

Building Webapps

by Justin Shacklette

ACTIVISION



What's a Webapp?

- Browser + Server
- Good stuff:
 - ▶ Lots of tools, libraries, languages, etc.
 - ▶ Cross-platform (mobile too)
 - ▶ Easy to update
 - ▶ Interactive
 - ▶ Secure

▶▶▶▶▶ **Fun!**

Stats >

name	plot	<input checked="" type="radio"/> shots to kill	<input type="radio"/> damage	damage	range	fire rate
AK12 (iw5_ak12_mp)				33 ↓ 24	400 1600	0.08s
Bal-27 (iw5_bal27_mp)				34 24	200 ↓ 1200	0.07s
HB Ra3 (iw5_hbra3_mp)				40 24	896 ↑ 1700	0.096s

Summary

Damage

View Kick

Timings

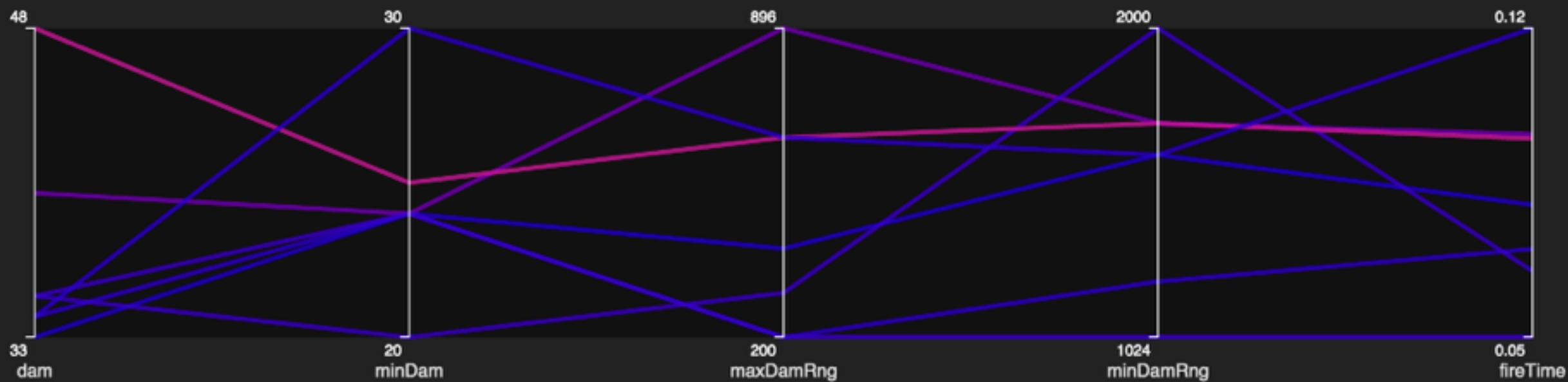
Compare

Usage

Performance

Stats ▼

parameter	min	max	mean	stdev
damage	33	48	37	4.957
minDamage	20	30	24.429	2.718
maxDamageRange	200	896	470.857	246.655
minDamageRange	1024	2000	1546.286	305.095
fireTime	0.05	0.12	0.082	0.02161



