

INTERACTIVE MODEL FOR THE RAILROAD MUSEUM

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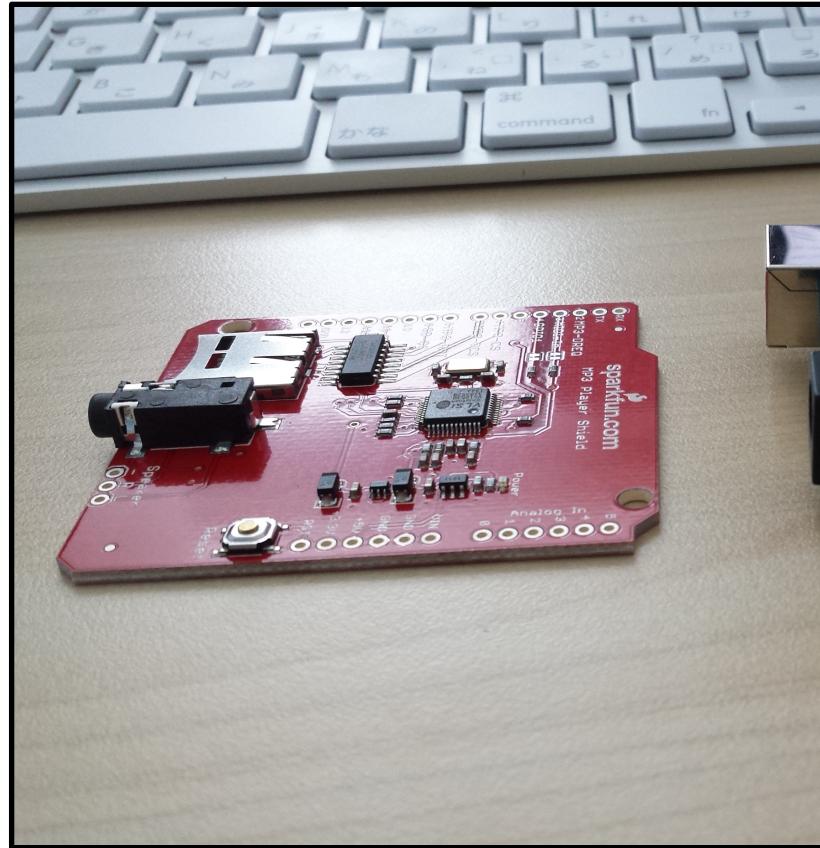
INTERACTIVE FEATURES

- California Tower
 - Control the sound so that it chimes once an hour (simulate the real one)
- Oregon Pavilion
 - Plays music that represents that of the building
- Botanical Garden
 - Control the lightning
- Trolley Terminal
 - Control the lightning
- Live Feed Webcam on the train or the model

MP3 SHIELD

To Do:

- Buy header
- Solder it onto the board



ETHERNET

Progress:

1. Able to connect to Dropbox link Chad provided and read the HTML code
 - <https://dl.dropboxusercontent.com/u/1011115/wireless.html>
 - However, Dropbox only allows Pro and Business users host website.

To Do:

1. Can't connect to the Google-hosted website (when connected, it says the website has been moved)
2. Set up server.

WHEN CONNECTED, HTML IS READ

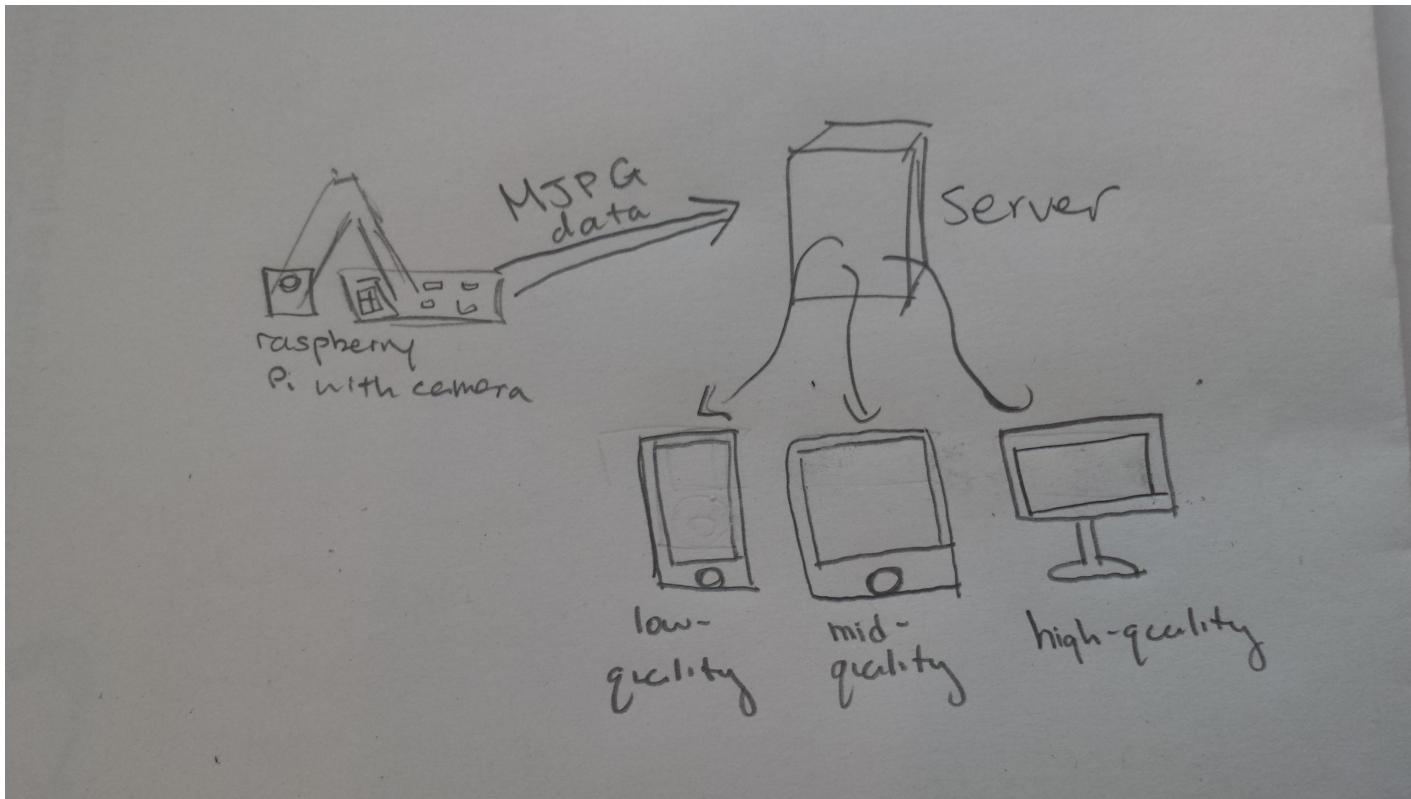
```
</html>disconnecting
connected
HTTP/1.1 200 OK
accept-ranges: bytes
cache-control: max-age=0
content-disposition: inline; filename="wireless.html"
Content-Type: text/html; charset=utf-8
Date: Tue, 08 Jul 2014 07:07:32 GMT
etag: 417739966n
pragma: public
Server: nginx
set-cookie: uc_session=vAznq3LfRLUQzTIEpYI6h0X2ArGcJLNAgqm2mR6LlvKgCkSsj5tUkpppdD0TYkyq; Domain=dropboxusercontent.com; Path=/; s
x-dropbox-request-id: f39480b125b283fb8b58a0a58ef8f63b
x-robots-tag: noindex,nofollow
x-server-response-time: 141
Content-Length: 1356
Connection: Close

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01//EN">
<html>
<head>
<meta name="viewport" content="width=480">
</head>
<body>
<div class="oc">
<div class="ic">
<form action="/" method="post">
<input type="hidden" name="%REDIRID%" value="%%PROTURI%%">
<input type="hidden" name="%MAGICID%" value="%%MAGICVAL%%">
<input type="hidden" name="%ANSWERID%" value="%%DECLINEVAL%%">
    <div class="fec" style="text-align: center">
        <p style="font: italic 40px verdana;">Join the Wi-Fi.<br />It's almost as fast as a Porsche.</p>
        <p style="font: 24px verdana;">Public Wi-Fi provided by <a style="color: #005DAB; text-decoration: none;" href="ht
    <input style="font: bold 40px verdana; border: 1px solid #FFFFFF; padding: 5px; width: 200px; padding:5px 15px; background-color: #F0F0F0; border-radius: 15px;" type="button" value="JOIN" />
</div>
</div>
</div>
<script>
function sb(val) {
    document.forms[0].%ANSWERID%.value = val;
    document.forms[0].submit();
}
</script>
</body>
</html>disconnecting
```

```
Send
base
}
}
// run
void loop()
{
    if(client.available())
    {
        char c = client.read();
        Serial.print(c);
        //if(client.find("apple"))
        //{
        //    Serial.println("true");
        //}
    }
    // if there are incoming bytes available
    // from the server, read them and print them:
    if (client.available()) {
        char c = client.read();
        Serial.print(c);
        //if(client.find("apple"))
        //{
        //    Serial.println("true");
        //}
    }
    // if the server's disconnected, stop the client:
    if (!client.connected()) {
        Serial.println();
        Serial.println("disconnecting.");
        client.stop();
        // do nothing forevermore:
        while(true);
    }
}

Done Saving.
Done saving.
Binary sketch size: 14,324 bytes (of a 32,256 byte maximum)
```

PROPOSED COLLABORATION



RASPBERRY PI

Two formats to streaming

1. RTMP

- Able to stream in to websites such as Ustream
- However, lag is more than 10 sec

2. MJPG

- Lag time is acceptable, but not the quality
- Proposed format for collaboration with Shimojo sensei's student

Collaboration with NICT and Osaka University

1. Stream MJPG to server

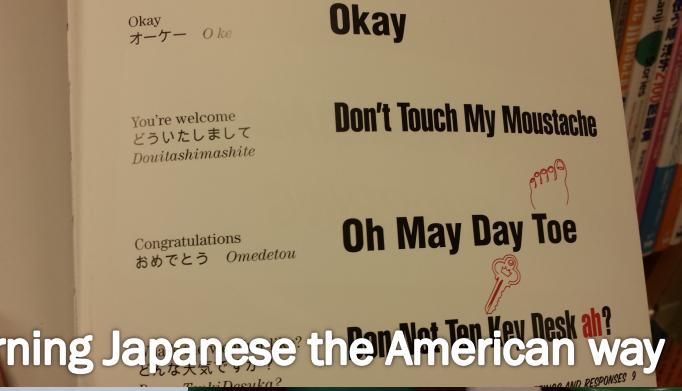
2. Server distribute different quality data depending on device (save battery)



Kobe Beef in Kobe
It literally melts in
your mouth.



Learning Japanese the American way



Kobe Port Tower

Ancestor of Takoyaki-
Akashiyaki

Popular Organic Café among Japanese