Bluetooth Tutorial
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from bluetooth import *
target_name = "My Phone"
target_address = None

nearby_devices = discover_devices()
for address in nearby_devices:
    if target_name == lookup_name(address):
        target_address = address
        break
if target_address is not None:
    print "found target bluetooth device with address ",
    target_address
else:
    print "could not find target bluetooth device nearby"
Server (rfcomm/L2CAP)

```python
port = 1    # or 0x1001
server_sock=BluetoothSocket( RFCOMM) # or L2CAP
server_sock.bind(("", port))
server_sock.listen(1)
client_sock, client_info = server_sock.accept()
print "Accepted connection from ", client_info
data = client_sock.recv(1024)
print "received [%s]" % data
client_sock.close()
server_sock.close()
```
Service Discovery

```
port = get_available_port( RFCOMM
)server_sock=BluetoothSocket( RFCOMM
)server_sock.bind(('',port))server_sock.listen(1)advertise_service( server_sock, "Bluetooth Serial Port",
                service_classes = [
                    SERIAL_PORT_CLASS
                ],
                profiles = [
                    SERIAL_PORT_PROFILE
                ]
            )client_sock,
client_info = server_sock.accept()print "Accepted connection from ", client_info
data =
client_sock.recv(1024)
```
import sys
from bluetooth import *

service_matches = find_service(name = "Bluetooth Serial Port", uuid = SERIAL_PORT_CLASS)
if len(service_matches) == 0:
    print "couldn't find the service!"
    sys.exit(0)

first_match = service_matches[0]
port = first_match["port"]
name = first_match["name"]
host = first_match["host"]

print "connecting to ", host
sock = BluetoothSocket(RFCOMM)
sock.connect((host, port))
sock.send("hello!!")
from bluetooth import *socket = BluetoothSocket( RFCOMM )while True:    free_port = get_available_port( RFCOMM )    try:        socket.bind( ( "", free_port ) )        break    except BluetoothError:        print "couldn't bind to ", free_port# listen, accept, and the rest of the program...
from bluetooth import * from select import *
class MyDiscoverer(DeviceDiscoverer):
    def pre_inquiry(self):
        self.done = False
    def device_discovered(self, address, device_class, name):
        print "%s - %s" % (address, name)
    def inquiry_complete(self):
        self.done = True
d = MyDiscoverer()
d.find_devices(lookup_names = True)
while True:
    can_read, can_write, has_exc = select([d], [], [])
    if d in can_read:
        d.process_event()
    if d.done:
        break
If confused ...

- Can always go look at source ...
- on my linux machine,
  - /usr/lib/python2.3/site-packages/bluetooth.py
- look at class DeviceDiscoverer for the skeleton code.