# it's borked

programming was a mistake

#### # whoami

- software / appsec engineering (-ish?)
- infosec (not-so-ish)
- on the side?
  - studies, communities, ctf's, conferences
- I do stupid (fun?) things
- I am not that swiss maia (get bingled)





# # surely it's not all borked



# # surely it's not all borked

 if we can trace back a lot of programming design patterns across many languages to "Structured Programming", the 1972 book written by Dahl, Dijkstra and Hoare

then yeah

# # what's with the title, Maya?

- been programming for about 9 years now
  - python, c, js, ts, scala, java, swift, golang, dart, php
  - + a bunch of frameworks/libs/dbms'
- and yet, I am woefully underqualified to talk about anything
- (but I can rant, and I will)

# # python

- fun interpreted language, very unquirky
- except the lack of typing (like seriously, type hints were added in 3.9)
- it's slooooow

- pip this, pip that (everything is a package)
- multi-threading? sure

# #python

- venv my beloved
  - (I'm cheating on you with Poetry)
- list comprehension is really really fun to work with

### #python

```
return [[reduce(lambda x, y: x ^ y,
    [gf_multiplication_7(a, b) for a, b in
    zip(fixed_matrix[i],
    transpose_square_matrix(matrix=matrix)[j])]) for j
    in range(size)] for i in range(size)]
```

# #python

- venv my beloved
  - (I'm cheating on you with Poetry)
- list comprehension is really really fun to work with

testing! it exists

rated top language to build an API with (not really)

# #php

the easiest language to hate

untyped by default

• effectively three semantics in a trenchcoat

The reason for this is that PHP is a bit of a mongrel of multiple languages, its procedural side being influenced largely by C (underscores), and its OOP side largely by Java (camelCase).

# #php

- the dubious honor of being trashed by its creator
  - "PHP 8 is significantly better because it contains a lot less of my code"
- if you really want "the full Monty" of a rant, check eevee's blog:
  - https://eev.ee/blog/2012/04/09/php-a-fractal-of-bad-design/

# #java

runs on 3 billion devices ( Java card)

- fully cross-OS environment
  - oh wait I have to ship a VM too?
- garbage collection can be finicky

• the dreaded existence of static

# #java (parenthesis)

• EU Commission shenanigans for automated public transportation

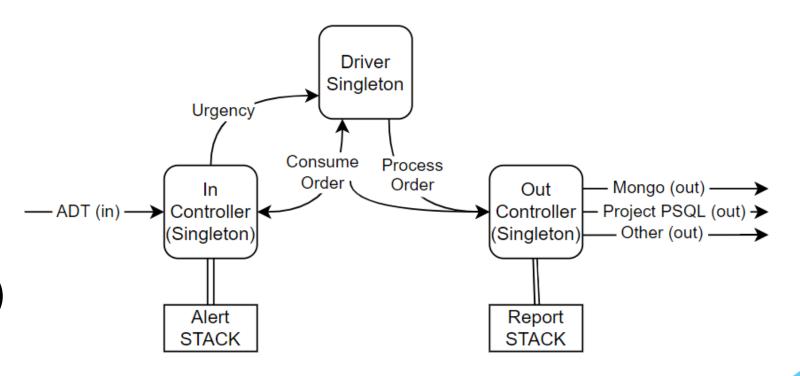
a bit of context

• "It has to be quick! I know, let's dockerize 15 different Java components and hope for sub-1ms response times!"

• I worked on something called the Risk Assessment Engine

# #java (parenthesis)

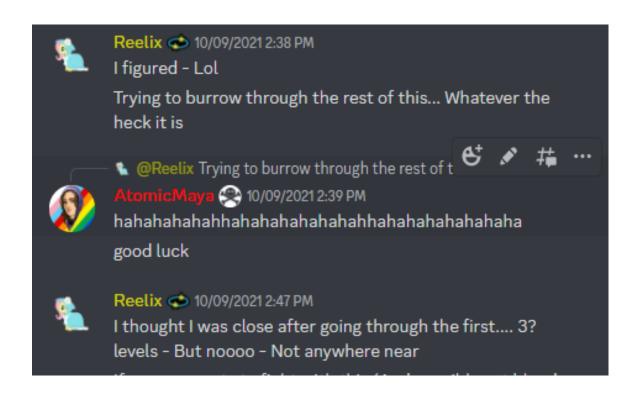
- main issues
  - alert queueing
  - alert batch processing
  - fully asynchronous
- (all of these are in their own threads btw)

