

# Building satoshis.place

(Part 1)

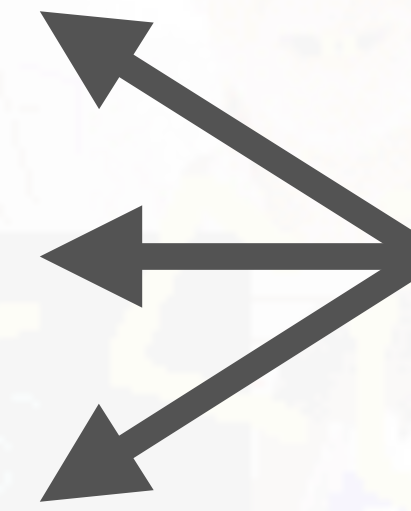




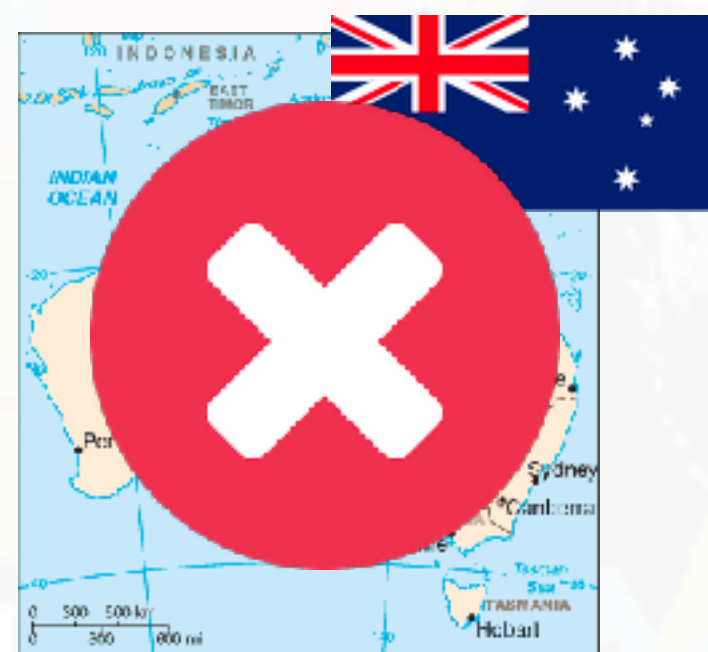
João

Lightning Koala

Koala



***Take your pick!***





**Transactions per second**





# Idea #1



Happy birthday Simon







PLAYCANVAS

# Demo



# Problems







## Idea #2





## more problems...



### **Pull Payments**

No ability to pull a payment from another user.



### **Rule Enforcement**

Authoritative server needed to dictate rules and prevent cheating.



