Training TypeScript

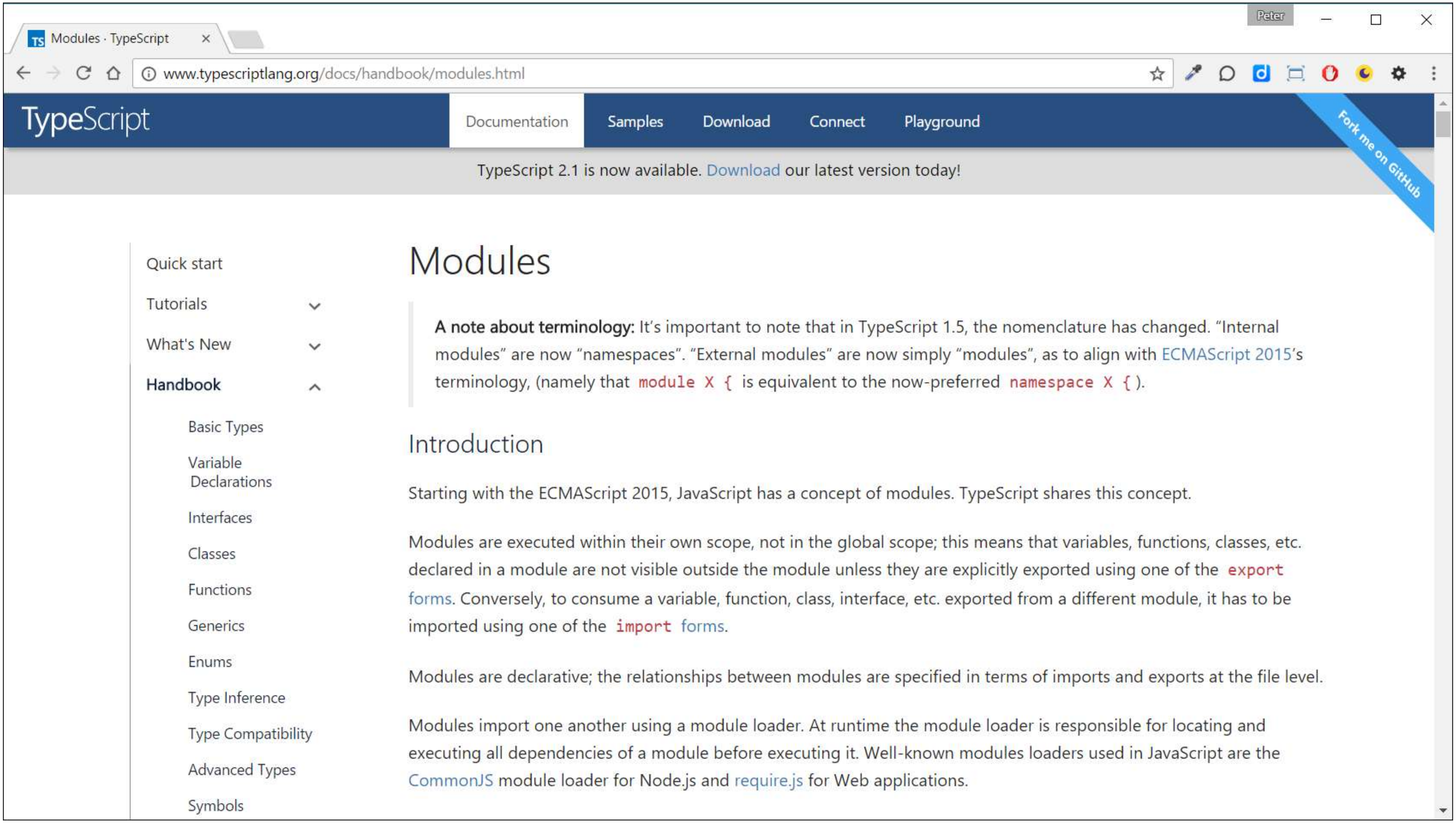
More info – Online resources

ORBIT GT BELGIUM

Peter Kassenaar

info@kassenaar.com

Official documentation



TypeScript 2.1 is now available. Download our latest version today!

Modules

> **A note about terminology:** It's important to note that in TypeScript 1.5, the nomenclature has changed. "Internal modules" are now "namespaces". "External modules" are now simply "modules", as to align with ECMAScript 2015's terminology, (namely that `module X {` is equivalent to the now-preferred `namespace X {`).

Introduction

Starting with the ECMAScript 2015, JavaScript has a concept of modules. TypeScript shares this concept.

