

THE NEW JAVASCRIPT ERA AND NODE.JS

PRODUCED BY: LUIGI MASELLI

and cut and paste

mostly

:P

ABSTRACT

/ME

hackerpreneur =~ Ruby/JS/HTML5/CSS3 Developer, CS degree @ Unito, SEO, blogger, Linux/Unix fan, techno-geek, minimalist, OpenData & OpenFuffa demistificator, freelance

Twitter Place Finder Info

Susa (Susa, TO) ×

Gianni
I'm at Mamma's House [pic]: <http://t.co/7fStqBvYRu>

Twitter Place Finder Info

Susa

(Susa, TO)

There are 15 tweets in this area, you can also try the map or other places nearby: [Bardonecchia](#), [Avigliana](#), [Trana](#).

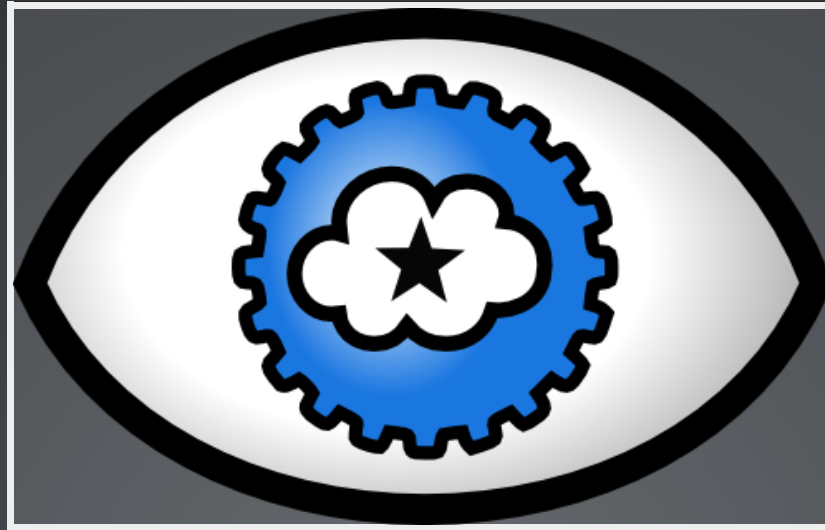
★ Map Tweet 182

Federico Surace: In poche parole. Barcollo ma non mollo. 2 days ago

Gianni: I'm at Mamma's House <http://t.co/EkabkCFbcG> 2 days ago

Gianni: I'm at Susa (Susa, TO) <http://t.co/J1xen2jq6e> 2 days ago

<http://twitter-place-finder.grigio.org>
(N/A in China, Israel, Mid-East)



<http://openfuffa.grigio.org>
Slides => <http://grigio.org/openfuffa/index.html>

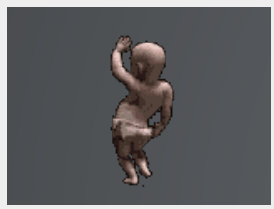


Open Geek Meeting
<http://ogm.heroku.com>

~ JAVASCRIPT HISTORY

- 1995 - Javascript birth - Brendan Eich (Netscape) != Java
- 1996 - Java write-once-run-everywhere (debug everywhere)
- 1996 - ECMAScript standardization begins
- 1999 - Geocities Gold Era, Web Browsers War I,..

GEOCITIES ERA



The screenshot shows a web page with a black background and green stars. At the top, there is a "YAHOO! GeoCities" logo. Below it is a yellow banner with black diagonal stripes and the text "UNDER CONSTRUCTION" in black. To the left of the banner are two yellow diamond-shaped warning signs: one with a person walking and another with a person slumped over a desk. Below the banner is a navigation menu with links for "Archiving Guestbook", "E-mail", "News/Blog", "E-Commerce", and "About the Webmaster". A "SPAMMING" sign with a red circle and slash is also visible. The main content area features a large "xkcd" logo in a purple box. Below the logo is a paragraph of text: "". Below this is a red line of text: "To commemorate this, xkcd.com has been redesigned." At the bottom, there is a green text "COMIC TITLE: Nachos" and a navigation bar with buttons for "Back", "Home", "Forward", "Stop", and "Refresh".

