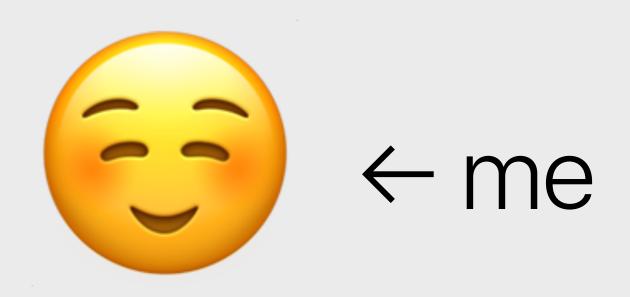
is my train fucked.com

Special requests? (do you need audio, a place to hang a green screen, or..?)

Only that I can say the word "fuck" a lot 🗐



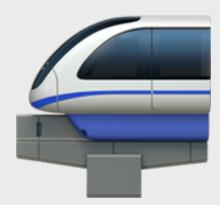


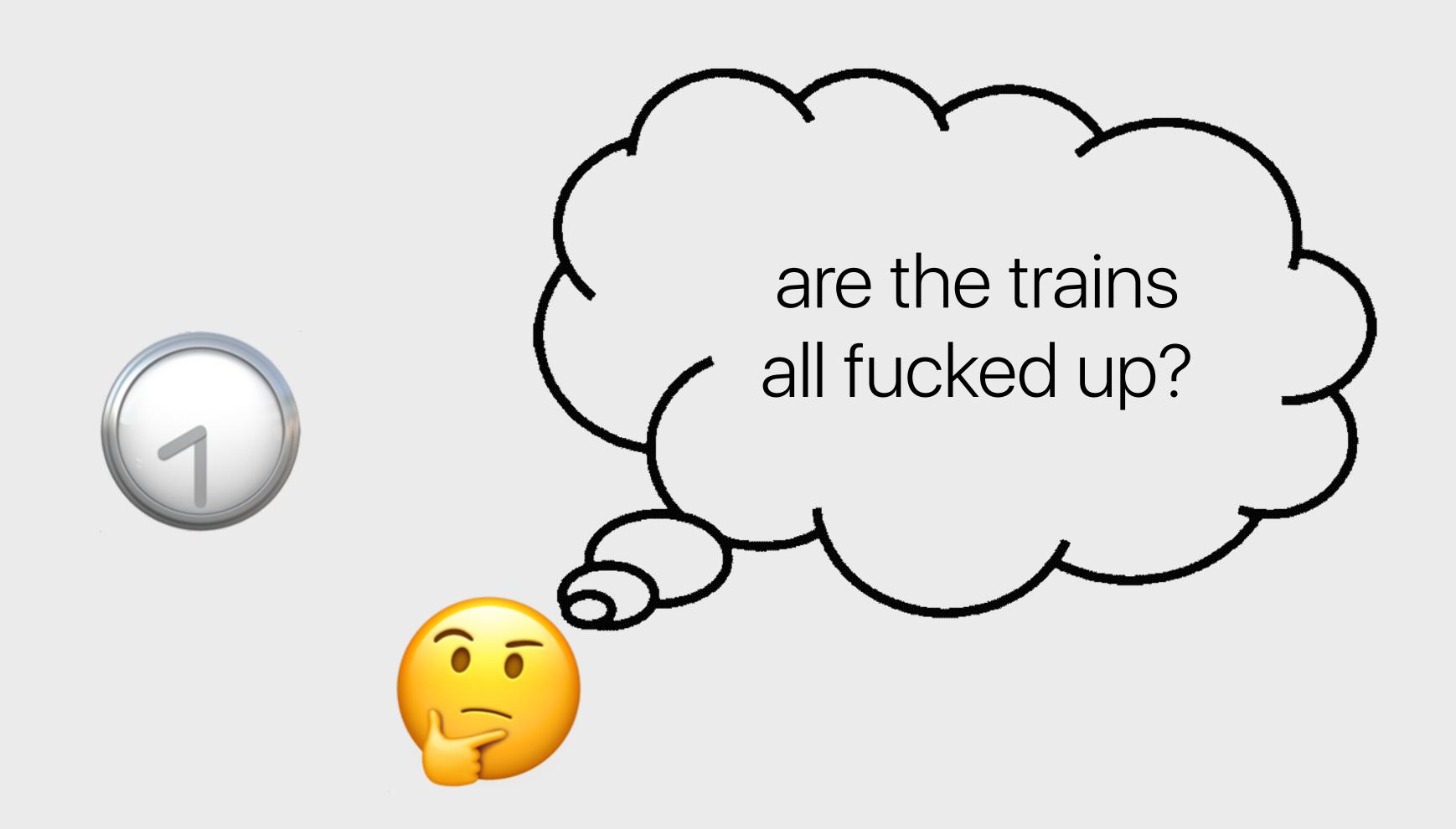














