk, (otherIP, otherPort) = listenSk.accept()
    message = decode(clientSk.recv(1024), "ascii")
    do something with message
    clientSk.close()
listenSk.close()
```

### CLIENT SIDE

```
sk = socket(AF_INET, SOCK_STREAM)
sk.connect(self.otherIP, otherPort)
sk.send(bytes(message, 'ascii'))
sk.close()
```

# TCP/IP

## SCENARIO

- o Similar to previous except multiple messages are passed between server and client.

### SERVER SIDE

```
listenSk = socket(AF_INET, SOCK_STREAM)
listenSk.bind(myIP, myPort)
listenSk.listen(5)
while ???:
    clientSk, (otherIP, otherPort) = listenSk.accept()
    clientHandler = ClientHandler(clientSk)
    clientHandler.start()
listenSk.close()
```

### CLIENT SIDE

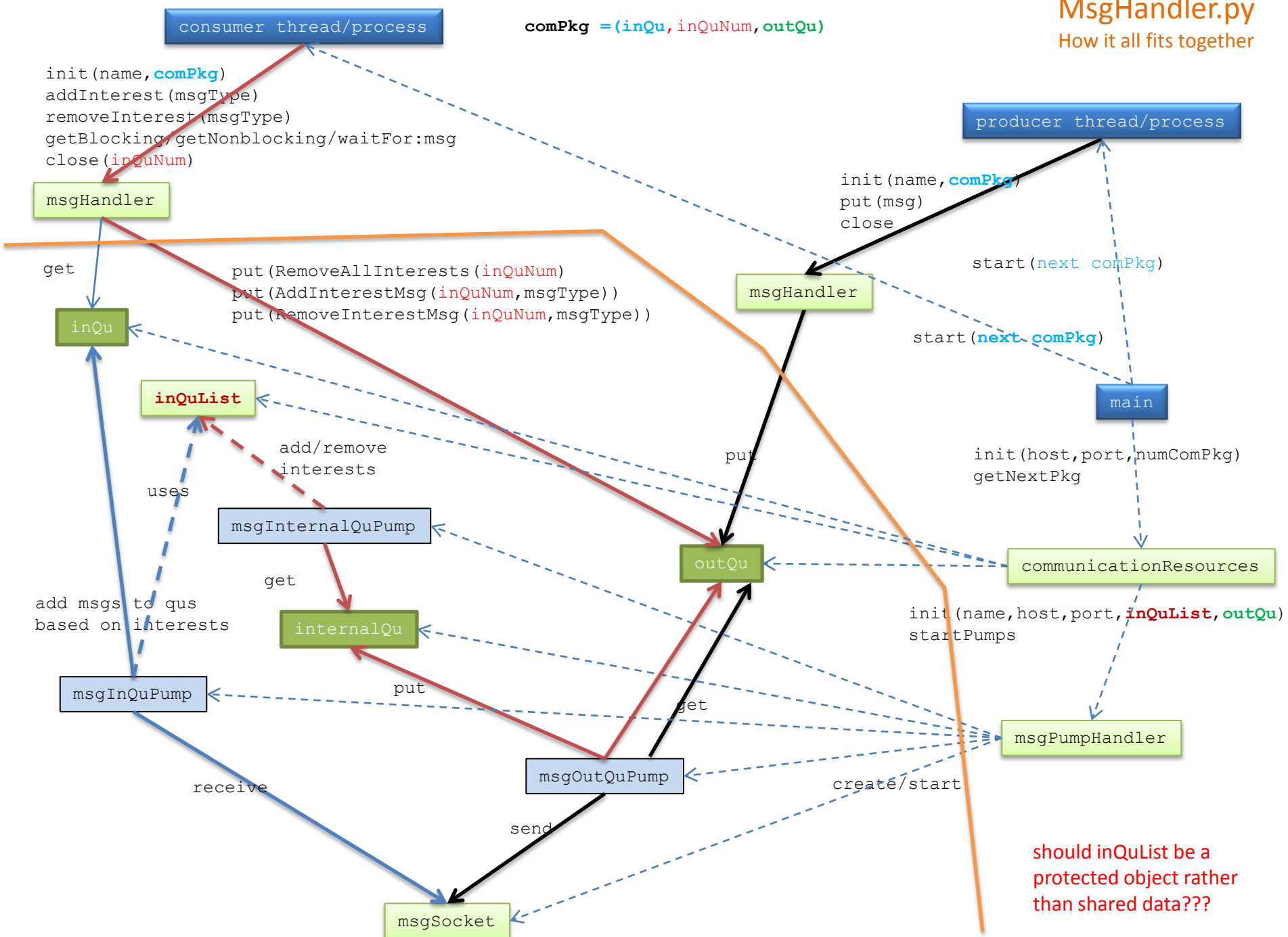
```
sk = socket(AF_INET, SOCK_STREAM)
sk.connect(self.otherIP, otherPort)
while ???:
    ...
