Learning Typescript 2 X Develop And Maintain Captivating Web Applications With Ease 2nd Edition

Software -- Software Engineering.

TypeScript Revealed is a quick 1OO-page guide to Anders
Hejlsberg's new take on JavaScript. With this brief, fast-paced
introduction to TypeScript, .NET, Web and Windows 8 application
developers who are already familiar with JavaScript will easily
get up to speed with TypeScript and decide whether or not to
start incorporating it into their own development. TypeScript is
'JavaScript for Application-scale development'; a superset of
JavaScript that brings to it an additional object-oriented-like
syntax familiar to .NET programmers that compiles down into
simple, clean JavaScript that any browser can run today. It's
also tied to the next version of the JavaScript standard, which
means that TypeScript will continue to evolve over time to keep
in step with that standard and with the capabilities of the
engines that will execute JavaScript applications. If you are a

.NET developer, Web designer or developer, or a programmer with a keen interest in scalable applications, TypeScript Revealed is a great way to get started with the language, learn how it compiles into JavaScript, and how easy it is to learn from a .NET/Java developer's perspective. Takes you through the language features in Typescript additional to those in JavaScript Describes the tooling and community support for TypeScript development Discusses how TypeScript can be included in ASP.NET, Windows 8, and node.js application development projects. What you'll learn Why you should care about TypeScript What it does and what it doesn't do The current toolset and levels of support The new syntax features of TypeScript How to build your own TypeScript declaration files How to incorporate TypeScript into your projects Who this book is for TypeScript Revealed is aimed at the early adopter developer who is already familiar with Microsoft tools and .NET and/or JavaScript development that wants a flavor of TypeScript distilled, culled, and organized in one place. Table of ContentsChapter 1: What is TypeScript? Why TypeScript? Chapter 2: New Syntax Static Typing & Type Inference Tooling Interfaces Classes Derived classes

using the 'extends' keyword. Arrow functions Modules Enforcing the Intention of some features. Typescript vs EcmaScript6 Chapter 3: Working with TypeScript Tools & Resources Learn the fundamentals of vue.js by creating complex SPAs with Vuex, vue-router and more About This Book We bridge the gap between "learning" and "doing" by providing real-world examples that will improve your web development skills with Vue.js Explore the exciting features of Vue.js 2 through practical and interesting examples Explore modern development tools and learn how to utilize them by building applications with Vue.js Who This Book Is For This book is for developers who know the basics of JavaScript and are looking to learn Vue.js with real examples. You should understand the basics of JavaScript functions and variables and be comfortable with using CSS or a CSS framework for styling your projects. What You Will Learn Looping through data with Vue.js Searching and filtering data Using components to display data Getting a list of files using the dropbox API Navigating through a file tree and loading folders from a URL Caching with Vuex Pre-caching for faster navigation Introducing vue-router and loading components Using

vue-router dynamic routes to load data Using vue-router and Vuex to create an ecommerce store In Detail Vue.js is a frontend web framework which makes it easy to do just about anything, from displaying data up to creating full-blown web apps, and has become a leading tool for web developers. This book puts Vue.js into a real-world context, guiding you through example projects that helps you build Vue.js applications from scratch. With this book, you will learn how to use Vue.js by creating three Single Page web applications. Throughout this book, we will cover the usage of Vue, for building web interfaces, Vuex, an official Vue plugin which makes caching and storing data easier, and Vue-router, a plugin for creating routes and URLs for your application. Starting with a JSON dataset, the first part of the book covers Vue objects and how to utilize each one. This will be covered by exploring different ways of displaying data from a JSON dataset. We will then move on to manipulating the data with filters and search and creating dynamic values. Next, you will see how easy it is to integrate remote data into an application by learning how to use the Dropbox API to display your Dropbox contents in an application In the final section, you will see

how to build a product catalog and dynamic shopping cart using the Vue-router, giving you the building blocks of an e-commerce store. Style and approach This book takes you three projects, with step-by-step instructions to help you understand the concepts of Vue and put it into practice.

Leverage the power of Typescript 2.O using real-world examples About This Book Begin with the fundamentals of TypeScript and learn how to write better JavaScript code Build three amazing applications throughout the book Leverage the power of tools such as Angular 2 and NativeScript to build for the web as well as for mobile Who This Book Is For Web developers who would like to learn how to use TypeScript to build amazing applications will benefit from this book. What You Will Learn Design your first project in Visual Studio Learn about the different data types in TypeScript Create web applications in an object-oriented fashion using TypeScript Build a Trello application using TypeScript's complex features. Explore the tools available in a web application ecosystem to write unit test cases Deploy web applications to cloud and assign resources to the application In Detail The TypeScript language, compiler, and

open source development toolset brings JavaScript development up to the enterprise level. It allows you to use ES5, ES6, and ES7 JavaScript language features today, including classes, interfaces, generics, modules, and more. Its simple typing syntax enables building large, robust applications using object-oriented techniques and industry-standard design principles. This book aims at teaching you how to get up and running with TypeScript development in the most practical way possible. Taking you through two exciting projects built from scratch, you will learn the basics of TypeScript, before progressing to functions, generics, promises, and callbacks. Then, you'll get to implement object-oriented programming as well as optimize your applications with effective memory management. You'll also learn to test and secure your applications, before deploying them. Starting with a basic SPA built using Angular, you will progress on to building, maybe, a Chat application or a cool application. You'll also learn how to use NativeScript to build a cool mobile application. Each of these applications with be explained in detail, allowing you to grasp the concepts fast. By the end of this book, you will have not only built two amazing