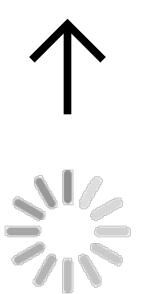
A) C (E)

B D F M



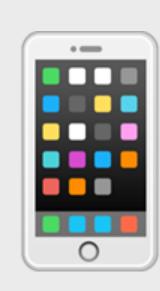
•ooo Verizon 1x

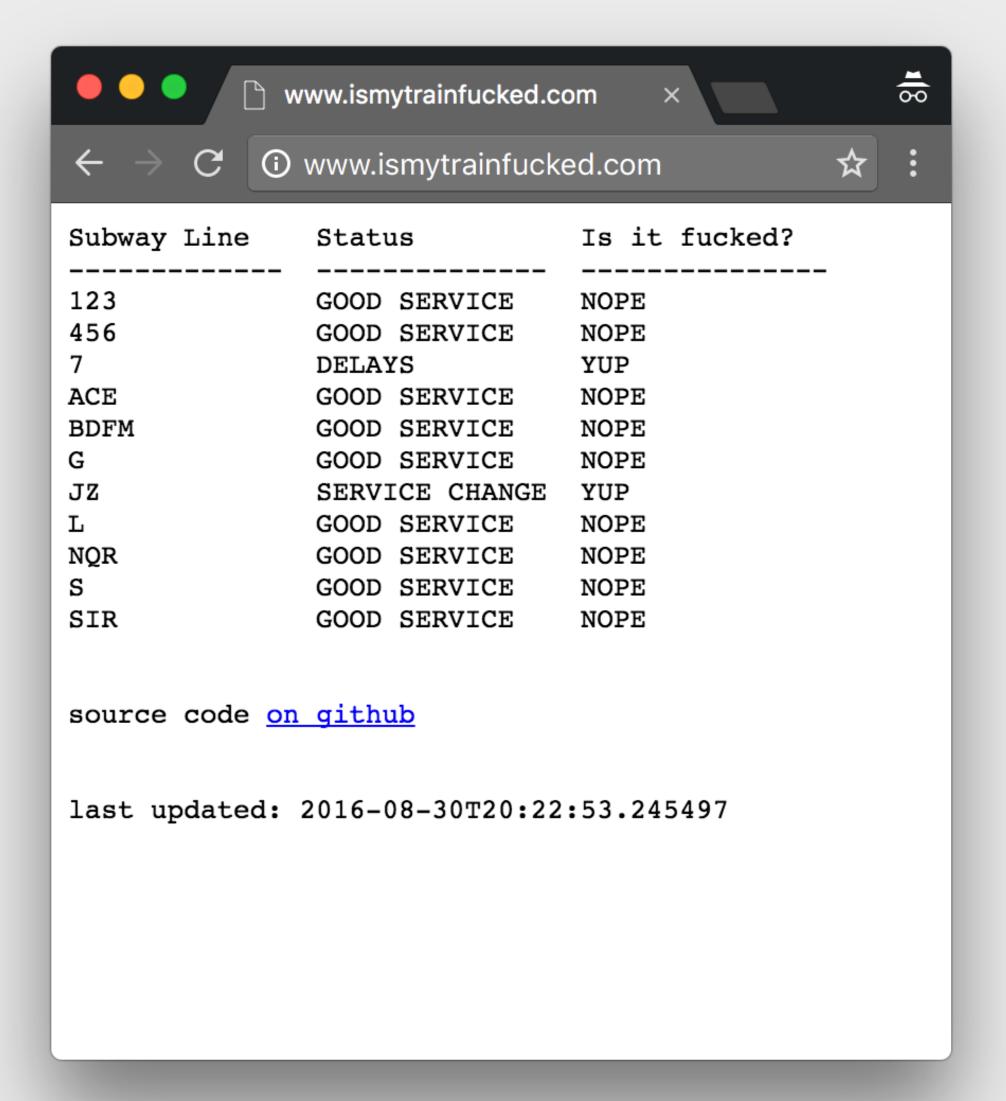
19 requests | 36.6 KB transferred | Finish: 660 ms | DOMContentLoaded: 594 ms | Load: 669 ms



