HTML5 is the future of mobile

with Sergi Mansilla

HTML5 is the future ~~of mobile~~

with Sergi Mansilla

Thanks for coming!

Sergi Mansilla

@sergimansilla

github.com/sergi

Previously

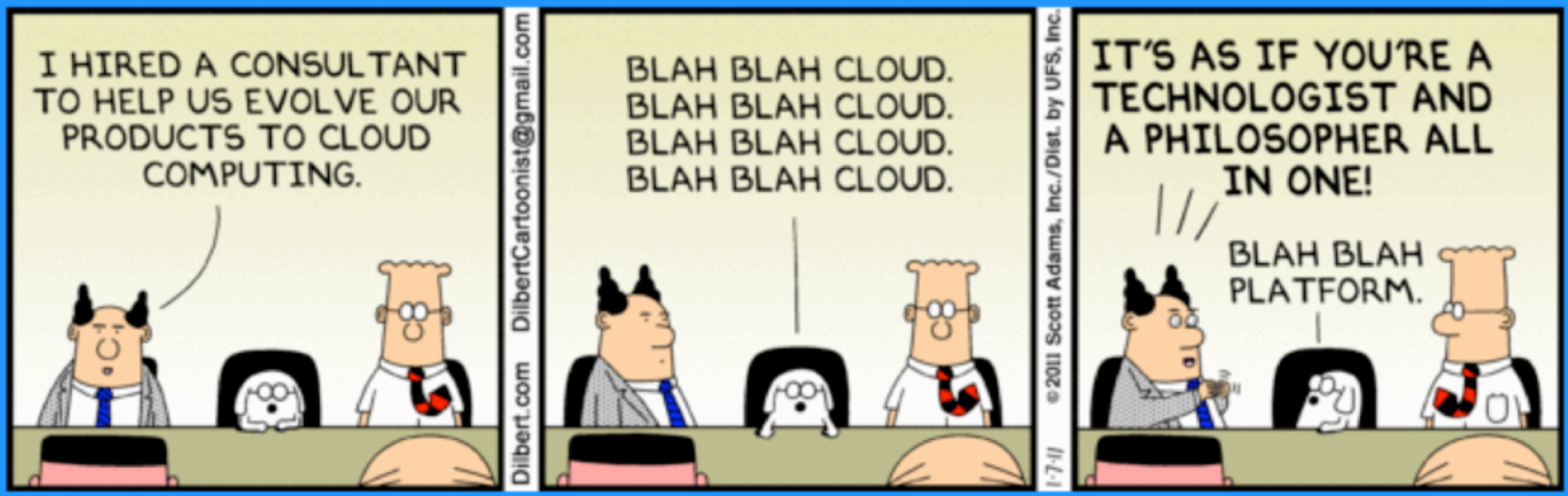
Cloud9 IDE

Your code anywhere, anytime

comoYo™

