Building Large Scale Web Apps with TypeScript

InfoQ ueue

促进软件开发领域知识与创新的传播

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ArchSummit

全球架构师峰会2016

[北京站] 2016年12月2日-3日

咨询热线：010-89880682

QCon

全球软件开发大会

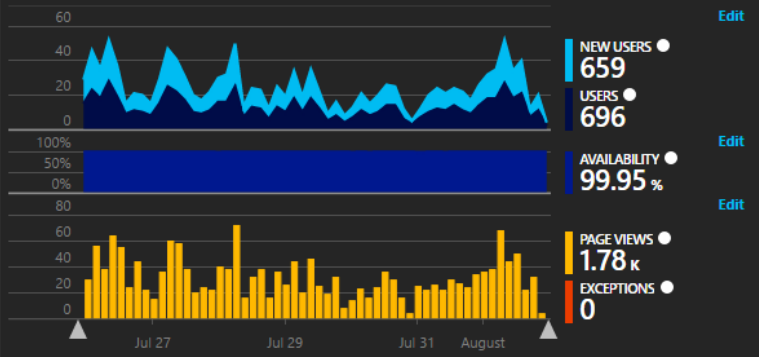
[北京站] 2017年4月16日-18日

咨询热线：010-64738142

New
Recent
All resources
App Services
Virtual machines (classic)
Virtual machines
Resource groups
Cloud services (classic)
SQL databases
Application Insights
MySQL databases
App Service plans
Power BI workspace col...
Mobile services (classic)
Storage accounts
SQL servers
Redis Caches
Notification Hubs
Container services
Browse

Dashboard

Timeline
JJ09 — LAST 7 DAYS (3 HOUR GRANULARITY)

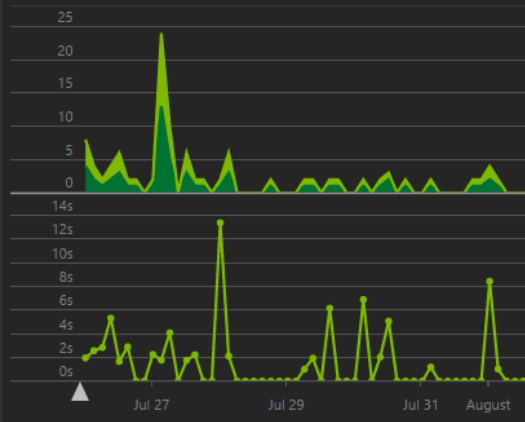


Add new chart

Top sessions by count...
JJ09

United States	852
Poland	282
India	239
United Kingdo..	195
Germany	183
Canada	113
France	93
Russia	93
Australia	87

