Welcome to Javascript

Learn any programming language

- Syntax - Coding convention

- Variables

- Data types

- Conditional statement

- Loop, iteration

- Function

NORDIC
< CODER >

Course outline

Session	Main content
1 … 4	LEARN JAVASCRIPT Variables, Data types, Function Coding convention
5 … 6	Use JS to interact with HTML elements DOM Manipulation Tic tac toe game
7 … 8	Use JS to integrate with Restful API AJAX Promise and async-await
9 … 10	A completed app with UI + integrate data with API

NORDIC
< C O D E R >

Agenda

- What is JavaScript?

- What JS can do?

- How to run JS?

- Setup environment

- Lab: The first JS program

- Q & A

NORDIC
< CODER >

What is JavaScript?
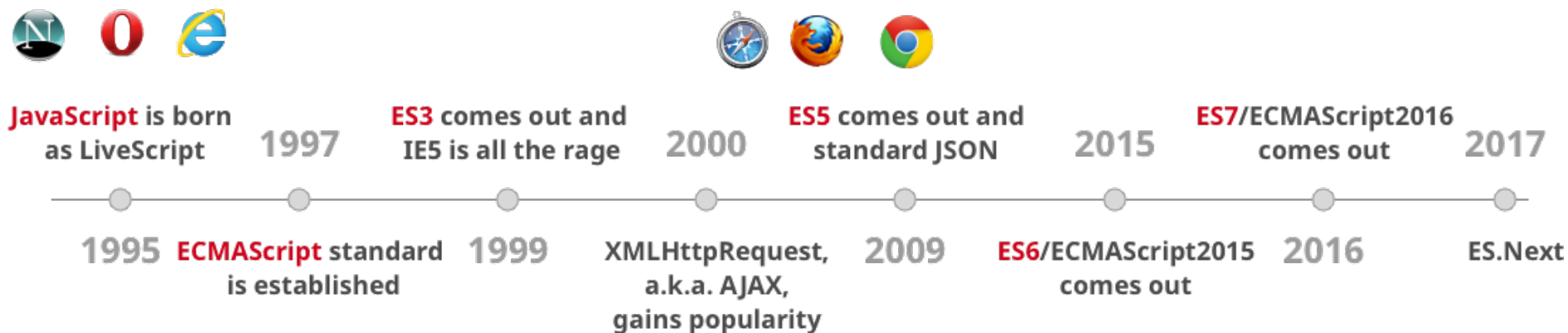
NORDIC
< CODER >

Technologies that drive the web

Quick intro to JavaScript language

- Created by **Brendan Eich** in **10 days** for **Netscape Navigator 2.0** in 1995
- Characterized as **dynamic**, **weakly typed**, **prototype-based** and **multi-paradigm**
- JavaScript is an **interpreted language** (vs. compiled language)
- Netscape submitted JavaScript specs to **ECMA International**, became **ECMAScript** (ECMA-262 standard)
- **JavaScript™** is a trademark of Oracle
- Current version is **ECMAScript 2019** (ES10)

JavaScript versions

JavaScript is born
as LiveScript

1997

ES3 comes out and
IE5 is all the rage

2000

ES5 comes out and
standard JSON

2015

ES7/ECMAScript2016
comes out

2017

1995   **ECMAScript** standard
is established

1999

XMLHttpRequest,
a.k.a. AJAX,
gains popularity

2009

ES6/ECMAScript2015
comes out

2016

ES.Next

Read more: https://int3ractive.com/2019/01/nhung-dieu-can-biet-ve-ecmascript.html

NORDIC
< CODER >

What can JavaScript do?

NORDIC
< CODER >

JavaScript can do almost everything

Full Stack JavaScript

JavaScript can do desktop & mobile apps

- Electron: https://electronjs.org/
  - Hybrid desktop app
  - UI: HTML, CSS in Chromium
  - JS in Node.js
- PhoneGap: https://phonegap.com/
  - Hybrid mobile app
  - HTML, CSS & JS in WebView
- React Native: https://facebook.github.io/react-native/
  - Native mobile app
  - JS to handle logic and UI composition
  - Native widgets rendered to users

How to write
and run JavaScript?

How to write JavaScript?

➡Visual Studio Code

https://code.visualstudio.com

- The best code editor for Web development

- It's FREE

- Powerful with Git integration

- Pair programming with Liveshare

NORDIC
< C O D E R >

VSCode Extensions

- Bracket Pair Colorizer 2 (coenraads.bracket-pair-colorizer-2)
- EditorConfig for VS Code (editorconfig.editorconfig)
- Prettier - Code formatter (esbenp.prettier-vscode)
- (More extension to add later)

How to execute JavaScript

Setup environment

LIVE DEMO

NORDIC
< CODER >

Source to learn JS

- https://developer.mozilla.org/en-US/docs/Web/JavaScript
- https://jshandbook.com/
- https://www.w3schools.com/js/default.asp
- JavaScript the Good Parts
- Professional JavaScript for Web Developers

NORDIC
< CODER >

Thank You
And see you ;)

NORDIC
< CODER >