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TypeScript

Overview:

TypeScript Course Overview

TypeScript is a static type checker for JavaScript. Where JavaScript code is prone to failures at runtime, TypeScript flags errors at compile time. Angular applications are written in TypeScript by default, and TypeScript is supported by both React and Vue. This course deals with all of the core TypeScript features including type inference, explicit typing, primitive types, object types, union types, aliases, interfaces, literal types, narrowing, function types, extending types, generics, type manipulation, and classes. Exercises and examples are used throughout the course to give practical hands-on experience with the techniques covered.

Company Events

These events can be delivered exclusively for your company at our locations or yours, specifically for your delegates and your needs. The Company Events can be tailored or standard course deliveries.

Target Audience:

Who will the Course Benefit?

Objectives:

Course Objectives

This course aims to enable the delegate to build web applications using TypeScript. That is,the delegate ought to be able to write using TypeScript,that which they previously wrote using JavaScript,and in so doing produce code which is better and more robust.

Prerequisites:

Delegates attending this course should be familiar with/able to write JavaScript code up to and including features detailed in ES6. This can be achieved via attendance on our JavaScript Developer course.

Follow-on-Courses:

Further Learning

- Developing Node is Web Applications
- Angular Development
- React

Content:

TypeScript Training Course Course Contents -Session 3: NARROWING Session 7: CLASSES DAY 1 What is narrowing? Class members Type guards Fields Course Introduction Truthiness Constructors Equality Methods Administration and Course Materials Membership Getters and setters Class heritage instanceof Course Structure and Agenda Delegate and Trainer Introductions Assignments extends Control flow analysis implements Session 1: INTRODUCTION Member visibility Type predicates Static members TypeScript vs. JavaScript Session 4: FUNCTIONS Generic classes Installing TypeScript Handling this Static type checks Function type expressions Arrow functions Non-exception failures Call signatures Parameter properties Compiling TypeScript to JavaScript Construct signatures Class expressions Explicit types Generic functions Abstract classes and members Strictness flags Generic constraints Relationships between classes Optional parameters Session 2: TYPES Optional parameters in callbacks Session 8: BEST PRACTICES Overloading Primitive types Using this in functions General types Rest parameters and arguments (spread) Generics Array types ■ Variable and function type annotations Parameter destructuring The any type Object types void return type TypeScript Training Callback types Union types Course Contents - DAY 2 Function overloads Aliases Others Interfaces Session 5: MORE ABOUT OBJECT TYPES Assertions Literal types Optional property modifier null and undefined types Readonly property modifier Index signatures Other types Extending types Intersecting types Aliases or interfaces? Generic object types Array types Tuple types Session 6: TYPE MANIPULATION What is type manipulation? Generics keyof typeof Indexed access types Conditional types Mapped types

Further Information:

For More information, or to book your course, please call us on 0800/84.009 info@globalknowledge.be
www.globalknowledge.com/en-be/

Utility types