INTERACTIVE MODEL FOR THE RAILROAD MUSEUM

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Node JS Server

Arduino console (left):
```
0msg received
1msg received
0msg received
1msg received
0msg received
1msg received
0msg received
10msg received
msg received
1msg received
0msg received
10msg received
msg received
1msg received
0msg received
1msg received
0msg received
1msg received
0msg received
1msg received
0msg received
1msg received
01msg received
0msg received
10msg received
10msg received
msg received
10msg received
msg received
```

Arduino

TCP

1337

Socket IO

8090

Browser

Browser window:
```
node-session    .click() | jQuery    New Tab    SFEMP3Shield    天王寺のグルメ    Basic Japanese
file://localhost/Users/prime/Dropbox/toTurnOn.html

Tap to turn LIGHT on

Tap again to turn it off
```

Server terminal:
```
bpoc@bpocdev001:~/ap/node-session/socket/arduino$ node server-w-tcp.js
tcp server running on port 1337
web server running on http://localhost:8090
connections property is deprecated. Use getConnections() method
num of connections on port 1337: 1
received on tcp socket:1
received on tcp socket:0
received on tcp socket:1
received on tcp socket:0
received on tcp socket:1
received on tcp socket:1
received on tcp socket:0
received on tcp socket:0
received on tcp socket:0
received on tcp socket:1
received on tcp socket:0
```

data that server receives

COMPLETED:

1. Fixed Arduino to reconnect if disconnected
   - ECONNRESET error (TCP conversation abruptly closes)
2. Fixed Server so it doesn't crash when Arduino tries to connect
   - connections property is deprecated. Use getConnections() method
3. Fixed website so smartphone and such could operate it
4. Music shield is able to play sounds without computer (pre-set all the setting – the volume, the track, etc.)

TO FIX AND TO DO :

- Server is still unpredictable; sometimes other devices can connect

- Seems to be able to connect to one computer at a time (read response from one browser)

ACKNOWLEDGEMENTS

Takoyoki Party!

Tenjin Matsuri

Ueno Ninja Castle

Tsutenkaku