Timeline
DOTNETCONFPL



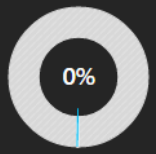
jj09
WEB APP
Running

dotnetconfpl
WEB APP
Running

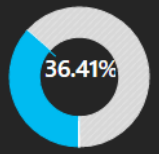
Web tests

URL ping	1333 ms
Database	1864 ms

Connections Used
JJ09BLOGDB



Database Size
JJ09BLOGDB



CURRENT 7.63 MB
THRESHOLD 20.97 MB

Estimated spend
DEFAULT1

11,94 €

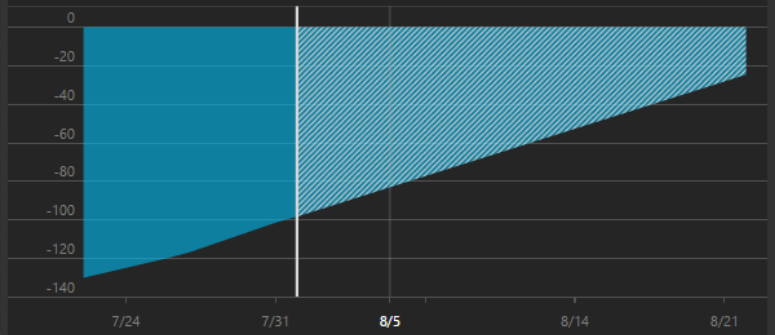
Estimated spend
DEFAULT2

0,00 €

IPHEATMAP

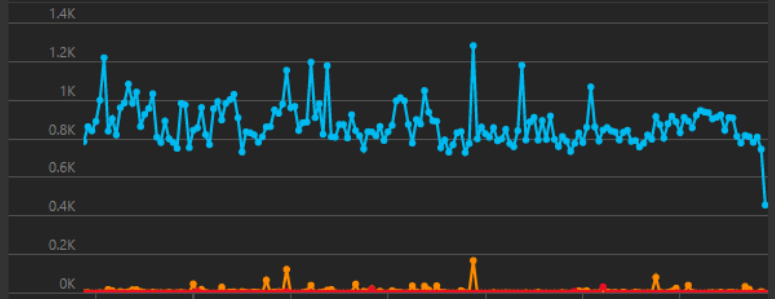
Feedback

Burn rate
VISUAL STUDIO ULTIMATE Z SUBSKRYPCJĄ MSDN



LEFT TO CAP 97.85 EUR
NON-MICROSOFT SERVIC... 0 EUR
STARTING CREDIT 130 EUR

Http 404, Http Server Errors and one more metric past week
JJ09

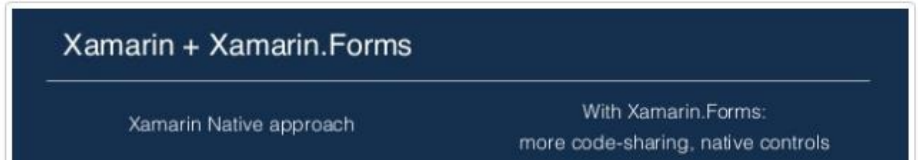


Getting started with Xamarin in 2016

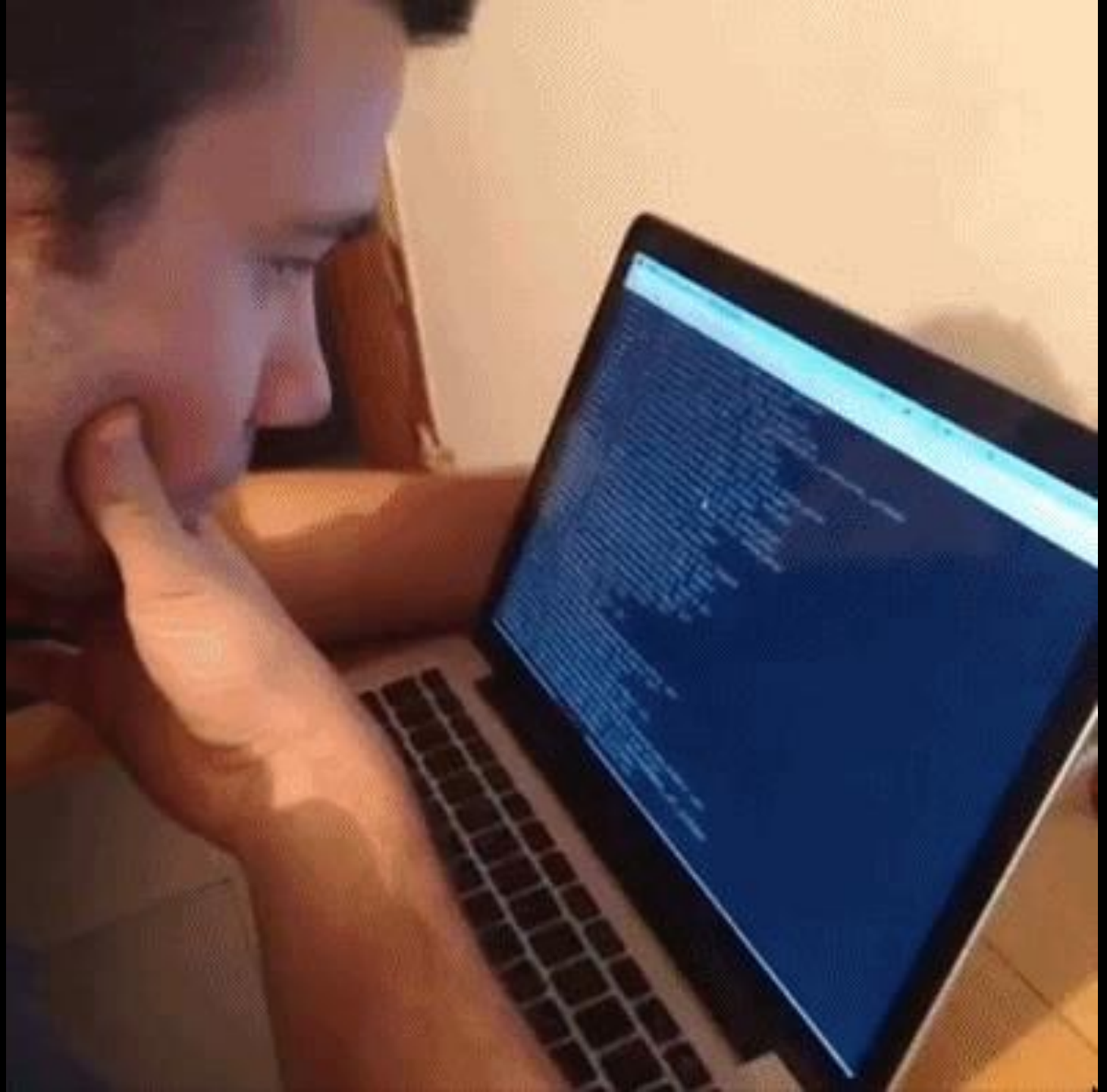
2016-05-30 • Comments [0]

Xamarin is a cross-platform mobile development framework that allows you to build native mobile applications with C# and share code between them. There are two approaches:

- native Xamarin – write native UI code in C# (views cannot be shared, business logic can be shared)
- Xamarin.Forms – write shared UI in XAML (native controls are being generated, and business logic can be shared as well)

