

CODE on the BEACH



Music by @electrobro: <https://soundcloud.com/electrobro>

OZMO

CODE on the BEACH

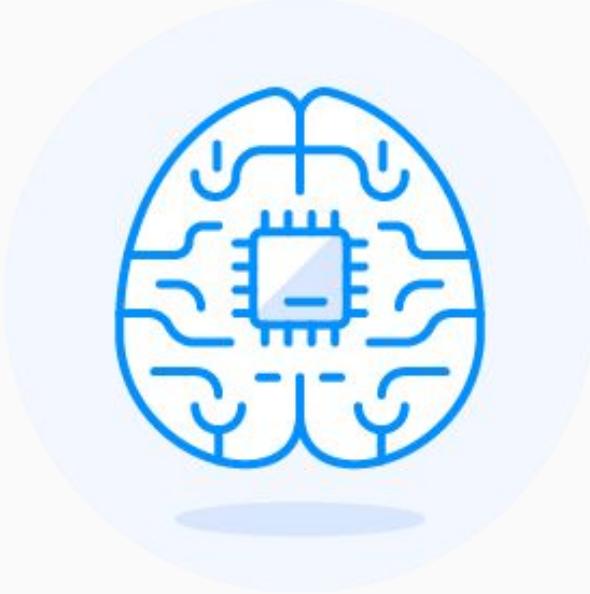


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OZMO



Why talk about a christmas tree now?



- Innovator
- @davidbates
- Dlbates.com or   .ws



I thought there would be talk about christmas trees?



**We are bored
so please get to the point**

Let us begin



Where it all began



PRETTY PRETTY PLEASE

girak.net

Sometimes it takes guts



I've been doing Halloween for awhile



ModeaTree? I thought you worked for Ozmo :)



Sylvia Yoncich @HaikuSylvie · 4 Dec 2015

He is disappointed that this tree is not black.



test (24).webm

Why does it not listen MOMMY!



Brian Bimschleger @bimschleger · 30 Nov 2015

Replying to @colinlord

@colinlord @wl_hunter #modeatree red

Let's see how this works...:)



3



Chris Rieger @ChrisRieger · 3 Dec 2015

I wish the #modeatree was orange.



2



Michael Kessler @I_AM_META · 25 Nov 2015

@modea @davidbates @modeatree green



1



Brian Walter @brianwalter · 4 Dec 2015

Replying to @brianwalter
#ModeaTree blue



Claudia Lopez @Flaca216 · 4 Dec 2015

Pink #modeatree



Brian Walter @brianwalter · 4 Dec 2015

Replying to @brianwalter
#ModeaTree brown



Chris Mitchell @cmitch419 · 18 Dec 2015

#modeatree purple



NextThreeDays.com @Next3Days · 11 Dec 2015

I want turn the #modeatree maroon.



Ricky Ward 🇺🇸 @Rickyward12 · 9 Dec 2015

We at UPS would like the #modeatree to turn yellow



Jonathan Roberts and 1 other liked

Modea @Modea · 7 Dec 2015

Tweet at our tree to see it change colors! For example: #modeatree yellow.

