

Javascript

History

usage


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Introduction

JavaScript is everywhere, and for the seventh year in a row, it has been ranked the most commonly used programming language, with 67.8% of developers employing it in 2019. Its ascent to the world's most popular programming language is synonymous with the rise of the internet itself. Created out of necessity, it is used to build 95.2% (1.52 billion) of websites today, including some of the world's largest, like Facebook and YouTube. Without it, we would not have popular and useful web apps such as Google Maps and eBay. So, without further ado, let's take a look at what JavaScript is, how and why it was created, and what's next for the language.

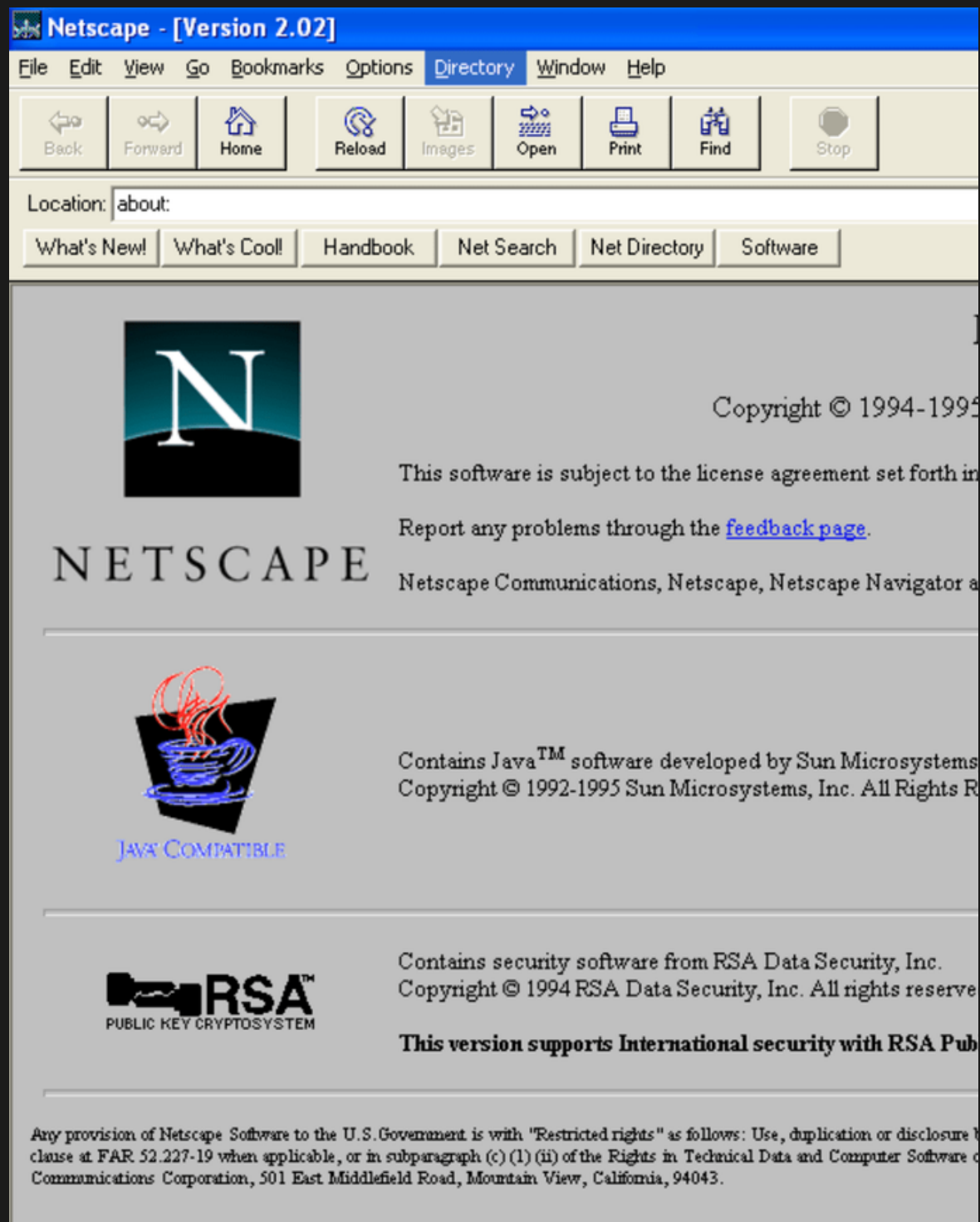


What is Javascript ?