HTML5 HTML5 HTML5

Buzzword party



HTML5

HTML5

set of technologies and tools

set of technologies and tools

WebRTC

IndexedDB

Offline

ASM.js

Touch

Current problems

BlackBerry

Write once...run once

Write once...run once

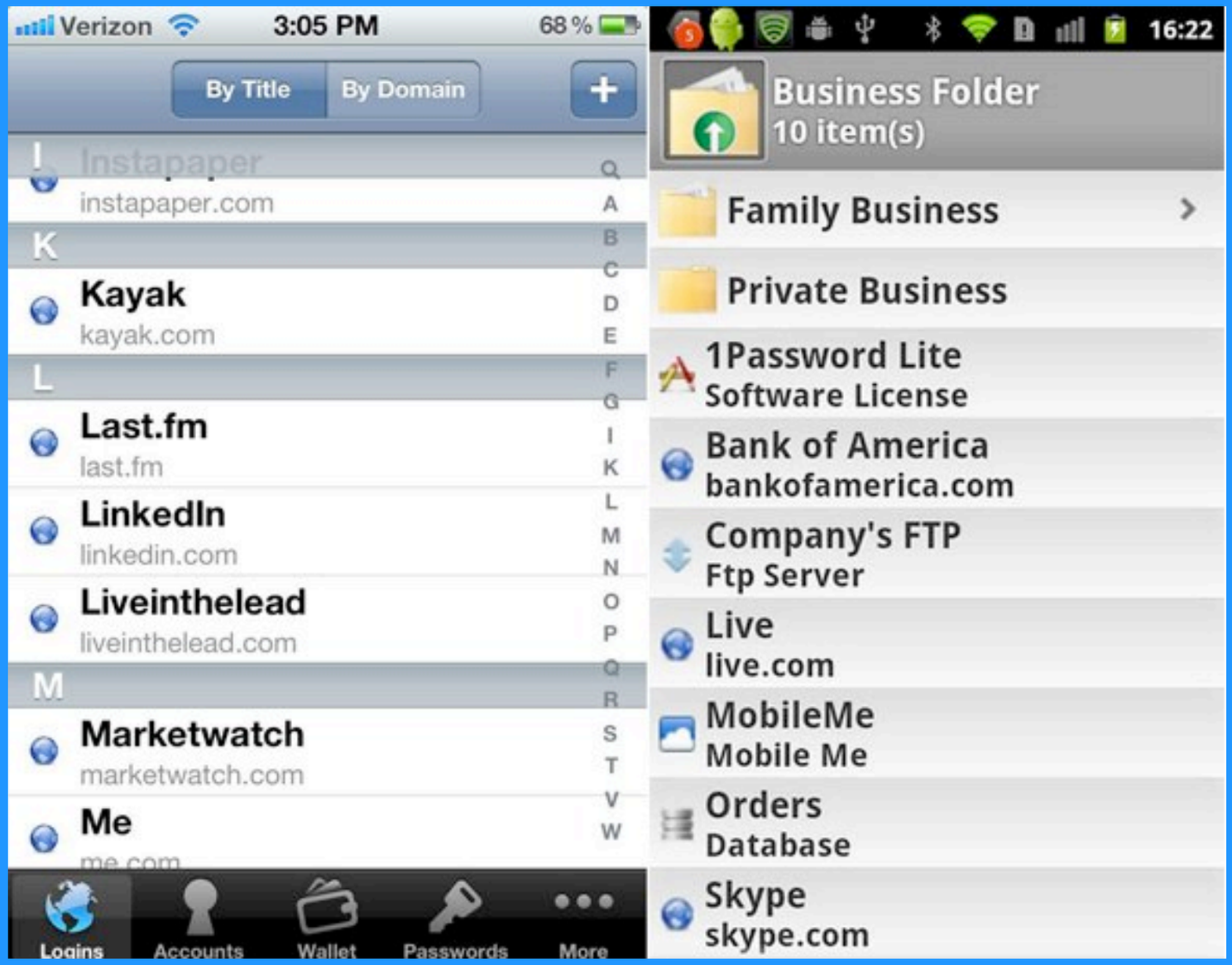
Incompatible APIs