projects but you will also have the skills necessary to take
your development to the next level. Style and approach Example-
based approach to get you quickly started with Typescript
A no-nonsense beginner's guide to building web applications with
Angular 10 and TypeScript, 3rd Edition
A Hands-On Guide to Angular 2 and Angular 4
Build 9 different apps with TypeScript 3 and JavaScript
frameworks such as Angular, React, and Vue
Using TypeScript, React, Node.js, Webpack, and Docker
TypeScript Revealed
Full-Stack React, TypeScript, and Node
Learn TypeScript 3 by Building Web Applications

Become a full-stack developer by learning popular Microsoft technologies and platforms such as .NET Core, ASP.NET Core, Entity Framework, and Azure Key FeaturesBring static typing to web development with features compatible in TypeScript 3Implement a slim marketplace single page application (SPA) in Angular, React, and VueModernize your web apps with Microsoft Azure, Visual Studio, and GitBook Description Today, full-stack development is the name of the game. Developers who can build complete solutions, including both backend and frontend products, are in great demand in the industry, hence being able to do so a desirable skill. However, embarking on the path to becoming a modern full-stack developer can be overwhelmingly difficult, so the key purpose of this book is to simplify and ease the process.

This comprehensive guide will take you through the journey of becoming a full-stack developer in the realm of the web and .NET. It begins by implementing data-oriented RESTful APIs, leveraging ASP.NET Core and Entity Framework. Afterward, it describes the web development field, including its history and future horizons. Then, you'll build webbased Single-Page Applications (SPAs) by learning about numerous popular technologies, namely TypeScript, Angular, React, and Vue. After that, you'll learn about additional related concerns involving deployment, hosting, and monitoring by leveraging the cloud; specifically, Azure. By the end of this book, you'll be able to build, deploy, and monitor cloud-based, data-oriented, RESTful APIs, as well as modern web apps, using the most popular frameworks and technologies. What you will learnBuild RESTful APIs in C# with ASP.NET Core, web APIs, and Entity FrameworkSee the history and future horizons of the web development fieldBring static-typing to web apps using TypeScriptBuild web applications using Angular, React, and VueDeploy your application to the cloudWrite web applications that scale, can adapt to changes, and are easy to maintainDiscover best practices and real-world tips and tricksSecure your backend server with Authentication and Authorization using OAuth 2.0Who this book is for This book is for developers who are keen on strengthening their skills in the field of cloud-based full-stack web development. You need basic knowledge of web-related pillars, including HTML, CSS, and JavaScript, as well as C# and REST. This book targets novice developers in the realm of Web development and ASP.NET who desire to advance to modern Web and ASP.NET Core development and leverage the Cloud to manage and bring everything together.

Start developing modern day component based web apps using React 16, Redux and TypeScript 3 with this easy to follow guide filled with practical examples. Key FeaturesLearn

the latest and core features of React such as components, React Router, and suspenseDive into TypeScript 3 and it`s core components such as interfaces, types aliases, tuples, generics and much more.Build small-to-large scale single page applications with React, Redux, GraphQL and TypeScriptBook Description React today is one of the most preferred choices for frontend development. Using React with TypeScript enhances development experience and offers a powerful combination to develop high performing web apps. In this book, you'll learn how to create well structured and reusable react components that are easy to read and maintain by leveraging modern web development techniques. We will start with learning core TypeScript programming concepts before moving on to building reusable React components. You'll learn how to ensure all your components are type-safe by leveraging TypeScript's capabilities, including the latest on Project references, Tuples in rest parameters, and much more. You'll then be introduced to core features of React such as React Router, managing state with Redux and applying logic in lifecycle methods. Further on, you'll discover the latest features of React such as hooks and suspense which will enable you to create powerful function-based components. You'll get to grips with GraphQL web API using Apollo client to make your app more interactive. Finally, you'll learn how to write robust unit tests for React components using Jest. By the end of the book, you'll be well versed with all you need to develop fully featured web apps with React and TypeScript. What you will learnGain a first-hand experience of TypeScript and its productivity features Transpile your TypeScript code into JavaScript for it to run in a browser Learn relevant advanced types in TypeScript for creating strongly typed and reusable components.Create stateful function-based components that handle lifecycle events using hooks Get to know what GraphQL is and how to work with it by

executing basic queries to get familiar with the syntaxBecome confident in getting good unit testing coverage on your components using JestWho this book is for The ideal target audience for this book are web developers who want to get started with creating modern day web apps with React and TypeScript.You are expected to have a basic understanding of JavaScript and HTML programming. No prior knowledge of TypeScript and React is needed.

"Writing large applications in JavaScript is a challenge. TypeScript brings JavaScript down to Earth by providing optional static typing and future JavaScript features today. It gives the developer instant feedback on the code they are writing in order to catch mistakes earlier in the development process. In this video course, you will put in place all TypeScript code to have the basics of the application running by starting the project from scratch, creating the structures and files needed and stitching the code all together with modules. You will also learn how to use third-party code not written in TypeScript. Finally, this volume shows how to enhance your build process in particular with Node and Gulp, and then, how to debug the application."--Resource description page.