JavaScript is a scripting language that is one of the three core languages used to develop websites. Whereas HTML and CSS give a website structure and style, JavaScript lets you add functionality and behaviors to your website, allowing your website's visitors to interact with content in many imaginative ways. JavaScript is primarily a client-side language, meaning it runs on your computer within your browser. However, more recently the introduction of Node.js has allowed JavaScript to also execute code on servers.

Origins

The early to mid-1990s was an important time for the internet. Key players like Netscape and Microsoft were in the midst of browser wars, with Netscape's Navigator and Microsoft's Internet Explorer going head to head. In September 1995, a Netscape programmer named Brendan Eich developed a new scripting language in just 10 days. It was originally named Mocha, but quickly became known as LiveScript and, later, JavaScript.



JavaScript vs. Java

There's often some confusion about the two, but JavaScript and Java have almost nothing in common. The name JavaScript came from Netscape's support of Java applets within its browser. Many say it was also a marketing tactic to divert some attention from Java, which was the most buzzed-about language at the time. To run Java programs, the code must be first compiled into an executable form. On the other hand, JavaScript was created to be interpreted at run time, making it much more dynamic (these days the boundary of the two methods is a lot more blurred).

Top languages over time

You're coding on GitHub in hundreds of programming languages, but JavaScript still has the most contributors in public and private repositories, organizations of all sizes, and every region of the world.

This year, TypeScript shot up to #7 among top languages used on the platform overall, after making its way in the top 10 for the first time last year. TypeScript is now in the top 10 most used languages across all regions GitHub contributors come from—and across private, public, and open source repositories. ✨

JavaScript Today

From its slightly rocky start, JavaScript has risen to be the most popular programming language in the world. According to GitHub's 2018 Octoverse report, there are more JavaScript code repositories than any other language—and that number is steadily on the rise. A series of JavaScript frameworks and libraries, such as Ember, Angular, React, and Vue, have been developed to allow powerful and complicated web applications to be written using small teams within short time spans. Alongside client and server software, it is now even possible to write native mobile apps using JavaScript. Unsurprisingly, this is becoming increasingly popular due to the ability to share code between the worlds of mobile and web.



Javascript Basics

- variables
- if...else
- switch
- operators
- popup boxes
- f-functions
- events
- try...catch
- throw
- onerror
- special text
- guidelines