Watch live here: mod.cm/1XPjpnO



1



5



It sparked some color wars



I then built a stranger things wall



That's when I learned about WS2812B's



DropMix

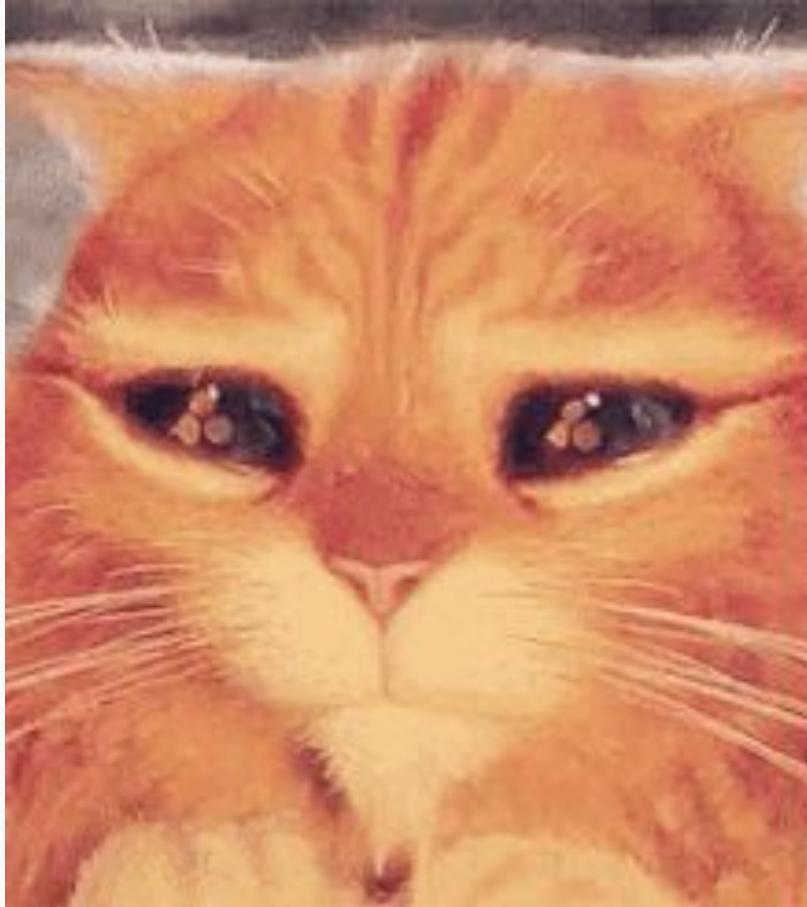
DROP MIX™



what is a Stranger Things wall?