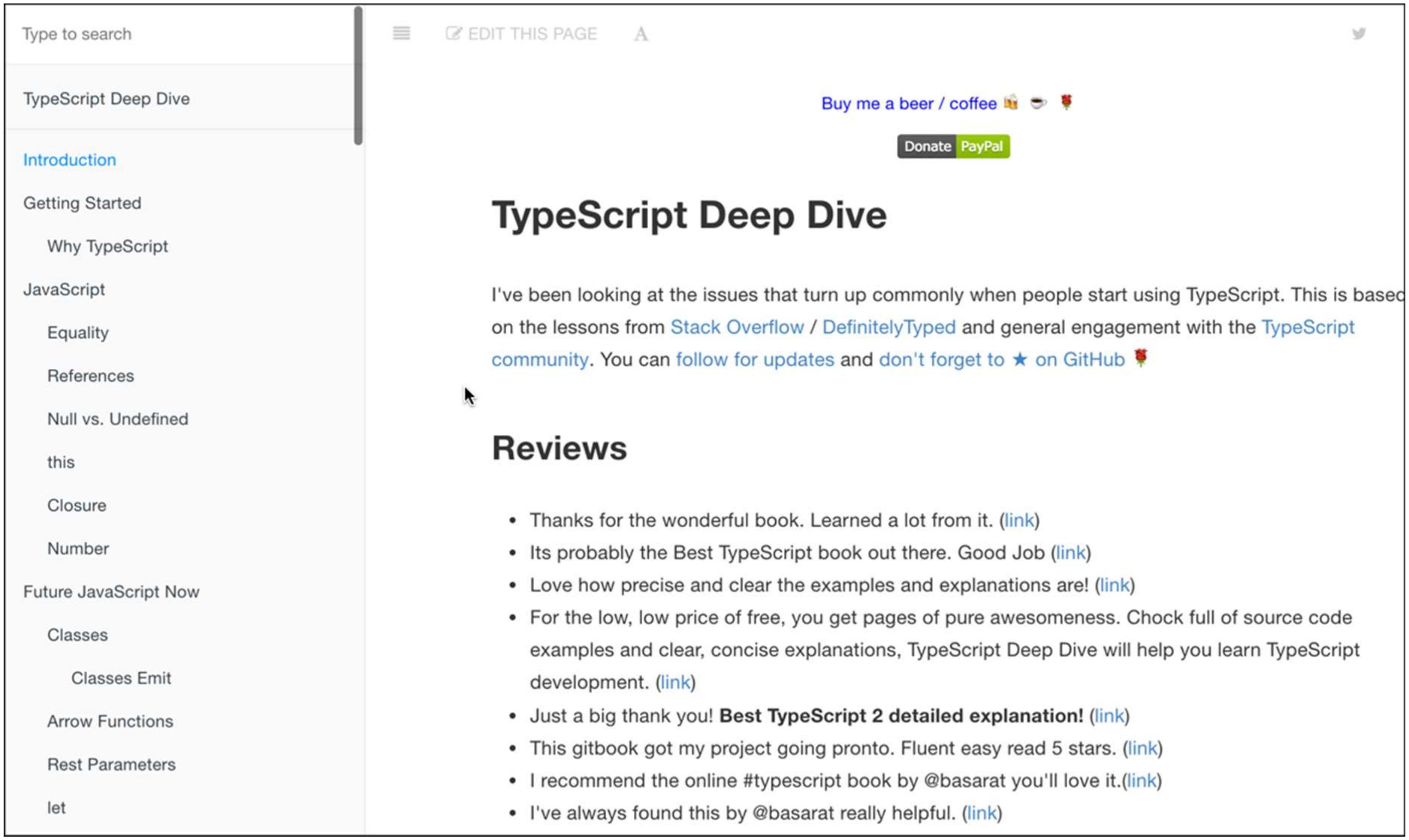
Modules are executed within their own scope, not in the global scope; this means that variables, functions, classes, etc. declared in a module are not visible outside the module unless they are explicitly exported using one of the `export` forms. Conversely, to consume a variable, function, class, interface, etc. exported from a different module, it has to be imported using one of the `import` forms.

Modules are declarative; the relationships between modules are specified in terms of imports and exports at the file level.