**keep it simple**





**Send + Receive =**





**Send Only =**





# Microtransactions



# Reddit Place





# Million Dollar Homepage





# 1 satoshi per pixel



**\$0.00006498**  
**per pixel**

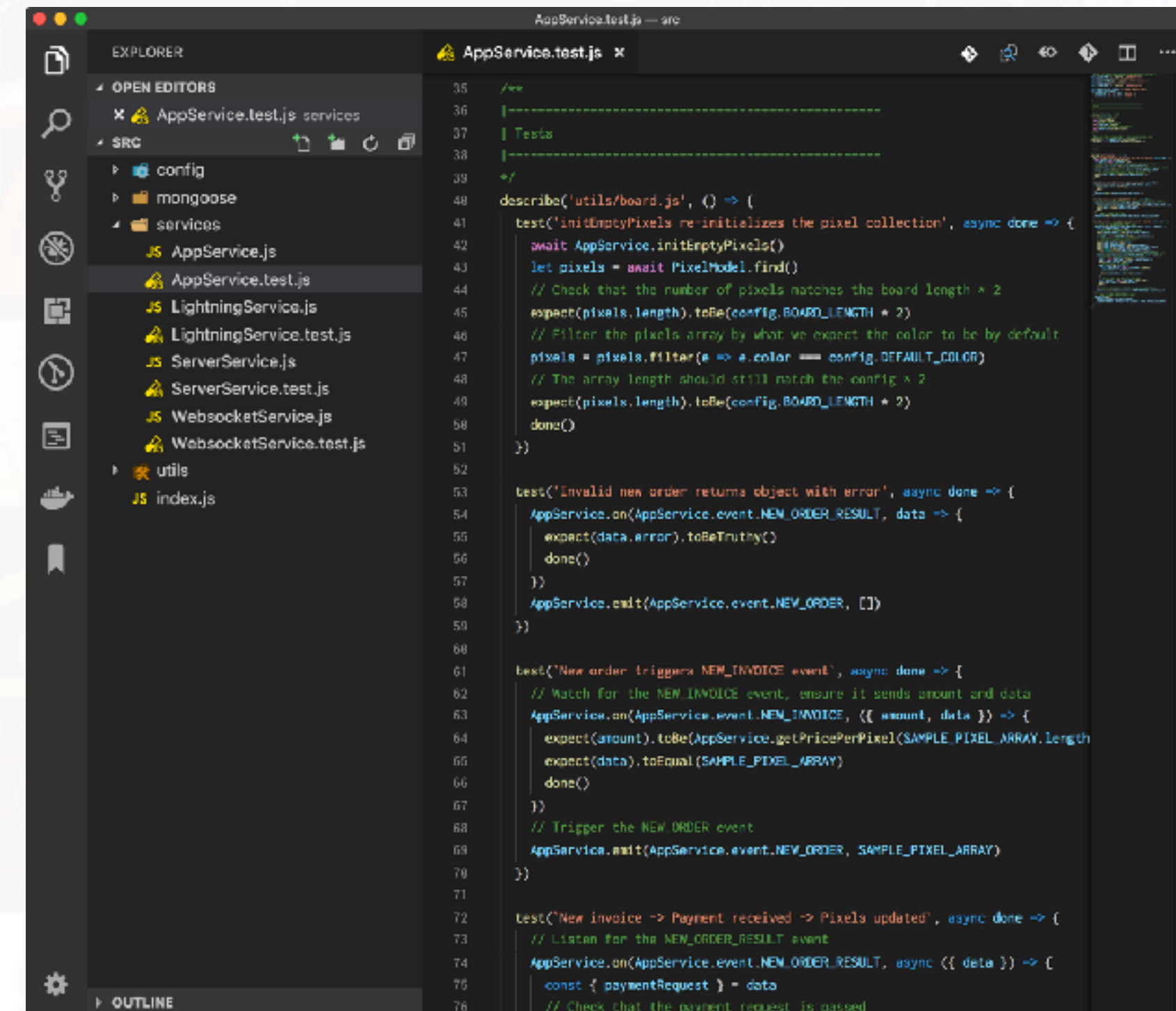


**1 million pixels**  
**\$64.98**



# Backend

Flesh out the backend using  
unit tests to get a working  
prototype.



The screenshot shows the VS Code interface. On the left, the Explorer sidebar displays the project structure with folders 'config', 'mongoose', 'services', and 'utils'. The 'services' folder is expanded, showing files like 'AppService.js', 'AppService.test.js', 'LightningService.js', 'LightningService.test.js', 'ServerService.js', 'ServerService.test.js', 'WebsocketService.js', and 'WebsocketService.test.js'. The main editor area shows the content of 'AppService.test.js', which contains several Jest unit tests for the AppService module, including tests for initialization, pixel collection, and event handling.

```
root@892c4da28a48:/app# yarn test
yarn run v1.6.0
$ jest
PASS src/services/AppService.test.js
PASS src/mongoose/order.test.js
PASS src/services/ServerService.test.js
PASS src/services/LightningService.test.js
PASS src/services/WebsocketService.test.js
PASS src/utils/validation.test.js
```

```
Test Suites: 6 passed, 6 total
Tests:       10 passed, 10 total
Snapshots:   0 total
Time:        4.054s
Ran all test suites.
```