Summary

Damage

View Kick

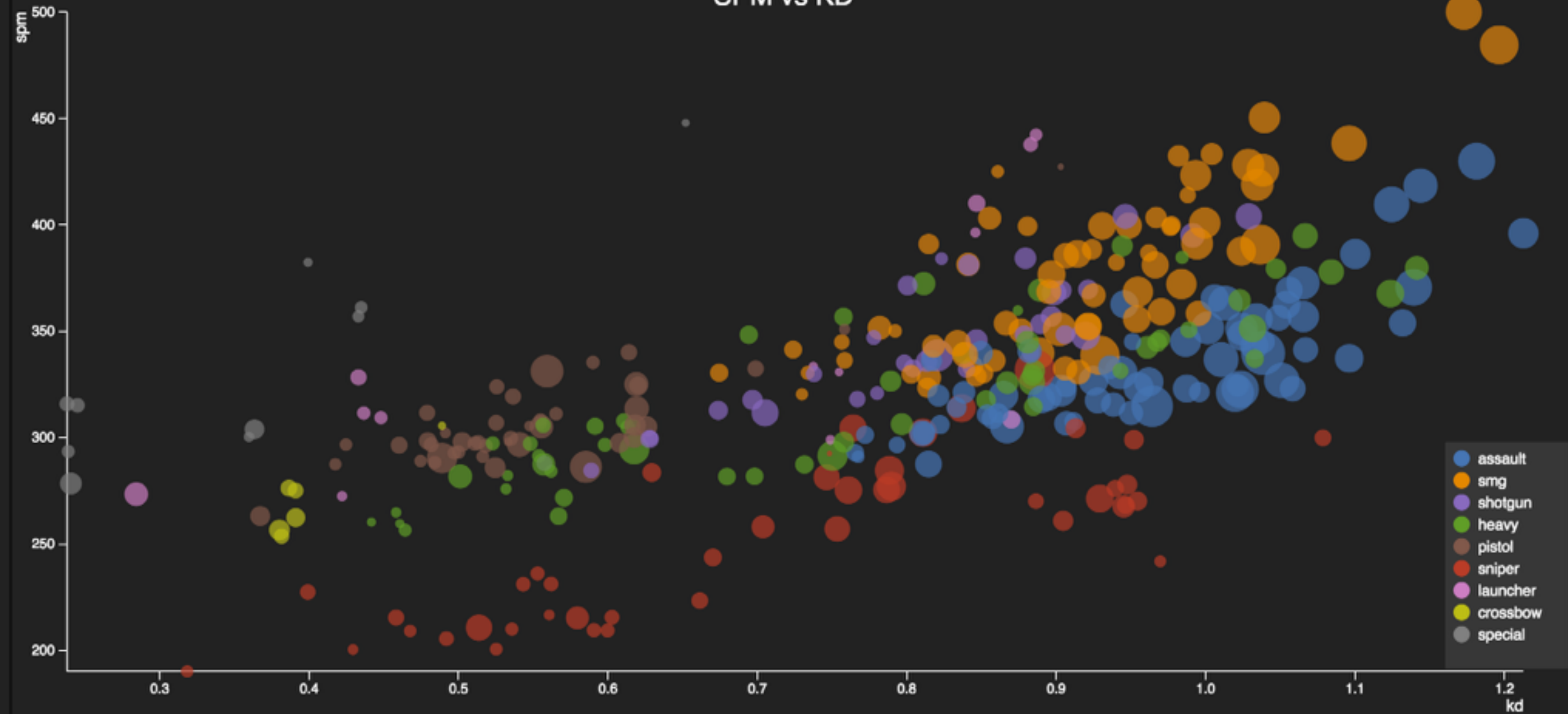
Timings

Compare

Usage

Performance

SPM vs KD





Michael Condrey @MichaelCondrey · Mar 23

What do you think is the best gun (K:D) in [#AdvancedWarfare](#)? The top 5 might surprise you. pic.twitter.com/3cBMIWW2EA



241



676



Michael Condrey ✓

@MichaelCondrey

 **Follow**

Now get out there and mix it up!