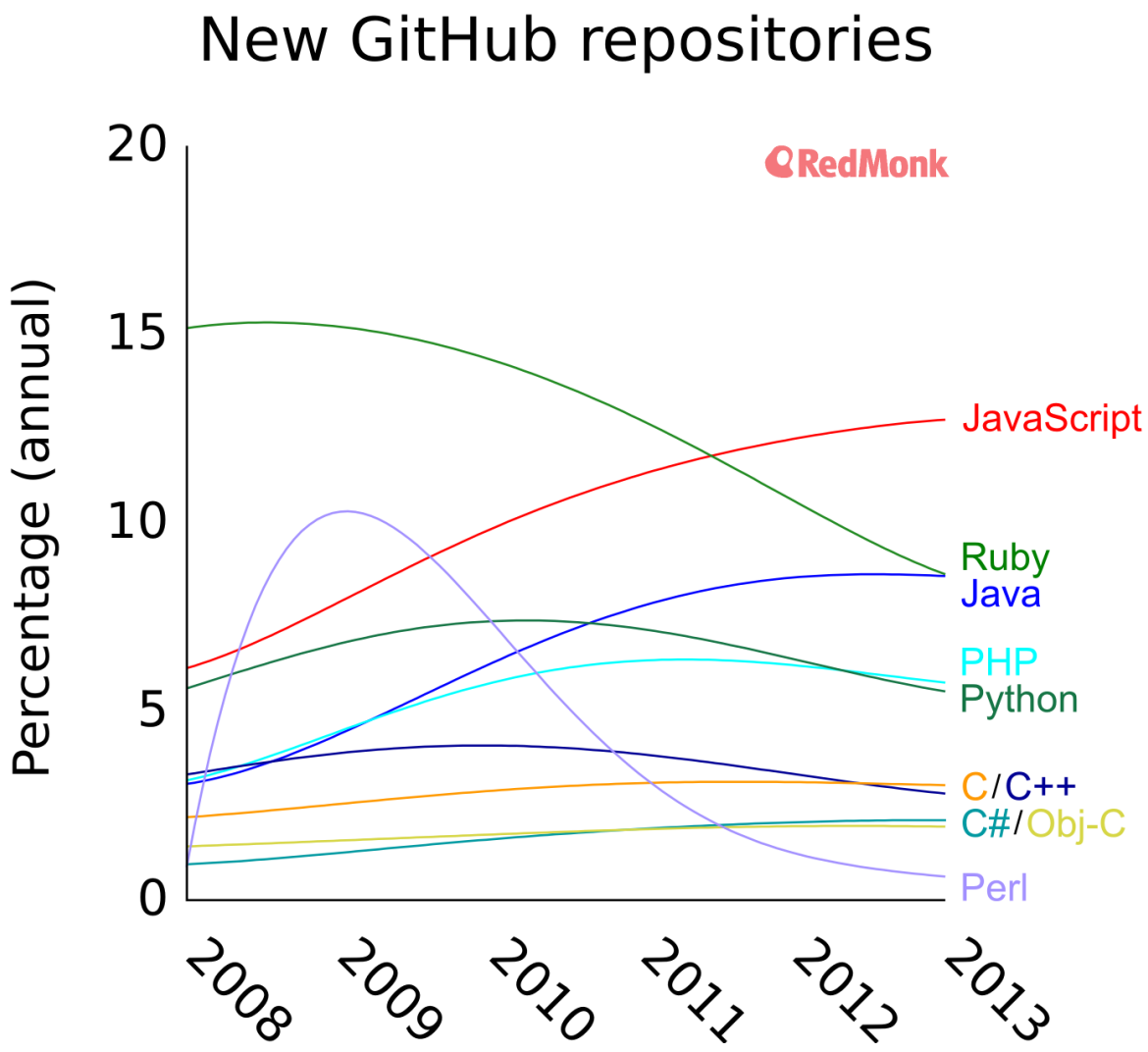


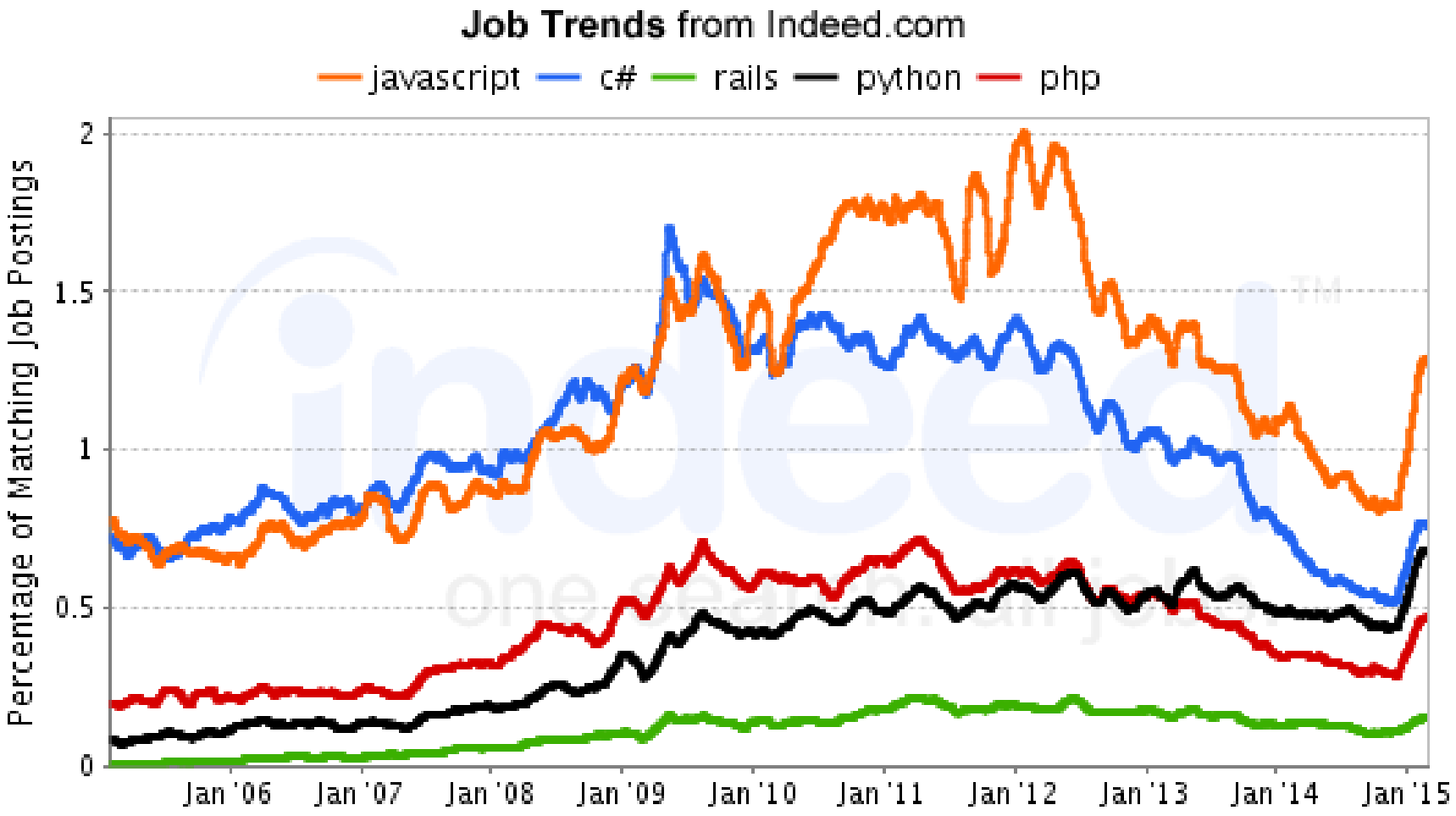
I
C#



…AND THEN THERE WAS

JAVASCRIPT


New GitHub repositories
RedMonk
Percentage (annual)
20
15
10
5
0
2008
2009
2010
2011
2012
2013
JavaScript
Ruby
Java
PHP
Python
C/C++
C#/Obj-C
Perl


Job Trends from Indeed.com
javascript
c#
rails
python
php
Percentage of Matching Job Postings
2
1.5
1
0.5
0
Jan '06
Jan '07
Jan '08
Jan '09
Jan '10
Jan '11
Jan '12
Jan '13
Jan '14
Jan '15

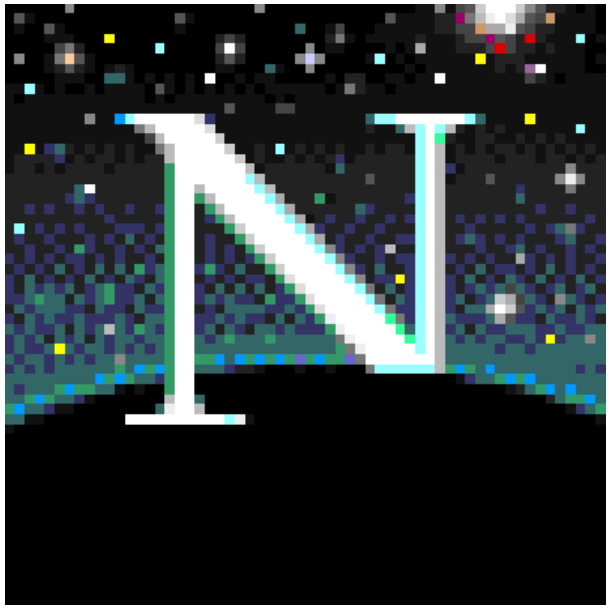
Google Trends | Explore

undefined is not a function
Search term

+ Compare

Worldwide | Past 5 years | All categories | Web Search

Interest over time

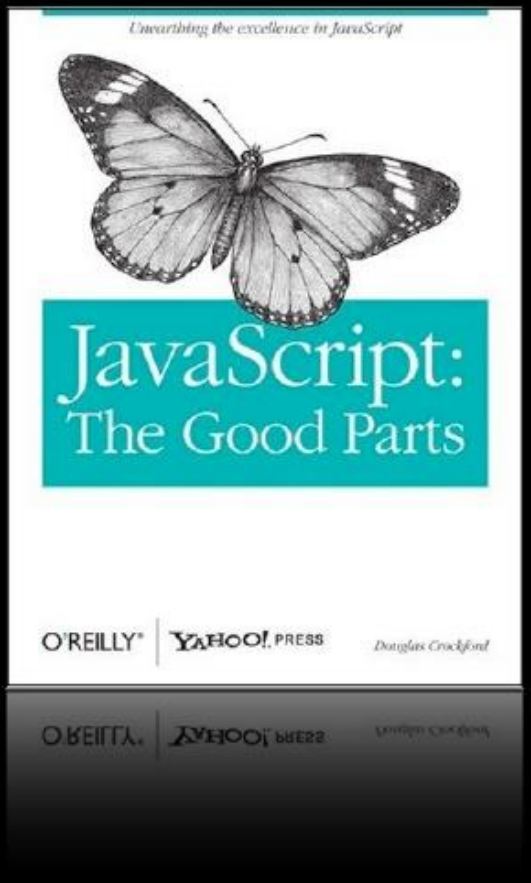


Microsoft
Internet
Explorer 6

AJAX

Asynchronous JavaScript and XML

rocompu
el & Data


Unearthing the excellence in JavaScript
JavaScript:
The Good Parts
O'REILLY
YAHOO! PRESS
Douglas Crockford

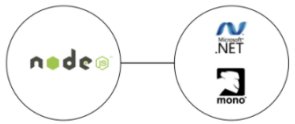
JavaScript: The Good Parts
Crockford
O'REILLY
JavaScript
Programmer's Reference
wrox
White