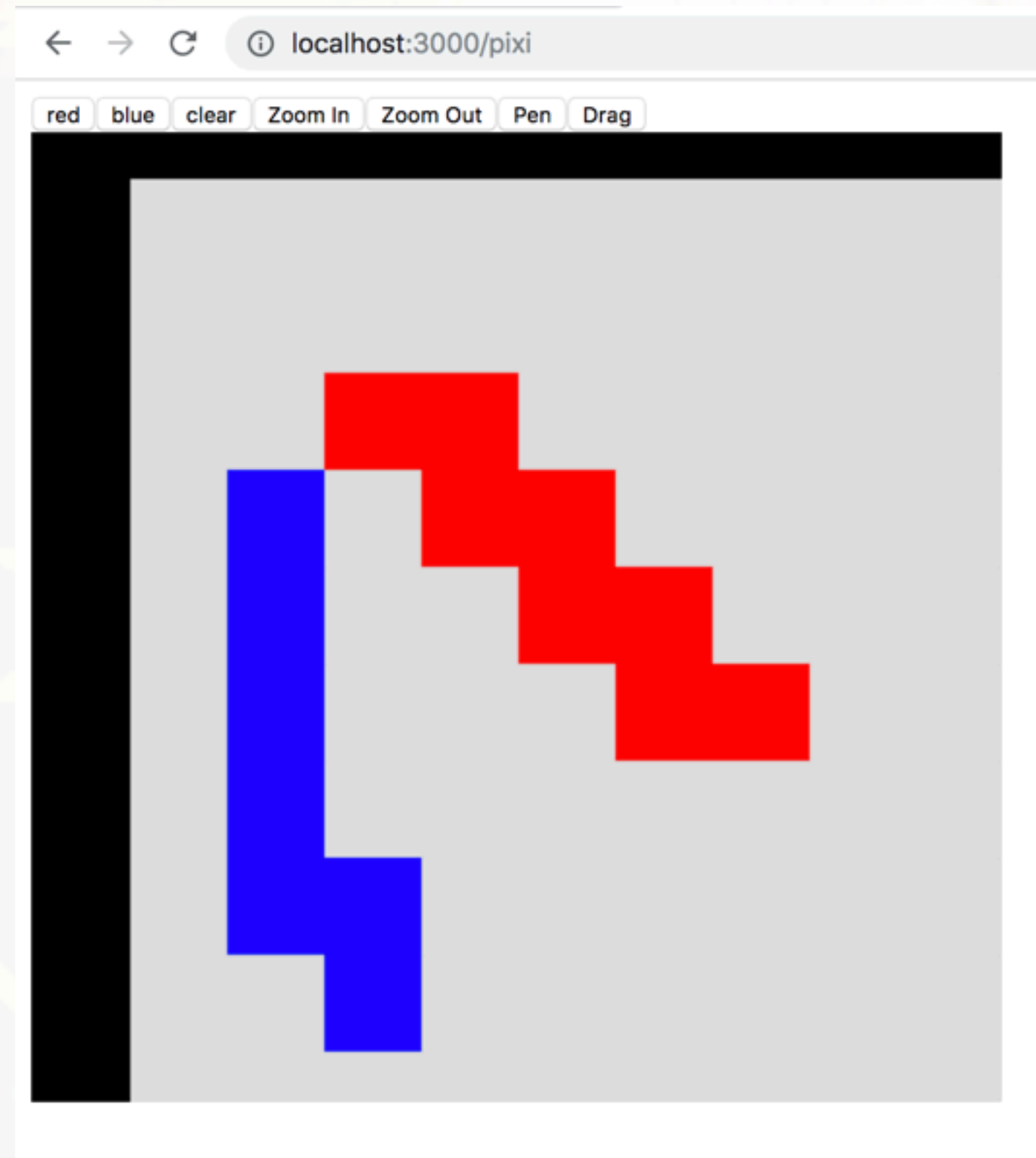
# Frontend

**PixiJS** v4



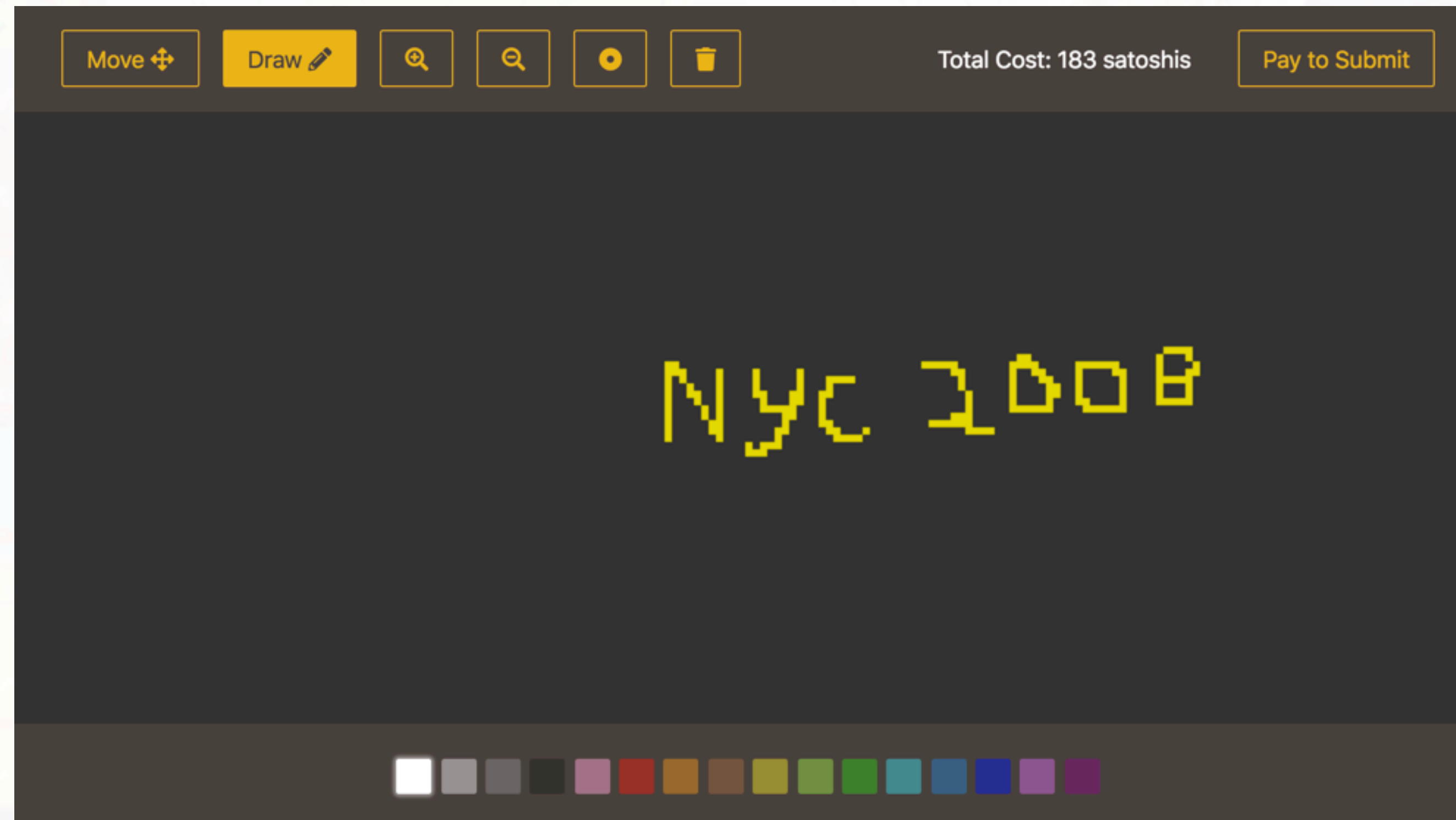


# Frontend



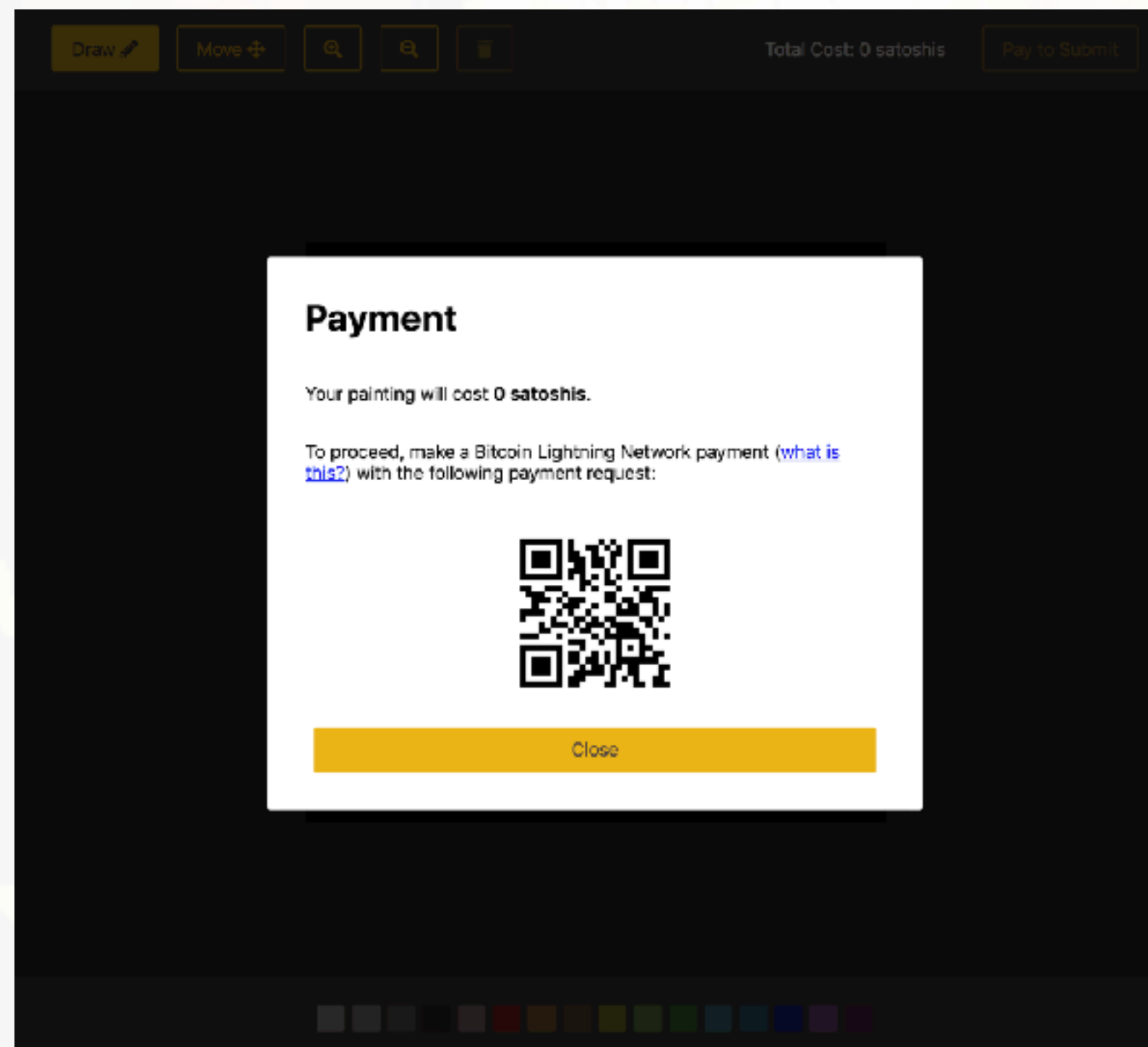


# Frontend



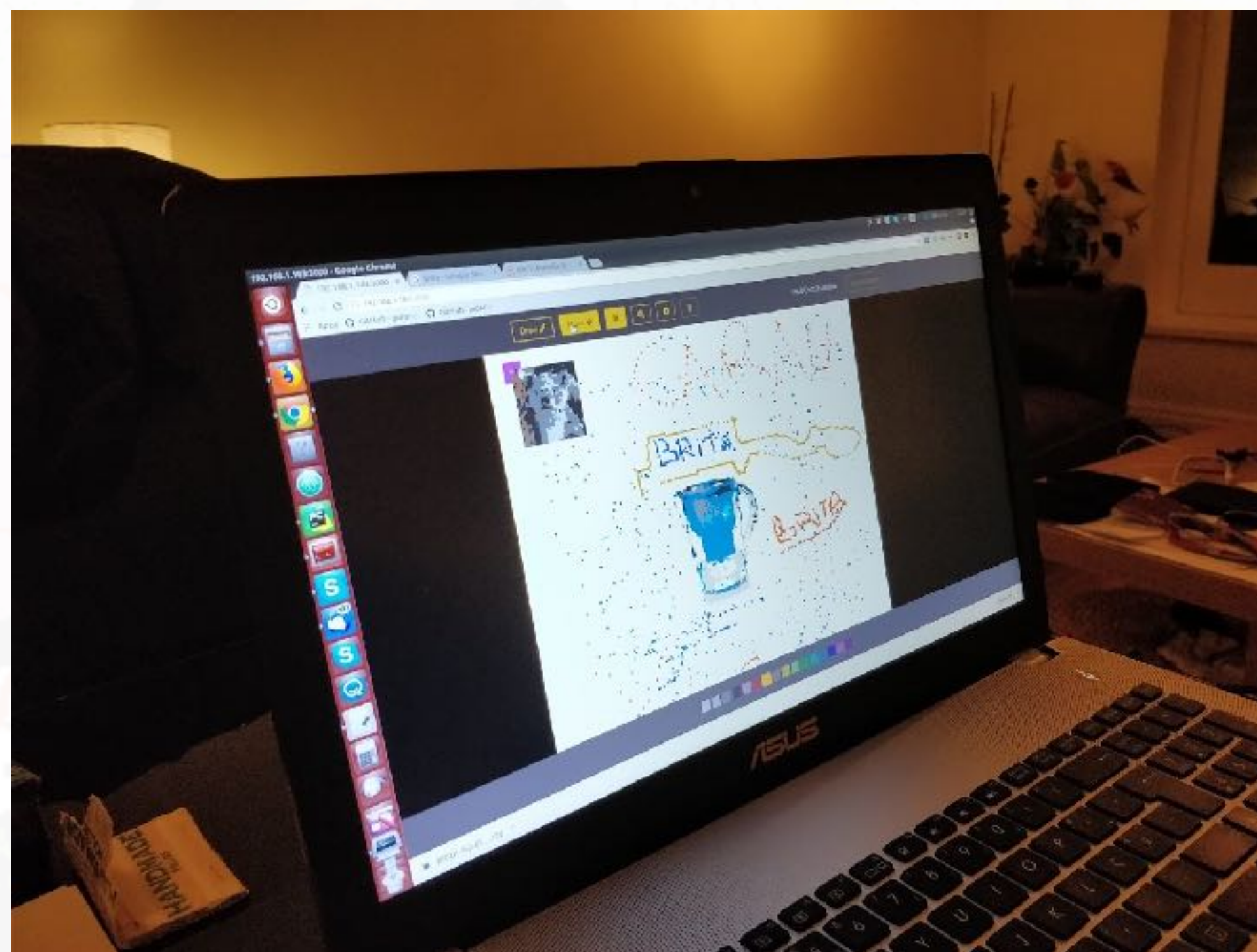