1. ARX-160 - Hole Puncher


2. Ameli - Heavy

3. HBRa3 - Insanity

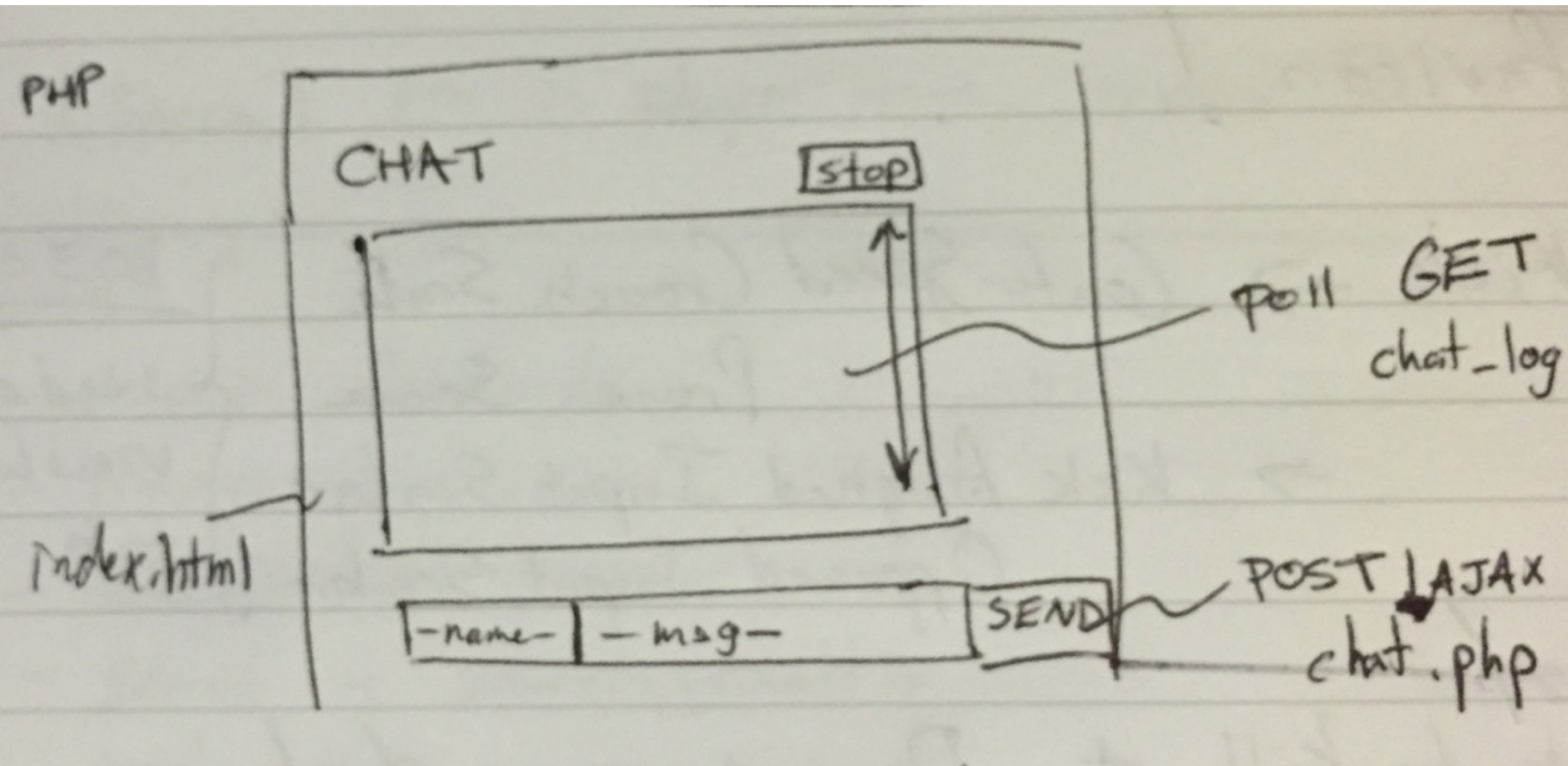
4. Bal-27 - O.Steed

5. Pytaek - Loophole

Building a Webapp?