ANGULARJS
by Google

ember

aurelia

node
JS
TM


node
.NET
mono

DURANDAL

handlebars

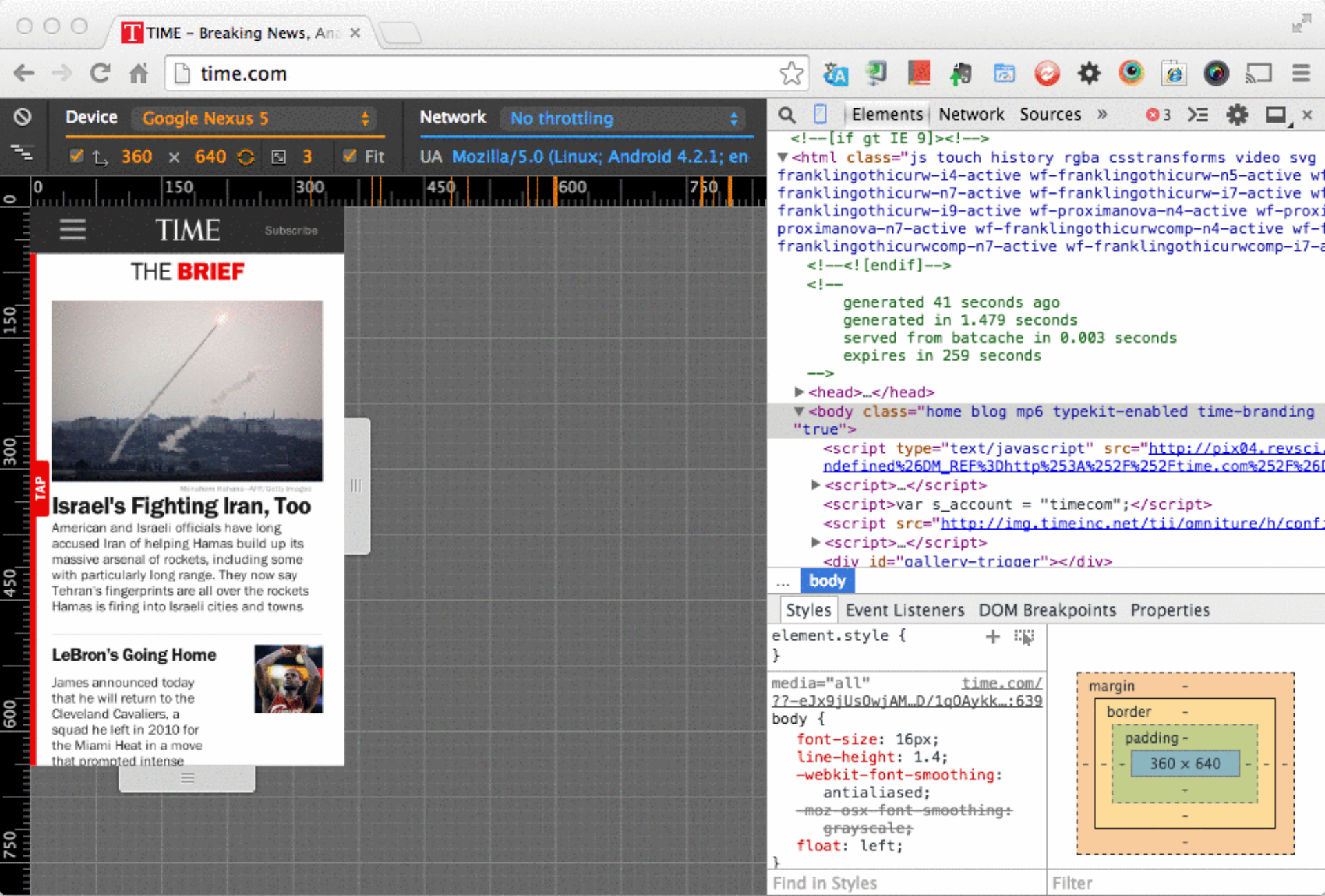
React

Knockout.