Modules import one another using a module loader. At runtime the module loader is responsible for locating and executing all dependencies of a module before executing it. Well-known modules loaders used in JavaScript are the CommonJS module loader for Node.js and require.js for Web applications.

http://www.typescriptlang.org/docs/handbook/

TypeScript Deep Dive



Buy me a beer / coffee 🍻 ☕ 🌹

TypeScript Deep Dive

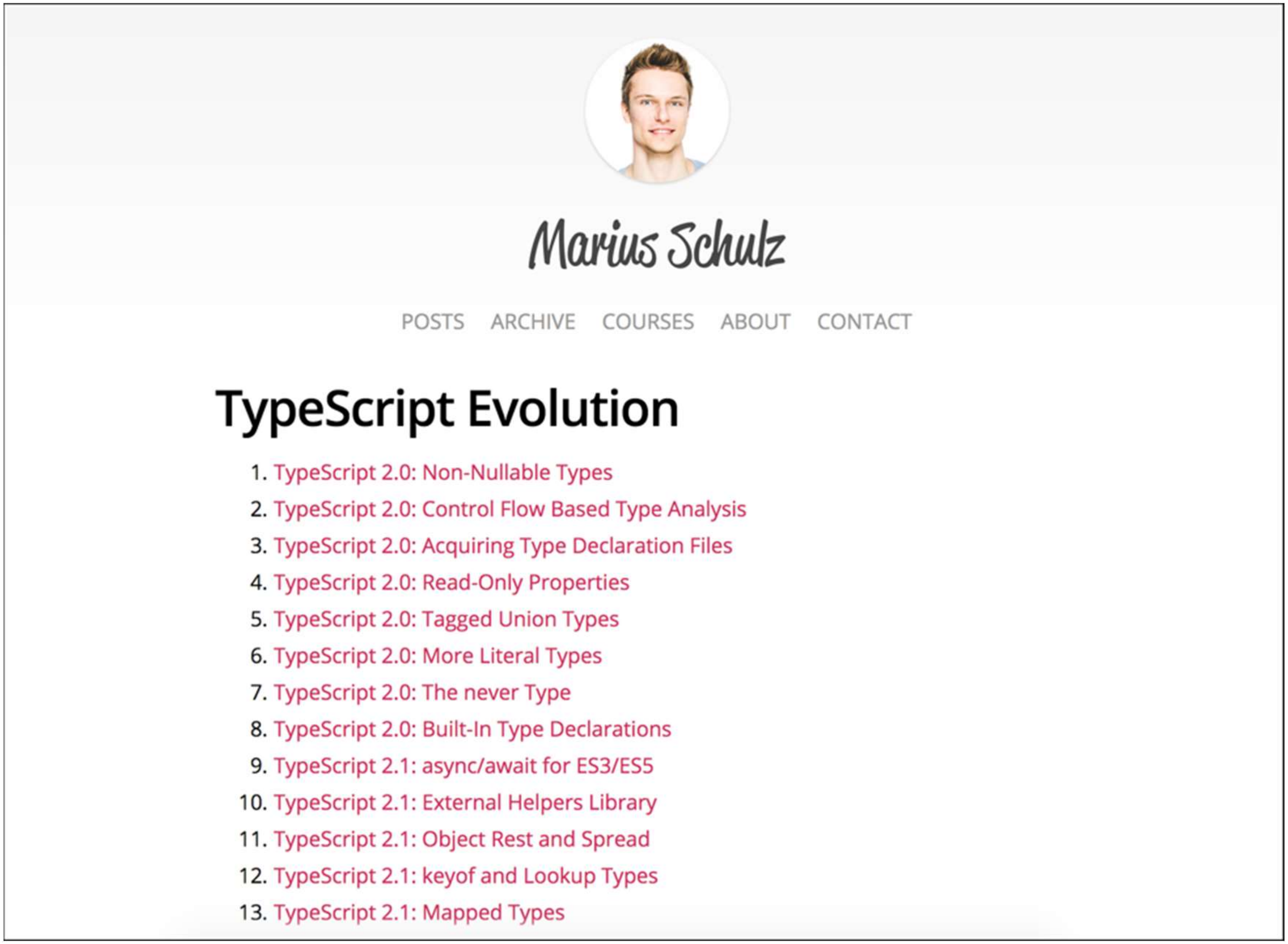
I've been looking at the issues that turn up commonly when people start using TypeScript. This is based on the lessons from Stack Overflow / DefinitelyTyped and general engagement with the TypeScript community. You can follow for updates and don't forget to ★ on GitHub 🌹