1. Interaction Design
 2. Frontend Mockup
 3. Architecture + API
 4. Write Code
 5. Test
 6. Release
- 
- Think**

Chat App Mockup

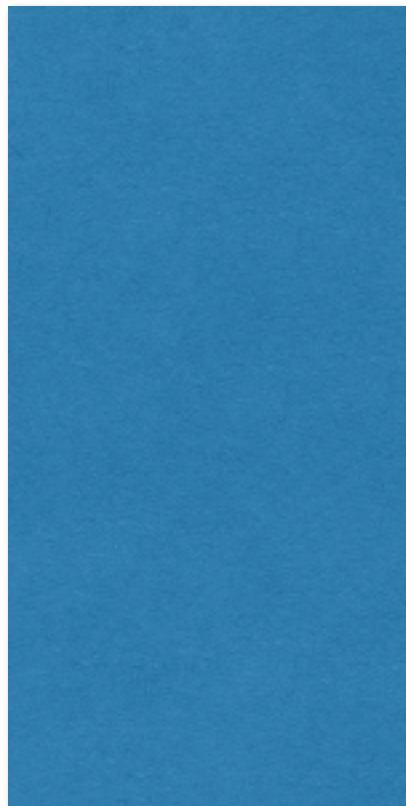


DEMO

<http://saturnboy.com/chat/>

Architecture

frontend



backend

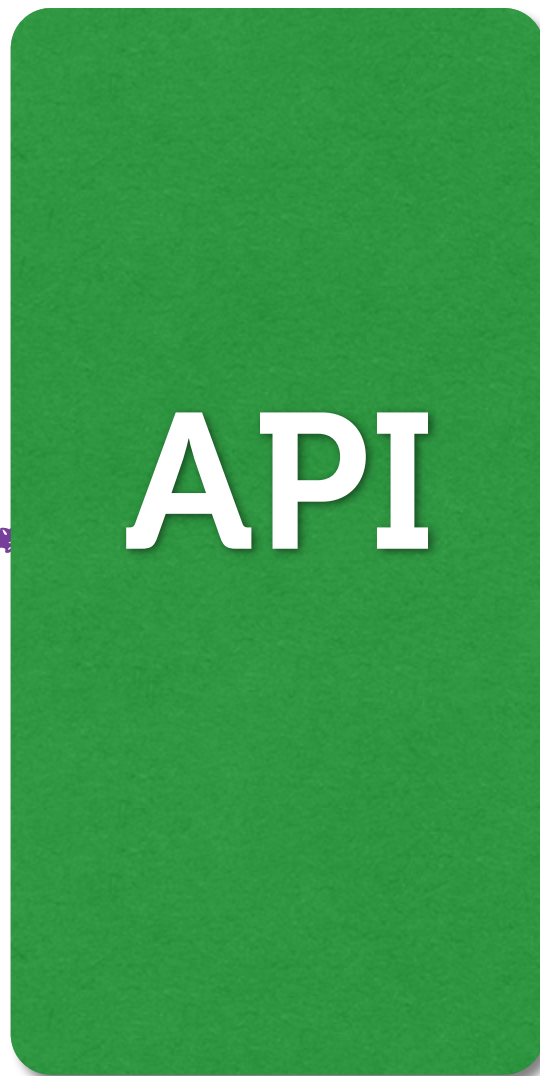


API

frontend



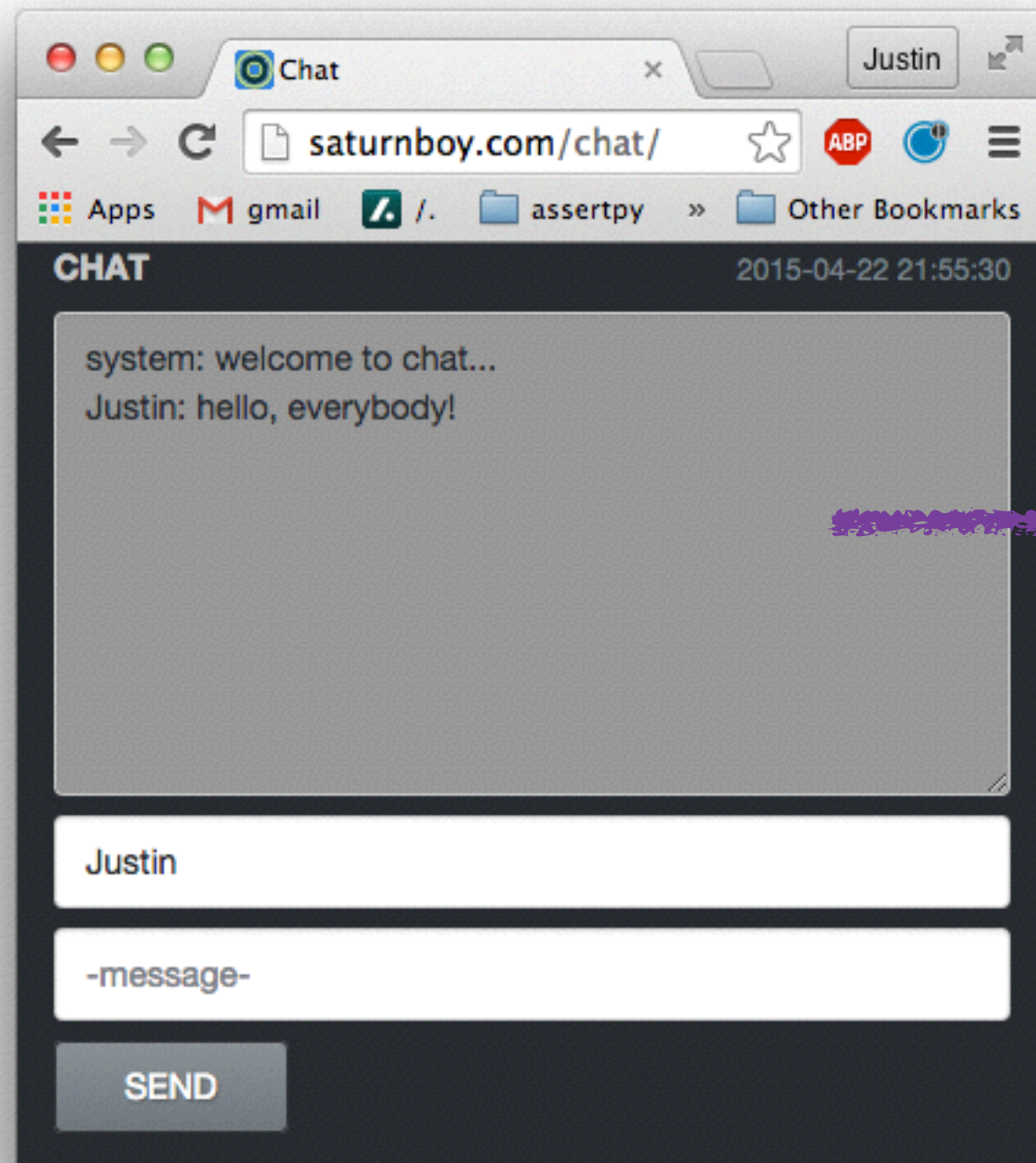