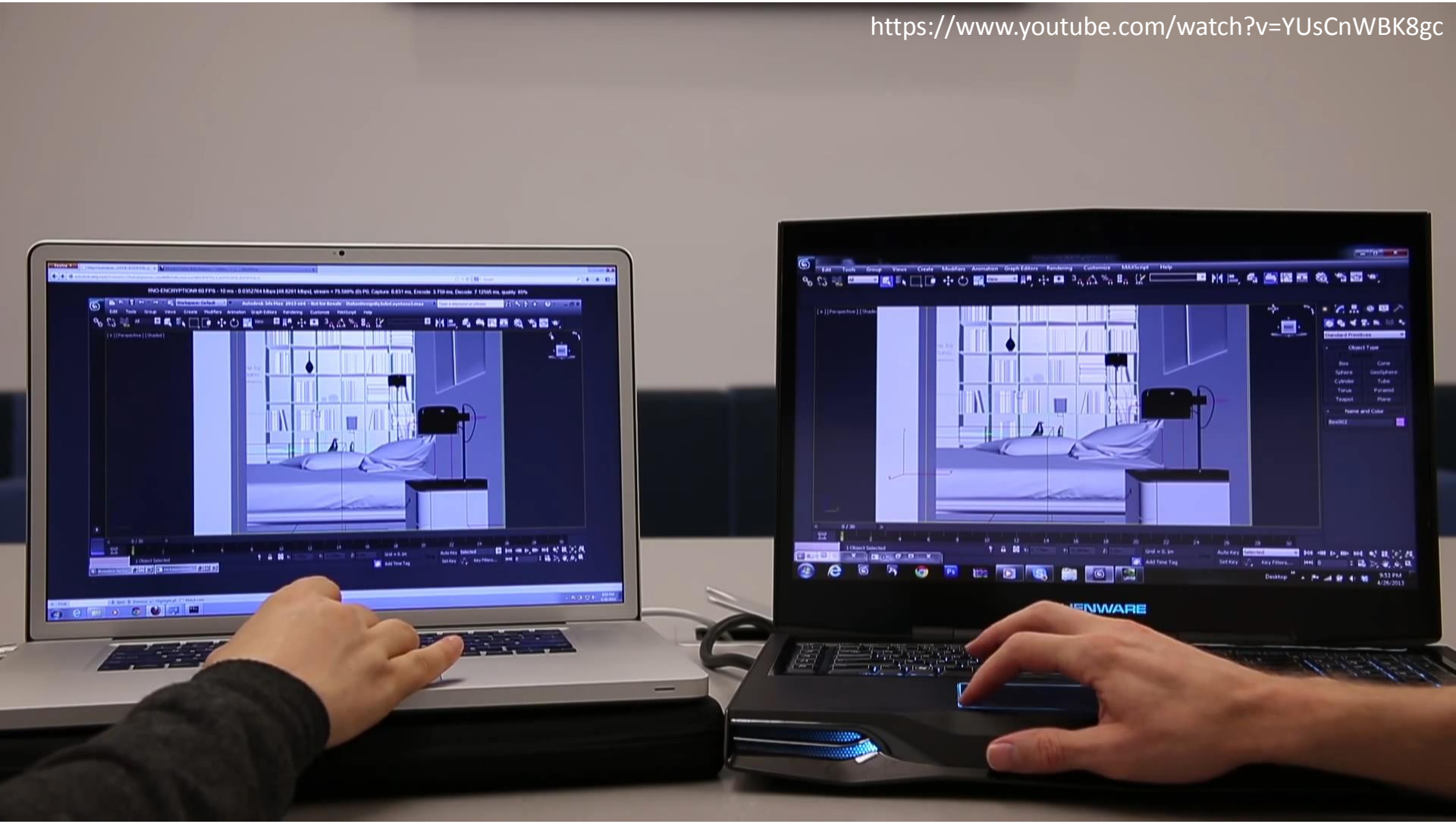
BACKBONE.JS

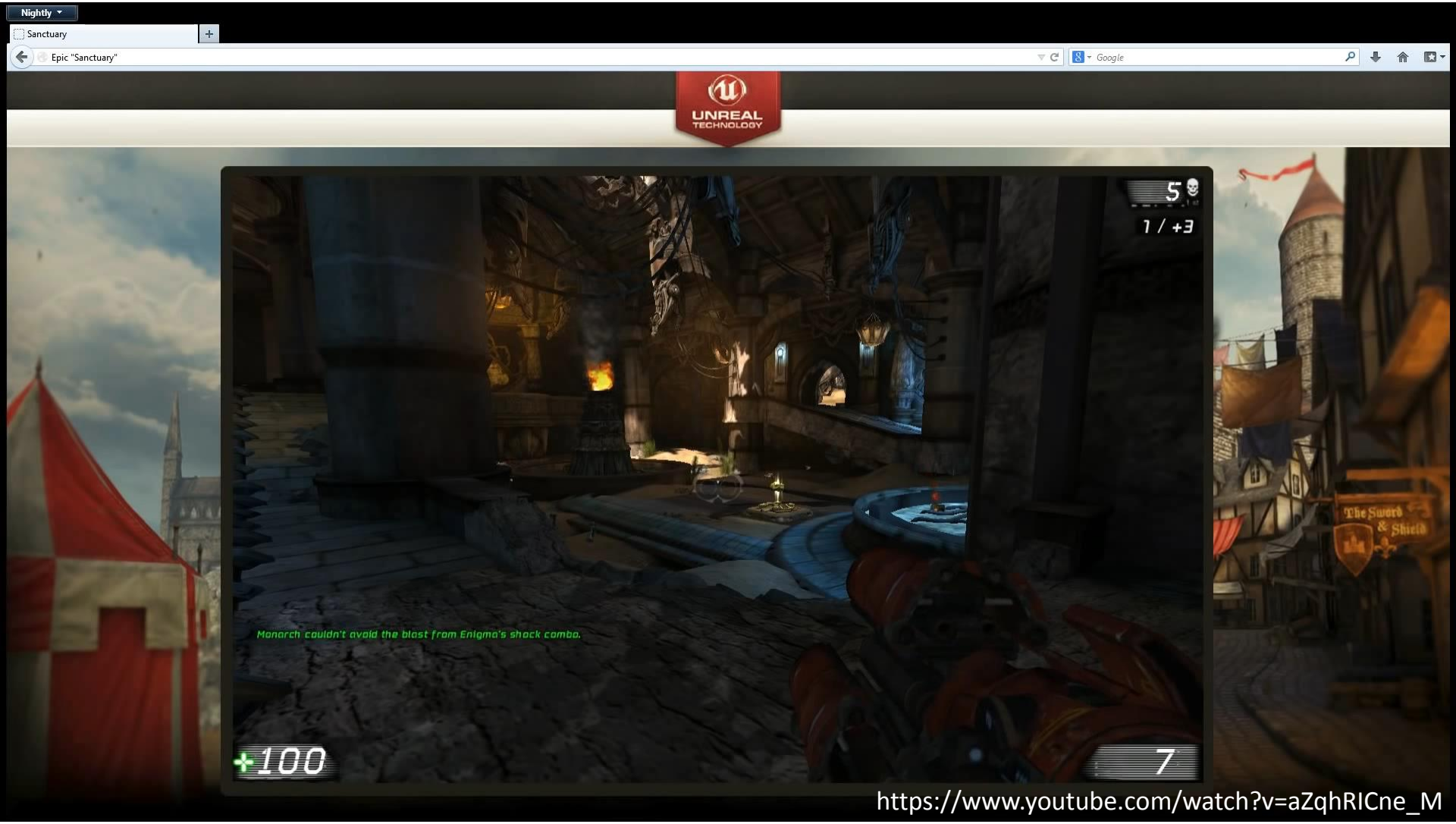
Any application that can be written in JavaScript, will eventually be written in JavaScript.

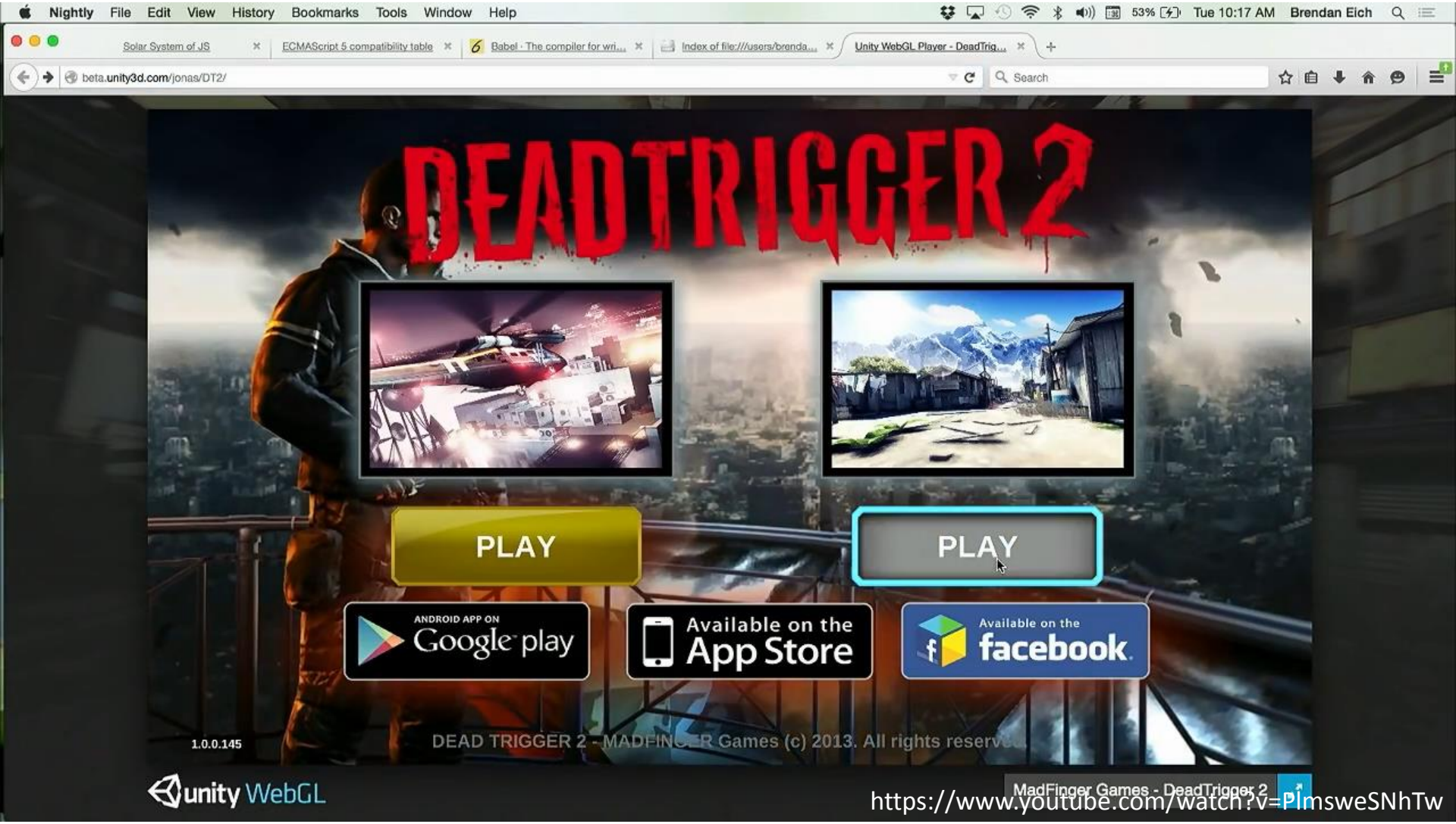
Jeff Atwood (2007)


TIME – Breaking News, An
time.com
Device Google Nexus 5
Network No throttling
360 × 640 3 Fit
UA Mozilla/5.0 (Linux; Android 4.2.1; en
TIME Subscribe
THE BRIEF
Israel's Fighting Iran, Too
American and Israeli officials have long accused Iran of helping Hamas build up its massive arsenal of rockets, including some with particularly long range. They now say Tehran's fingerprints are all over the rockets Hamas is firing into Israeli cities and towns
LeBron's Going Home
James announced today that he will return to the Cleveland Cavaliers, a squad he left in 2010 for the Miami Heat in a move that prompted intense
Elements Network Sources
<!--[if gt IE 9]><!-->
<html class="js touch history rgba csstransforms video svg
franklingothicurw-i4-active wf-franklingothicurw-n5-active wf
franklingothicurw-n7-active wf-franklingothicurw-i7-active wf
franklingothicurw-i9-active wf-proximanova-n4-active wf-proxi
proximanova-n7-active wf-franklingothicurwcomp-n4-active wf-f
franklingothicurwcomp-n7-active wf-franklingothicurwcomp-i7-a
<!--<![endif]-->
<!--
generated 41 seconds ago
generated in 1.479 seconds
served from batcache in 0.003 seconds
expires in 259 seconds
-->
<head>…</head>
<body class="home blog mp6 typekit-enabled time-branding
"true">
<script type="text/javascript" src="http://pix04.revsci.
ndefined%26DM_REF%3Dhttp%253A%252F%252Ftime.com%252F%26
<script>…</script>
<script>var s_account = "timecom";</script>
<script src="http://img.timeinc.net/tii/omniture/h/conf
<script>…</script>

