



INTRODUCING JAVASCRIPT

Asynchronicity is a tough word to spell...

JAVASCRIPT IS NOT JAVA

...but it's inspired by it...



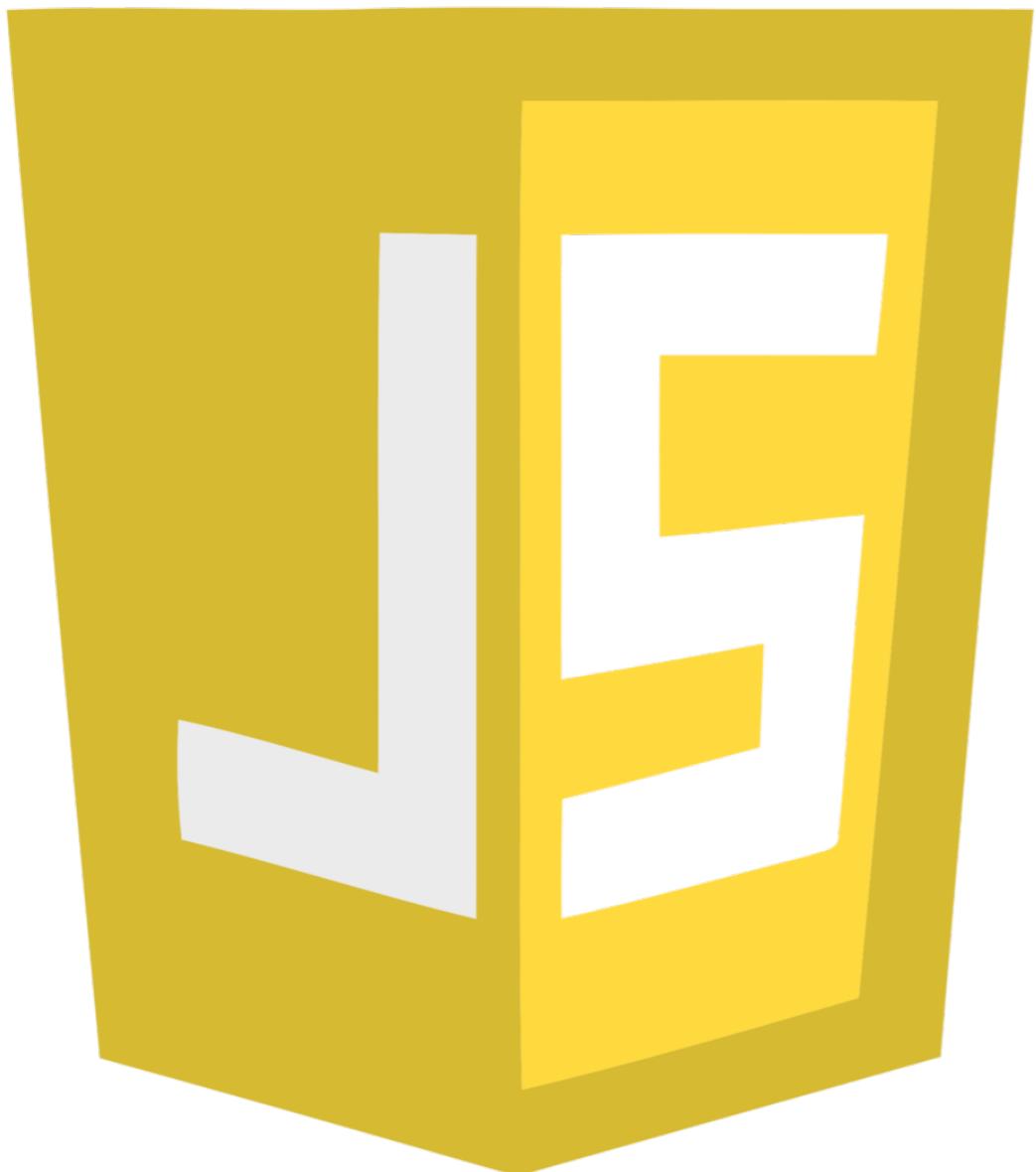
BRENDAN EICH

- Worked for Netscape
- Co-founded Mozilla
- Created JavaScript
 - Based it on the Java syntax
 - Wrote the prototype in 10 days
- Was originally called LiveScript

JAVASCRIPT IS A LOOSE LANGUAGE

...it definitely gets around...

JavaScript



LOOSELY TYPED

.....