Build exciting end-to-end applications with TypeScript About This Book This book will help you whether you're a beginner or an expert Complete and complex projects provide codes that are ready and solutions for start-ups and enterprise developers The book will showcase the power and depth of TypeScript when it comes to high performance and scalability Who This Book Is For This book was written for web developers who wish to make the most of TypeScript and build fun projects. You should be familiar with the fundamentals of JavaScript What You Will Learn Build quirky and fun projects from scratch while exploring widely applicable practices and techniques Use TypeScript with a range of different technologies such as Angular 2 and

React and write cross-platform applications Migrate JavaScript codebases to TypeScript to improve your workflow Write maintainable and reusable code that is helpful in the world of programming revolving around features and bugs Using System.JS and Webpack to load scripts and their dependencies. Developing highly performance server-side applications to run within Node Js. Reviewing high performant Node.js patterns and manage garbage collection. In Detail TypeScript is the future of JavaScript. Having been designed for the development of large applications, it is being widely incorporated in popular projects such as Angular JS 2.0. Adopting TypeScript results in more robust software, while still being deployable in apps where regular JavaScript would run. Scale and performance lie at the heart of the projects built in our book. The lessons learned throughout this book will arm you with everything you need to build amazing projects. During the course of this book, you will learn how to build a complete Single Page Application with Angular 2 and create a popular mobile app using NativeScript. Further on, you will build a classic Pac Man game in TypeScript. We will also help you migrate your legacy codebase project from JavaScript to TypeScript. By the end of the book, you will have created a number of exciting projects and will be competent using TypeScript for your live projects. Style and approach The book focuses on building projects from scratch. These end-to-end projects will give you ready-to-implement solutions for your business scenario, showcasing the depth and robustness of TypeScript.
Design Patterns
TypeScript Quickly
Web Development with Node and Express
Vue.js 2.x by Example

Hands-On Functional Programming with TypeScript
Modern Full-Stack Development

TypeScript is a typed superset of JavaScript with the potential to solve many of the headaches for which JavaScript is famous. But TypeScript has a learning curve of its own, and understanding how to use it effectively can take time. This book guides you through 62 specific ways to improve your use of TypeScript. Author Dan Vanderkam, a principal software engineer at Sidewalk Labs, shows you how to apply these ideas, following the format popularized by Effective C++ and Effective Java (both from Addison-Wesley). You'll advance from a beginning or intermediate user familiar with the basics to an advanced user who knows how to use the language well. Effective TypeScript is divided into eight chapters: Getting to Know TypeScript TypeScript's Type System Type Inference Type Design Working with any Types Declarations and @types Writing and Running Your Code Migrating to TypeScript "TypeScript 2.x adds optional static types, classes, and modules to JavaScript, giving you great tools and enabling you to structure of large JavaScript applications better. In this course, we'll teach you how to leverage the exciting features of TypeScript while working on Angular projects to build scalable, data-intensive web applications."--Resource description page.

"Writing large applications in JavaScript is a challenge. TypeScript brings JavaScript down to earth by providing optional static typing and future JavaScript features today. It gives developers instant feedback on the code they are writing in order to catch mistakes earlier in the development process. In this course, you will take a basic game application and enhance it to provide a better user experience. You will start by learning how to incorporate Object Oriented Programming concepts within your application such as inheritance in classes. You will also learn to extend your classes and work with interfaces and TypeScript's newly introduced mixin classes. You will then learn to play with TypeScript's types, enforce efficient typing with TypeGuard, and trigger your application in different ways using function overload. After that you will explore how to use Asynchronous code to work with image data in your applications, and use class decorators to add exciting JavaScript features within your application. Finally you will learn to improve the quality of your code with the help of different method such as unit testing and code coverage."--Resource description page.

Leverage the features of TypeScript to boost your development skills and create captivating applications About This Book Learn how to develop modular, scalable, maintainable, and adaptable web applications by taking advantage of TypeScript Explore techniques to use TypeScript alongside other leading tools such as Angular 2, React, and Node.js Focusing on design patterns in TypeScript, this step-by-step guide demonstrates

all the important design patterns in practice Who This Book Is For This Learning Path is for intermediate-level JavaScript developers who want to use TypeScript to build beautiful web applications and fun projects. No prior knowledge of TypeScript is required, but a basic understanding of jQuery is expected. This Learning Path is also for experienced TypeScript developers who want to take their skills to the next level, and also for web developers who wish to make the most of TypeScript. What You Will Learn Understand the key TypeScript language features and runtime Install and configure the necessary tools in order to start developing an application Create object-oriented code that adheres to the SOLID principles Develop robust applications with testing (Mocha, Chai, and SinonJS) Apply GoF patterns in an application with a testing approach Identify the challenges when developing an application Migrate JavaScript codebases to TypeScript to improve your workflow Utilize System.JS and Webpack to load scripts and their dependencies Develop high performance server-side applications to run within Node.js In Detail TypeScript is an open source and cross-platform typed superset of JavaScript that compiles to plain JavaScript that runs in any browser or any host. TypeScript adds optional static types, classes, and modules to JavaScript, to enable great tooling and better structuring of large JavaScript applications. Through this three-module learning path, you'll learn the ins-and-outs of TypeScript for building more robust software. The first module gets you started with TypeScript and helps you understand the