Write once...run once

Incompatible APIs

Store restrictions

User suffers



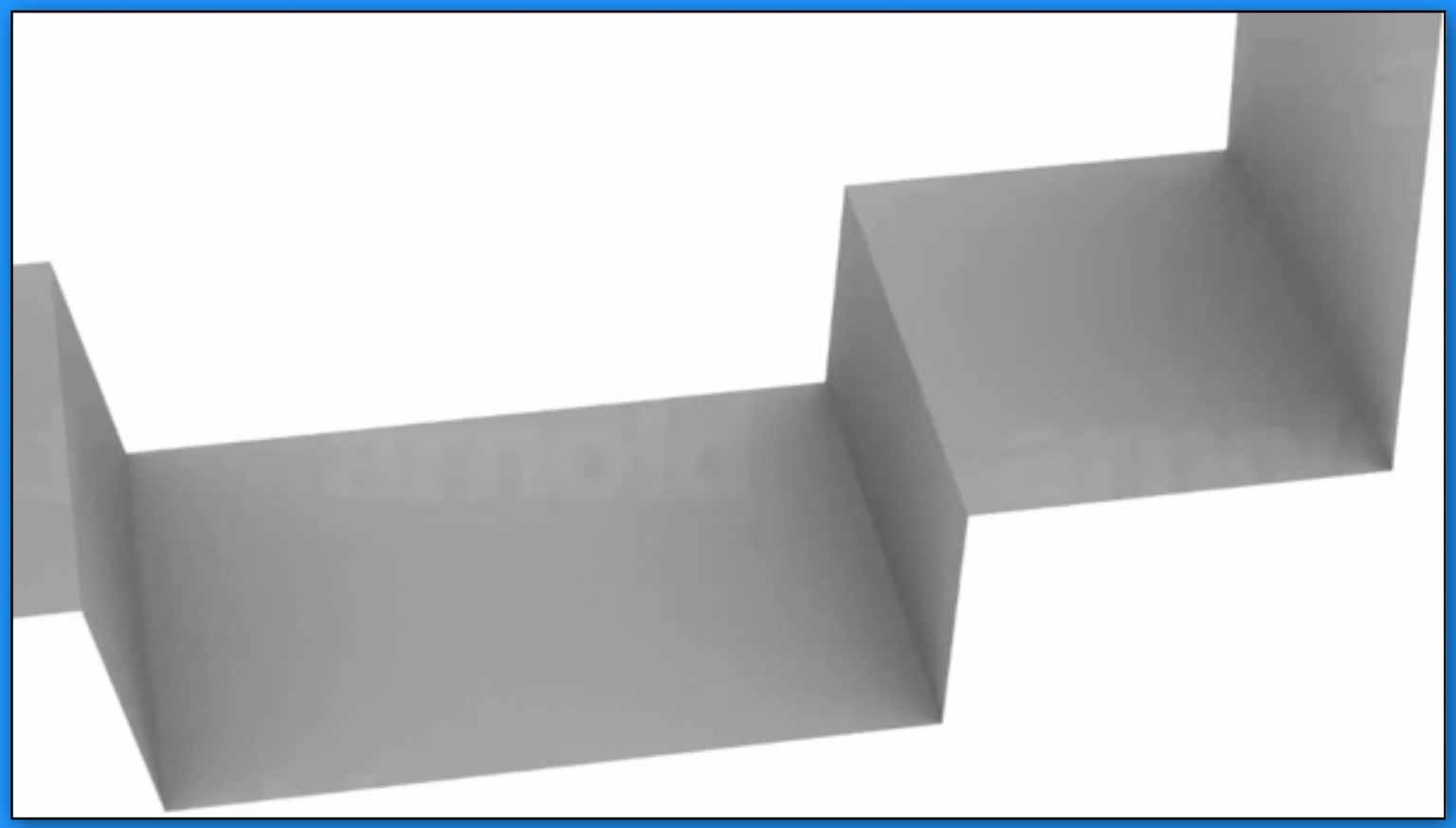
User suffers

Ubiquity

Ubiquity

Standard APIs

Less fragmentation



batman.js

BACKBONE.JS

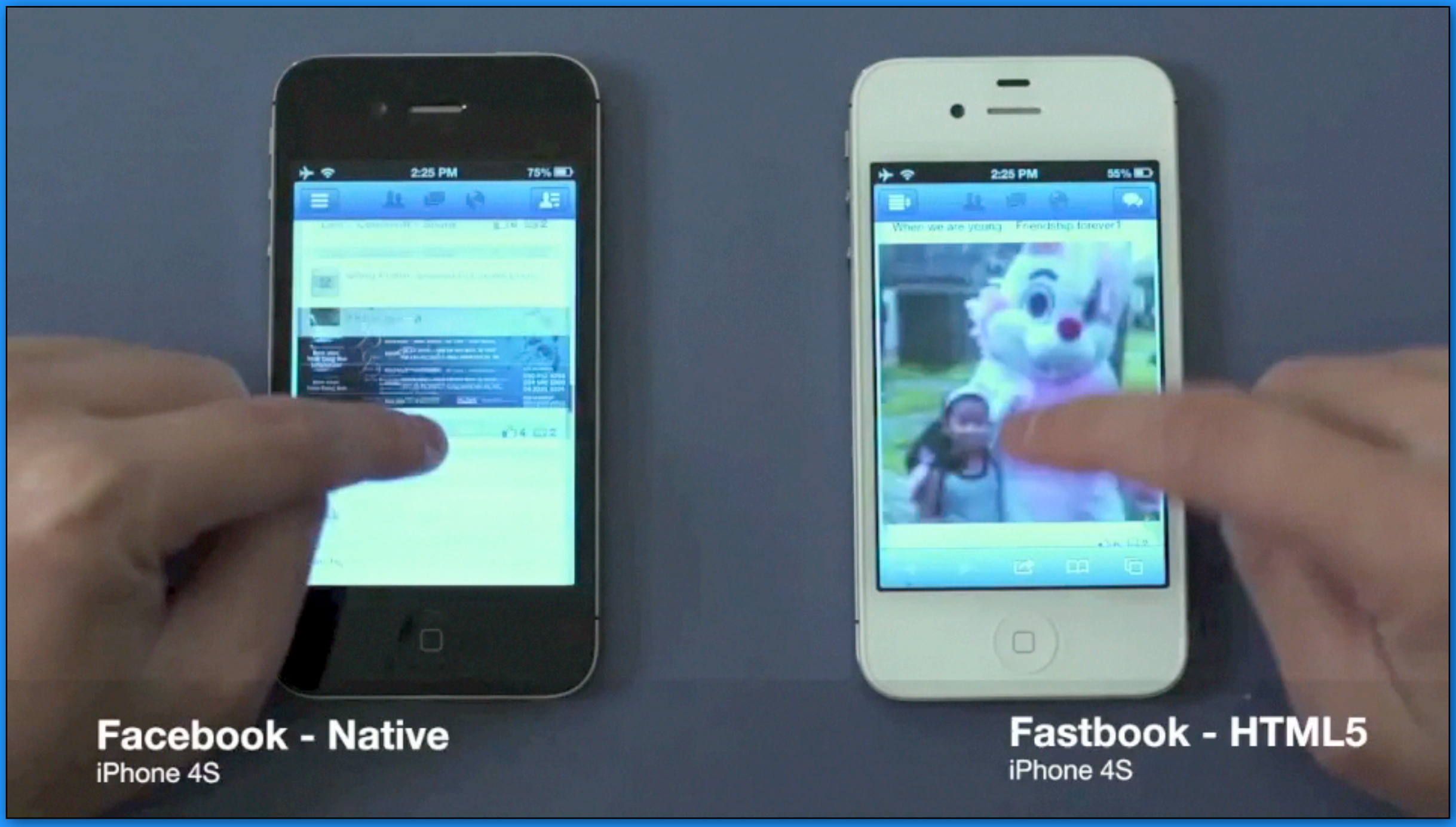
ANGULARJS by Google

Knockout.