so I built a tiny app!









architecture

- AWS Lambda microservice
- scrapes MTA data every 5 minutes, loads JSON blob into DynamoDB
- DynamoDB INSERT trigger runs Lambda function to write latest data to S3 bucket
- S3 bucket serves HTML file

two \(\lambda\) functions

- scrape MTA data, update database
- build website HTML and upload to S3

scrape MTA site

```
def handle(event, context):
    data = []
    r = requests.get('http://web.mta.info/status/serviceStatus.txt')
    soup = Soup(r.text, "html.parser")
    for subway in soup.findAll("subway"):
        for status in subway.findAll("line"):
            line = (status.contents[1].contents[0])
            status = (status.contents[3].contents[0])
            if status != "GOOD SERVICE":
                is_it_fucked = "YUP"
            else:
                is_it_fucked = "NOPE"
            data.append([line, status, is_it_fucked])
```

```
dynamo = boto3.resource('dynamodb')
    table = dynamo.Table('ismytrainfucked')
    status = {
        "date": datetime.datetime.strftime(datetime.datetime.now(),
                                            "%Y-%m-%d"),
        "time": decimal.Decimal(time.time()),
        "data": data,
table.put_item(Item=status)
```

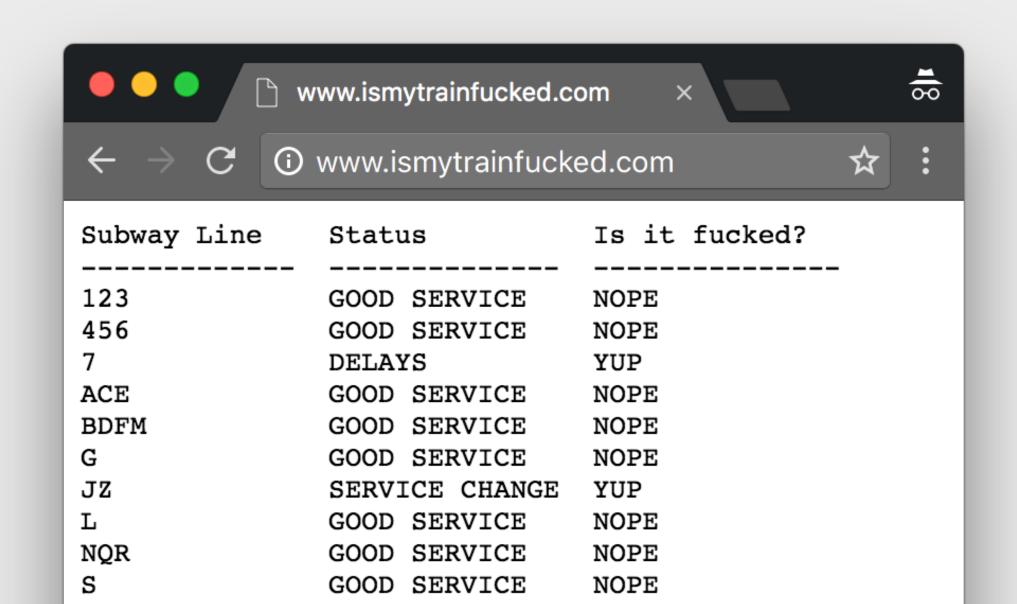
build and update website

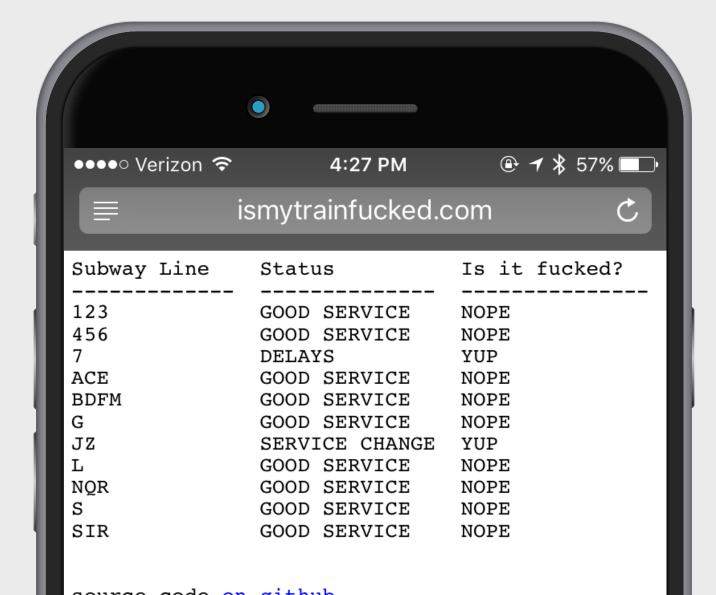
```
HTML =
<html>
<body>
{0}
<br />
source code <a href="https://github.com/Cbeck527/is-my-train-
fucked">on github</a>
</body>
</html>
```

```
def handle(event, context):
    data = event['Records'][0]['dynamodb']['NewImage']['data']['L']
    status = [
        [item['L'][0]['S'], item['L'][1]['S'], item['L'][2]['S']]
        for item in data
    table = tabulate(status, headers=["Subway Line", "Status", "Is it fucked?"])
    s3 = boto3.resource('s3')
    s3.Object('www.ismytrainfucked.com', 'index.html').put(
        Body=HTML.format(table), ContentType="text/html"
```



Subway Line	Status	Is it fucked?
123	GOOD SERVICE	NOPE
456	GOOD SERVICE	NOPE
7	DELAYS	YUP
ACE	GOOD SERVICE	NOPE
BDFM	GOOD SERVICE	NOPE
G	GOOD SERVICE	NOPE
JZ	GOOD SERVICE	NOPE
L	GOOD SERVICE	NOPE
NQR	GOOD SERVICE	NOPE
S	GOOD SERVICE	NOPE
SIR	GOOD SERVICE	NOPE