- Casts automatically (sometimes)
 - `5 + "5" = "55"`
 - `5 * "5" = 25`
 - `5 == "5" = true`
- Variables, properties, parameters, functions, and methods do not have to be data typed
- TypeScript is preprocessing language that provides static typing (as well as classes and interfaces) to JavaScript

JAVASCRIPT CAN BE WRITTEN IN THE BROWSER

...but they all have different engines...

CHROME V8



- Written in C++
- Powers NodeJS and MongoDB
(changed in Ver. 3.2)
- Existed since 2008
- Compiles directly to machine code making it stupid fast

FIREFOX SPIDERMONKEY



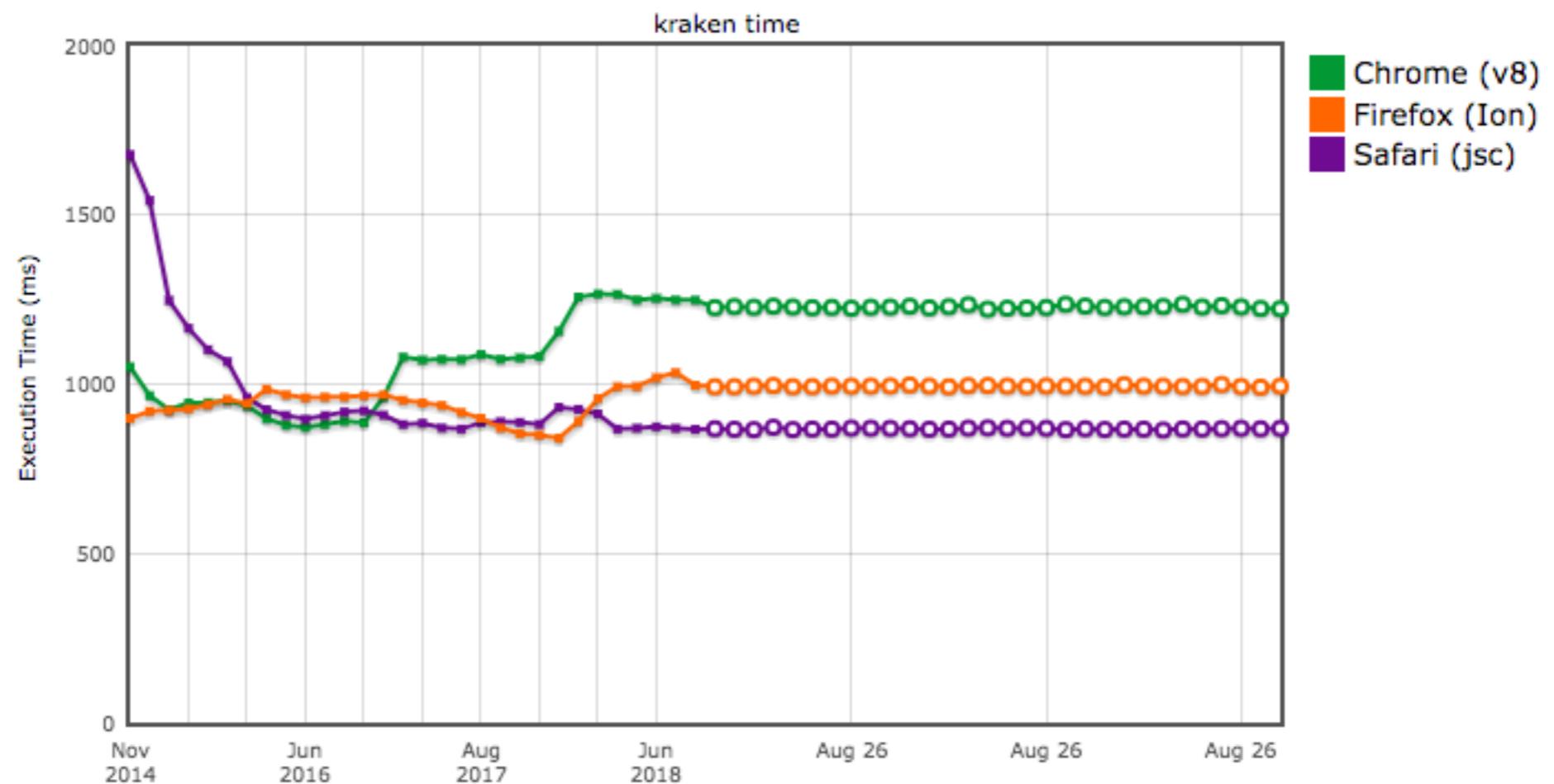
- Written in C & C++
- The first JavaScript engine
- Powers GNOME desktop
- Powers MongoDB (as of version 3.2)

SAFARI NITRO (JAVASCRIPTCORE)