Bullshit argument #1

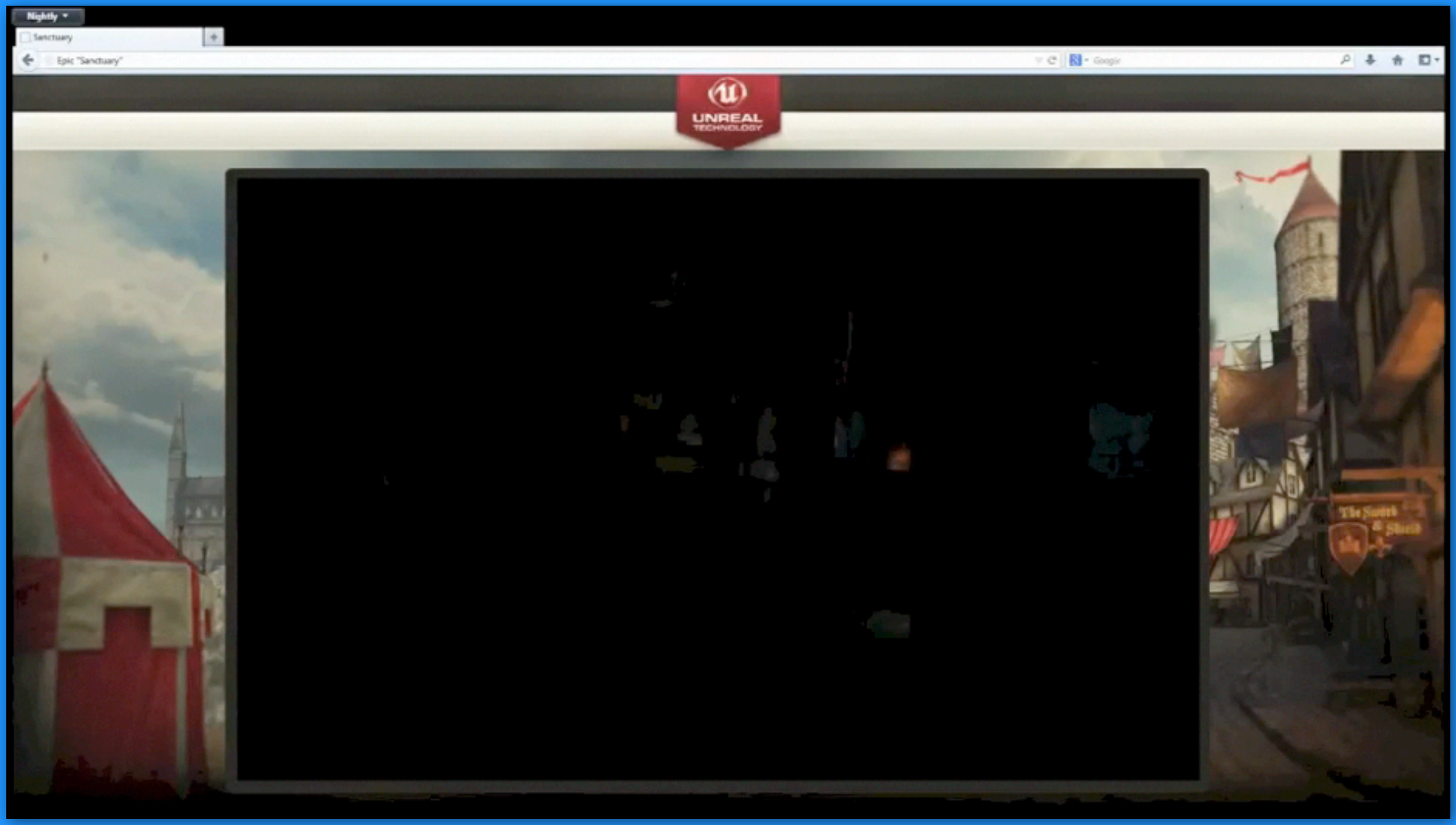
Performance

Fastbook



http://youtu.be/wCn3R3-XxBU

Unreal engine



http://youtu.be/BV32Cs_CMqo

Bullshit argument #2

JavaScript

JavaScript?

Dart

ClojureScript

TypeScript

Objective-J

Opa

LiveScript

CoffeeScript

Haxe

Roy

Elm

Wisp

```
1 var all = document.querySelectorAll("li a");
2 console.log([].slice.call(all).length);
```

269 languages

http://altjs.org/

```
1 var all = document.querySelectorAll("li a");
2 console.log([].slice.call(all).length);
```