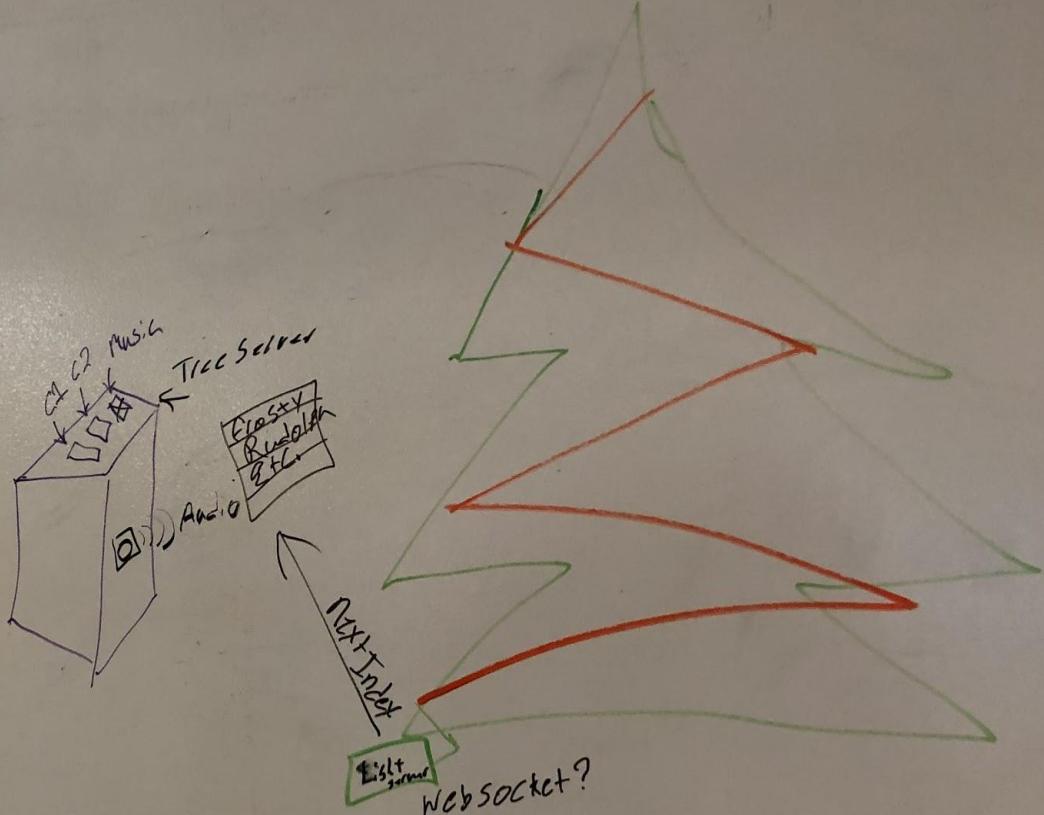
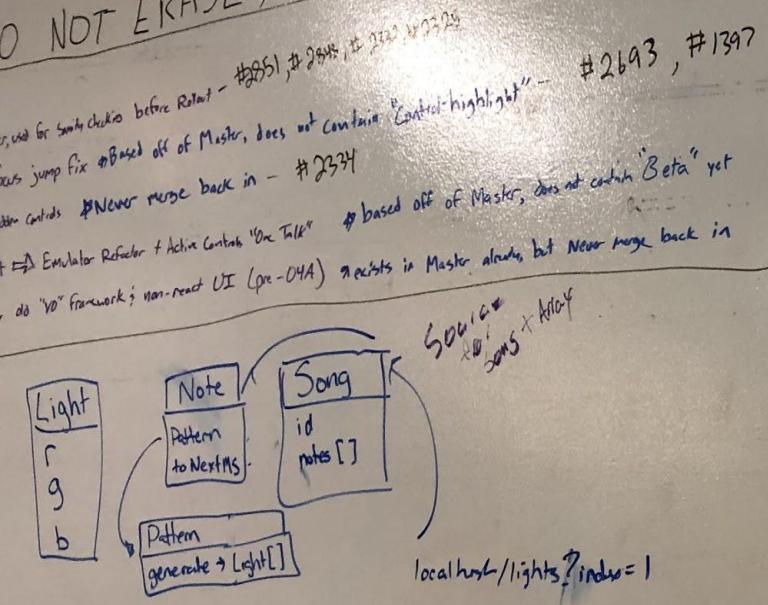


So we got to prototyping.



Can Haz WS2812B's and a couple of color sensors please?

O NOT ERASE)



We had a war-room meeting



Then we got to building.



