ZeroConf and OSC

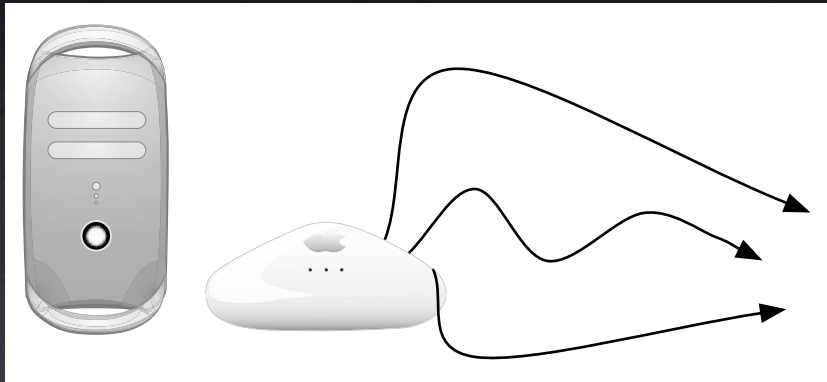(Or things to do with OSC when you are bored in Santa Barbara)

What is ZeroConf?

OSC and Rendezvous

```
OSCService.knownServices;

[ OSCService(SuperCollider, 10.0.2.1, 57110), OSCService(Occam, 10.0.2.1, 57117) ]

OSCService.knownServices.at(0).netAddr.sendMsg("/s_new", "ping", 1002, 0, 0, \freq, 120);
```

Use Scenario

Publishing

- Type — _osc._udp. (or _osc._tcp.)

- Name — SuperCollider

- Port — 57110

- Domain — local.

Rendezvous Code

```c
CFStringRef serviceType = 0;
switch (protocol)
{
    case kSCRendezvous_UDP:
        serviceType = CFSTR("_osc._udp.");
        break;
    case kSCRendezvous_TCP:
        serviceType = CFSTR("_osc._tcp.");
        break;
}


CFNetServiceRef netServiceRef =
    CFNetServiceCreate(NULL, // use default allocator
        CFSTR(""),           // use default domain
        serviceType,
        CFSTR("SuperCollider"),
        portNum);


CFNetServiceRegister(netServiceRef, NULL); // don't care about the error
```

Discovering

- request services of type _osc._udp.

- as needed, resolve the service

- once necessary information is received, stop resolving the service (but remember the info)

Demo — SC & Occam

URLs

- http://www.zeroconf.org/

- http://www.ietf.org/html.charters/zeroconf-charter.html

- http://developer.apple.com/macosx/rendezvous/index.html

- http://www.porchdogsoft.com/products/howl/

- http://www.dns-sd.org/