# Frontend



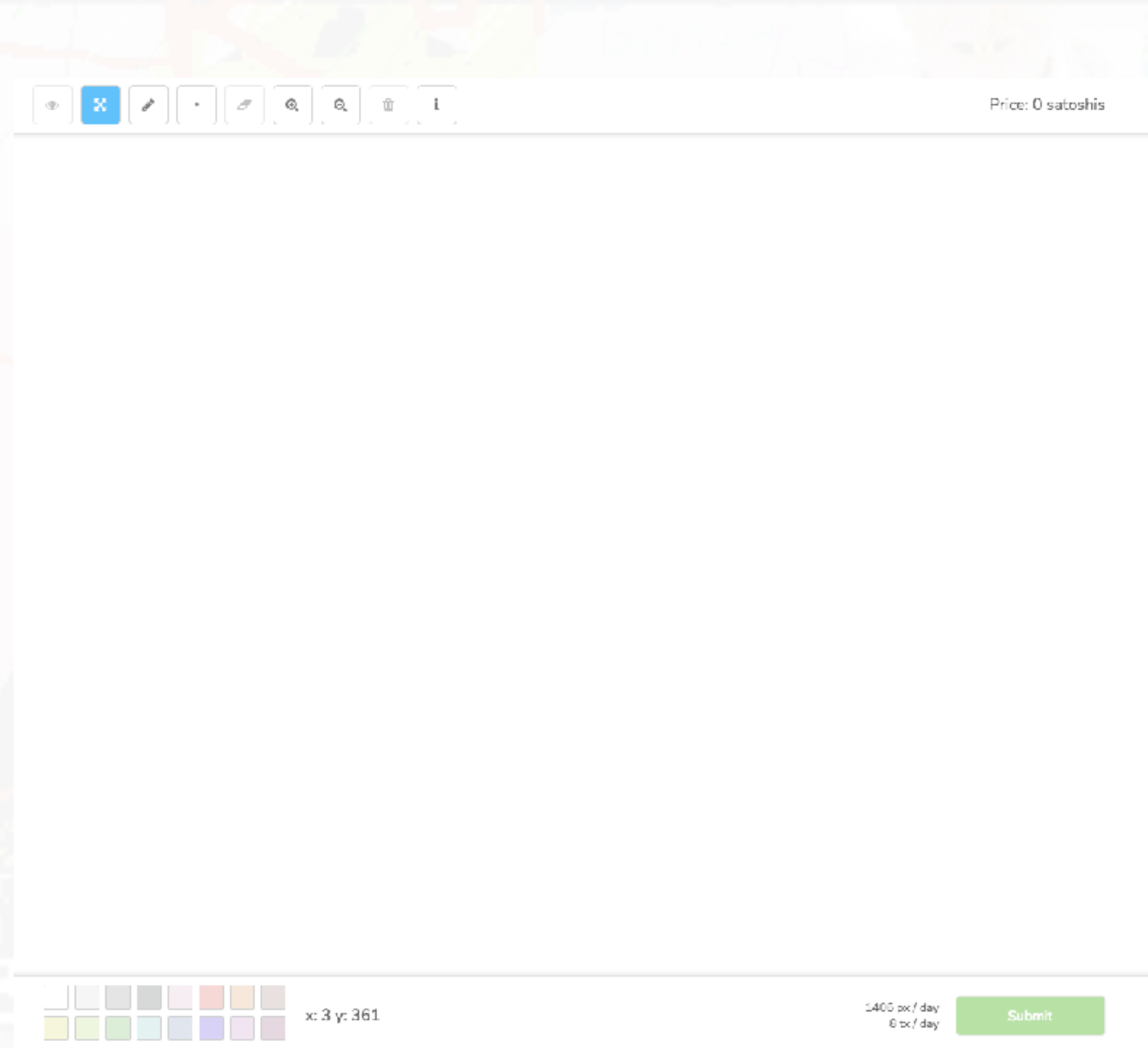


# Frontend



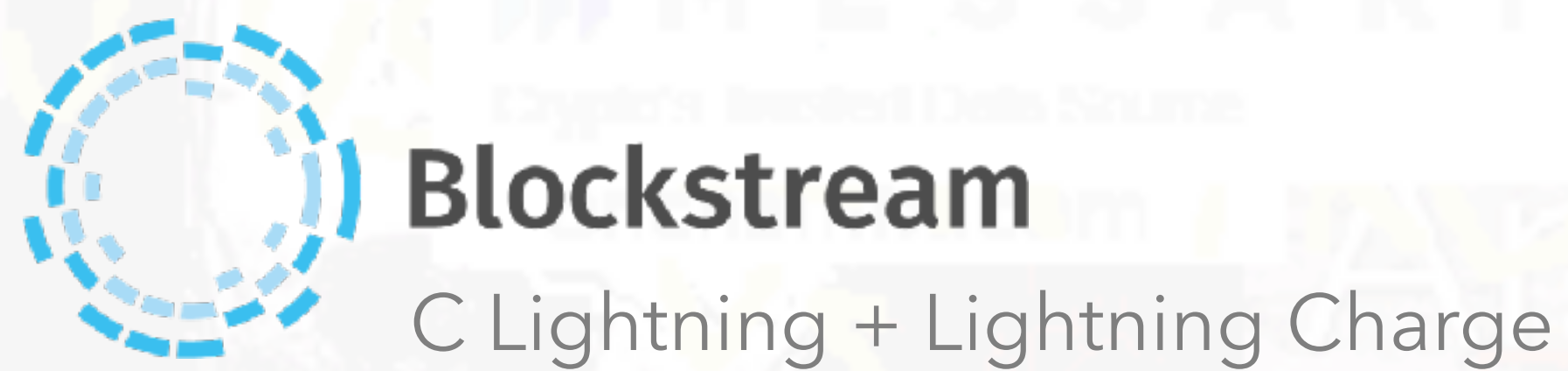


# Frontend





# Lightning Node





# Lightning Node (Testnet)



Google Cloud Platform