basics of TypeScript and automation tools. Get a detailed description of function, generics, callbacks, and promises, and discover the object-oriented features and memory management functionality of TypeScript. The next module starts by explaining the current challenges when designing and developing an application and how you can solve these challenges by applying the correct design pattern and best practices. You will be introduced to low-level programming concepts to help you write TypeScript code, as well as working with software architecture, best practices, and design aspects. The final module will help you build a complete single page app with Angular 2, create a neat mobile app using NativeScript, and even build a Pac Man game with TypeScript. As if the fun wasn't enough, you'll also find out how to migrate your legacy codebase from JavaScript to TypeScript. By the end of this Learning Path, you will be able to take your skills up a notch and develop full-fledged web applications using the latest features of the TypeScript. This Learning Path combines some of the best that Packt has to offer in one complete, curated package. It includes content from the following Packt products: Learning TypeScript by Remo H. Jansen TypeScript Design Patterns by Vilic Vane TypeScript Blueprints by Ivo Gabe de Wolff Style and approach This is a step-by-step, practical guide covering the fundamentals of TypeScript with practical examples. The end-to-end projects included in this book will give you ready-to-implement solutions for your business scenario, showcasing the depth and robustness of TypeScript.

Become fluent in both frontend and backend web development with Docker, Angular and Laravel

A practical guide to confident, effective TypeScript programming

Leveraging the JavaScript Stack

A Journey to Angular Development

Building Pro Web Apps with TypeScript 2.x

Develop and maintain captivating web applications with ease, 2nd Edition

Learn end-to-end web development with leading frontend frameworks, such as Angular, React, and Vue

Functional programming is a very powerful programming paradigm that can help us to write better code. This book presents essential functional and reactive programming concepts in a simplified manner using Typescript.

Work with everything you need to create TypeScript applications Key Features Learn enough about all aspects of TypeScript Answers the questions that new users ask about TypeScript Focus on simple examples and concise explanations Book Description TypeScript is designed for the development of large applications and can be used to develop JavaScript applications for both

client-side and server-side execution. This book is the ideal introduction to TypeScript, covering both the basics and the techniques you need to build your own applications. We start by setting up the environment and learning about the build tools that support TypeScript. Then we look at scoping of a variable, and the difference between a undefined variable and a null variable. You will then see the difference between an object, an Object, an object literal, and an object built with a constructor, crucial concepts in understanding TypeScript. You will learn how to make your code more generic to increase the reusability of your classes, functions, and structures, and to reduce the burden of duplicating code. We look at creating definition files to transform the actual JavaScript code to be compatible with TypeScript. By the end of the book, you will have worked with everything you need to develop stunning applications using TypeScript. What you will learn Set up the environment quickly to get started with TypeScript Configure TypeScript with essential configurations that run along your code Structure the code using Types and Interfaces to create objects Demonstrate how to create object-oriented code with

TypeScript Abstract code with generics to make the code more reusable Transform the actual JavaScript code to be compatible with TypeScript Who this book is for This book is for JavaScript developers who want to get started with TypeScript for building applications. No previous knowledge of TypeScript is expected. With Learning JavaScript Design Patterns, you'll learn how to write beautiful, structured, and maintainable JavaScript by applying classical and modern design patterns to the language. If you want to keep your code efficient, more manageable, and up-to-date with the latest best practices, this book is for you. Explore many popular design patterns, including Modules, Observers, Facades, and Mediators. Learn how modern architectural patterns—such as MVC, MVP, and MVVM—are useful from the perspective of a modern web application developer. This book also walks experienced JavaScript developers through modern module formats, how to namespace code effectively, and other essential topics. Learn the structure of design patterns and how they are written Understand different pattern categories, including creational, structural, and behavioral Walk through more than 20 classical and modern design patterns in JavaScript

Use several options for writing modular code—including the Module pattern, Asyncronous Module Definition (AMD), and CommonJS Discover design patterns implemented in the jQuery library Learn popular design patterns for writing maintainable jQuery plug-ins "This book should be in every JavaScript developer's hands. It's the go-to book on JavaScript patterns that will be read and referenced many times in the future."—Andrée Hansson, Lead Front-End Developer, presis! Any programmer working with a dynamically typed language will tell you how hard it is to scale to more lines of code and more engineers. That's why Facebook, Google, and Microsoft invented gradual static type layers for their dynamically typed JavaScript and Python code. This practical book shows you how one such type layer, TypeScript, is unique among them: it makes programming fun with its powerful static type system. If you're a programmer with intermediate JavaScript experience, author Boris Cherny will teach you how to master the TypeScript language. You'll understand how TypeScript can help you eliminate bugs in your code and enable you to scale your code across more engineers than you could before. In this book,

you'll: Start with the basics: Learn about TypeScript's different types and type operators, including what they're for and how they're used Explore advanced topics: Understand TypeScript's sophisticated type system, including how to safely handle errors and build asynchronous programs Dive in hands-on: Use TypeScript with your favorite frontend and backend frameworks, migrate your existing JavaScript project to TypeScript, and run your TypeScript application in production Fullstack React
Effective TypeScript
Build engaging applications with TypeScript, Angular, and NativeScript on the Azure platform
Discover effective techniques and design patterns for every programming task
Example-driven guide to build web apps with Vue.js for beginners
Learning JavaScript Design Patterns
Learn TypeScript for Angular Development