Reviews

- Thanks for the wonderful book. Learned a lot from it. (link)
- Its probably the Best TypeScript book out there. Good Job (link)
- Love how precise and clear the examples and explanations are! (link)
- For the low, low price of free, you get pages of pure awesomeness. Chock full of source code examples and clear, concise explanations, TypeScript Deep Dive will help you learn TypeScript development. (link)
- Just a big thank you! **Best TypeScript 2 detailed explanation!** (link)
- This gitbook got my project going pronto. Fluent easy read 5 stars. (link)
- I recommend the online #typescript book by @basarat you'll love it.(link)
- I've always found this by @basarat really helpful. (link)

https://basarat.gitbooks.io/typescript/content/

TypeScript evolution

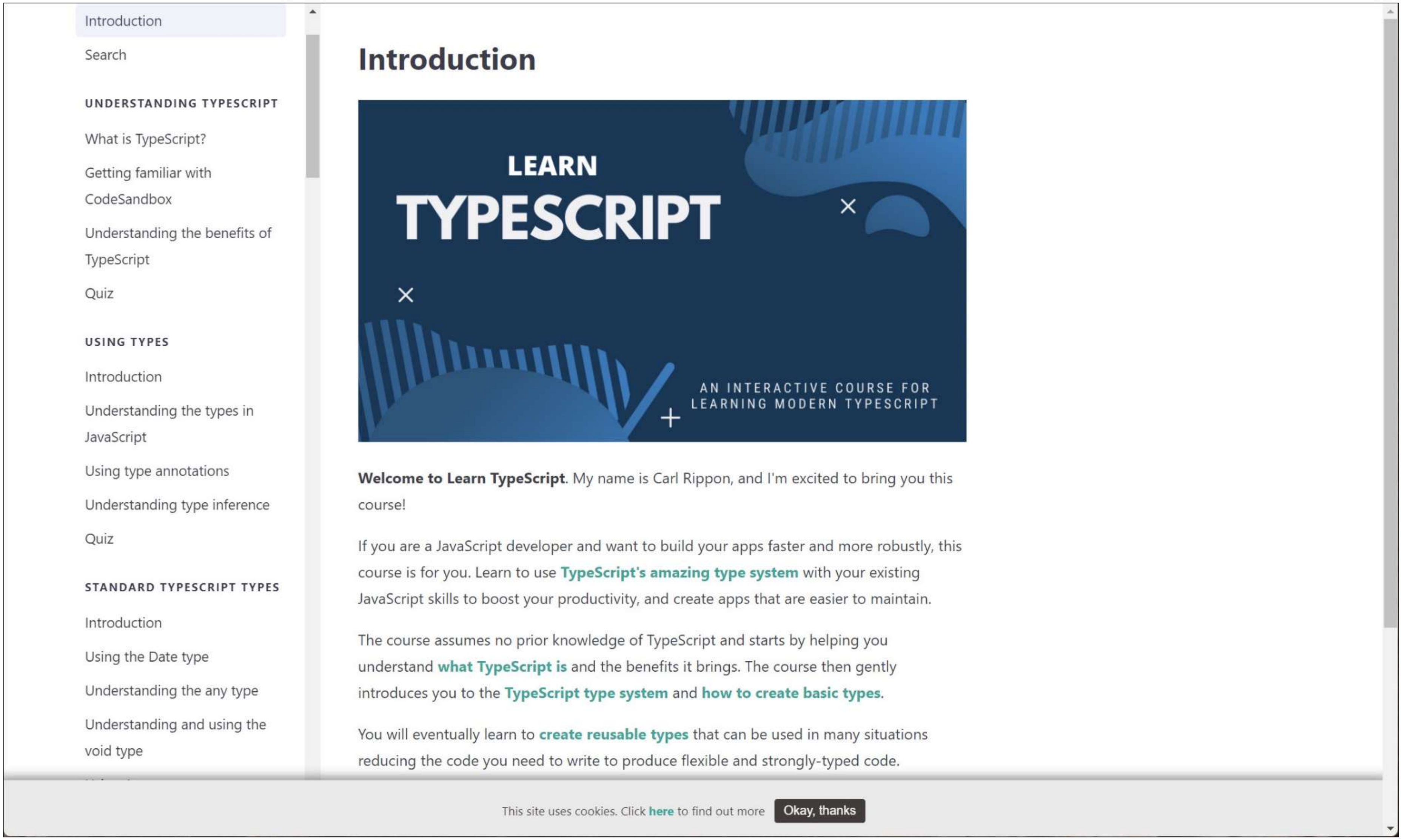


TypeScript Evolution

1. TypeScript 2.0: Non-Nullable Types
2. TypeScript 2.0: Control Flow Based Type Analysis
3. TypeScript 2.0: Acquiring Type Declaration Files
4. TypeScript 2.0: Read-Only Properties
5. TypeScript 2.0: Tagged Union Types
6. TypeScript 2.0: More Literal Types
7. TypeScript 2.0: The never Type
8. TypeScript 2.0: Built-In Type Declarations
9. TypeScript 2.1: async/await for ES3/ES5
10. TypeScript 2.1: External Helpers Library
11. TypeScript 2.1: Object Rest and Spread
12. TypeScript 2.1: keyof and Lookup Types
13. TypeScript 2.1: Mapped Types

