TypeScript: The Big Picture

HOW TYPESCRIPT CAN HELP



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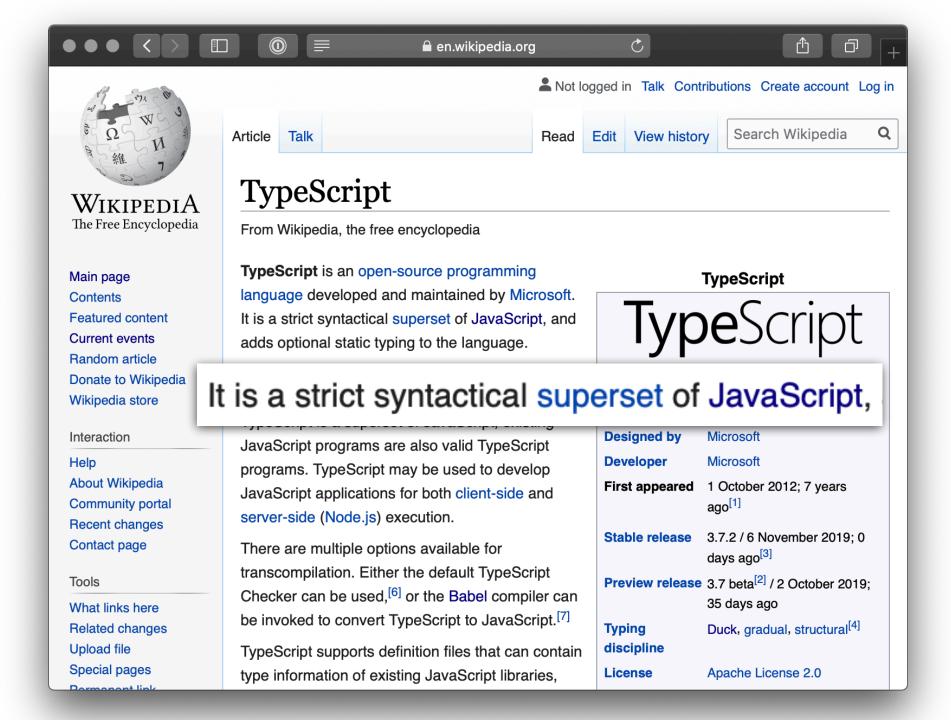


