

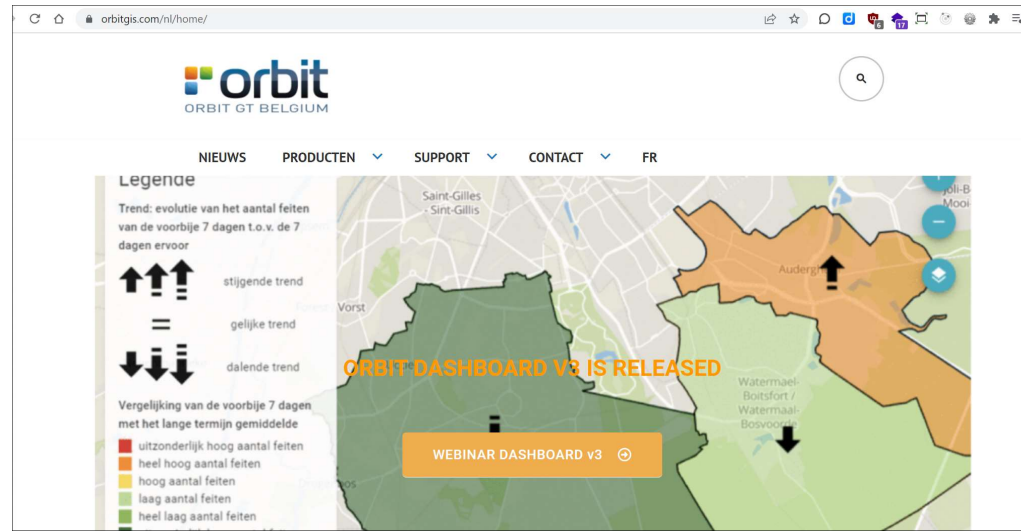
Training TypeScript

Short recap – day #1



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Browser only knows 3 things



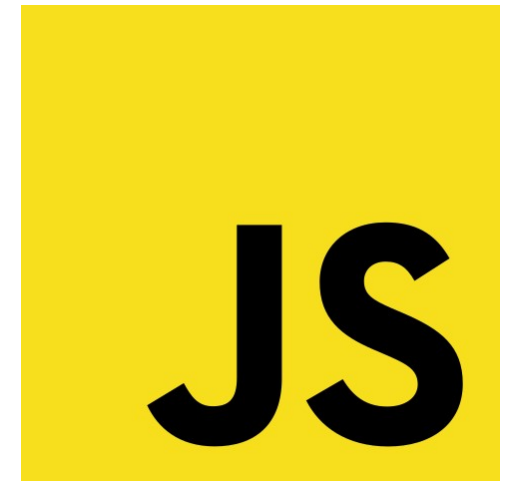
HTML



CSS



JS





A Venn diagram consisting of three concentric circles. The outermost circle is dark teal and contains the text 'TypeScript'. Inside it is a medium teal circle containing the text 'ES6'. Inside the 'ES6' circle is a light teal circle containing the text 'ES5'. This visualizes that TypeScript includes all features of ES6 and ES5, and ES6 includes all features of ES5.

TypeScript

ES6

ES5

So, 2 main goals of TypeScript

1. **Compile** TypeScript to plain JavaScript (so the browser can understand)
2. Bring **type safety** to the frontend

 freeCodeCamp(🔥)

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Per Harald Borgen

Co-founder of Scrimba, the next-generation platform for teaching and learning code.
<https://scrimba.com>.

Jul 16 · 8 min read

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Want to learn TypeScript? Here's our free 22-part course.



- Superset of JavaScript
- Built by Microsoft
- Compiles down to regular JavaScript
- Tends to be less error prone.

<https://medium.freecodecamp.org/want-to-learn-typescript-heres-our-free-22-part-course-21cd9bbb5ef5>

Important TypeScript Features

Types

Classes

Interfaces

Modules

Generics

namespaces

decorators

...

We covered:

- TypeScript as an aid for the Developer
 - To overcome the shortcomings of JavaScript (from 1995)
- TypeScript Playground and Locally
- Basic Types, keyword `this`
- Functions
- Interfaces
- Classes



Questions?

Today

- Generics
 - Type Constraints
- Types vs. interfaces
- Namespaces and modules
- Type Guards

Next up – 26-27 September 2022

- Type Queries
- Mapped Types
- Conditional Types
- Types in combination with React Components
 - And UI libraries
- Common TypeScript mistakes

See you then!