    sk.send(bytes(message, 'ascii'))
    ...
    message = decode(sk.recv(1024), "ascii")
    ...
sk.close()
```

### CLIENT HANDLER

```
while ???:
    ...
    message = decode(clientSk.recv(1024), "ascii")
    ...
    clientSk.send(bytes(message, 'ascii'))
    ...
clientSk.close()
```

# MsgHandler.py

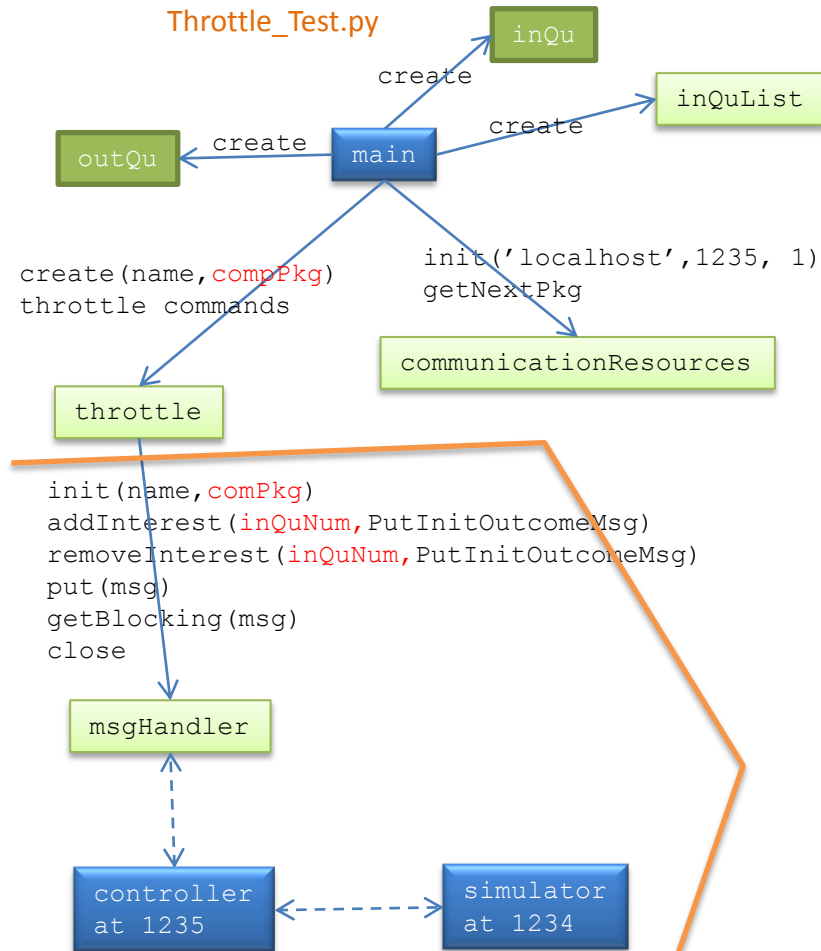
How it all fits together



