

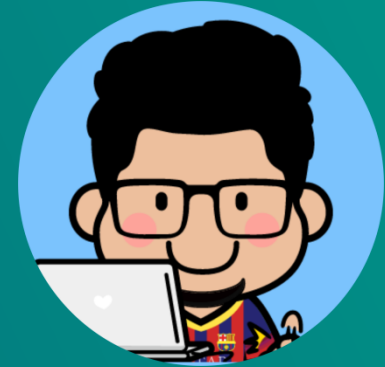
Coding for Teens

JS

Introduction to JavaScript

Coding for Teens

Lintang Wisesa



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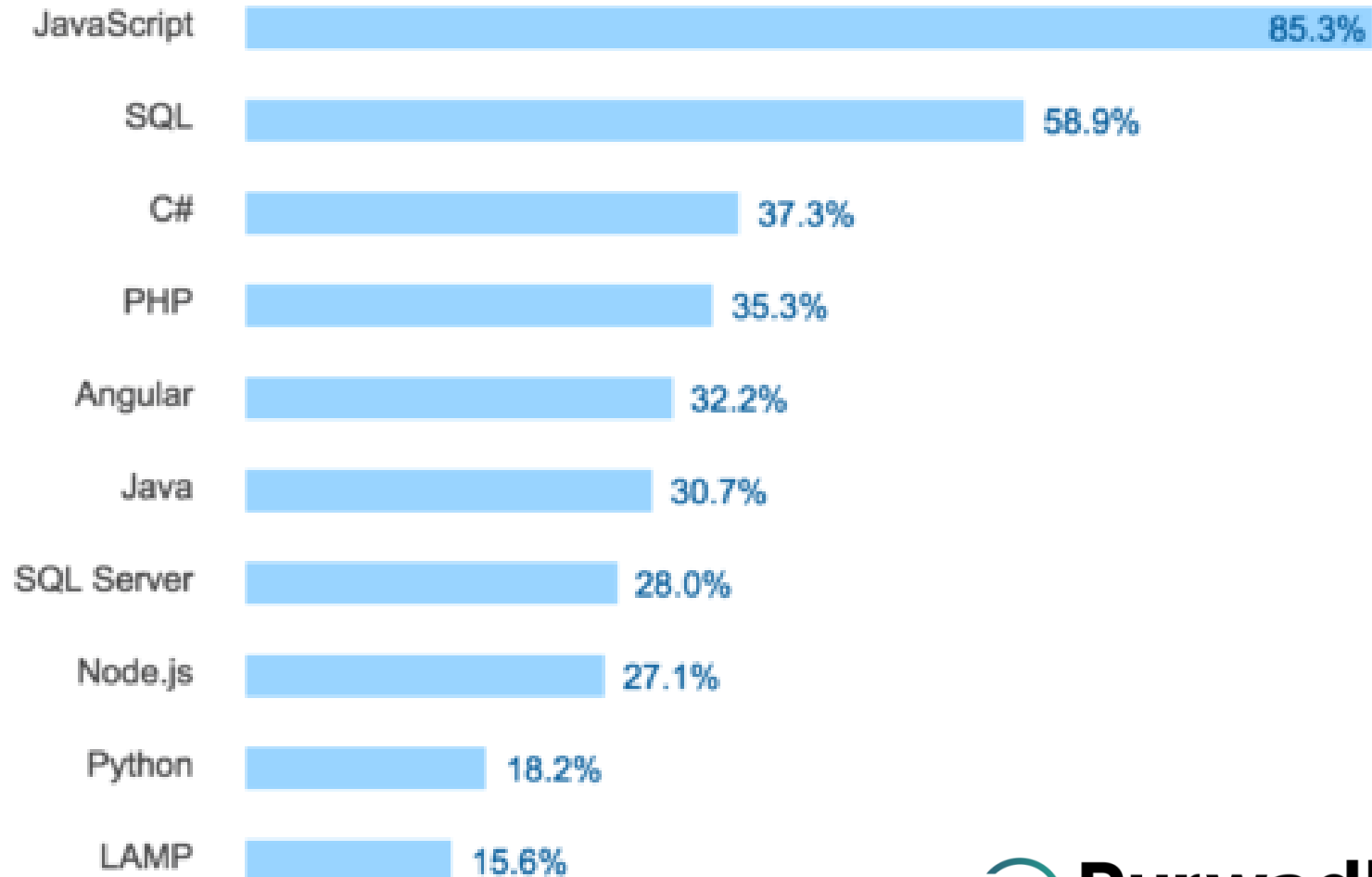
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Why Should You Learn Javascript?

Most Popular Technologies per Dev Type








Top JS Front-End Frameworks 2017

1		Vue.js □ A progressive, incrementally-adoptable JavaS...	+40.0k ★
2		React A declarative, efficient, and flexible JavaScript li...	+27.8k ★
3		Angular One framework. Mobile & desktop.	+12.2k ★
4		Preact ⚙ Fast 3kB React alternative with the same mod...	+10.4k ★
5		Hyperapp 1 KB JavaScript library for building web applicatio...	+8.1k ★






<https://risingstars.js.org/2017/en/>

Top React Ecosystem 2017

1		Create React App Create React apps with no build configuration.	+22.5k ★
2		Ant Design A UI Design Language	+13.3k ★
3		Next.js Framework for server-rendered or statically-exp...	+12.7k ★
4		Storybook Interactive UI component dev & test: React, React ...	+9.7k ★
5		Gatsby Blazing fast static site generator for React	+9.7k ★