**Scaleway**



# Lightning Node (Mainnet)



## **ODROID-XU4 (+ active cooling)**

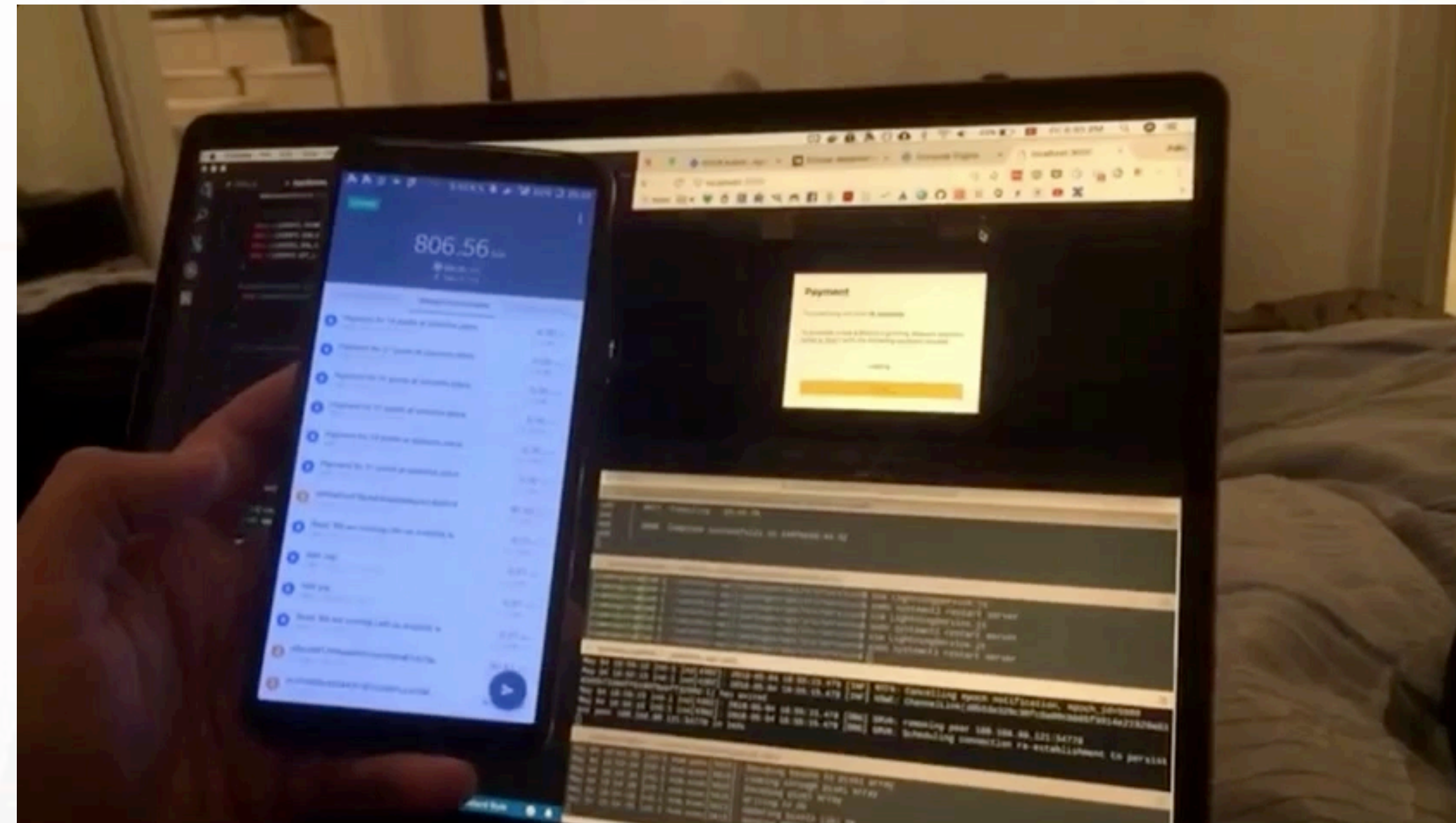
2GB LPDDR3 RAM + 1GB ZRAM

2TB Seagate SSD

64GB Micro SD Card