API



backend



Chat Log



GET



backend

Request-Response

request

GET

`http://<host>/chat.php`

backend

response

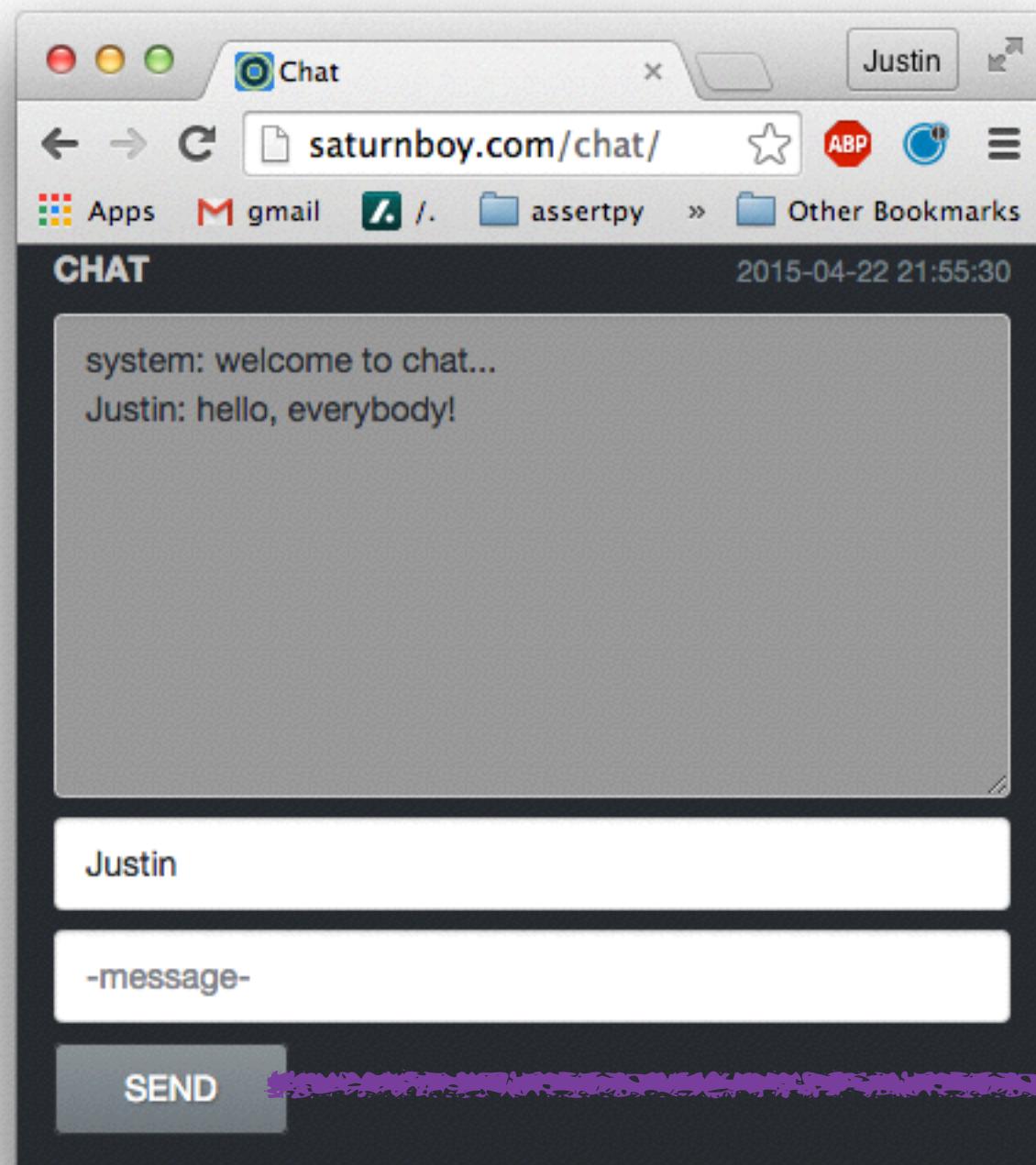
200 OK

application/json

```
[  
  { "name": "system", "msg": "welcome to chat..." },  
  { "name": "Justin", "msg": "hello, everybody!" }  
]
```