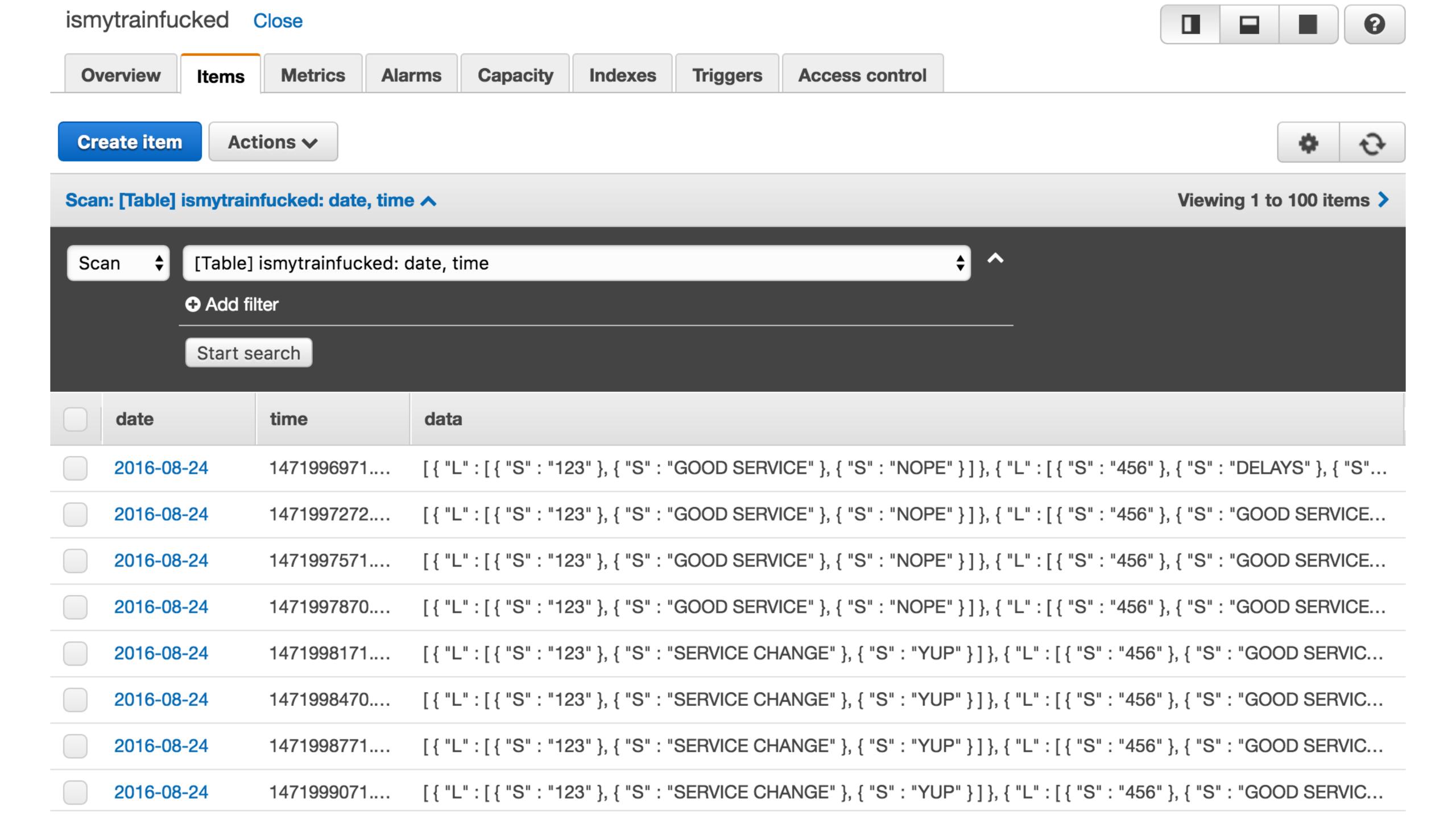


how can IMTF help you?