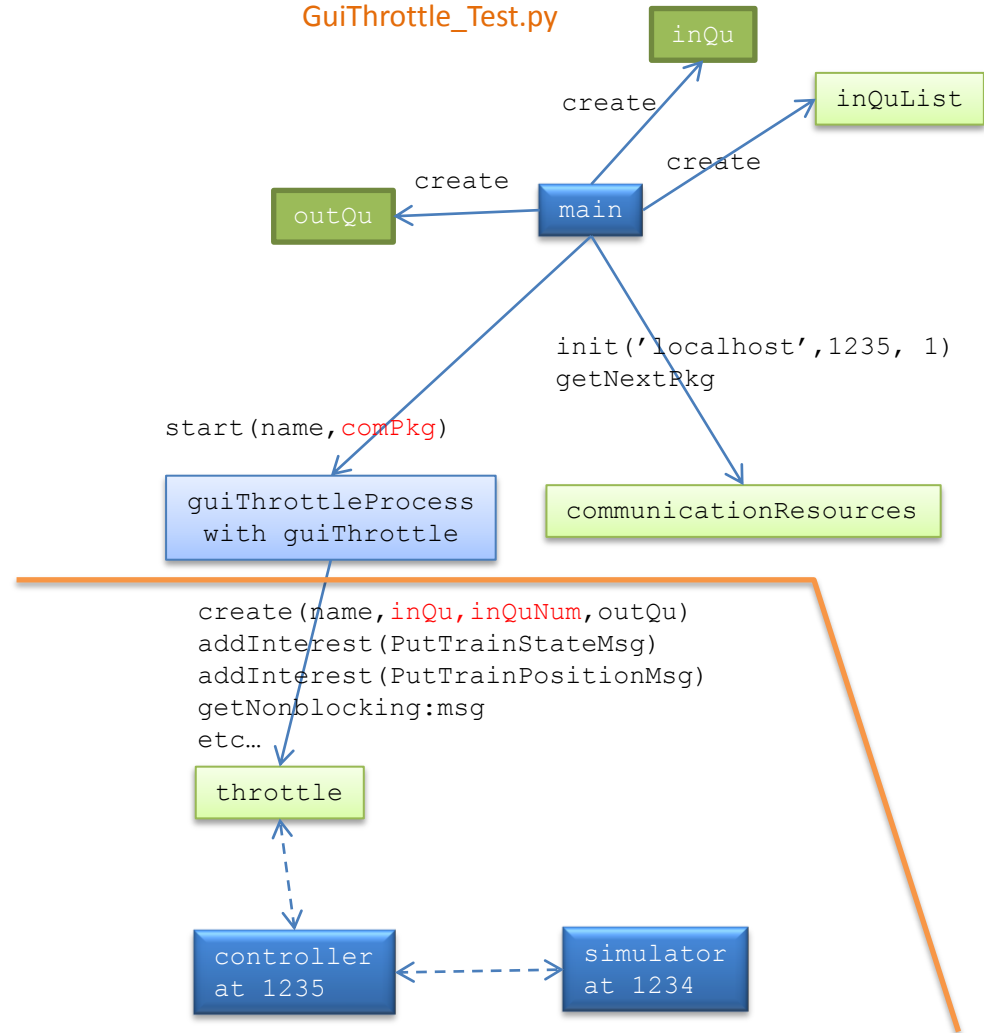
# MsgHandler.py

How use a Throttle and GuiThrottle

## Throttle\_Test.py



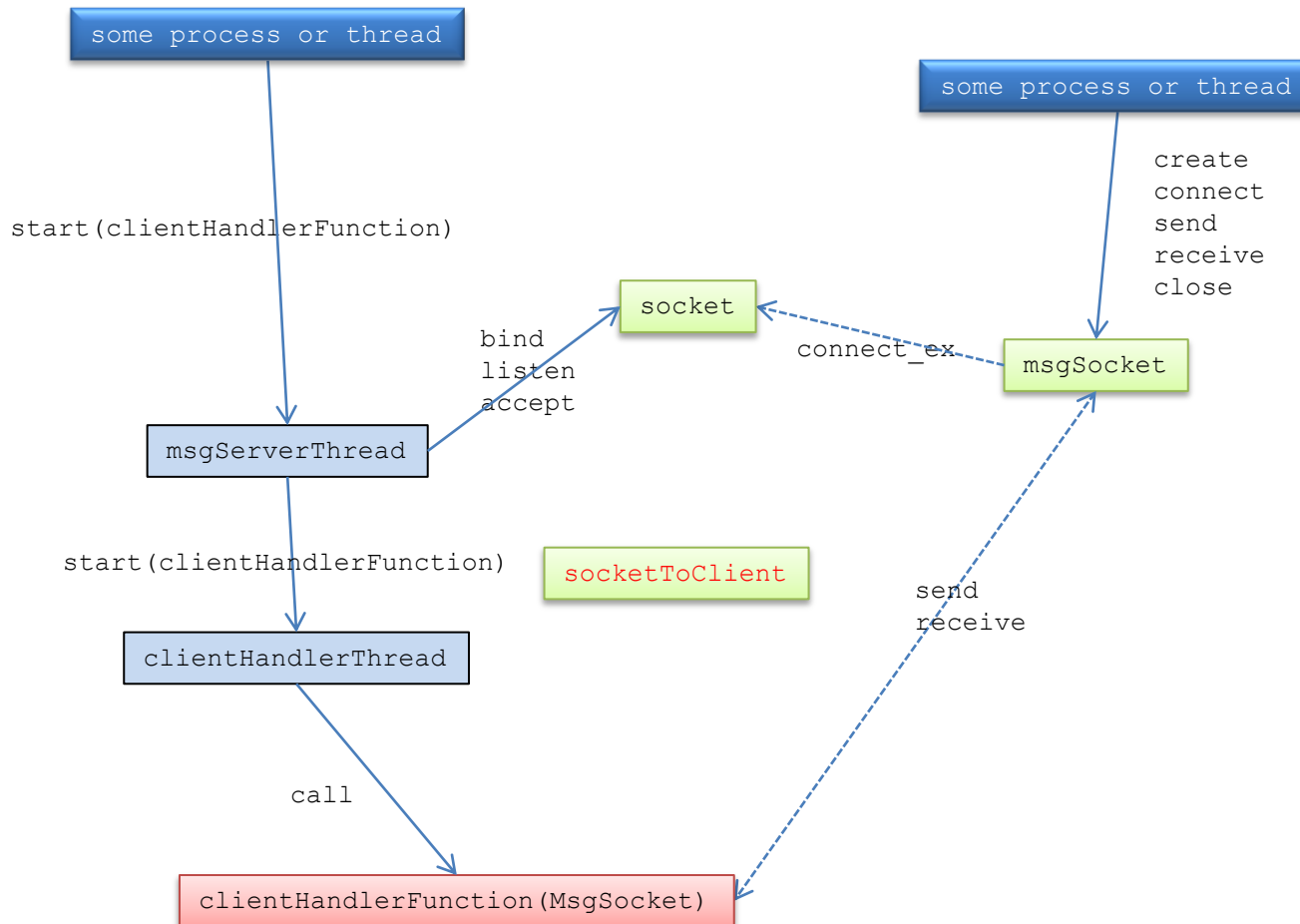