A detailed and easy-to-follow guide to learning design patterns and modern best practices for improving your TypeScript development skills Key Features • Understand, analyze, and develop classical design patterns in TypeScript •

Explore advanced design patterns taken from functional programming and reactive programming • Discover useful techniques and gotchas when developing large-scale TypeScript applications Book Description TypeScript is a superset language on top of JavaScript that introduces type safety and enhanced developer tooling. TypeScript 4 Design Patterns and Best Practices will assist with understanding design patterns and learning best practices for producing scalable TypeScript applications. It will also serve as handy documentation for future maintainers. This book takes a hands-on approach to helping you get up and running with the implementation of TypeScript design patterns and associated methodologies for writing testable code. You'll start by exploring the practical aspects of TypeScript 4 and its new features. The book will then take you through traditional gang of four (GOF) design patterns, such as behavioral, creational, and structural in their classic and alternative forms, and show you how you can use them in real-world development projects. Once you've got to grips with traditional design patterns, you'll advance to learning about their functional programming and reactive programming counterparts and how they can be coupled to deliver better and more idiomatic TypeScript code. By the end of this TypeScript book, you'll be able to efficiently recognize when and how to use the right design patterns in any practical use case and gain the confidence to work

on scalable and maintainable TypeScript projects of any size. What you will learn • Understand the role of design patterns and their significance • Explore all significant design patterns within the context of TypeScript • Find out how design patterns differ from design concepts • Understand how to put the principles of design patterns into practice • Discover additional patterns that stem from functional and reactive programming • Recognize common gotchas and antipatterns when developing TypeScript applications and understand how to avoid them Who this book is for If you're a developer looking to learn how to apply established design patterns to solve common programming problems instead of reinventing solutions, you'll find this book useful. You're not expected to have prior knowledge of design patterns. Basic TypeScript knowledge is all you need to get started with this book. Table of Contents • Getting Started With Typescript 4 • Typescript Principles and Use Cases • Creational Design Patterns • Structural Design Patterns • Behavioral Design Patterns • Functional Programming Design Concepts • Reactive Design Patterns • Developing Robust and Modern Typescript Applications • Anti Patterns and Workarounds Work with Typescript and get the most from this versatile open source language. Author Adam Freeman begins this book by describing Typescript and the benefits it offers, and goes on to show you how to use TypeScript in realistic

scenarios, going in-depth to give you the knowledge you need. Starting from the nuts-and-bolts and building up to the most advanced and sophisticated features, you will learn how TypeScript builds on the JavaScript type system to create a safer and more productive development experience and understand how TypeScript can be used to create applications using popular frameworks, including Node.js, Angular, React, and Vue.js. Each topic is covered clearly and concisely and is packed with the details you need to learn to be truly effective. The most important features are given a no-nonsense in-depth treatment and chapters include common problems and details of how to avoid them. What You Will LearnGain a solid understanding of the TypeScript language and toolsUse TypeScript for client- and server-side developmentExtend and customize TypeScriptDebug and unit test your TypeScript code Who This Book Is For Developers who want to start using TypeScript, for example to create rich web applications using Angular, React, or Vue.js Adam Freeman is an experienced IT professional who has held senior positions in a range of companies, most recently serving as chief technology officer and chief operating officer of a global bank. Now retired, he spends his time writing and long-distance running. Write better, reusable, and predictable Angular apps with typed logicAbout This Book* Leverage the power of TypeScript for developing large-scale Angular

apps* Take advantage of the cutting-edge features of TypeScript 2.x to build high-performing, maintainable applications* Explore the TypeScript implementation of modules, classes, and annotations with Angular componentsWho This Book Is ForThis book is for developers who would like to learn to use TypeScript to develop Angular applications. A basic JavaScript knowledge would be beneficial. What You Will Learn* Move from loose types to predictable strict types* Write self-documented API methods and data structures* Understand custom generic types for complex data structures* Implement Contract with Interfaces* Enhance Dependency Injection in Angular via class constructors* Explore TypeScript advanced types* Build Interactive web apps with Angular and TypeScriptIn DetailTypeScript, a superset of JavaScript, is the default language for building Angular applications from Google. TypeScript 2.0 adds optional static types, classes, and modules to JavaScript, to enable great tooling and better structuring of large JavaScript applications.This book will teach you how to leverage the exciting features of TypeScript while working on Angular projects to build scalable, data-intensive web applications. You will begin by setting up and installing TypeScript and then compile it with JavaScript. You will then learn to write simple JavaScript expressions with TypeScript. You will then go through some built in TypeScript types and accessors. Further you will build web

components using TypeScript Interfaces and Decorators. You will go through the Angular form module, which will enable you to write predictable typed forms with TypeScript and learn to use typed DOM events. You will also build a single-page application using the Router module. Lastly, you will consume API data with Angular's HTTP Module and handle responses with RxJS observables. At the end of the book, you will go through different testing and debugging techniques.Style and approachA step-by-step, tutorial-based guide The book introduces the TypeScript language and its features to anyone looking to develop rich web applications. Whether you are new to web development or are an experienced engineer with strong JavaScript skills, this book will get you writing code quickly. A basic understanding of JavaScript and its language features are necessary for this book.
The TypeScript Workshop
Programming TypeScript
Learning TypeScript 2.x
TypeScript for Javascript Programmers
Resources in Education
Explore functional and reactive programming to create robust and testable TypeScript applications