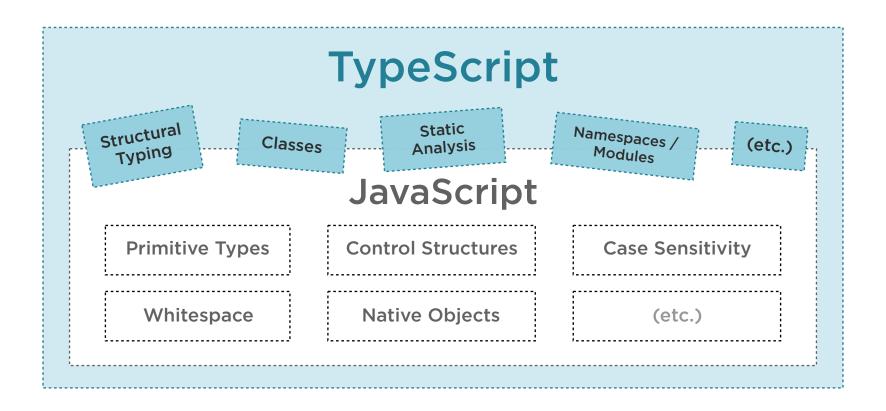
You **Don't** Need To Know TypeScript

You Need To Know

JavaScript (basics)
HTML, CSS

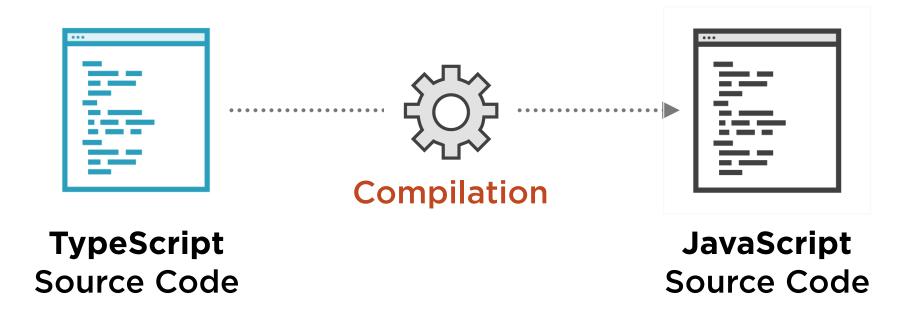








TypeScript Compiles to JavaScript



Benefits of TypeScript: Overview

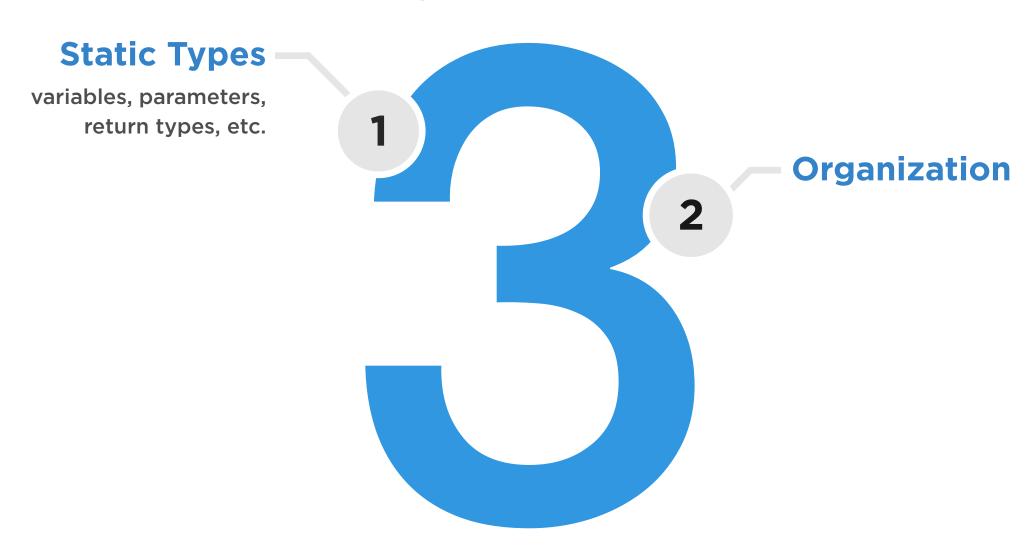
Static Types

variables, parameters, return types, etc.





Benefits of TypeScript: Overview







Organization

Making it easier to manage a large codebase

classes

namespaces

modules

interfaces

TypeScript Classes

```
class Customer {
   name: string;
   isActive: boolean;

announce() {
    return "Hello, my name is " + this.name;
}
```





Technologies ▼

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Classes

Web technology for developers > JavaScript > JavaScript reference > Classes

English ▼

On this Page

Defining classes

Class body and method de

Sub classing with extend

Species

Super class calls with super

Mix-ins

Specifications

Browser compatibility

Running in Scratchpad

See also

JavaScript classes, introduced in ECMAScript 2015, are primarily syntactical sugar over JavaScript's existing prototype-based inheritance. The class syntax *does not* introduce a new object-oriented inheritance model to JavaScript.

Defining classes

Classes are in fact "special functions", and just as you can define function expressions and function declarations, the class syntax has two components: class expressions and class declarations.

Class declarations

Related Topics

JavaScript

One way to define a class is using a class declaration. To declare a class, you use the class



TypeScript vs ECMAScript Class Compatibility

ES2016 ES2018 ESNext ES2015 ES2017 ES2019

ES3 (ECMAScript 3) **ES4** (abandoned)

ES5

996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021

ECMAScript Classes

TypeScript Classes



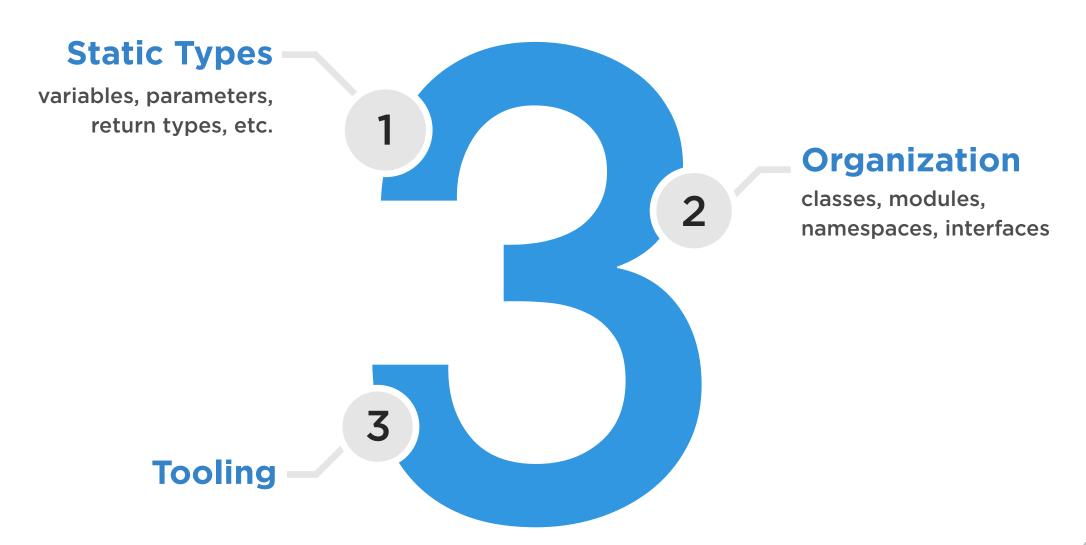
TypeScript Interfaces

```
interface MediaAsset {
    name: string;
    size: number;
    location: string;

    play(): void;
}
```



Benefits of TypeScript: Overview





Tooling —

static type analysis
many "instant" errors
detect unused data / unreachable code
source maps — debug directly in TypeScript



TypeScript IDE Support



Emacs

Vim

Sublime Text