

Javascript basics

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What is Javascript?

- Programming language that can add interactivity to a website.



A “Hello World!” Example

Variables and DataTypes

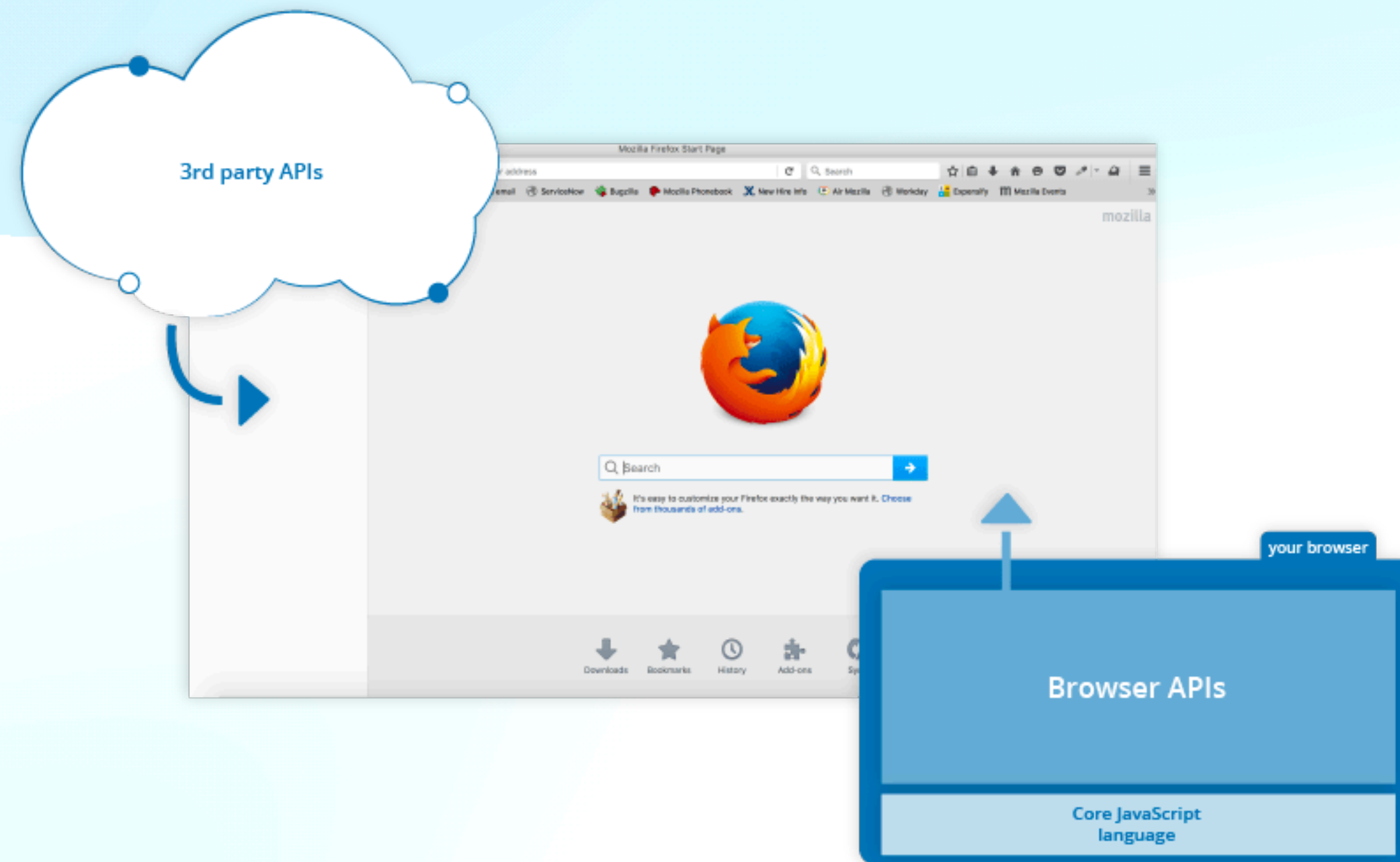
- String
- Number
- Boolean
- Array
- Object

Operators

- Addition
- Subtraction, Multiplication, Division
- Assignment
- Strict equality
- Not, Does-not-equal
- Less than
- Greater than