~ NEW JAVASCRIPT HISTORY

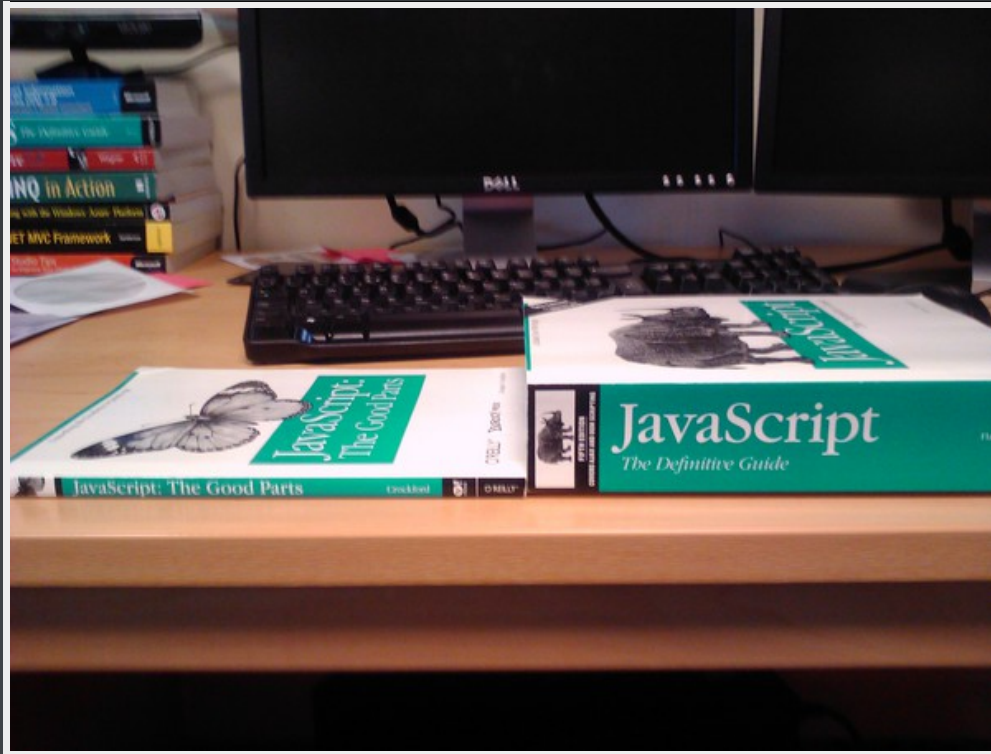
- 2006 - jQuery =~ Javascript - John Resig
- 2008 - JavaScript: The Good Parts - O'Reilly Media
- 2009 - Node.JS - Javascript server-side - Ryan Dahl (Joyent)
- 2009 - Coffeescript transcompiler to js, influenced ES6 - Jeremy Ashkenas
- 2012 - BatNaN

I KNOW PROGRAMMING, I KNOW JAVASCRIPT



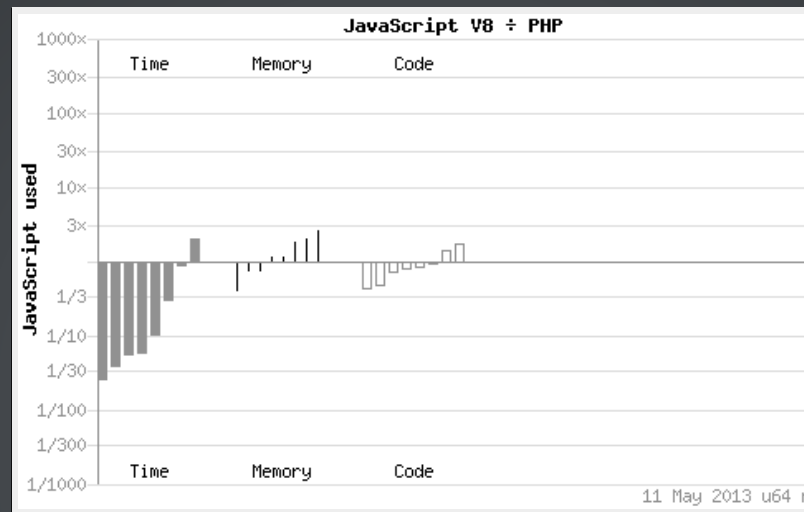
**NO LOVE FOR JAVASCRIPT, NOT A LOGO,
JAVASCRIPT THE GOOD PARTS,
COFFEESCRIPT TRIES TO FIX IT NOW ..**

BatNAN <https://www.destroyallsoftware.com/talks/wat>



HOWEVER..

JAVASCRIPT IS THE FASTEST SCRIPTING LANGUAGE



Also because it runs on the client.

<http://benchmarkgame.alioth.debian.org/u64/benchmark.php?test=all&lang=v8&lang2=php&data=u64>

JAVASCRIPT IS EVERYWHERE

Desktop, tablet, smartphone(Browser, WebOS), server.

No devtools needed.

**NODE.JS = V8 + LIBS (HTTP, CRYPTO,
FILESYSTEM, PROCESS, ZLIB)**

HELLO-WORLD.JS # SCRIPTING

```
#!/usr/bin/env node

process.on('exit', function(code){ // # Integrated EventEmitter
  console.log("code " + code);
});

setTimeout(function(){ // # Like in the browser
  console.log('world '+ process.env['MYVAR']);
}, 1000);

console.log("Hello");
```

```
chmod +x hello-world.js
MYVAR=netstudent ./hello-world.js # quiz: output???
```

```
Hello
world netstudent
code 0
```