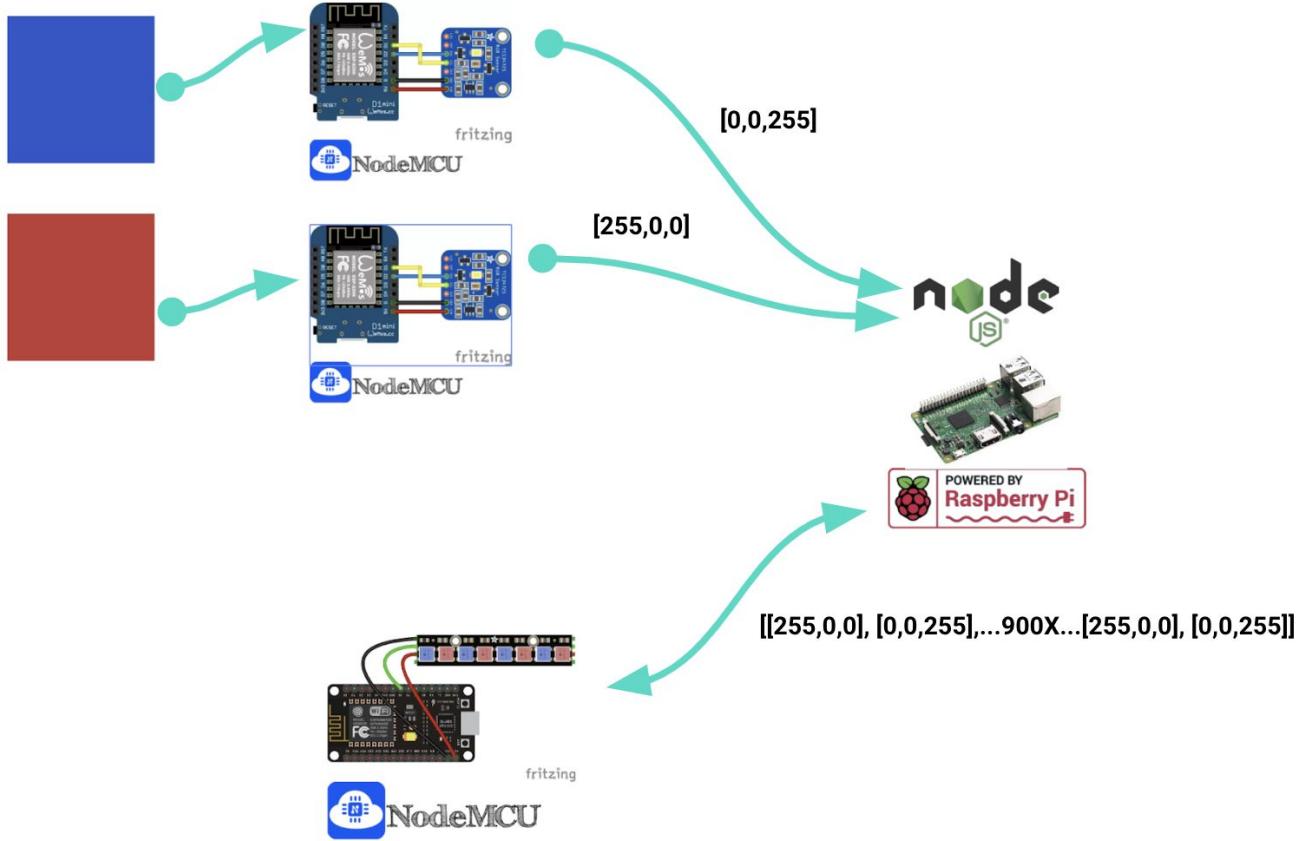
#ASUPERBILLOVE

We worked on the coding



(SCREAMS)

We worked on the hardware



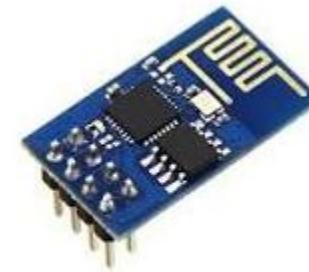
Eventually we wound up with this:

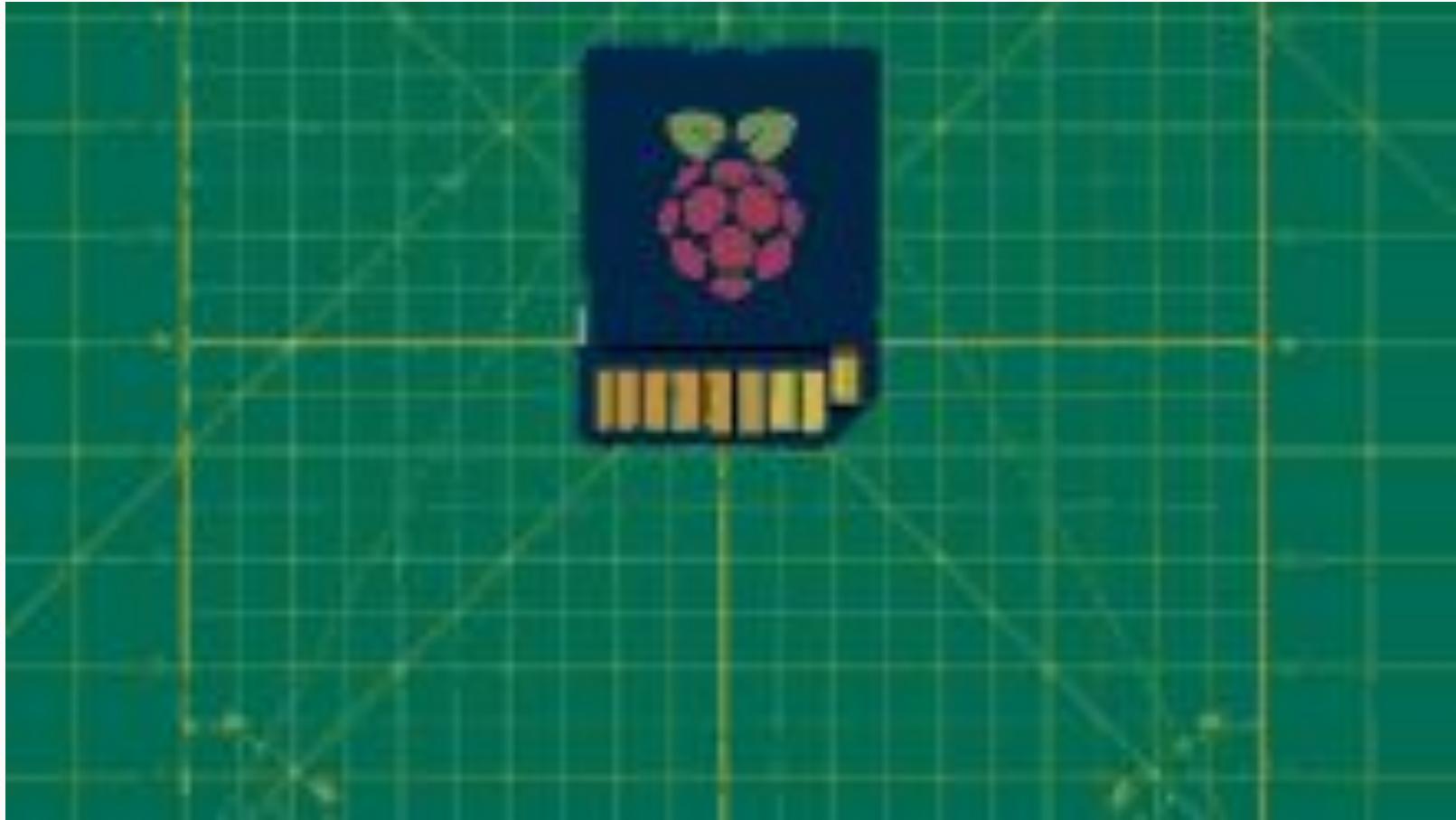


But it was too slow!

80 MHZ

The latest version of NodeMCU has the ability to adjust the ESP8266's CPU frequency. The default speed for the ESP8266 is **80 MHZ**. NodeMCU now lets you toggle, at run-time, whether the CPU should run at the default **80 MHZ** or twice as fast at **160 MHZ**.