TypeScript Blueprints
Learn Angular beyond basic concepts – best practices and project experience. KEY FEATURES   Includes real examples and numerous illustrated use-cases on how to build dynamic and interactive web applications.   Covers true challenges faced by Angular professionals along with proven solutions and best practices.   Discusses various kinds of best practices followed in Angular applications.   Makes you travel through a journey of 20 stations. Each station comes with new excitement and new challenges.   Covers practical examples with real-time discussions. DESCRIPTION This book is an exciting journey where novice developers learn everything they need to do before they start working on the Angular framework and develop dynamic web applications. The book begins with building a strong foundation on the concepts of web application development and numerous developer-friendly terminologies that you would often come across while learning Angular. It covers the essentials of ES6, Webpack, and TypeScript to write Angular applications and make the development of Angular apps more enticing, innovative, and scalable. The book talks about modules, directives, components, data binding, routing, and many more components and functions. Each of these topics is backed with real examples and illustrations. By the end of this book, you will learn about Angular's powerful features and capabilities.

You will become a confident developer to design your own modern, responsive, and user-friendly web applications all by yourself using this single source of knowledge. WHAT YOU WILL LEARN   Master fundamental concepts of Angular and it's Architecture.   Witness the true potential of Angular for building composable components.   Become well versed with the file and folder structure of an Angular application.   Learn to write clean, simple and error-free codes like a sound professional developer.   Learn the essentials of ES6, Typescript and Webpack to write angular applications..1. WHO THIS BOOK IS FOR This book is for all web developers, software programmers, front-end developers, and entry-level developers who want to learn Angular or enhance the existing Angular applications to modern and responsive applications. Basic knowledge of JavaScript is an advantage to begin with this book. TABLE OF CONTENTS 1. Introduction 2. Get Your Basics Stronger 3. ES6 Features Part 1 4. ES6 Features Part 2 5. ES6 Features Part 3 6. ES6 Features Part 4 7. Webpack 8. TypeScript 9. Angular the Beginning 10. Angular First App 11. Beautify the Angular UI with Bootstrap CSS 12. Authentication 13. Authentication Service 14. Unsubscribe 15. Logout and Route Guard Cleanup 16. Customer Service 17. Http Service 18. Token Interceptor 19. Multi Provider 20. Compile-time Configuration 21. Runtime Configuration 22. Error Handling 23. The Component-Oriented Style in Action

24. Angular Routing 25. Angular Modules 26. Angular Pipes 27. Angular Directives 28. Angular Forms 29. Angular Styles 30. Angular Change Detection 31. Angular Elements 32. Left Over

Exploit the features of TypeScript to develop and maintain captivating web applications with ease About This Book Learn how to develop modular, scalable, maintainable, and adaptable web applications by taking advantage of TypeScript Create object-oriented JavaScript that adheres to the solid principles efficiently A comprehensive guide that explains the fundamentals of TypeScript with the help of practical examples Who This Book Is For If you are a JavaScript developer aiming to learn TypeScript to build beautiful web applications, then this book is for you. No prior knowledge of TypeScript is required. What You Will Learn Learn the key TypeScript language features and language runtime Develop modular, scalable, maintainable, and adaptable web applications Create object-oriented code that adheres to the solid principles Save time using automation tools like Gulp and Karma Develop robust applications with testing (Mocha, Chai and SinonJS) Put your TypeScript skills in practice by developing a single-page web application framework from scratch Use the JavaScript of tomorrow (ES6 and ES7) today with TypeScript In Detail TypeScript is an open source and cross-platform typed superset of JavaScript that compiles to plain JavaScript that runs in any

browser or any host. It allows developers to use the future versions of JavaScript (ECMAScript 6 and 7) today. TypeScript adds optional static types, classes, and modules to JavaScript, to enable great tooling and better structuring of large JavaScript applications. This book is a step-by-step guide that will get you started with TypeScript with the help of practical examples. You start off by understanding the basics of TypeScript. Next, automation tools like Grunt are explained followed by a detailed description of function, generics, callbacks and promises. After this, object-oriented features and the memory management functionality of TypeScript are explained. At the end of this book, you will have learned enough to implement all the concepts and build a single page application from scratch. Style and approach This is a step-by-step guide that covers the fundamentals of TypeScript with practical examples. Each chapter introduces a set of TypeScript language features and leads the readers toward the development of a real-world application.

If you want to build cross-platform web applications using the robust Angular web framework, this book is for you. Learning Angular will cover the core concepts of frontend web development using easy-to-follow instructions to help you get up and running with Angular web development in no time.