<https://risingstars.js.org/2017/en/>

Top JS Static Site Generator 2017

1		Gatsby 🌀 📦 ⚡ Blazing fast static site generator for React	+9.7k ★
2		Hexo A fast, simple & powerful blog framework, powered...	+6.2k ★
3		React Static 🌀 ⚡ A progressive static-site generator for React.	+3.0k ★
4		Phenomic Modular website compiler ↩	+1.4k ★
5		Metalsmith An extremely simple, pluggable static site generat...	+1.0k ★






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Top Node JS Back-End Frameworks 2017

1		Express Fast, unopinionated, minimalist web framework f...	+6.7k ★
2		Koa Expressive middleware for node.js using ES2017 a...	+5.8k ★
3		Fastify Fast and low overhead web framework, for Node.js	+5.8k ★
4		micro Asynchronous HTTP microservices	+3.2k ★
5		Keystone node.js cms and web app framework	+3.0k ★






<https://risingstars.js.org/2017/en/>

Top JS Mobile Frameworks 2017

1		React Native A framework for building native apps with React.	+15.6k ★
2		Weex A framework for building Mobile cross-platform UI.	+6.5k ★
3		Ionic Build amazing native and progressive web apps ...	+5.5k ★
4		Quasar Quasar Framework	+3.7k ★
5		NativeScript NativeScript is an open source framework for buil...	+2.9k ★

<https://risingstars.js.org/2017/en/>

Top Code Editor 2017

1		VS Code Visual Studio Code	+20.2k ★
2		Atom The hackable text editor	+9.1k ★
3		Reactide Reactide is the first dedicated IDE for React web a...	+7.4k ★
4		Brackets An open source code editor for the web, written in...	+1.9k ★
5		Nuclide An open IDE for web and native mobile developm...	+1.4k ★

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JS

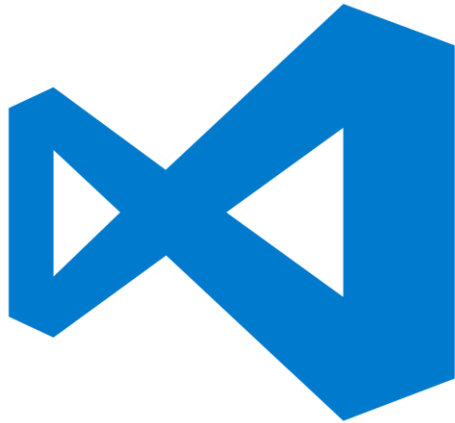
JavaScript often abbreviated as JS, is a high-level, dynamic, weakly typed, object-based, multi-paradigm, and interpreted programming language.

Alongside *HTML* and *CSS*, JavaScript is one of the three core technologies of World Wide Web content production.



***Node.js*®** is a JavaScript runtime built on Chrome's V8 JavaScript engine. Node.js uses an event-driven, non-blocking I/O model that makes it lightweight and efficient. Node.js' package ecosystem, *npm*, is the largest ecosystem of open source libraries in the world.

SetUp



Visual Studio Code

Download & install here:

[*code.visualstudio.com*](https://code.visualstudio.com)

Node.Js

Download & install here:

[*nodejs.org*](https://nodejs.org)

\$ node --version

\$ node -v



Make your first JS file #1

<Running Node Shell on prompt #1>

- * Buka terminal <run cmd>
- * Ketik **node** lalu enter
- * Ketik program & enter untuk eksekusi
- * Ketik **process.exit()** untuk keluar

```
console.log( 'Halo' );
```

Make your first JS file #2

<Running on command prompt #2>

```
console.log( 'Halo' );
```

- * Simpan sebagai **file.js**
- * Buka terminal <run cmd>
- * Masuk ke direktori **file.js**
- * Eksekusi **node file.js**

Make your first JS file #3

<Insert JS on HTML>

```
<script>  
    console.log('Halo Dunia');  
</script>
```

- * Simpan sebagai **file.html**
- * Buka **file.html** di browser
- * Inspect & lihat hasil di tab console

Make your first JS file #4

<Insert JS on HTML, running on web page>

```
<script>  
  document.write('Halo Dunia');  
</script>
```

- * Simpan sebagai **file.htm**
- * Buka **file.htm** di browser
- * Hasil langsung terlihat di page

Make your first JS file #5

<inner HTML>

```
<p id="demo"></p>
```

```
<script>  
document.getElementById("demo").innerHTML = 5 + 6;  
</script>
```

- * Simpan sebagai **file.htm**
- * Buka **file.htm** di browser
- * Hasil langsung terlihat di page

Make your first JS file #6

<Running on browser, calling from HTML>

```
console.log('Halo');
```

- * Simpan sebagai **file.js**
- * Buat file HTML berikut (**file.htm**)

```
<script src="file.js"></script>
```

- * Buka **file.htm** di browser
- * Inspect & lihat hasil di tab console

Comment

// komentar 1 line

**/*
komentar multiline
komentar multiline
komentar multiline
*/**

dirname & filename

```
console.log(__dirname);  
// menampilkan directory path
```

```
console.log(__filename);  
// menampilkan file path
```

Variabel

```
var nama = 'Andi';  
console.log(nama);
```

```
var usia;  
usia = 22;  
usia = 32;  
console.log(usia);
```

```
let jomblo = true;  
console.log(jomblo);
```

var vs let

```
var x = 21  
var x = 22  
console.log(x);  
// output = 22
```

=====

```
let y = 'hai'  
let y = 'halo'  
console.log(y);  
// SyntaxError
```

Prompt & Alert

<write on HTML>

```
<script>  
var kabar = prompt('Apa kabar?');  
//muncul kotak dialog input
```

```
console.log(kabar);  
//tampilkan input di console
```

```
alert(kabar);  
//tampilkan input di alert window  
</script>
```

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