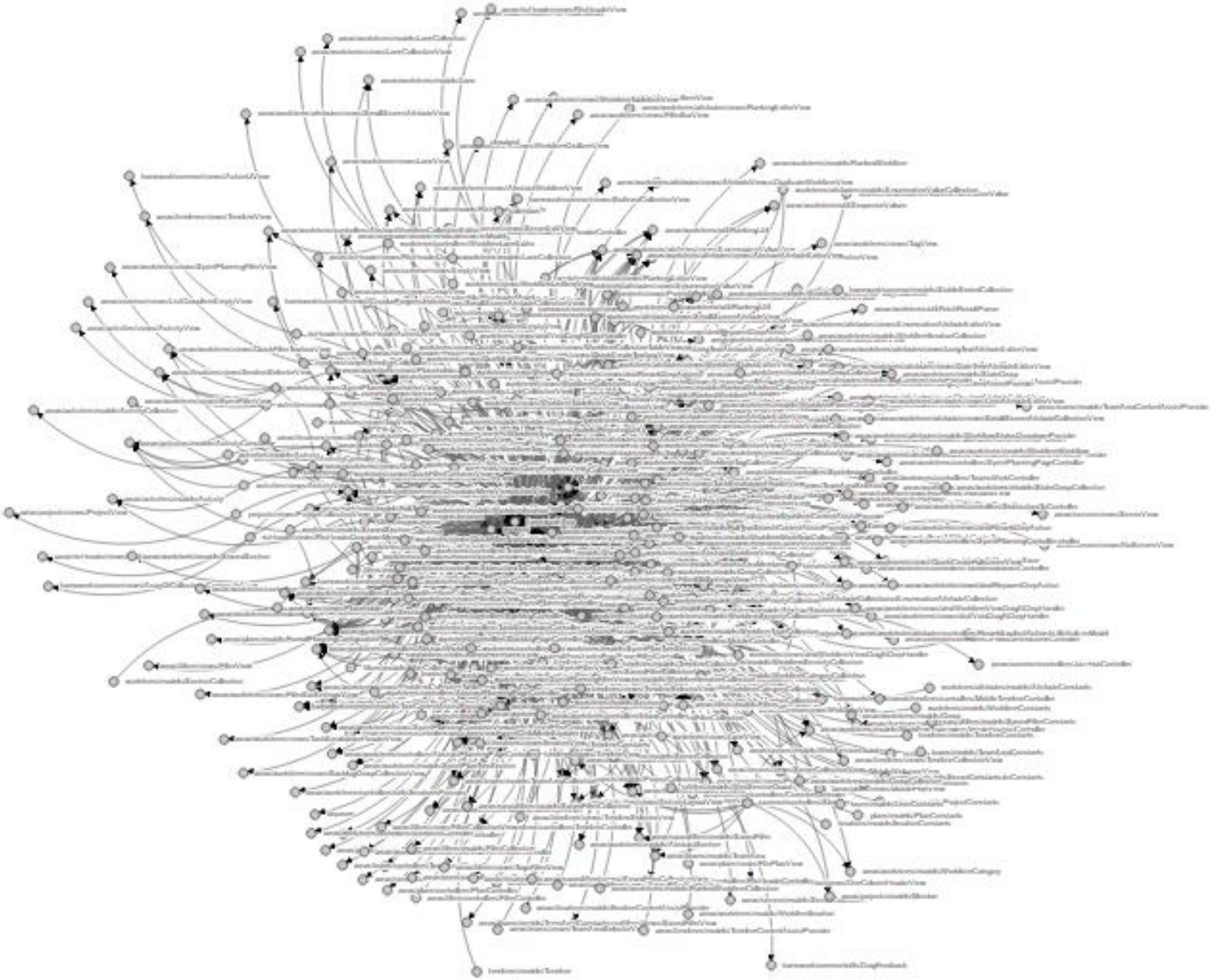
body
Styles Event Listeners DOM Breakpoints Properties
element.style {
}
media="all" time.com/
??-eJx9jUsOwjAM…D/1qOAykk…:639
body {
font-size: 16px;
line-height: 1.4;
-webkit-font-smoothing:
antialiased;
-moz-osx-font-smoothing:
grayscale;
float: left;
}
margin
border
padding
360 × 640
Find in Styles
Filter