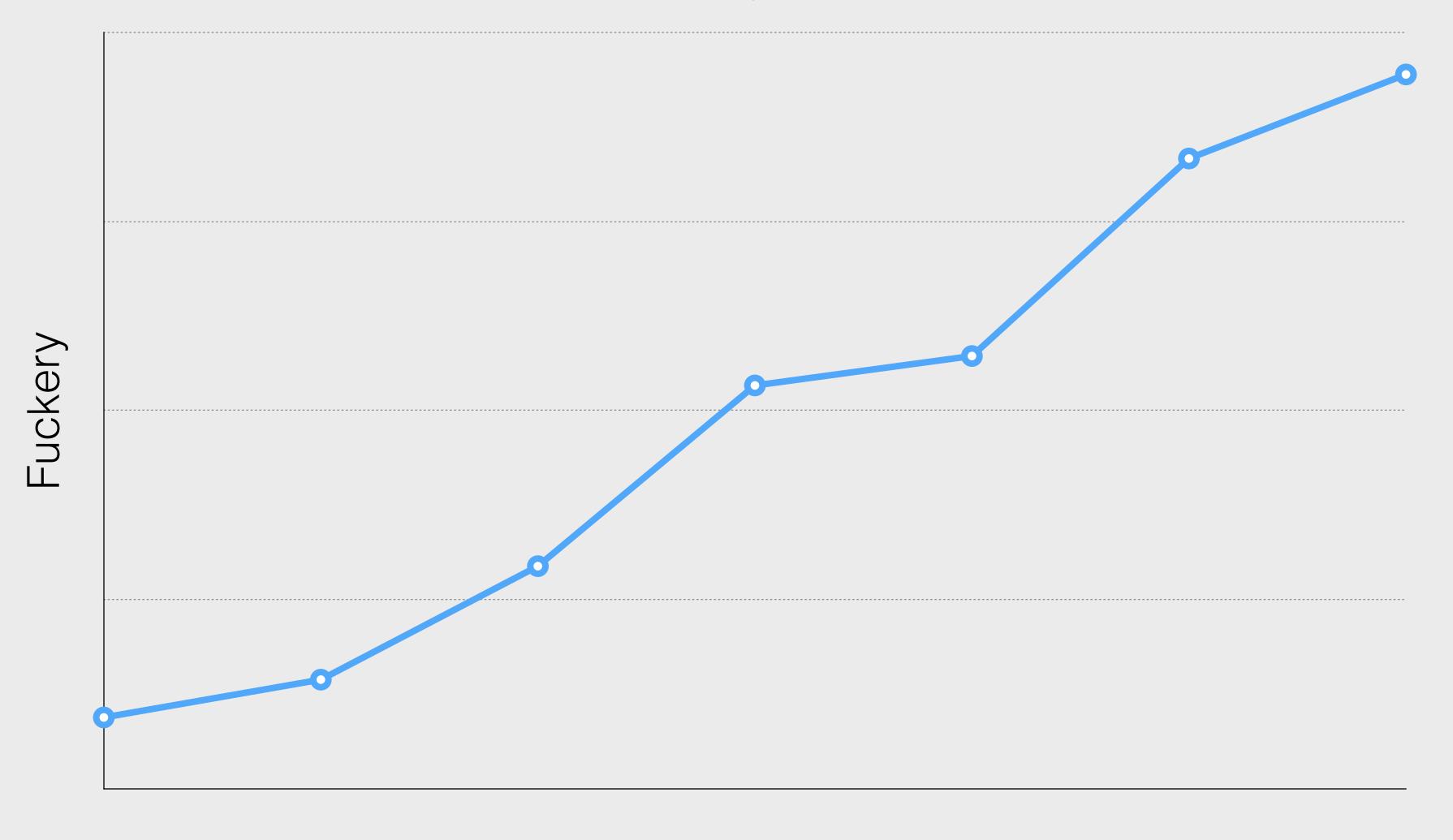
- figure out train status in low signal area
- plan alternate routes during train fuckery
- giggle because you get to think about bad words

what next?

i'm collecting data!