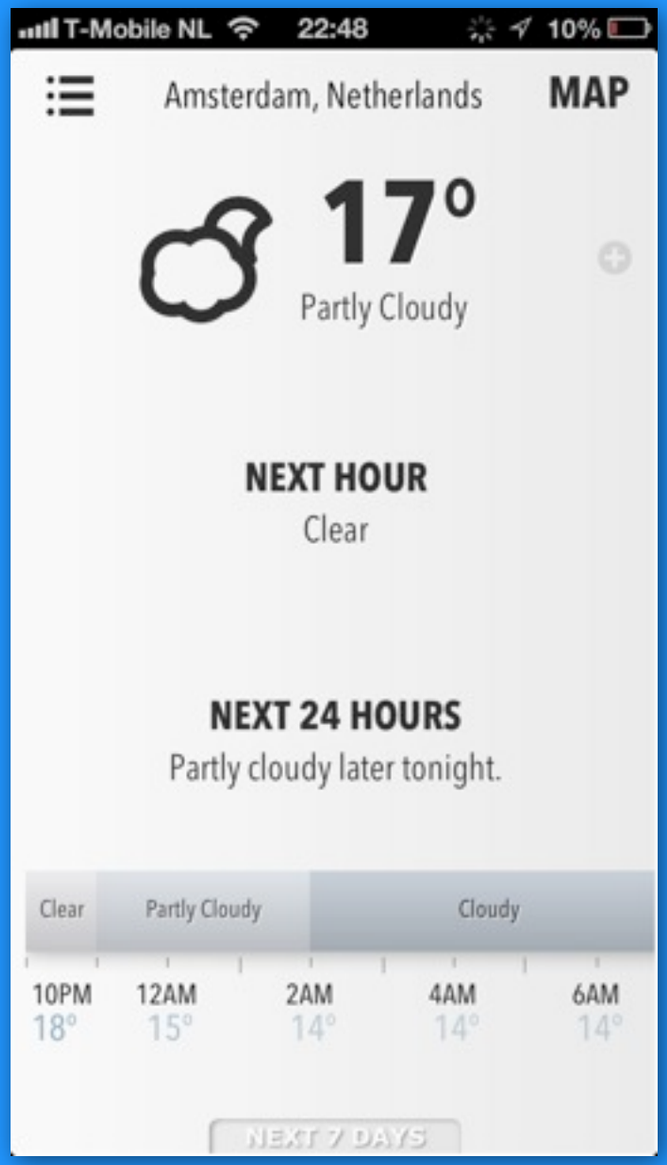
269 languages

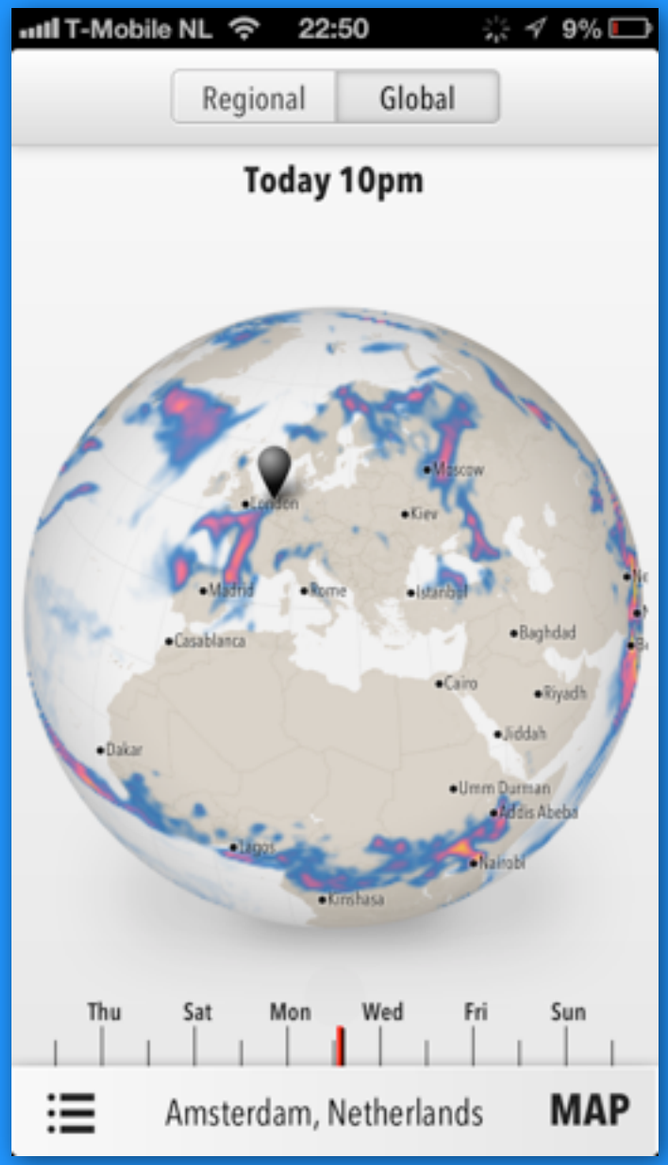
```
1 var all = document.querySelectorAll("li a");
2 [].slice.call(all).forEach(function(l) {
3     console.log(l.textContent);
4 });
```

http://altjs.org/

Bullshit argument #3

Looks





Bullshit argument #3

Looks

Real argument #1

Phone APIs

(Or the lack of them)

PhoneGap

mozilla

Remember 2000s?

Remember 2000s?

New mobile OS

Leverages open web

WebAPI standards

No walled gardens

New mobile OS

Leverages open web

WebAPI standards

No walled gardens

Reuse any website
Use Web APIs

Creating a Firefox OS app

```
<!DOCTYPE html>
<html>
  <head>
    <title>I am an app!</title>
  </head>
  <body>
    <h1>Hello World!</h1>
    <script>
      window.addEventListener('deviceproximity', function(ev) {
        if (ev.value < 10)
          navigator.vibrate();
      });
    </script>
  </body>
</html>
```

Regular APIs

Vibration API (W3C)
Screen Orientation
Geolocation API
Mouse Lock API (W3C)
Open WebApps
Network Information API (W3C)
Battery Status API (W3C)

Web Activities
Push Notifications API
WebFM API
WebPayment
IndexedDB (W3C)
Ambient light sensor
Proximity sensor
Notification

Privileged APIs

Device Storage API
Browser API
TCP Socket API
Contacts API
systemXHR

Certified APIs

WebTelephony
WebSMS
Idle API
Settings API
Power Management API
Voicemail

Mobile Connection API
WiFi Information API
WebBluetooth Permissions API
Network Stats API Camera API Time/Clock API
Attention screen

Notifications

```
1 var notification = navigator.mozNotification;
2 notification.createNotification(
3     "See this",
4     "This is a notification",
5     iconURL
6 );
```