LEARN REACT TODAY The up-to-date, in-depth, complete guide to React and friends. Become a ReactJS expert today

Rapid Web Application Development with TypeScript 2.x
Getting Started with TypeScript
From Beginner to Pro
Elements of Reusable Object-Oriented Software
Includes Introduction to Angular. Write Professional JavaScript Code that Scales, Use Interfaces and Classes to Build Robust Code, Learn about Generics, Modules, Arrow Functions, Decorators, Declarations, Npm and Much More
Beginner's guide to modern React web development with TypeScript 3
TypeScript Essentials
Build modern, fast, and progressive web applications using modern features of PHP 7 and TypeScript Key Features Explore the latest features of Angular and Laravel to build applications that are powerful, consistent, and maintainable Develop modern user interfaces with a reusable component-based architecture using Angular 6 and Bootstrap 4 Learn how to build secure backend APIs with Laravel Book Description Angular, considered as one of the most popular and powerful frontend frameworks, has undergone a major overhaul to embrace emerging web technologies so that developers can build cutting-edge web applications. This book gives you practical knowledge of building modern full-stack web apps from scratch using Angular with a Laravel Restful back end. The book begins with a thorough introduction to Laravel and Angular and its core concepts like custom errors messages, components, routers, and Angular-cli, with

each concept being explained first, and then put into practice in the case-study project. With the basics covered, you will learn how sophisticated UI features can be added using NgBootstrao and a component-based architecture. You will learn to extend and customize variables from Bootstrap CSS framework. You will learn how to create secure web application with Angular and Laravel using token based authentication. Finally, you will learn all about progressive web applications and build and deploy a complete fullstack application using Docker and Docker-compose. By the end of this book, you'll gain a solid understanding of Angular 6 and how it interacts with a Laravel 5.x backend What you will learn Explore the core features of Angular 6 to create sophisticated user interfaces Use Laravel 5 to its full extent to create a versatile backend layer based on RESTful APIs Configure a web application in order to accept user-defined data and persist it into the database using server-side APIs Build an off-line-first application using service-worker and manifest file Deal with token based authentication on single page application (SPA). Secure your application against threats and vulnerabilities in a time efficient way Deploy using Docker and Docker-compose Who this book is for This book targets developers who are new to Angular, Laravel, or both, and are seeking a practical, best-practice approach to development with these technologies. They must have some knowledge of HTML, CSS and JavaScript. Familiarity of PHP is assumed to get the most from this book.

Summary Angular Development with TypeScript, Second Edition is an intermediate-level tutorial that introduces Angular and TypeScript to developers comfortable with building web applications using other frameworks and tools. Purchase of the print book includes a free eBook in PDF,

Kindle, and ePub formats from Manning Publications. About the Technology Whether you're building lightweight web clients or full-featured SPAs, Angular is a clear choice. The Angular framework is fast, efficient, and widely adopted. Add the benefits of developing in the statically typed, fully integrated TypeScript language, and you get a programming experience other JavaScript frameworks just can't match. About the Book Angular Development with TypeScript, Second Edition teaches you how to build web applications with Angular and TypeScript. Written in an accessible, lively style, this illuminating guide covers core concerns like state management, data, forms, and server communication as you build a full-featured online auction app. You'll get the skills you need to write type-aware classes, interfaces, and generics with TypeScript, and discover time-saving best practices to use in your own work. What's inside Code samples for Angular 5, 6, and 7 Dependency injection Reactive programming The Angular Forms API About the Reader Written for intermediate web developers familiar with HTML, CSS, and JavaScript. About the Author Yakov Fain and Anton Moiseev are experienced trainers and web application developers. They have coauthored several books on software development. Table of Contents Introducing Angular The main artifacts of an Angular app Router basics Router advanced Dependency injection in Angular Reactive programming in Angular Laying out pages with Flex Layout Implementing component communications Change detection and component lifecycle Introducing the Forms API Validating forms Interacting with servers using HTTP Interacting with servers using the WebSocket protocol Testing Angular applications Maintaining app state with ngrx

Gain in-depth knowledge of TypeScript and the latest ECMAScript standards by building robust web applications across different domains Key Features Apply the cutting-edge features of TypeScript 3.0 to build high-performance, maintainable applications Learn through practical examples of using TypeScript with popular frameworks, such as Angular and React Focus on building high-quality applications that are modular, scalable and adaptable Book Description With the demand for ever more complex websites, the need to write robust, standard-compliant JavaScript has never been greater. TypeScript is modern JavaScript with the support of a first-class type system, which makes it simpler to write complex web systems. With this book, you'll explore core concepts and learn by building a series of websites and TypeScript apps. You'll start with an introduction to TypeScript features that are often overlooked in other books, before moving on to creating a simple markdown parser. You'll then explore React and get up to speed with creating a client-side contacts manager. Next, the book will help you discover the Angular framework and use the MEAN stack to create a photo gallery. Later sections will assist you in creating a GraphQL Angular Todo app and then writing a Socket.IO chatroom. The book will also lead you through developing your final Angular project which is a mapping app. As you progress, you'll gain insights into React with Docker and microservices. You'll even focus on how to build an image classification program with machine learning using TensorFlow. Finally, you'll learn to combine TypeScript and C# to create an ASP.NET Core-based music library app. By the end of this book, you'll be able to confidently use TypeScript 3.0 and different JavaScript frameworks to build high-quality apps. What you will learn Discover how to use TypeScript to

write code using common patterns Get to grips with using popular frameworks and libraries with TypeScript Leverage the power of both server and client using TypeScript Learn how to apply exciting new paradigms such as GraphQL and TensorFlow Use popular cloud-based authenticated services Combine TypeScript with C# to create ASP.NET Core applications Who this book is for This book is for programmers and web developers who are familiar with TypeScript and want to put their knowledge to work by building real-world complex applications. Prior experience with any other web framework is not required.