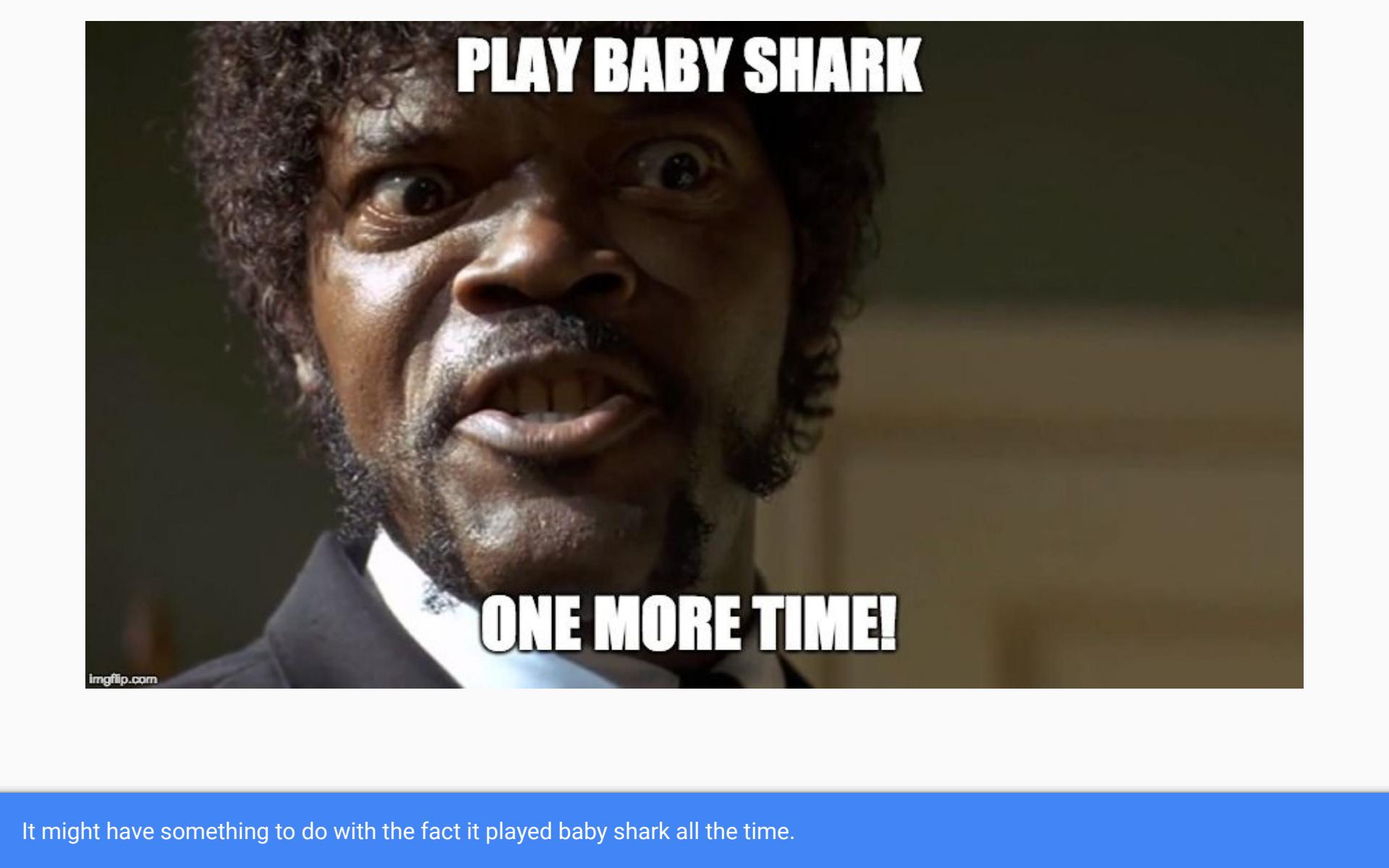




Raspberry Pi to the rescue



The end result!

A close-up photograph of Samuel L. Jackson's face. He has a shocked or surprised expression, with wide eyes and a slightly open mouth. His skin tone is dark, and he has curly hair and a beard. The background is blurred.

PLAY BABY SHARK

ONE MORE TIME!

imgflip.com

It might have something to do with the fact it played baby shark all the time.



Downtown Blacksburg @dtblacksburg · 23 Dec 2018

Congratulations to our winning Holiday **Tree** Designers. You can check out the beautiful **trees** at Kent Square though January 4, 2019.

1st Place: OZMO

2nd Place: Energy Check

3rd Place: Montgomery County Christmas Store



WE WON!





Any sufficiently advanced
technology is
indistinguishable from magic.

Arthur C. Clarke







So how do you convince your boss into letting you build stuff like this?

Three questions to successfully convince your boss to let you build crazy things

How will this increase your knowledge

Does it involve a service, library, language, or architecture you'd like more experience with?

How does this relate to work

What is the end goal of the project? How will the education be applied

Are there fringe benefits

- Working with another team to strengthen the ties
- Local company recognition

2019

- What will You create?
- Who will You help?
- How will You make the world better?