➡ **Poll every 1s**

Chat Message



backend

POST

Request-Response

request

POST

backend

http://<host>/chat.php

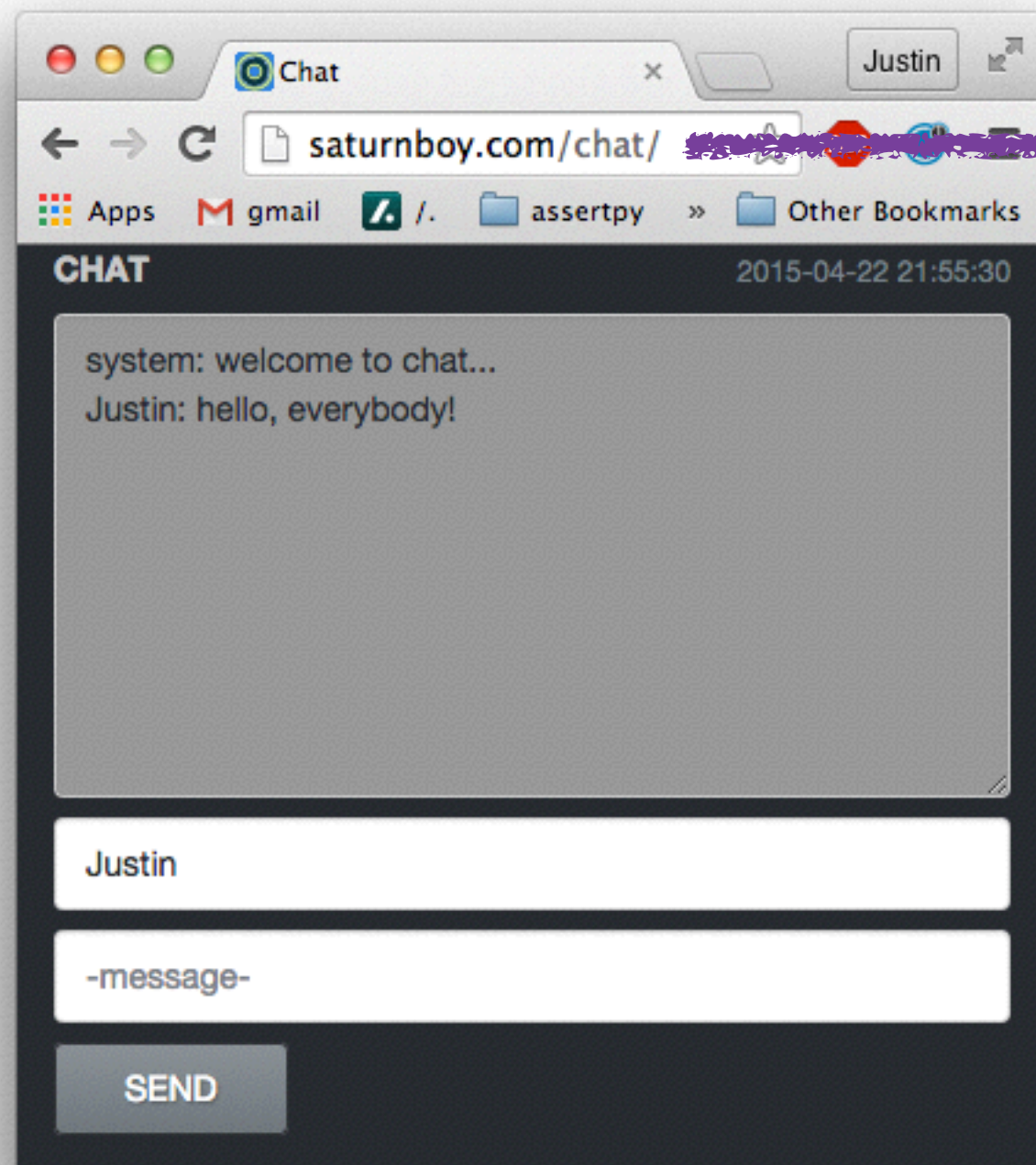
FORM: name, msg

response

200 OK



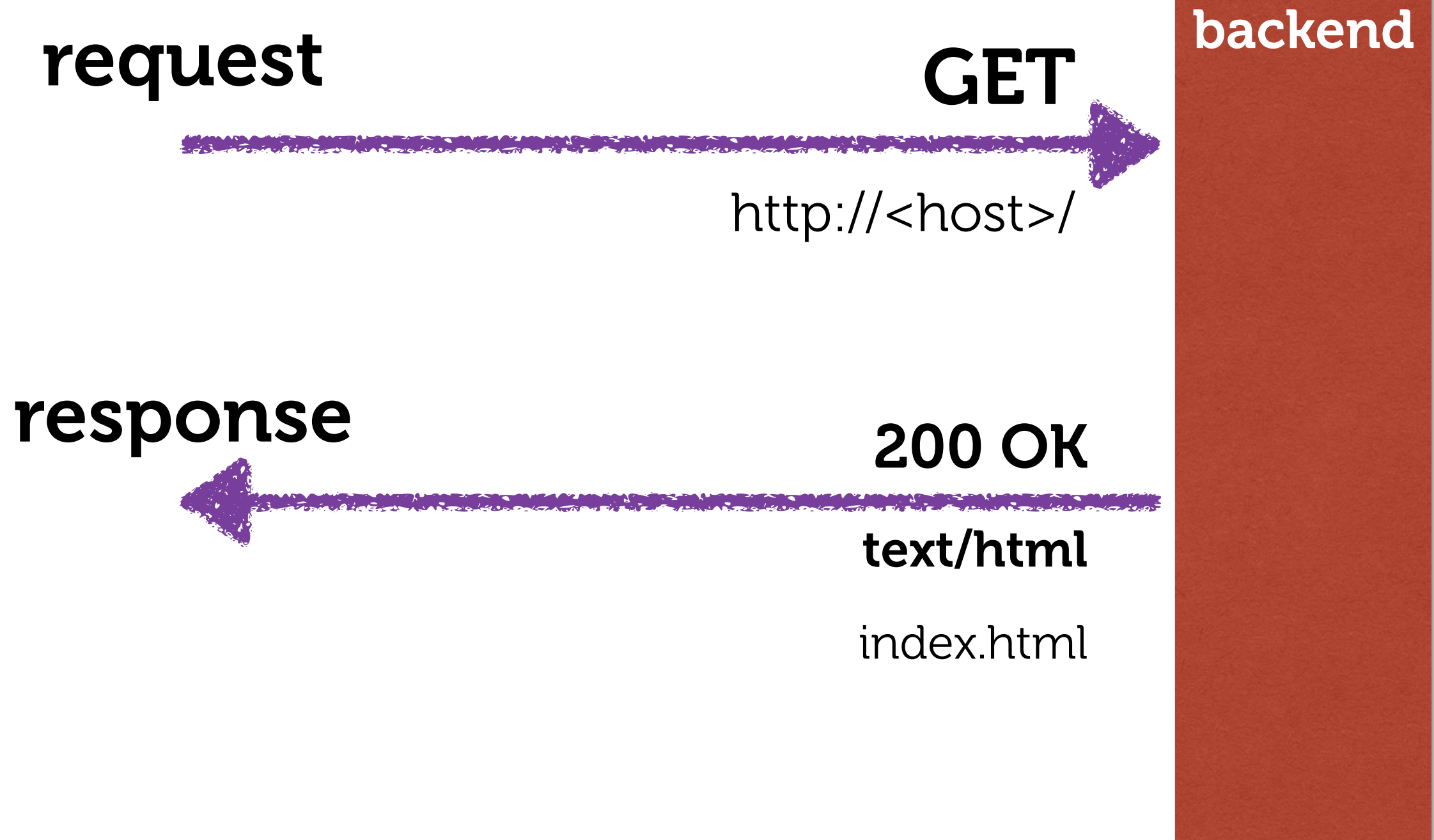
Chat Message