# First Testnet Payment!





# More Optimizations



# Launch

## May 27th 2018





Happy birthday



Price: 0 satoshis



WEARSMYLIBERTY.COM

#RECKLESS



FULMO.ORG



x: 3 y: 361

1400 px/day  
6 tx/day

Submit



# Happy birthday June 8th 2017



↑  
629  
↓

Posted by u/skyfox\_uk 4 months ago

**Paid 1 satoshi to paint 1 pixel == lightning is awesome!** nsfw

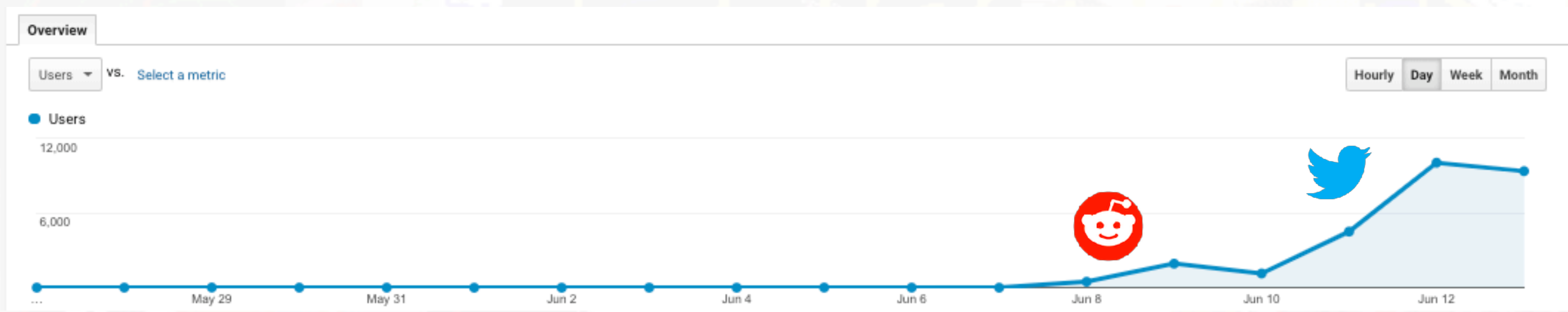