## GuiThrottle\_Test.py



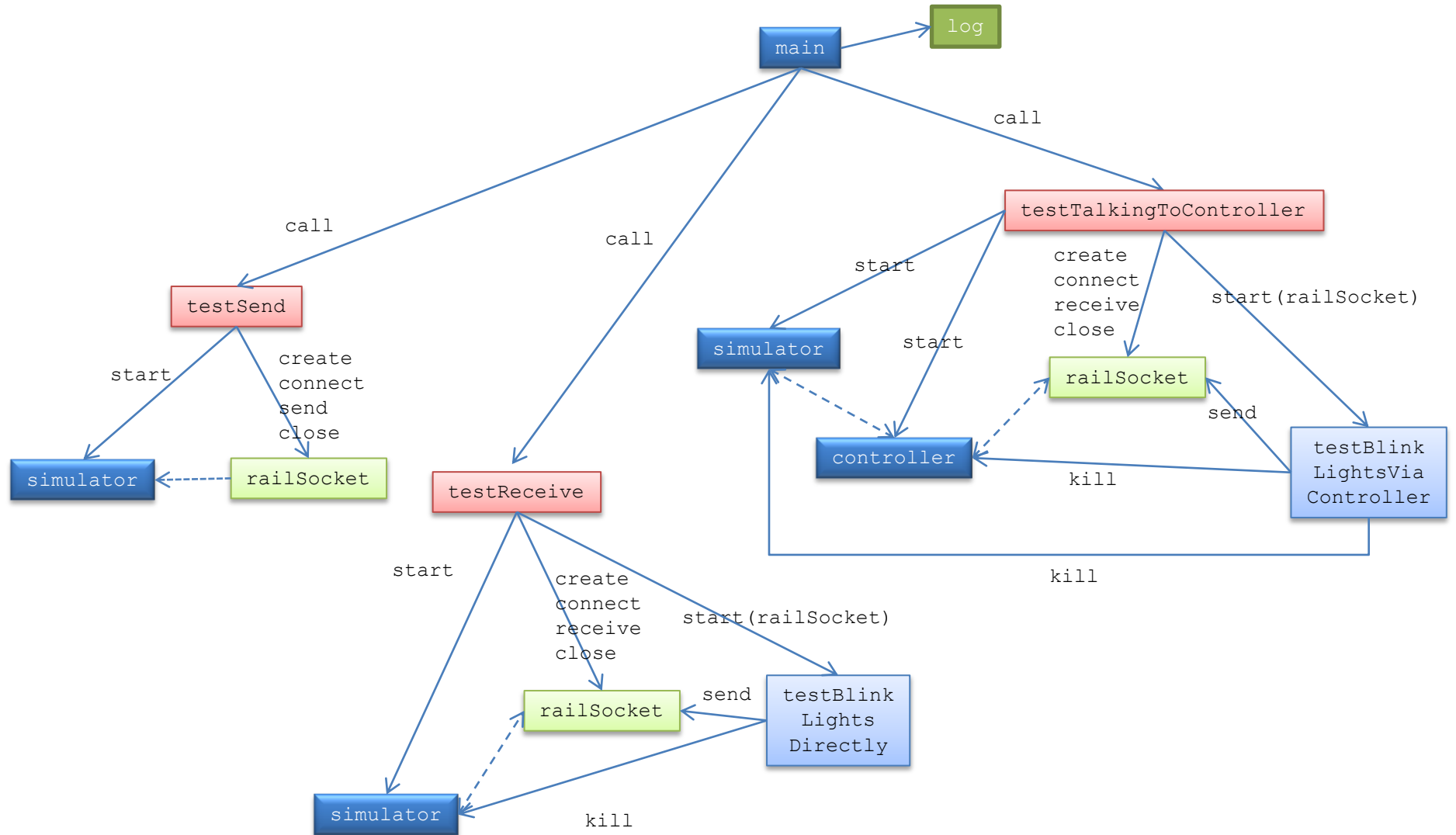


# MsgHandler.py

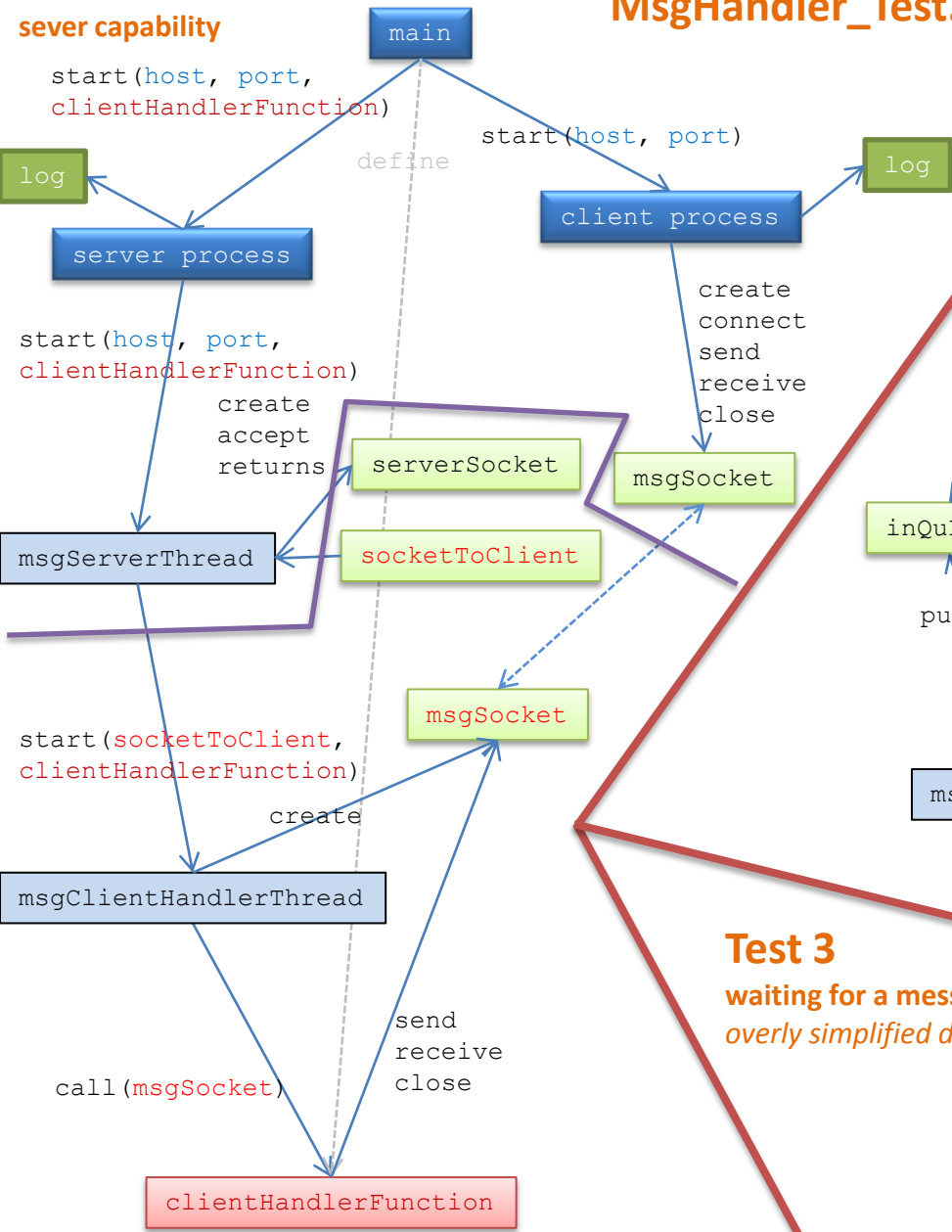
usage  
MsgServerThread and MsgSocket



# MsgSocket\_Test.py

