Project Rajio

A web radio based on distributed media storage.

聽說期末很爆炸(explosion~) 所以簡報就用極簡風

絕對不是因為懶



Requirements

- Python
 - eyeD3
 - gevent
- Node.js
 - Express
 - Socket.io
 - etc.















Architecture



webpage



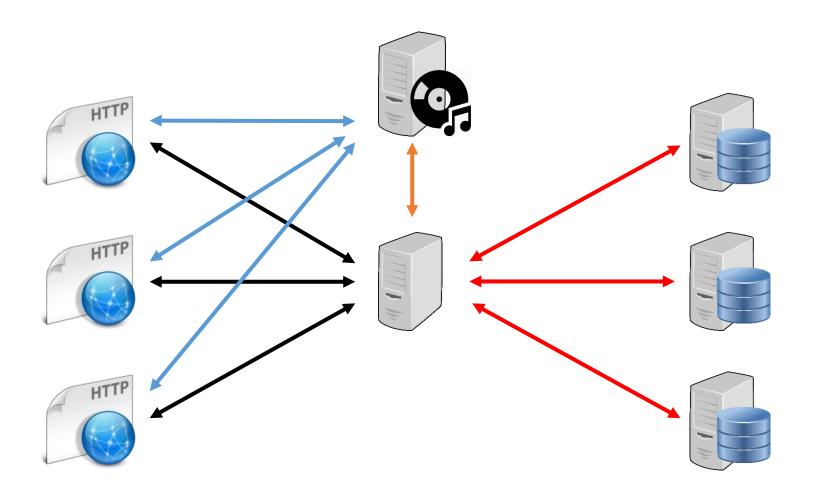
www server (master)



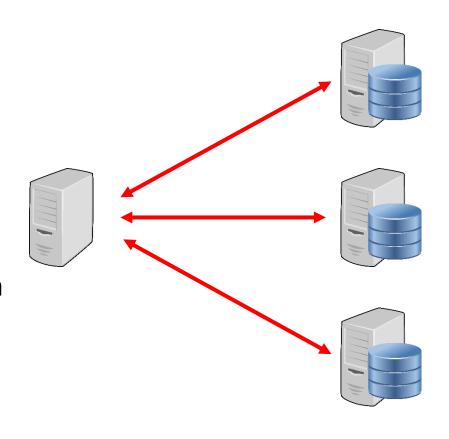
Song server (slave)

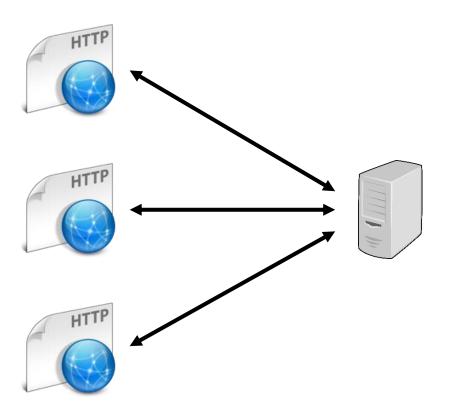


Streaming server

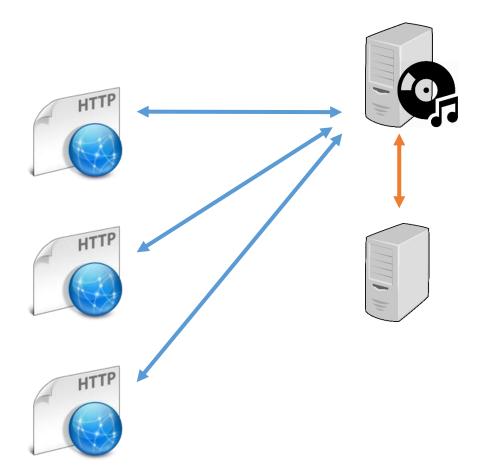


- Python
 - eyeD3
 - gevent / greenlet
 - encoding issue
- Node.js
 - net (TCP)
 - child_process.spawn
 - fetching snapshot
 - security issue
 - ip address mapping

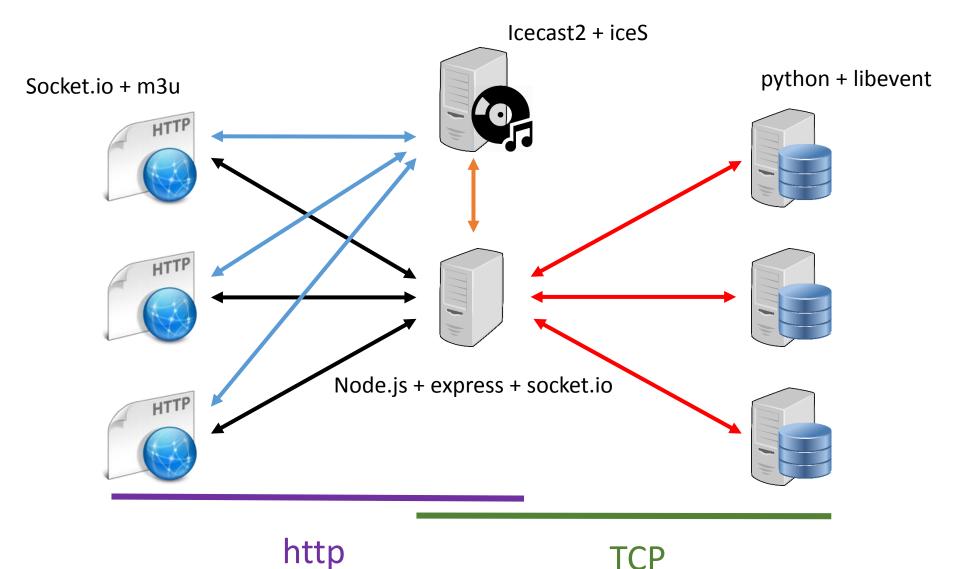




- Socket.io
 - websocket (http)
- Node.js
 - merge snapshot
 - resnap snapshot
 - Best matching



- Icecast2
 - Shoutcast
 - Ogg Vorbis
- IceS
 - mp3 lame
- HTML 5
 - Audio: m3u



Further more ...

- Broken pipe strategy
- Server down strategy enforcement
- Meta info search / filter
- Windows encoding issue
- Lyrics display (basic crawler completed)
- Covers display / Cover crawler
- Icecast2 current title encoding issue
- Bullet screen support
- Faster performance, smaller memory usage

Live Demo