Send an SMS

```
1 // SMS object
2 var sms = navigator.mozSMS;
3 // Send a message
4 sms.send("123456789", "Hello world!");
5
6 // Receieve a message
7 sms.onreceived = function (event) {
8     // Read message
9     console.log(event.message);
10 };
```

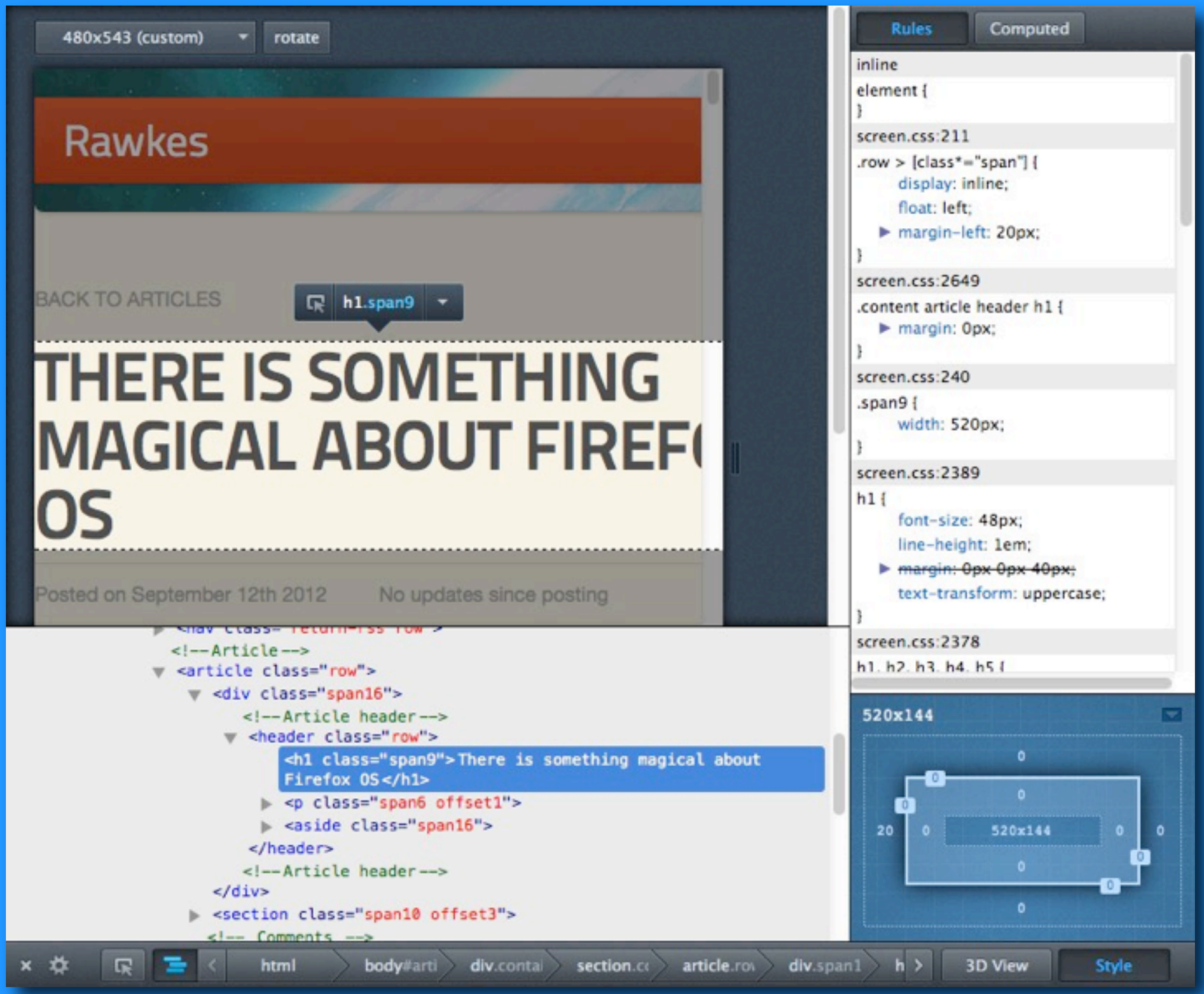
Vibrate

```
1 // Vibrate for one second
2 navigator.vibrate(1000);
3 // Vibration pattern [vibrationTime, pause,…]
4 navigator.vibrate([200, 100, 200, 100]);
5 // Vibrate for 5 seconds
6 navigator.vibrate(5000);
7 // Turn off vibration
8 navigator.vibrate(0);
```