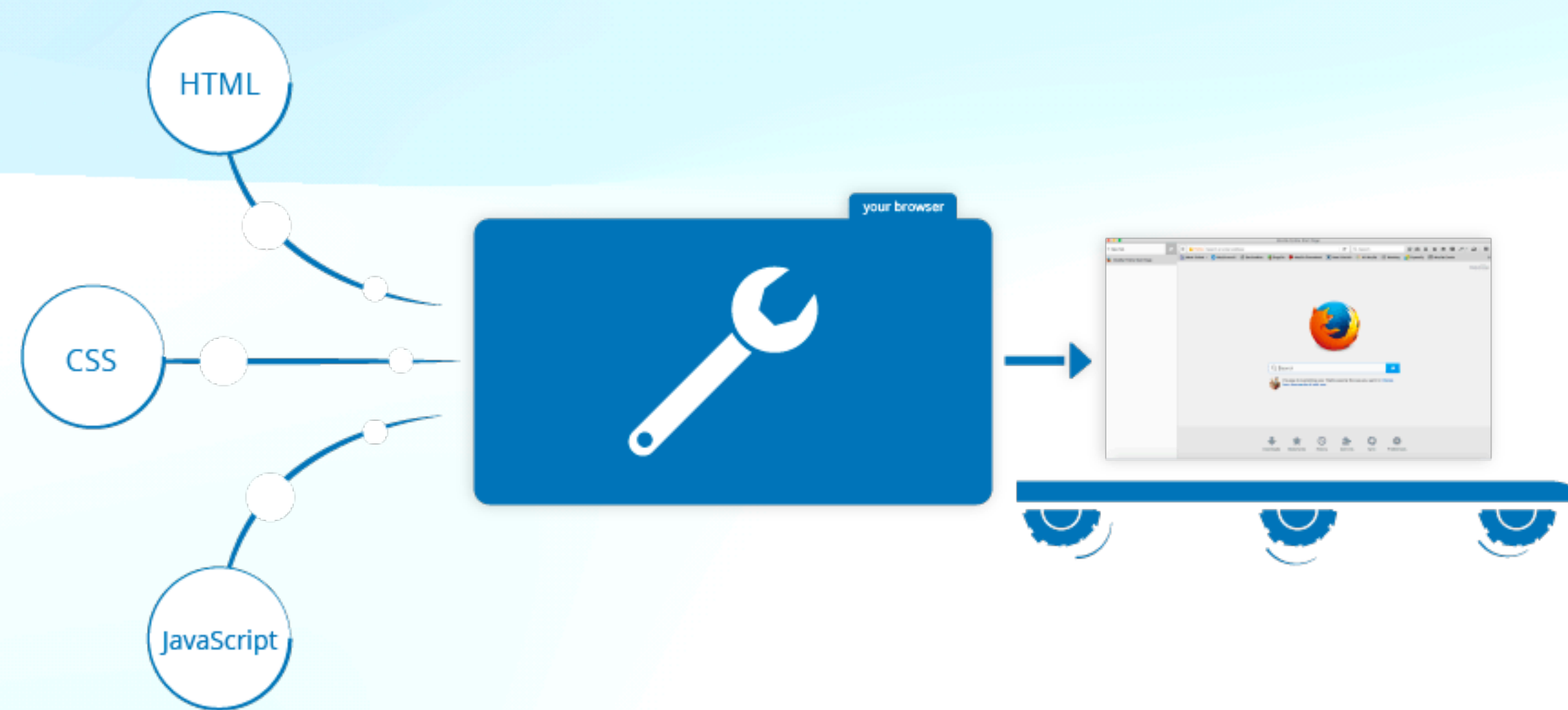
Application Programming Interfaces

- Provides us with extra superpowers to use in JS code.



What is Javascript doing on your page?

- When you load a web page in your browser , you are running your code inside an execution environment (the browser tab).



Interpreted vs compiled code

- Interpreted languages - No code transformation is required
- Compiled languages - Compiled into another form(machine code)

Javascript is interpreted language ?

- Use just-in-time compiling to improve performance
- Considered interpreted language since compilation is handled at runtime

Script Loading Strategies

async and defer

- Instructs browser to download the script(s) in a separate thread while rest of the page is downloading
- Async - Execute as soon as download is complete . No specific execution order
- Defer - Will load in proper order and execute once everything has finished loading
- Use async when there are no dependencies , else use defer

Functions

- Reusable blocks of code
- Keyword: function

Anonymous Function

- A function without a name
- Don't have their one identity
- Anonymous function without code inside it results in an error
- Anonymous functions are used when functions are used as values

First Class Functions

- Pass functions inside functions as arguments
- Or Return a function

Declaring Variables

- Using var keyword
- let
- const

**Use const when you can and use
let when you have to**

Execution Context

Hoisting in Javascript

- Concept which enables us to extract values of variables and functions even before initialising/assigning value

Some Important Questions

- What is Function Statement ?
- What is Function Expression ?
- Difference between function statement & expression ?
- What is Function Declaration?

Thank You!!