JAVASCRIPT OBJECTS

- String
- Date
- Array
- Boolean
- Math
- RegExp
- Html Dom





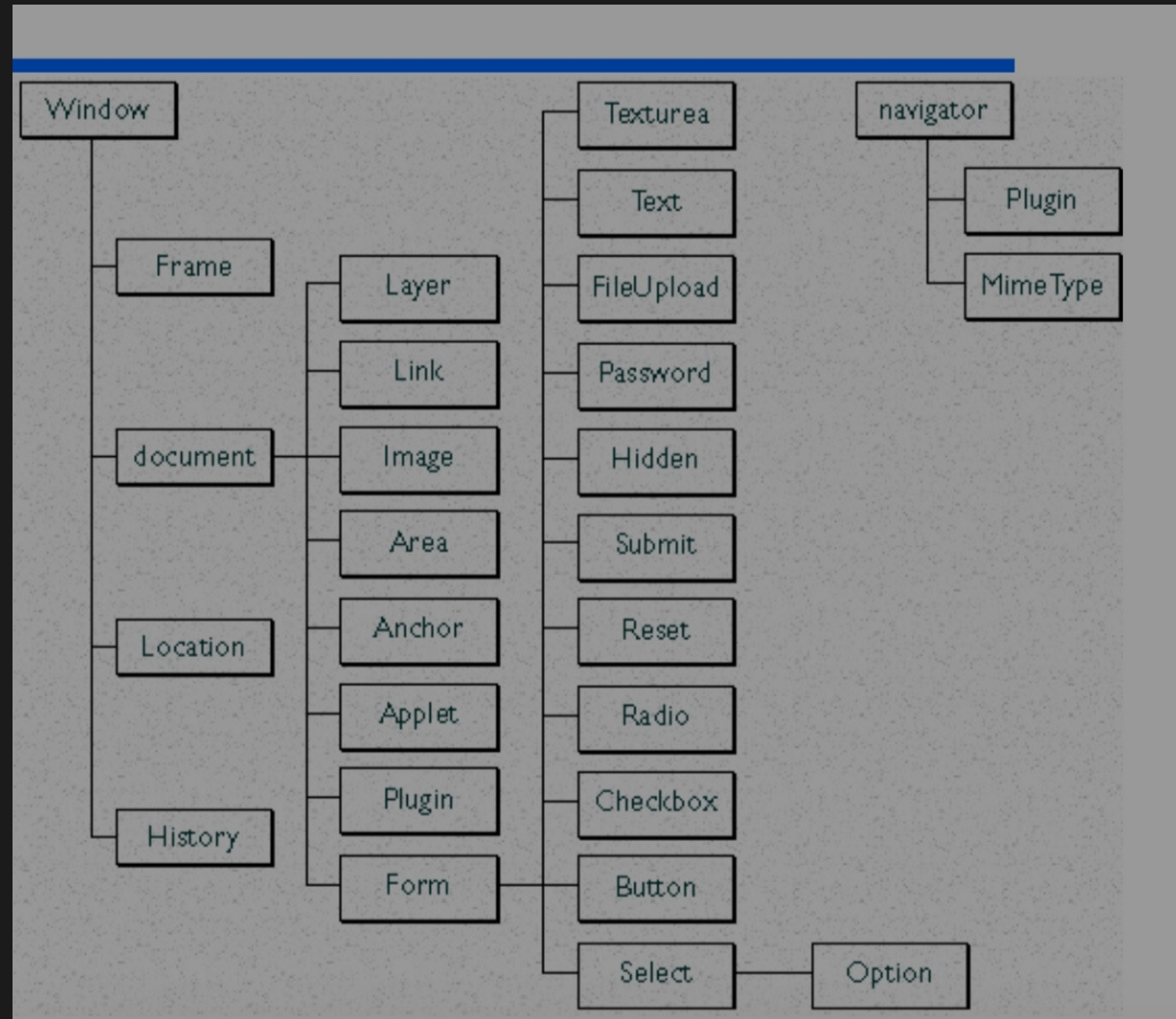
HTML DOM

- It stands for Document Object Model
- with js we can reconstruct an entire HTML document
- js gains more access to all html elements through dom

Using js objects

- when you load a model in web browser it creates a number of js objects
- these objects exists in a hirerchy that reflects the structure of html page

HTML DOM Structure



Javascript Frameworks

ANGULAR

can be used as a backend
for web development



REACT

can be used as an frontend
framework in web
development



REACT NATIVE

can be used as a mobile
development framework



NODE

can be used for backend in
web development



Hello World in Javascript

USING CONSOLE.LOG()

```
console.log('Hello World');
```

USING ALERT()

```
alert("Hello, World!");
```

USING DOCUMENT.WRITE()

```
document.write('Hello, World!');
```





Conclusion

JAVASCRIPT IS A RAPID GROWING
LANGUAGE USED FOR WEB
DEVELOPMENT AS WELL AS
MOBILE DEVELOPMENT