- Written by Apple for MacOS applications
- Currently compiles directly into native machine code

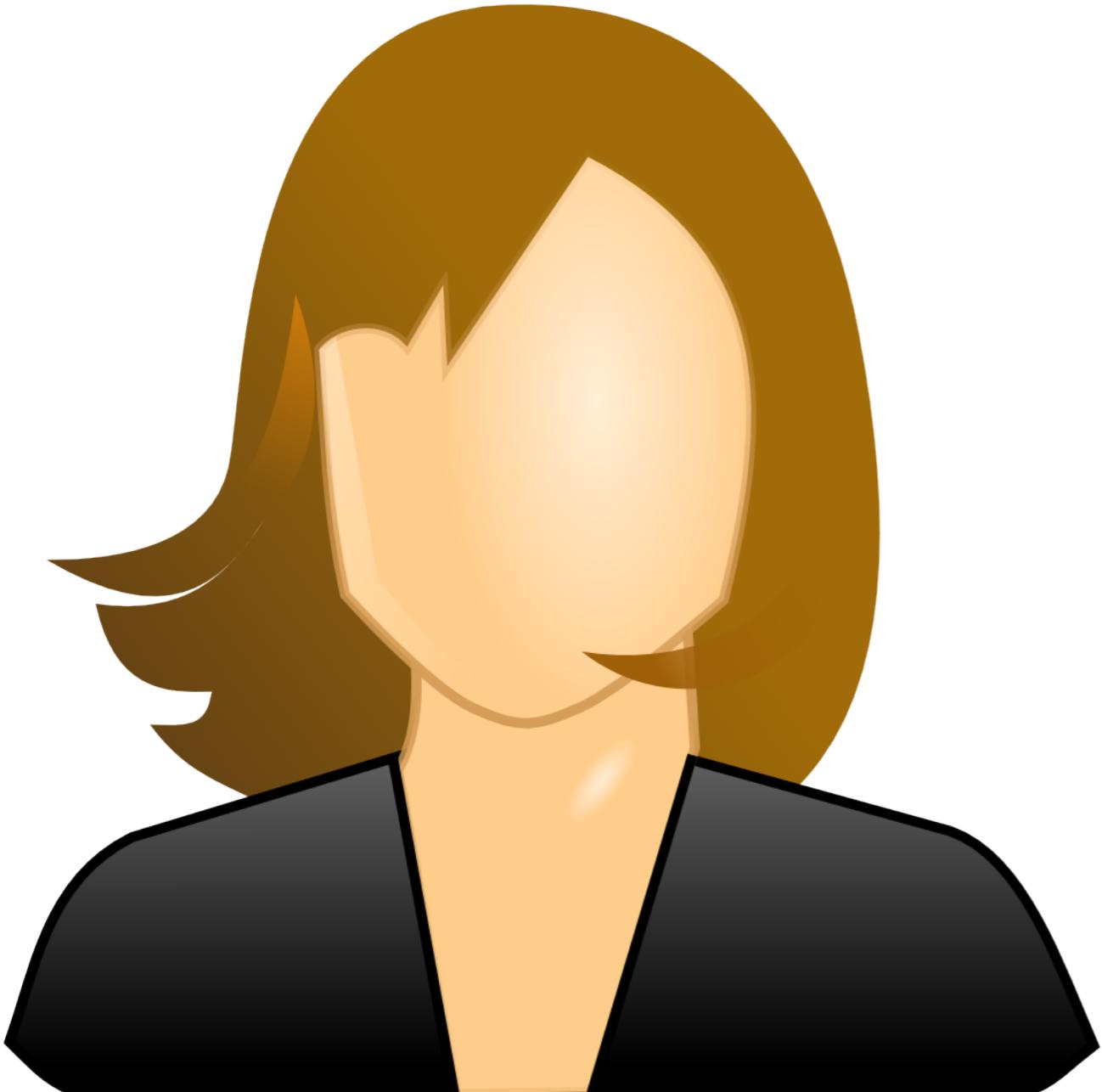
...BUT WHICH ONE IS FASTER???



**IN THE END, IT DOESN'T
MATTER**

...love 'em or hate 'em, the user is important...

THE ALMIGHTY USER



- Defines accessibility
- Establishes audience
- Declares popularity
- Determines usability
- Controls environment

**JAVASCRIPT IS AN INTERPRETIVE
SINGLE THREADED, EVENT-BASED,
ASYNCHRONOUS, NON-BLOCKING,
CALLBACK DRIVEN LANGUAGE**

...[https://vimeo.com/96425312...](https://vimeo.com/96425312)