[satoshis.place/](https://satoshis.place/)

217 Comments Share Save ...

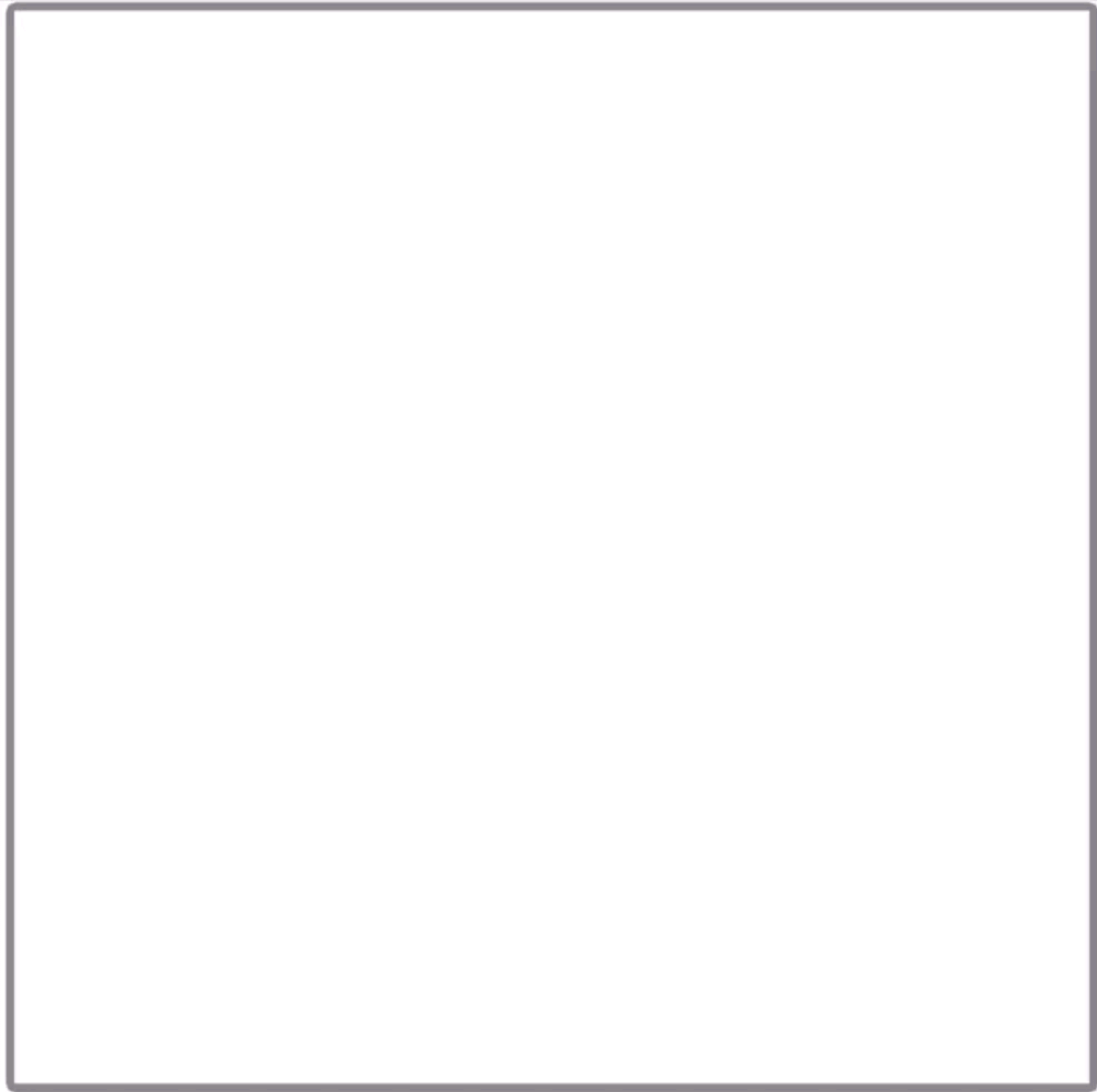
96% Upvoted



Happy birthday Simon







2018-05-24 21:00:00 ■

0.00K  
PIXELS



**Questions?**