https://www.youtube.com/watch?v=YUsCnWBK8gc

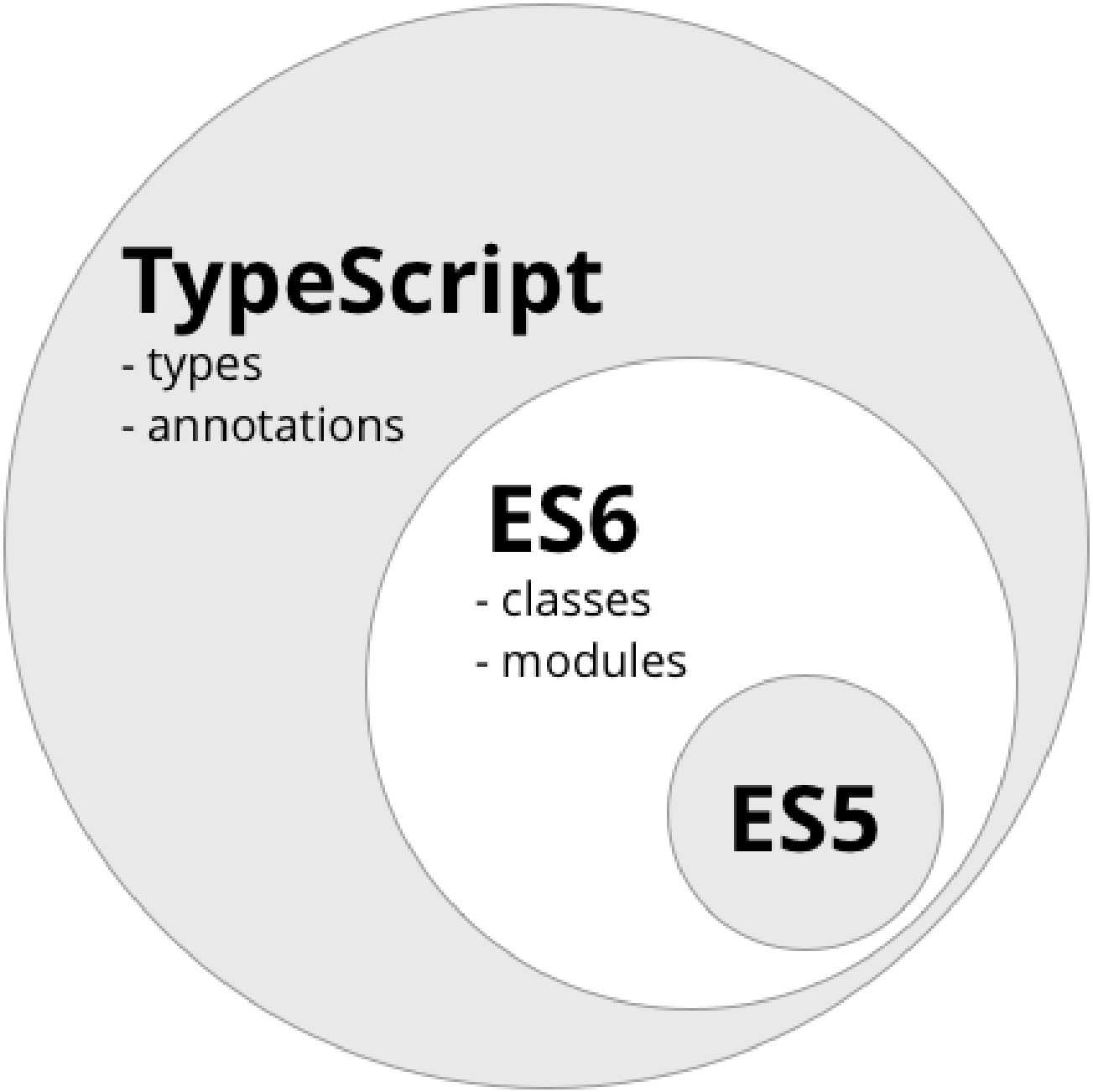

Nightly
Sanctuary
Epic "Sanctuary"
Google
UNREAL
TECHNOLOGY
5
1 / +3
Monarch couldn't avoid the blast from Enigma's shock combo.
+100
7
The Sword & Shield
https://www.youtube.com/watch?v=aZqhRICne_M

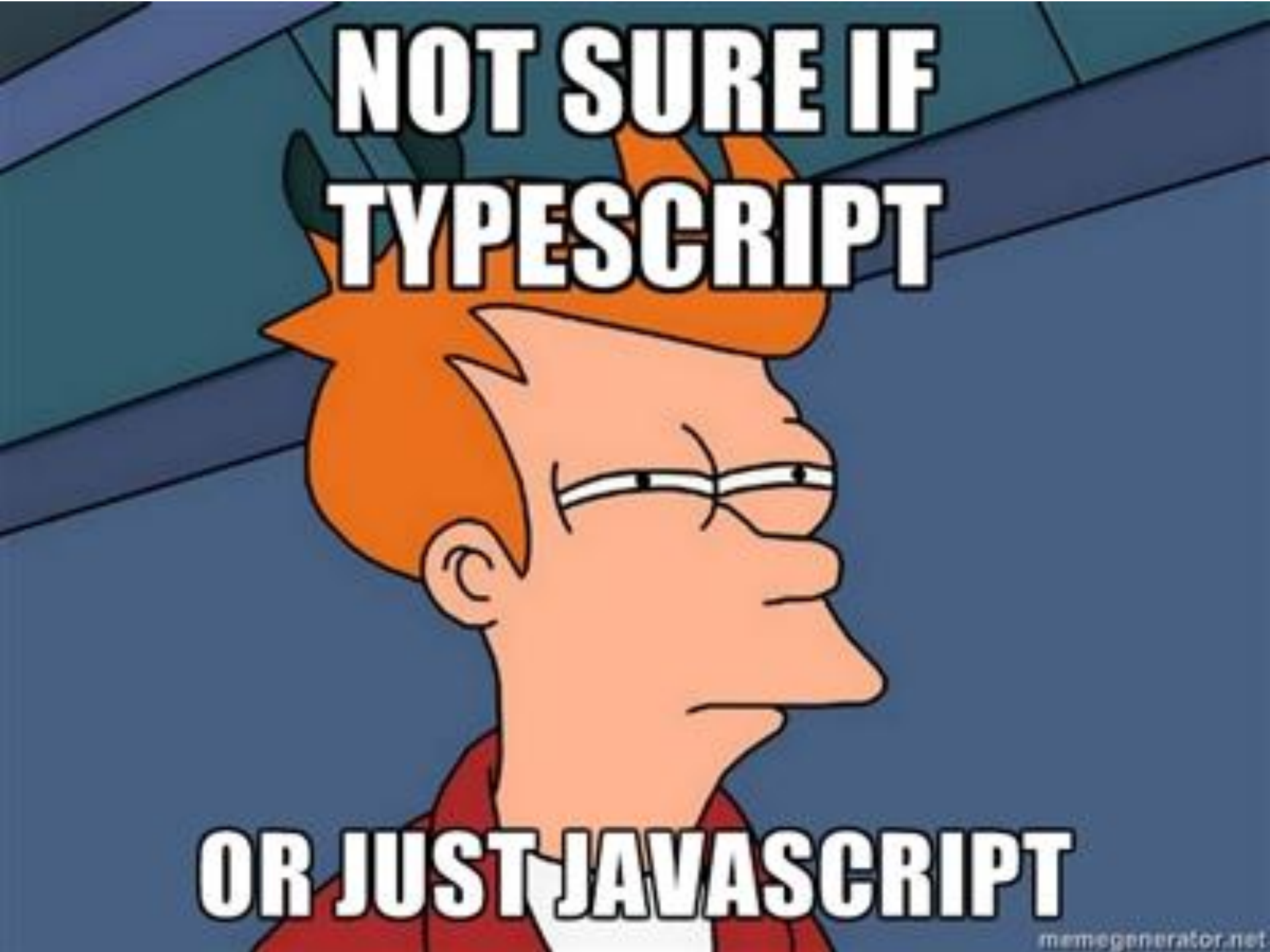


https://www.youtube.com/watch?v=PlmsweSNhTw



TypeScript


TypeScript
- types
- annotations
ES6
- classes
- modules
ES5


NOT SURE IF
TYPESCRIPT
OR JUST JAVASCRIPT
memegenerator.net

JavaScript

```
var Person = (function () {
    function Person(fName, lName) {
        this.firstName = fName;
        this.lastName = lName;
    }

    Person.prototype.hello = function ()
{
        return "Hello " +
               this.firstName + " " +
               this.lastName + "! ";
    };

    Person.prototype.print = function ()
{
        console.log(this.hello());
    };

    return Person;
})();
```

TypeScript

```
interface Printable {
    print(): void;
}

class Person implements Printable {
    private firstName: string;
    private lastName: string;

    constructor(fName: string,
                lName: string) {
        this.firstName = fName;
        this.lastName = lName;
    }

    public hello(): string {
        return "Hello " +
               this.firstName + " "
+
               this.lastName + "! ";
    }

    public print(): void {
        console.log(this.hello());
    }
}
```

C#

```
interface Printable
{
    void Print();
}

class Person : Printable
{
    private string firstName;
    private string lastName;

    public Person(string fName,
                  string lName)
    {
        this.firstName = fName;
        this.lastName = lName;
    }

    public string Hello()
    {
        return "Hello " +
               this.firstName + " " +
               this.lastName + "! ";
    }

    public void Print()
    {

Console.WriteLine(this.Hello());
    }
}
```