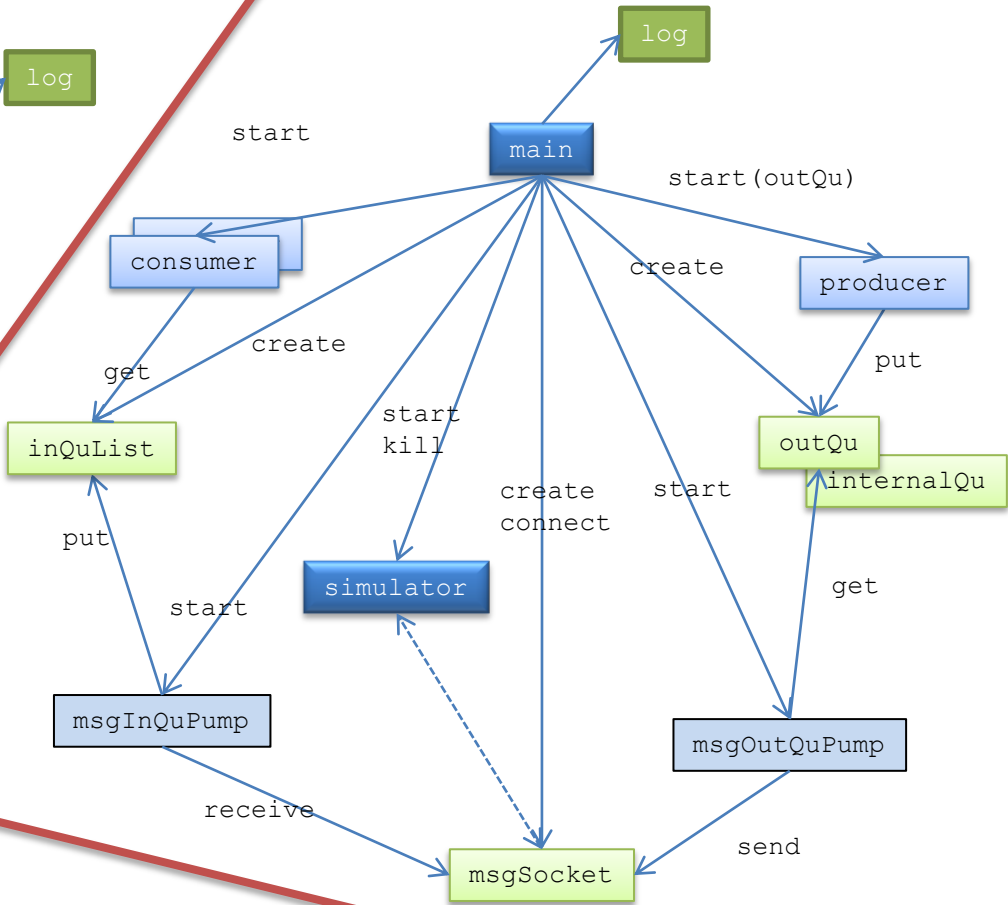


**Test 1**  
sever capability



**MsgHandler\_Test.py**

**Test 2**  
message pumps



**Test 3**  
waiting for a message  
overly simplified diagram