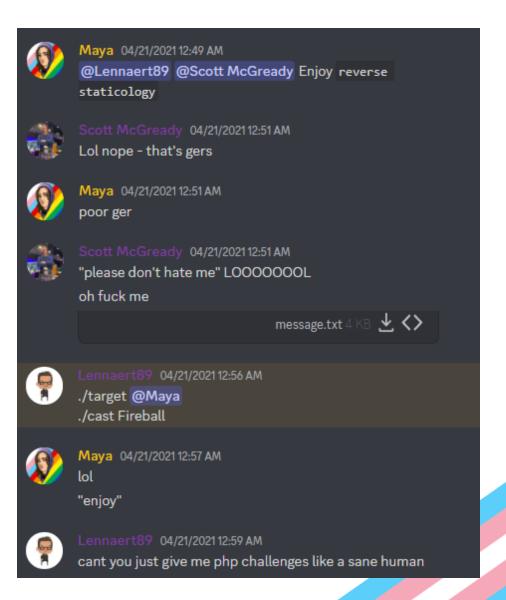


# #javascript

- untyped
- used everywhere a browser is
  - oh but wait node means running raw on servers too
- super versatile (yay npm)
- no one should have to deal with my javascript
  - (although if you want, uhhhh, DM me)
  - I have great user reviews

### #javascript





# #javascript

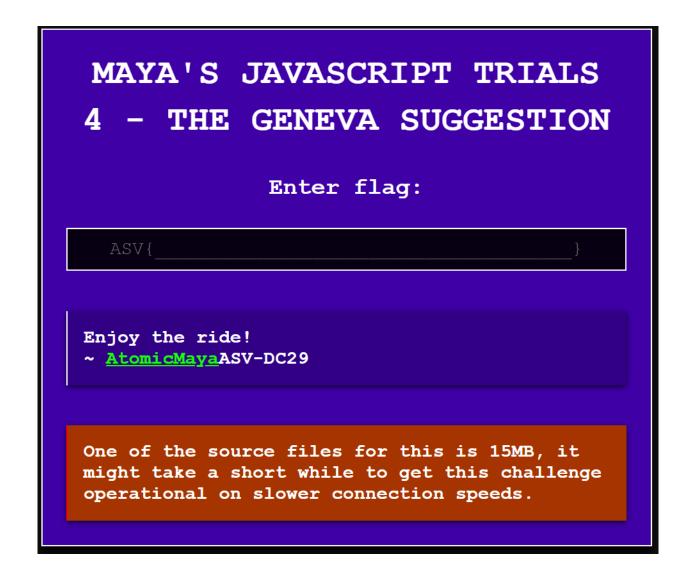
@Maya uhhhh @Scott McGready for no other reason than to put it in a slide what's your op

Scott McGready Yesterday at 6:55 PM

Spooky fucky wucky nonsense that is the visual equivalent of the output of a

Spooky fucky wucky nonsense that is the visual equivalent of the output of a typewriter being kicked down the stairs... but it works

# #javascript (or rather JSFUCK)



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### #javascript (or rather JSFUCK)