https://blog.mariusschulz.com/series/typescript-evolution

Online lessons : LearnTypescript.dev


Introduction
Search
UNDERSTANDING TYPESCRIPT
What is TypeScript?
Getting familiar with CodeSandbox
Understanding the benefits of TypeScript
Quiz
USING TYPES
Introduction
Understanding the types in JavaScript
Using type annotations
Understanding type inference
Quiz
STANDARD TYPESCRIPT TYPES
Introduction
Using the Date type
Understanding the any type
Understanding and using the void type
LEARN
TYPESCRIPT
AN INTERACTIVE COURSE FOR LEARNING MODERN TYPESCRIPT
Okay, thanks

Introduction

Welcome to Learn TypeScript. My name is Carl Rippon, and I'm excited to bring you this course!

If you are a JavaScript developer and want to build your apps faster and more robustly, this course is for you. Learn to use **TypeScript's amazing type system** with your existing JavaScript skills to boost your productivity, and create apps that are easier to maintain.

The course assumes no prior knowledge of TypeScript and starts by helping you understand **what TypeScript is** and the benefits it brings. The course then gently introduces you to the **TypeScript type system** and **how to create basic types**.

You will eventually learn to **create reusable types** that can be used in many situations reducing the code you need to write to produce flexible and strongly-typed code.

This site uses cookies. Click **here** to find out more

https://learntypescript.dev/

Todd Motto – TypeScript Basics (paid)

TypeScript Basics

Learn the core TypeScript essentials from the ground up.

For the full list of videos and course overview, please visit the landing page.

https://platform.ultimateangular.com/p/typescript-basics

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TypeScript Masterclass

Dive into the advanced side of TypeScript with our Masterclass course.

