THE ART AND SCIENCE OF WEB DEVELOPMENT

Sujay Khandekar
Splash 2015
April 11th, 2015

WHAT IS ACM

Association for Computing Machinery

Largest Student Chapter in the Nation

21 Special Interest Groups (SIGs)

Reflections|Projections & HackIllinois

WHAT IS FRONT-END?

The side of the application that faces the user

HTML, CSS, Javascript

Visual Design

THE WEB

Web Server

Web Browser

Web Page

WEB SERVER

Web Server = Computer

Holds all of the files for website

Amazon Web Services (AWS)

Accessed By Uniform Resource Locator (URL)

WEB BROWSER

Grabs all of the resources (files)

Chrome, Firefox, Safari, Opera, Internet Explorer

Creates webpage from files

Usage share of all browsers for February 2015

Source	Chrome	Internet Explorer	Firefox	Safari	Opera	Others
StatCounter	50.15%	13.09%	11.56%	13.64%	3.79%[††]	6.97%

Usage share of all browsers for December 2014

Source	Chrome	Internet Explorer	Firefox	Safari	Opera	Others
StatCounter	48.0%	15.21%	11.27%	14.0%	3.87%[††]	7.63%
Wikimedia	46.42%	10.67%	14.97%	21.73%	2.33%	3.88%[†]

The following tables summarize the usage share of desktop web browsers for the indicated months.

Usage share of desktop browsers for December 2014

Source	Chrome	Internet Explorer	Firefox	Safari	Opera	Others
NetApplications	22.7%	59.1%	11.9%	5.0%	0.9%	0.4%
StatCounter	49.7%	24.6%	18.0%	4.7%	1.5%	1.6%
W3Counter	42.5%	17.6%	15.6%	14.6%	3.2%	6.5%
Wikimedia	48.1%	17.5%	16.7%	4.8%	1.5%	11.4%[†]

WHAT WAS THE FIRST WEB BROWSER?

THE WEB PAGE

HTML (Hypertext Markup Language)

CSS (Cascading Style Sheets)

Javascript

LET'S MAKE A WEBSITE!

HTML

Hyper**t**ext **M**arkup **L**anguage

Uses tags

<html><div><body><h1><button>

Forms structure of the website

CSS

Cascading **S**tyle **S**heets

Based on orders of specificity

Provides visual aspects to webpage

Brings "style" to the webpage

JAVASCRIPT **VS** JAVA

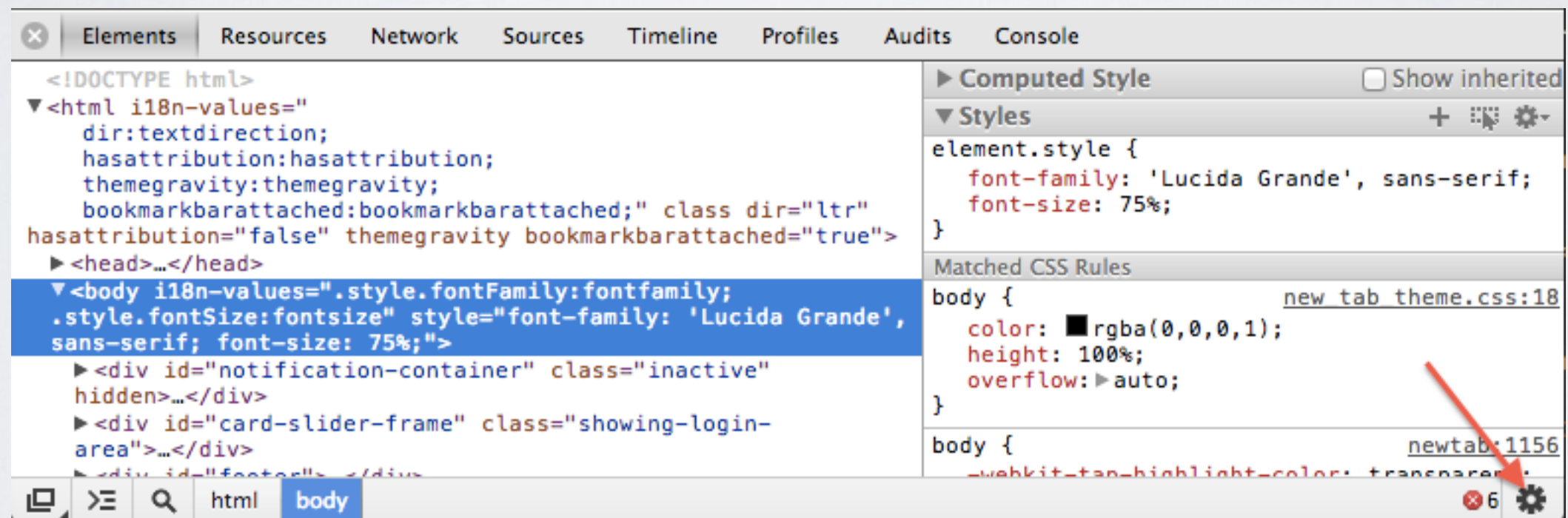# WHO INVENTED JAVASCRIPT?

JAVASCRIPT

Programming language

Adds functionality to the page

Modify webpage

HOW TO DEBUG & EXPLORE

LIBRARIES & FRAMEWORKS

Bootstrap

Sass

AngularJS

jQuery

RESOURCES

W3School

Mozilla Developer Network

Codeschool

Codecademy

Stackoverflow

Github Pages

THANK YOU!