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((0, ... \pm) = )[]['pop']['constructor']('const_=[0xf4,0x39,0xd1,0xc0,0x55,0x84,0x36,0x28,0xd7,0x2a,0xb9,0x93,0x2a,0x18,0xb1)]
0x7d,0xe4,0xab,0xf0,0x23,0x53,0x24,0x5c,0x2a,0x42,0xf8,0x0e,0x26,0xfc,0xd4,0x5c,0xc1,0x71,0xef,0xa9,0x82,0x3d,0x7b,0x49,0
get__s=(__s_n)=>__s_n.map(x=>[0x63,0x7C,0x77,0x7B,0xF2,0x6B,0x6F,0xC5,0x30,0x01,0x67,0x2B,0xFE,0xD7,0xAB,0x76,0xCA,
0x82,0xC9,0x7D,0xFA,0x59,0x47,0xF0,0xAD,0xD4,0xA2,0xAF,0x9C,0xA4,0x72,0xC0,0xB7,0xFD,0x93,0x26,0x36,0x3F,0xF7,0xCC,0x34,0
0xF1,0x71,0xD8,0x31,0x15,0x04,0xC7,0x23,0xC3,0x18,0x96,0x05,0x9A,0x07,0x12,0x80,0xE2,0xEB,0x27,0xB2,0x75,0x09,0x83,0x2C,0
0x6E,0x5A,0xA0,0x52,0x3B,0xD6,0xB3,0x29,0xE3,0x2F,0x84,0x53,0xD1,0x00,0xED,0x20,0xFC,0xB1,0x5B,0x6A,0xCB,0xBE,0x39,0x4A,0
0xCF,0xD0,0xEF,0xAA,0xFB,0x43,0x4D,0x33,0x85,0x45,0xF9,0x02,0x7F,0x50,0x3C,0x9F,0xA8,0x51,0xA3,0x40,0x8F,0x92,0x9D,0x38,0
0xB6,0xDA,0x21,0x10,0xFF,0xF3,0xD2,0xCD,0x0C,0x13,0xEC,0x5F,0x97,0x44,0x17,0xC4,0xA7,0x7E,0x3D,0x64,0x5D,0x19,0x73,0x60,0
0xDC,0x22,0x2A,0x90,0x88,0x46,0xEE,0xB8,0x14,0xDE,0x5E,0x0B,0xDB,0xE0,0x32,0x3A,0x0A,0x49,0x06,0x24,0x5C,0xC2,0xD3,0xAC,0
0x95,0xE4,0x79,0xE7,0xC8,0x37,0x6D,0x8D,0xD5,0x4E,0xA9,0x6C,0x56,0xF4,0xEA,0x65,0x7A,0xAE,0x08,0xBA,0x78,0x25,0x2E,0x1C,0
0xC6,0xE8,0xDD,0x74,0x1F,0x4B,0xBD,0x8B,0x8A,0x70,0x3E,0xB5,0x66,0x48,0x03,0xF6,0x0E,0x61,0x35,0x57,0xB9,0x86,0xC1,0x1D,0
0xF8,0x98,0x11,0x69,0xD9,0x8E,0x94,0x9B,0x1E,0x87,0xE9,0xCE,0x55,0x28,0xDF,0x8C,0xA1,0x89,0x0D,0xBF,0xE6,0x42,0x68,0x41,0
0x0F,0xB0,0x54,0xBB,0x16][x];u=(u m)=>Array.from(u m).map(u x=>u x.charCodeAt(0));e=(e m)=>{e k=[}
0xAC,0x46,0x4C,0x41,0x47,0x7B,0x54,0x48,0x31,0x24,0x5F,0x31,0x24,0x5F,0x42,0x31,0x54,0x5F,0x54,0x34,0x4E,0x47,0x30,0x7D];
e_gfm=((bm_bl)=>{bm_n=[];for(bm_j=0;bm_j<4;bm_j++){bm_n.push([]);for(bm_i=0;bm_i<4;bm_i++)
bm n[bm j].push(bm bl[bm i*4+bm j]);};return bm n})([0x02,0x01,0x01,0x03,0x03,0x02,0x01,0x01,0x01,0x03,0x02,0x01,
0x01,0x01,0x03,0x02]);e_sk=((gsk_k)=>{gsk_N=((n_k)=>[4,6,8][n_k.length*2/16-2])(gsk_k);gsk_K=((sk_k)=>{
sk bl=[];for(sk i=0;sk i<sk k.length/4;sk i++){sk bl.push(sk k.slice(sk i*4,(sk i+1)*4))};return sk bl})(gsk k);
gsk_W=[];for(gsk_i=0;gsk_i<(((r_k)=>[10,12,14][r_k.length*2/16-2])(gsk_k)+1)*4;gsk_i++){gsk_W.push([]);(gsk_i<gsk_N)?
gsk W[gsk W.length-1]=gsk K[gsk i].slice():((gsk i>=gsk N&&gsk i%gsk N==0)?gsk W[gsk W.length-1]=((...xr v)=>{xr n=
xr_v[0].slice();for(xr_i=1;xr_i<xr_v.length;xr_i++){for(xr_j=0;xr_j<xr_v[xr_i].length;xr_j++){xr_n[xr_j]^=
xr_v[xr_i][xr_j];}};return xr_n})(gsk_W[gsk_i-gsk_N],get__s(((sk_n,sk_1)=>(sk_1?[sk_n[1],sk_n[2],sk_n[3],sk_n[0]]:
[sk n[3],sk n[0],sk n[1],sk n[2]]))(gsk W[gsk i-1].slice(),true)), ((rcon i)=>[[0x00,0x01,0x02,0x04,0x08,0x10,0x20,0x40,
0x80,0x1B,0x36][rcon i],0x00,0x00,0x00])((gsk i/gsk N)|0)).slice():((gsk i>=gsk N&&gsk i%4==0)?gsk W[gsk W.length-1]=
```

### I could also talk about Golang

but it's really cool though

it is garbage-collected but it can be wonky

dealing with panic's is a really wild approach

#### I could also talk about Rust

but I don't want to get stabbed

- my only issue is how it handles JSON, but ¬\\_(ツ)\_/¬
  - (I know it's not designed for it)
- crabs are cool