HELLO-WORLD2.JS # WEB SERVER

```
var http = require('http');

var server = http.createServer(function (request, response) {
  response.writeHead(200, {"Content-Type": "text/plain"});
  response.end("Hi client!\n"); // Output to client
});

// Listen on 0.0.0.0:8002
server.listen(8002);

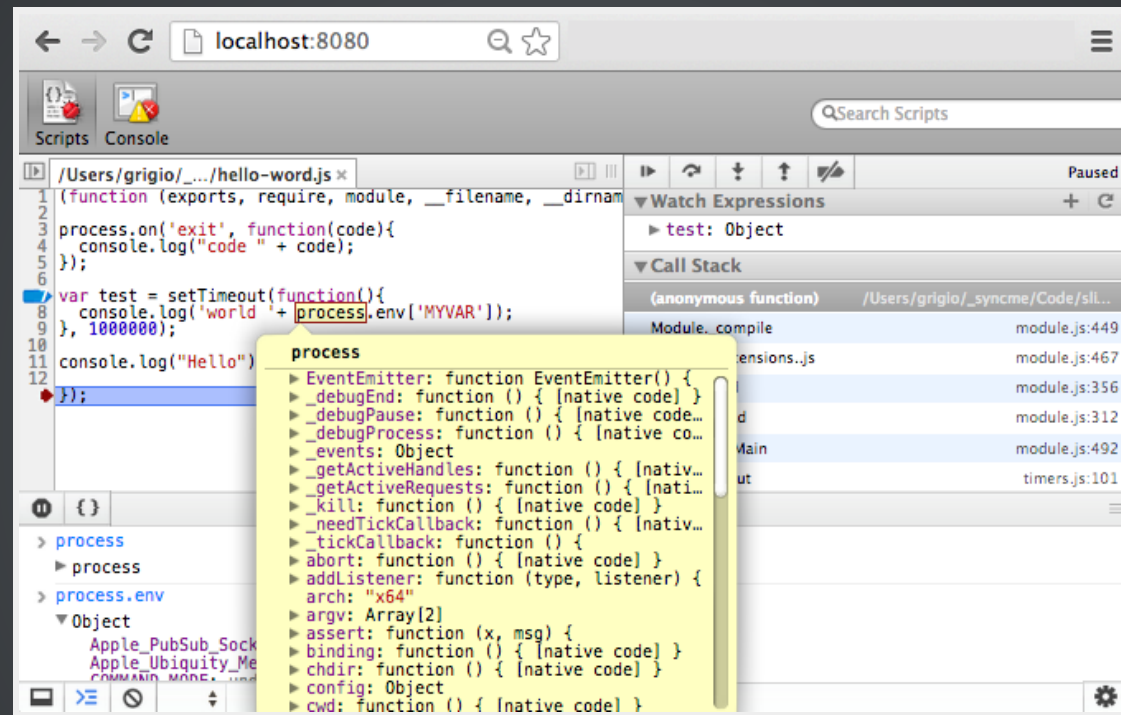
// Output on server
console.log("Server running at: "+server.address().address+": "+server.addr
```

```
node hello-world2.js&
curl localhost:8002 # quiz: output???
```

```
Hi client
```

```
nodemon --debug-brk hello-word.js &; node-inspector # quiz: output???
```

WOW! DEBUG EVERYWHERE: NODE-INSPECTOR



NPM (NODE PACKAGE MANAGER)

- package.json
- npm install # -g
- node_modules
- ready! :)

NPM (COMMONJS) VS REQUIREJS (AMD) VS ES6 HARMONY

```
// Node CommonJS
var oz = require('os');
oz.uptime();
```

forget `$(document).ready()`, js on demand

```
// # RequireJS - define jquery , preprocessors for sass, coffeescript, han
require(['./jquery', 'async!http://maps.google.com/maps/api/js?sensor=fals
    $('body').hide();
    console.log(google.maps.version);
});
```

```
// # ES6 - a static module reference
import 'math' as M;

// reify M as an immutable "module instance object"
alert("2π = " + M.sum(M.pi, M.pi));
```

OTHER TOOLS

Grunt (build system, ES6 transpiler), Bower (AMD package manager for browser js)

Express (Sinatra), sails, socketio

METEOR

JS on the client, on the server, on db (MongoDB)
Easy Full-Stack framework, Live data sync, Latency
compensation, Priviledged Environment.

RECAP

- No alternative in client/browser, many frontend devs already learnt it
- Javascript is fast and everywhere multipurpose language
- Code reuse on the client and on the server
- Still evolving but already mature for realtime/websocket tasks

CREDITS

<http://addyosmani.com/writing-modular-js/>

<http://en.wikipedia.org/wiki/JavaScript>

<http://images.google.com> <http://hakim.se>

<http://wiki.ecmascript.org/doku.php?>

[id=harmony:modules_examples](http://wiki.ecmascript.org/doku.php?id=harmony:modules_examples)

THANKS!



<http://grigio.org/news/index.html>

CONTACTS

twitter: [@grigio](https://twitter.com/grigio)

blog: <http://grigio.org>