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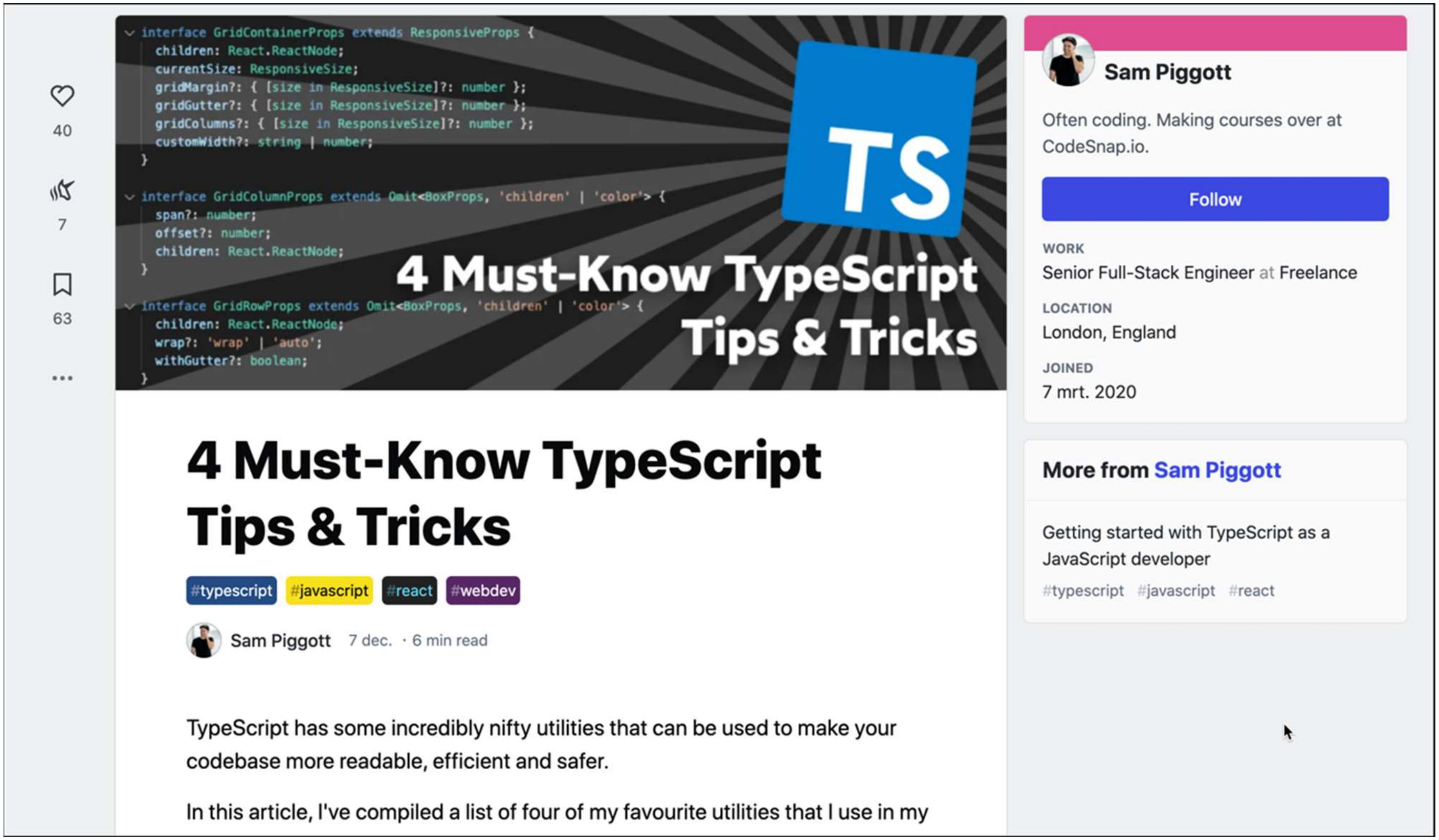
4 must-know TypeScript Tips & Tricks



```
interface GridContainerProps extends ResponsiveProps {
  children: React.ReactNode;
  currentSize: ResponsiveSize;
  gridMargin?: { [size in ResponsiveSize]?: number };
  gridGutter?: { [size in ResponsiveSize]?: number };
  gridColumns?: { [size in ResponsiveSize]?: number };
  customWidth?: string | number;
}

interface GridColumnProps extends Omit<BoxProps, 'children' | 'color'> {
  span?: number;
  offset?: number;
  children: React.ReactNode;
}

interface GridRowProps extends Omit<BoxProps, 'children' | 'color'> {
  children: React.ReactNode;
  wrap?: 'wrap' | 'auto';
  withGutter?: boolean;
}
```

4 Must-Know TypeScript Tips & Tricks

#typescript #javascript #react #webdev

Sam Piggott 7 dec. · 6 min read

TypeScript has some incredibly nifty utilities that can be used to make your codebase more readable, efficient and safer.

In this article, I've compiled a list of four of my favourite utilities that I use in my

Sam Piggott

Often coding. Making courses over at CodeSnap.io.

WORK
Senior Full-Stack Engineer at Freelance

LOCATION
London, England

JOINED
7 mrt. 2020

More from Sam Piggott

Getting started with TypeScript as a JavaScript developer
#typescript #javascript #react

https://dev.to/sam_piggott/4-must-know-typescript-tips-tricks-3g8b

The most useful TypeScript utility types

- https://dev.to/sachinchaurasiya/typescript-utility-types-the-6-most-useful-2bp4

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TypeScript Utility Types: The 6 Most Useful
Written by @sachinchaurasiya

Sachin Chaurasiya
Posted on 20 jun. • Originally published at blog.sachinchaurasiya.dev

TypeScript Utility Types: The 6 Most Useful

#javascript #typescript #react #webdev

I have been working with typescript for almost a year now, and I have

Hi there
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OpenSour
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LOCATION
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EDUCATION
University