Train Fuckery Over Time*



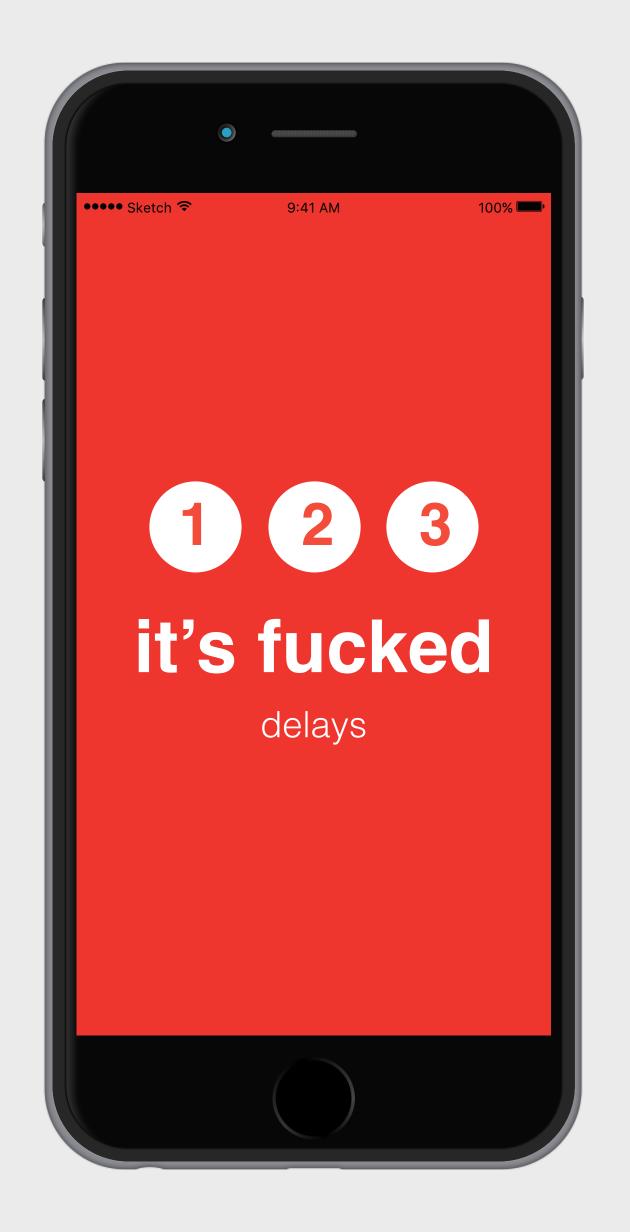
Time

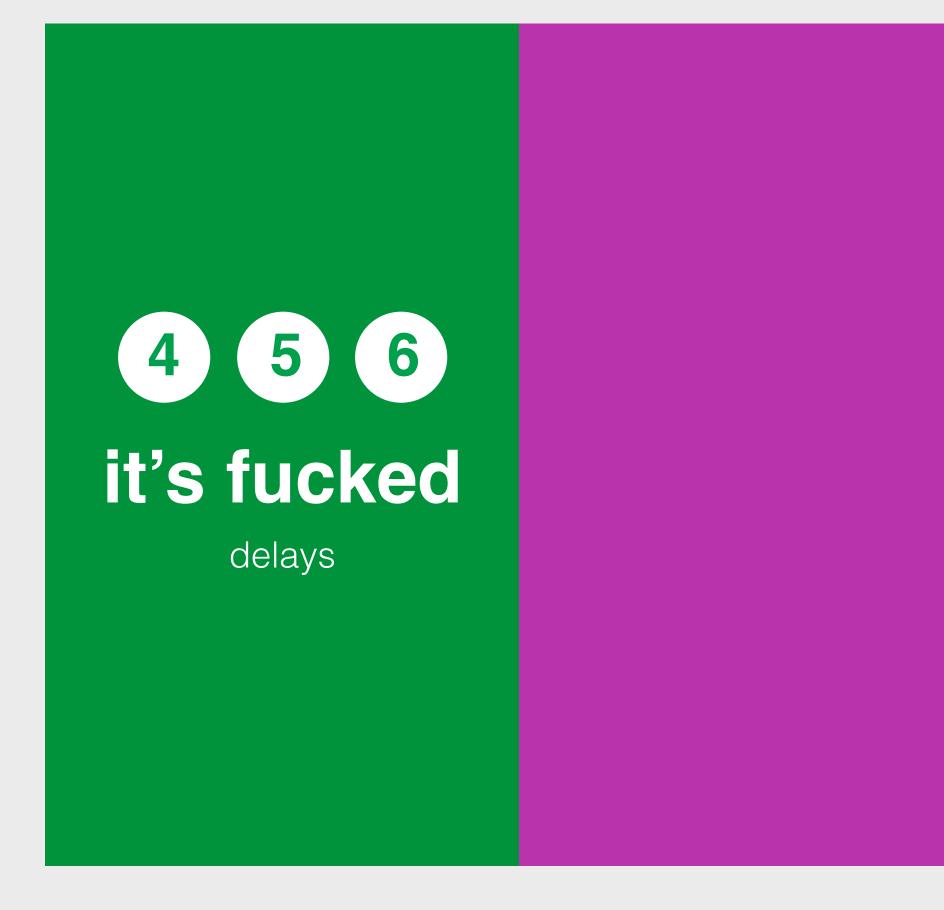
* not actual data

maybe an API!

```
$ curl http://ismytrainfucked.com/api/v1/123/status
{
    "status": "FUCKED",
    "reason": "service change"
}
```

maybe an app!





advantages of serverless service

- literally \$0.00 a month
- S3 has theoretically no bandwidth limits
- no operational overhead
- adding features (API, etc) pushes you further into a vendor lock-in scenario



Cbeck527 / is-my-train-fucked

"If you don't like open-source software, you're stupid."

- Chris Becker, 2016

thanks!

questions?