Set permissions

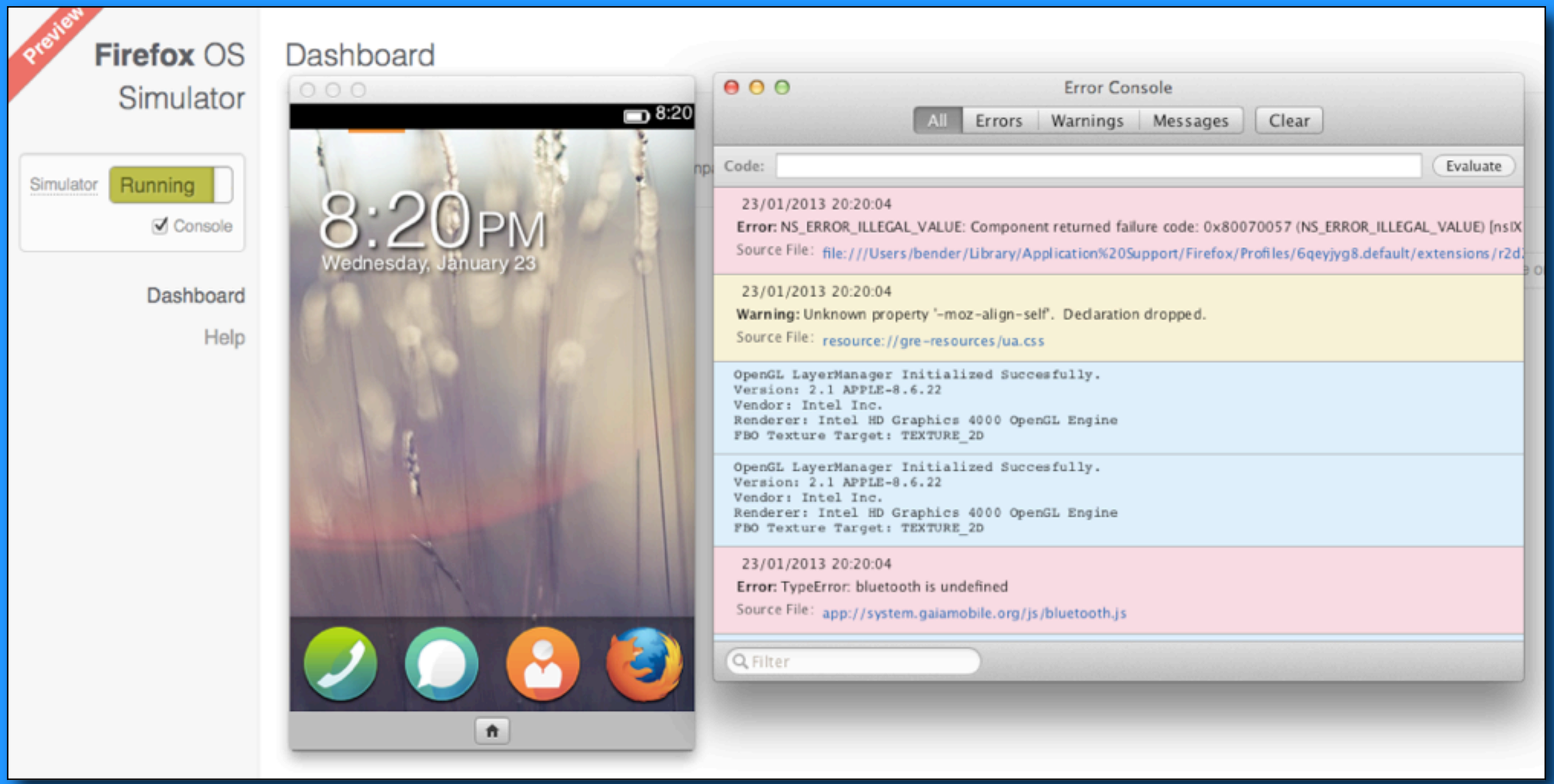
```
1     "permissions": {
2         "desktop-notification": {
3             "description" : "To show notifications"
4         },
5         "geolocation": {
6             "description" : "Marking out user location"
7         }
8     }
9 }
```

