

JavaScript: The Big Picture

Why JavaScript?



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JavaScript

JavaScript is a programming language that can be used to create web applications, backend services, games, mobile applications, and just about anything else you can imagine.

JavaScript Code Example

index.js

```
import express from 'express';

const app = express();
const port = process.env.PORT || 3000;

app.use('/', (req, res) => {
  res.status(200).send('Hello!');
});

app.listen(port, () => {
  console.log(`Server is listening on port ${port}`);
});
```

ZDNet, *Top programming languages: Most popular and fastest growing choices for developers*

“JavaScript is now used by more than 16.4 million developers globally...making it the world's most popular programming language by a wide margin.”

2020 HackerRank Developer Skills Report

“Globally, JavaScript is the most popular language hiring managers look for in a candidate.”



Characteristics of JavaScript

JavaScript

JavaScript is a programming language that can be used to create web applications, backend services, games, mobile applications, and just about anything else you can imagine.

Defining Variables in JavaScript

index.js

```
// Variable for my first name
let firstName = "David";

// Variable for my age
let age = 41;
```

Defining Variables in C#

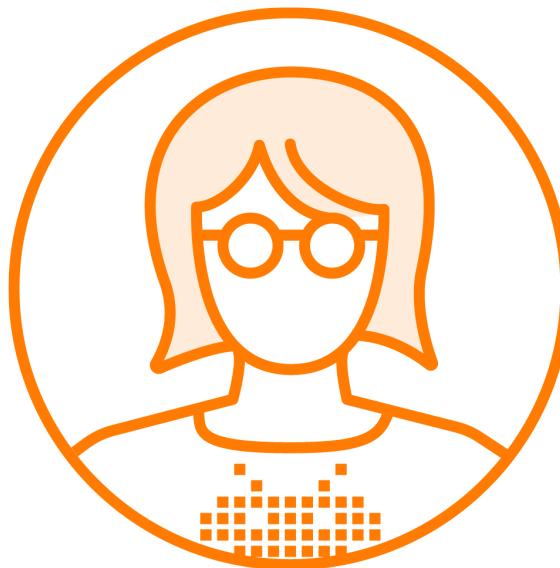
main.cs

```
// Variable for my first name
string firstName = "David";
```

```
// Variable for my age
int age = 41;
```

Furniture Assembly Example

English Instructions



Compiler

Original German Instructions

Anweisung

Anweisung

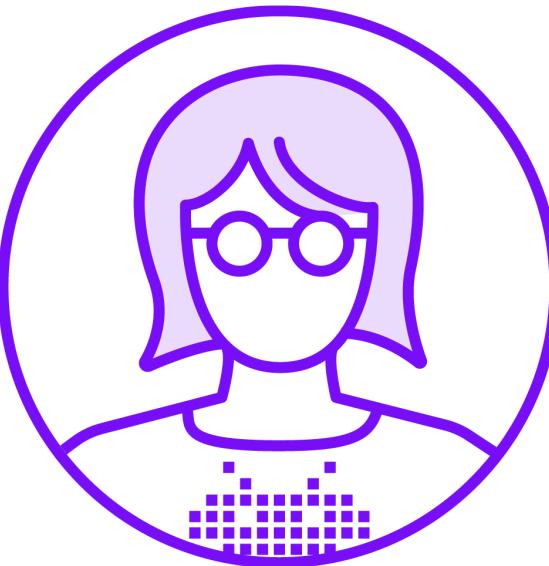
Anweisung

Anweisung

Anweisung

Furniture Assembly Example

English Instructions



Engine or
Interpreter

Original German Instructions

Anweisung

Anweisung

Anweisung

Anweisung

Anweisung

JavaScript

JavaScript is a **dynamic interpreted scripting language** that can be used to create web applications, backend services, games, mobile applications, and just about anything else you can imagine.

Up Next:

Where is JavaScript Used?