GET

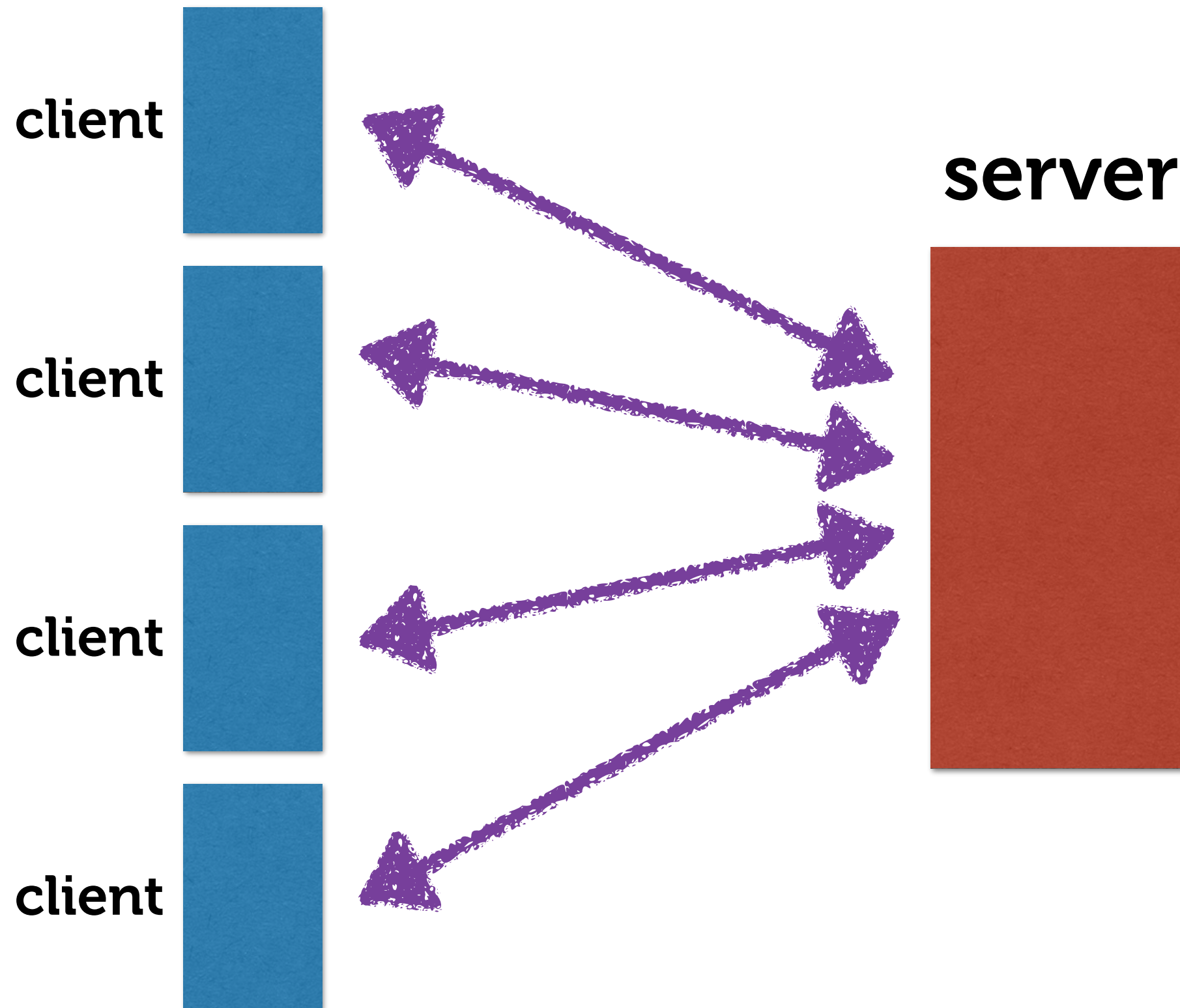
backend

Request-Response



**FRONTEND
CODE**

Multiple Clients...



Apache + PHP

request

`http://<host>/chat.php`

backend

Apache

mod_php

compile

run

response



**BACKEND
CODE**

Validation

- What request might need validation?
- Why validate?
- Client validation?
- Server validation?

▶ **Enforce `name.length >= 3`**

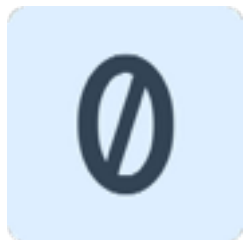
QUESTIONS?



justin@saturnboy.com



@saturnboy



thezeroapp.com