Developer tools

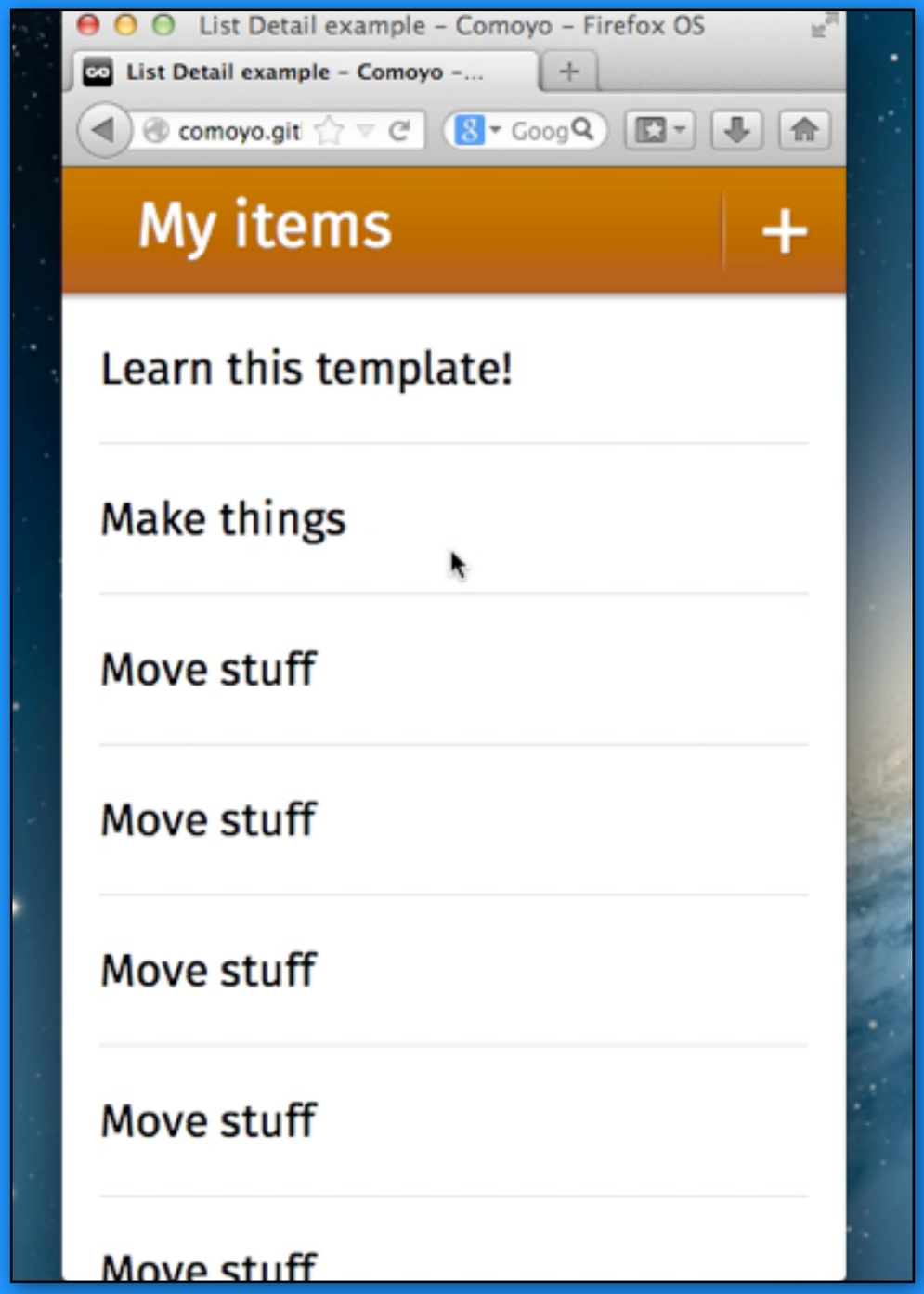


Developer bliss

Start now!



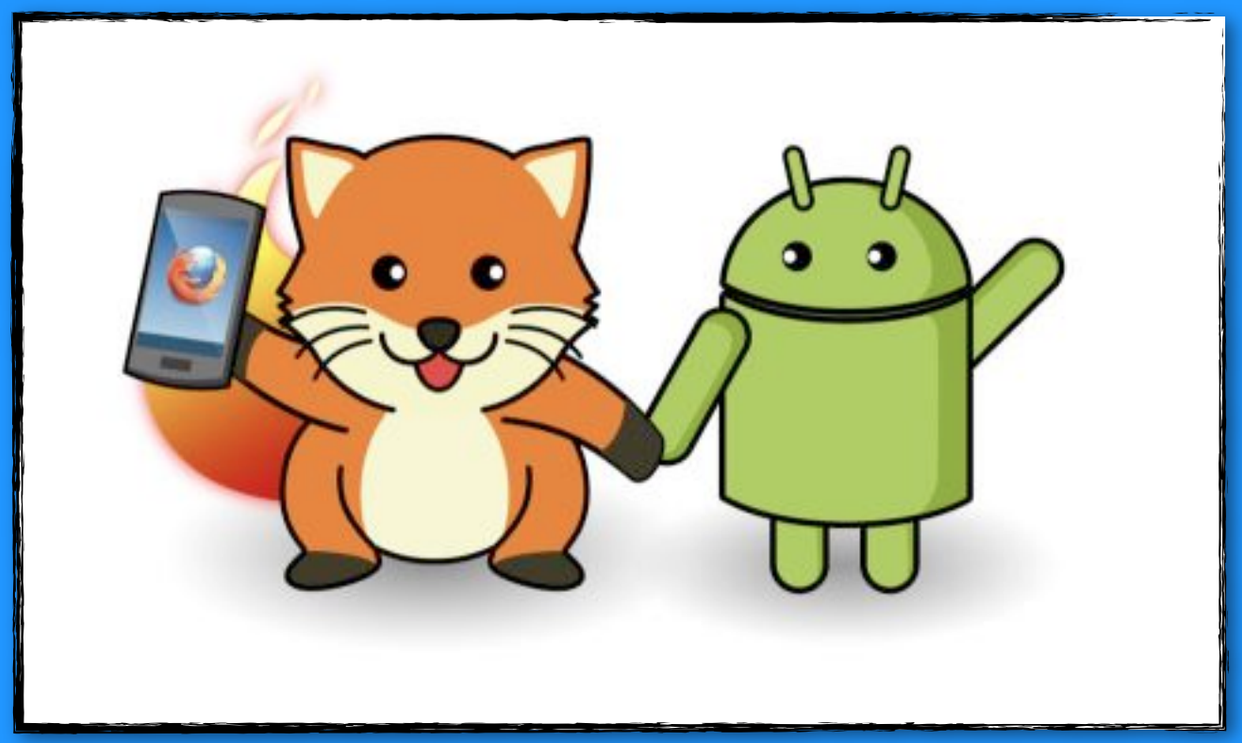
https://addons.mozilla.org/en-US/firefox/addon/firefox-os-simulator/



github.com/comoyo/ffos-list-detail

marketplace.firefox.com

It works on Android!



marketplace.firefox.com/developers/

Thanks!

@sergimansilla

sergi

sergi@comoyo.com

You can find this presentation at **https://speakerdeck.com/sergi**