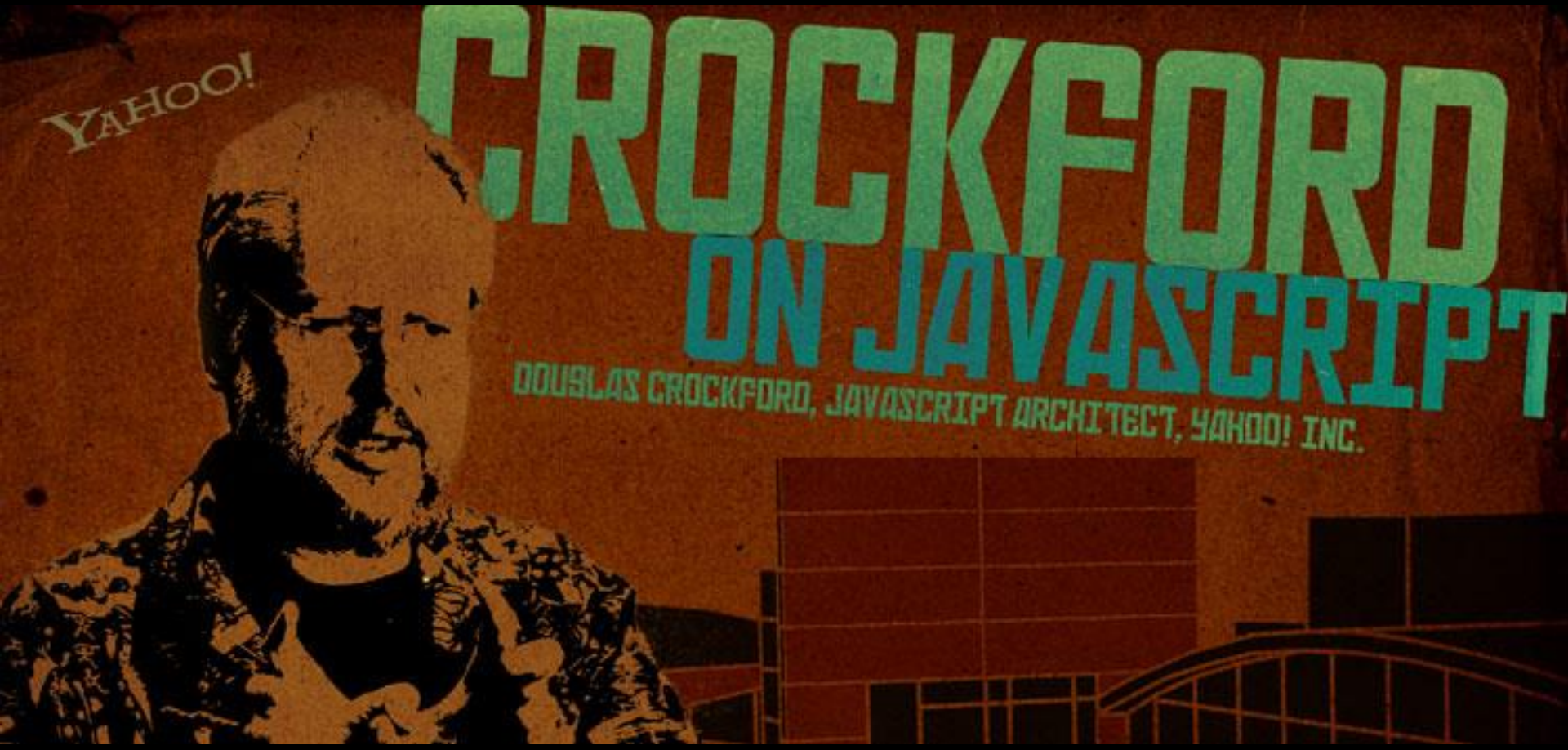
npmjs.com

gulpjs.com

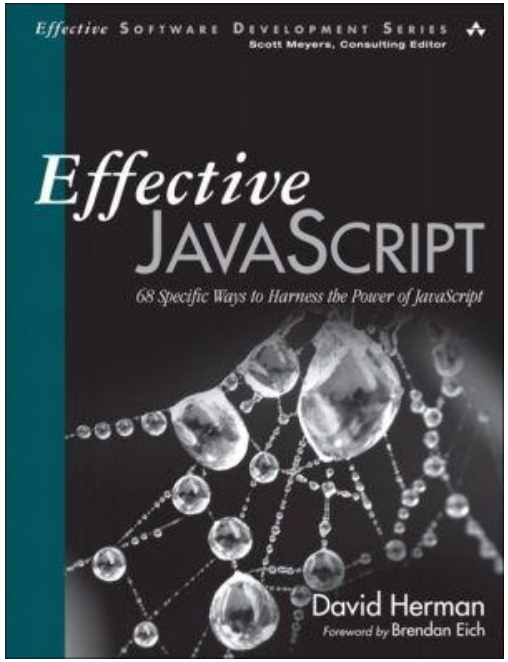
github.com/typings/typings

https://github.com/remojansen/ts-vscode-boilerplate

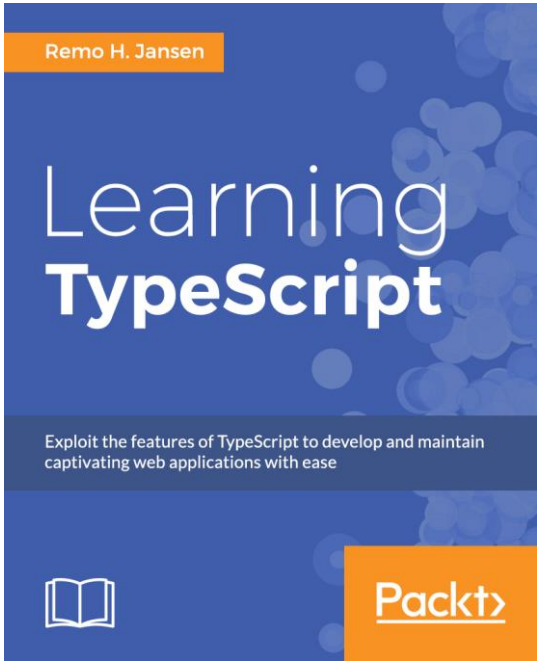
aurelia



http://javascript.crockford.com/


Effective Software Development Series
Scott Meyers, Consulting Editor
Effective JavaScript
68 Specific Ways to Harness the Power of JavaScript
David Herman
Foreword by Brendan Eich

Unearthing the Excellence in JavaScript
JavaScript: The Good Parts
O'REILLY
YAHOO! PRESS
Douglas Crockford

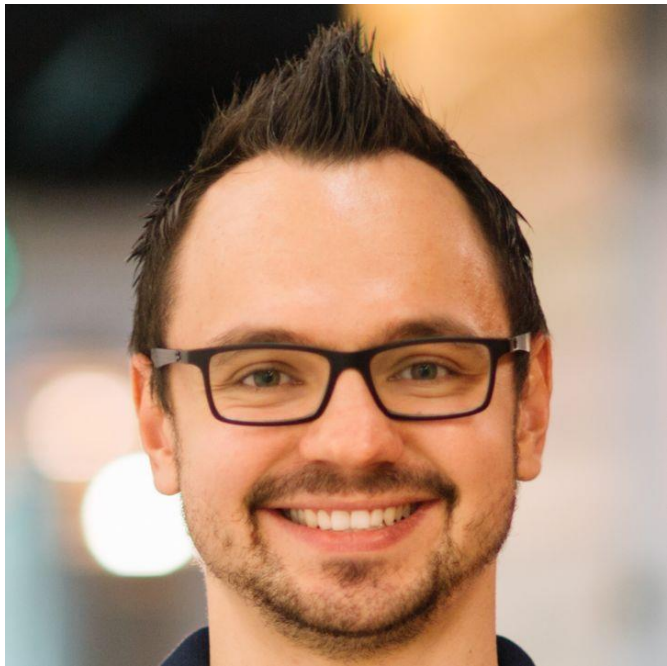

Remo H. Jansen
Learning TypeScript
Exploit the features of TypeScript to develop and maintain captivating web applications with ease
Packt

www.typescriptlang.org

TypeScript Fundamentals

http://www.pluralsight.com/courses/typescript

STAY IN TOUCH!

jj09.net

@JakubJedryszek