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Software
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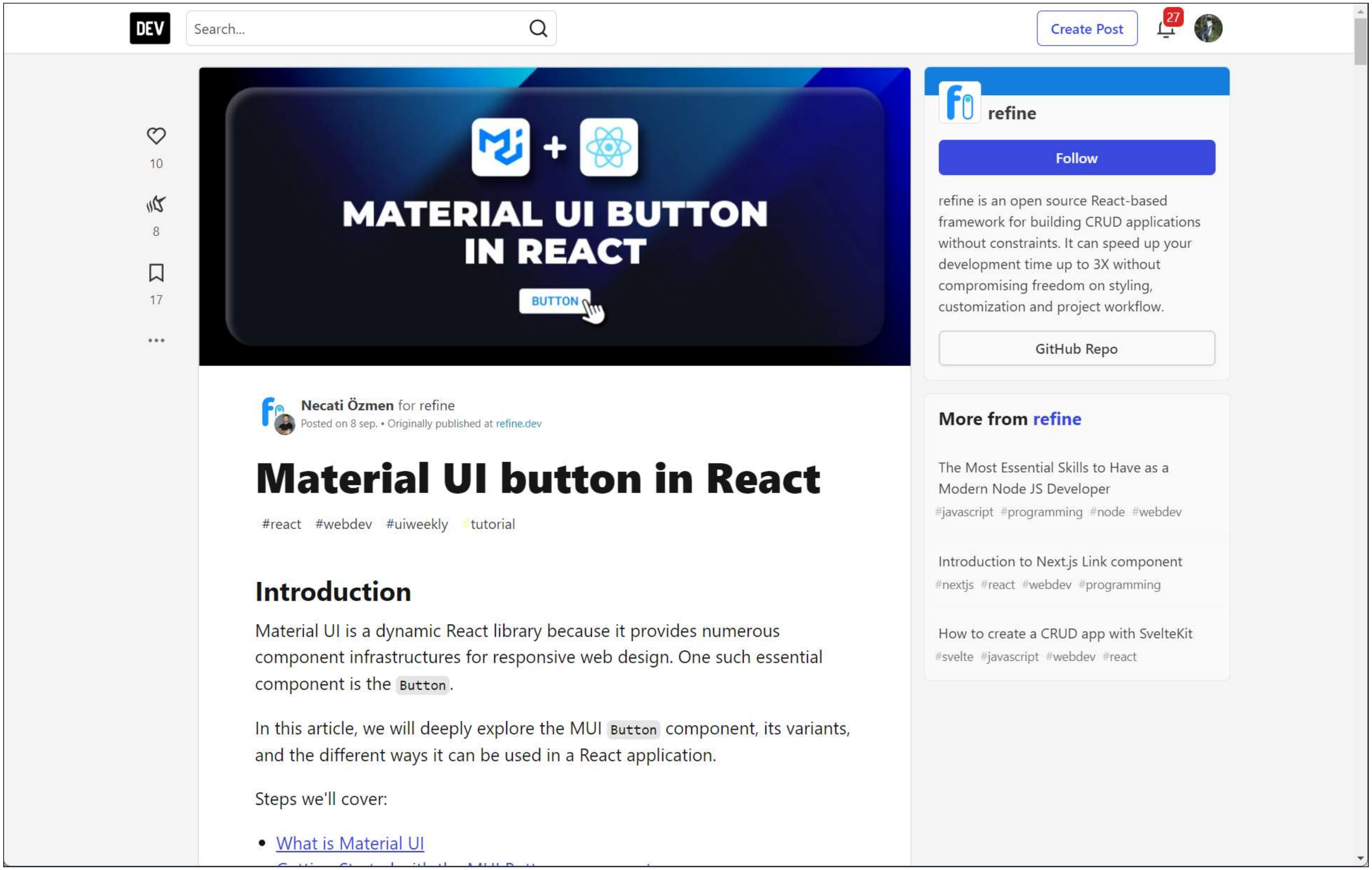
5 Best pra
#react #java

https://dev.to/refine/material-ui-button-in-react-k79



refine

refine is an open source React-based framework for building CRUD applications without constraints. It can speed up your development time up to 3X without compromising freedom on styling, customization and project workflow.

Necati Özmen for refine
Posted on 8 sep. • Originally published at refine.dev

Material UI button in React

#react #webdev #uiweekly #tutorial

Introduction

Material UI is a dynamic React library because it provides numerous component infrastructures for responsive web design. One such essential component is the `Button`.

In this article, we will deeply explore the MUI `Button` component, its variants, and the different ways it can be used in a React application.

Steps we'll cover:

- What is Material UI

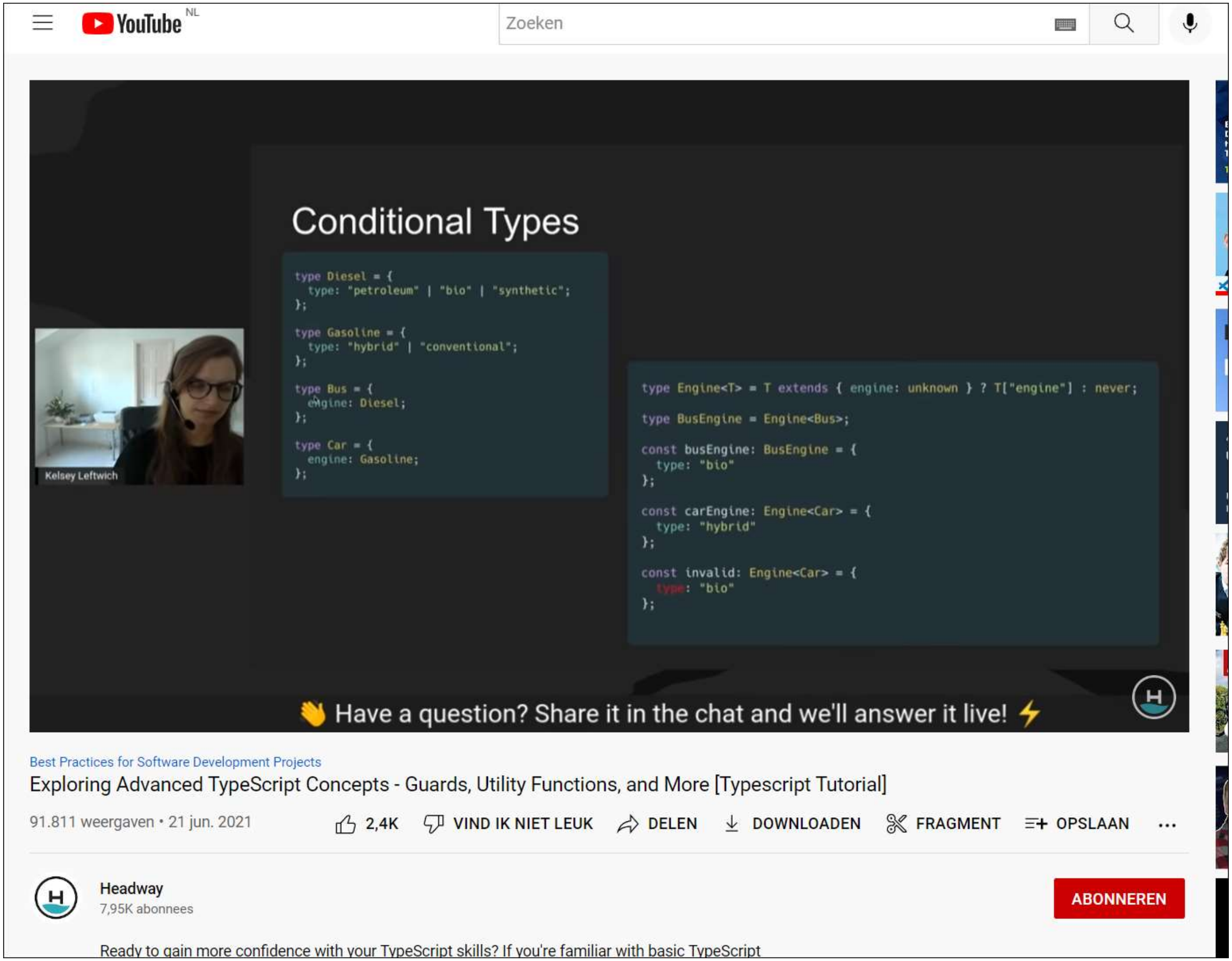
More from refine

The Most Essential Skills to Have as a Modern Node JS Developer
#javascript #programming #node #webdev

Introduction to Next.js Link component
#nextjs #react #webdev #programming

How to create a CRUD app with SvelteKit
#svelte #javascript #webdev #react

https://www.youtube.com/watch?v=eJ6R1knfsoc



Conditional Types

```
type Diesel = {
  type: "petroleum" | "bio" | "synthetic";
};

type Gasoline = {
  type: "hybrid" | "conventional";
};

type Bus = {
  engine: Diesel;
};

type Car = {
  engine: Gasoline;
};
```

```
type Engine<T> = T extends { engine: unknown } ? T["engine"] : never;

type BusEngine = Engine<Bus>;

const busEngine: BusEngine = {
  type: "bio"
};

const carEngine: Engine<Car> = {
  type: "hybrid"
};

const invalid: Engine<Car> = {
  type: "bio"
};
```

👋 Have a question? Share it in the chat and we'll answer it live! ⚡

Best Practices for Software Development Projects

Exploring Advanced TypeScript Concepts - Guards, Utility Functions, and More [Typescript Tutorial]

91.811 weergaven • 21 jun. 2021

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Ready to gain more confidence with your TypeScript skills? If you're familiar with basic TypeScript

Deze naam aanpassen mbv. Beeld, Kop en voettekst