Harness the capabilities of TypeScript to build cutting-edge web apps with Angular About This Video Leverage the power of TypeScript to develop large-scale Angular apps Learn the cutting-edge features of TypeScript 2.x to build high-performing, maintainable applications Explore the TypeScript implementation of modules, classes, and annotations with Angular components In Detail TypeScript 2.x adds optional static types, classes, and modules to JavaScript, giving you great tools and enabling you to structure of large JavaScript applications better. In this course, we'll teach you how to leverage the exciting features of TypeScript while working on Angular projects to build scalable, data-intensive web applications. We'll begin with an introduction to TypeScript and Angular framework, where you will install the TypeScript compiler and learn the most important secrets of the TypeScript language such as types, functions, classes, interfaces and start working in the Angular environment. The next section describes the introduction to components in the Angular framework using TypeScript. Using Angular CLI, you will create your first component, learn how to compose components, learn lifecycle methods in Angular, and

respond to the user actions with events. The third section describes the services in the Angular framework, where you will learn about dependency injection and services in the Angular framework, create your first service, which will inject into the component and for service. The next section describes modules, directives, pipes and two-way data binding, where you will learn about modules in the Angular framework, find out what directives are and how to use them, create your own custom directive, add an external directive, transform data with pipes, and create two-way data binding in two ways. In the next section, you will learn how to create a reactive form, handle the form and validate the data. The sixth section describes the routing strategies, where you will create an example routing configuration, add links thanks to which it will be possible to navigate without reloading the page, handle routing. The last section is an introduction to testing and debugging, where you will learn about the tests, the types of tests, learn how to debug code using Chrome dev tools, and create component tests. The code bundle for this video course is available at https://github.com/PacktPublishing/Learn-TypeScript-for-Angular-Development...

Hands-On Full Stack Web Development with Angular 6 and Laravel 5

Learn Angular Fundamentals, TypeScript, Webpack, Routing, Directives, Components, Forms, and Modules with Practical Examples (English Edition)

Advanced TypeScript Programming Projects

Learning Angular

TypeScript 2.x By Example

Learning TypeScript

Hands-On Full-Stack Web Development with ASP.NET Core

Summary TypeScript is JavaScript with an important upgrade! By adding a strong type system to JavaScript, TypeScript can help you eliminate entire categories of runtime errors. In TypeScript Quickly, you'll learn to build rock-solid apps through practical examples and hands-on projects under the expert instruction of experienced web developers Yakov Fain and Anton Moiseev. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology Strong typing can eliminate nearly all errors caused by unanticipated data values. With TypeScript, an enhanced version of JavaScript, you can specify types and type annotations so your code is easier to read and far less likely to fail at runtime. And because the core of TypeScript is standard JavaScript, it runs on all major browsers and can be used with frameworks like Angular, Vue, and React. About the book TypeScript Quickly teaches you to exploit the benefits of types in browser-based and standalone applications. In this practical guide, you'll build a fascinating blockchain service app that takes you through a range of type-sensitive programming techniques. As you go, you'll also pick up valuable techniques for object-oriented programming with classes, interfaces, and advanced features such as decorators and conditional types. What's inside Mastering TypeScript

syntax Using TypeScript with JavaScript libraries Tooling with Babel and Webpack Developing TypeScript apps using Angular, React, and Vue About the reader For web developers comfortable with JavaScript and HTML. About the author Yakov Fain and Anton Moiseev are experienced web developers. They have authored two editions of Manning's Angular Development with TypeScript. Table of Contents: PART 1 MASTERING THE TYPESCRIPT SYNTAX 1 ¦ Getting familiar with TypeScript 2 ¦ Basic and custom types 3 ¦ Object-oriented programming with classes and interfaces 4 ¦ Using enums and generics 5 ¦ Decorators and advanced types 6 ¦ Tooling 7 ¦ Using TypeScript and JavaScript in the same project PART 2 APPLYING TYPESCRIPT IN A BLOCKCHAIN APP 8 ¦ Developing your own blockchain app 9 ¦ Developing a browser-based blockchain node 10 ¦ Client-server communications using Node.js, TypeScript, and WebSockets 11 ¦ Developing Angular apps with TypeScript 12 ¦ Developing the blockchain client in Angular 13 ¦ Developing React.js apps with TypeScript 14 ¦ Developing a blockchain client in React.js 15 ¦ Developing Vue.js apps with TypeScript 16 ¦ Developing the blockchain client in Vue.js Learn TypeScript and many of its features by building state of art web applications from scratch with the help of modern tooling, frameworks, and libraries Key Features Create modern Web applications to help businesses around the world benefit from better quality applications Learn the latest features

of TypeScript 3 and use them wisely Explore TDD practices, OOP techniques, and industry best practices to create high-quality and modular apps Book Description TypeScript is a superset of the JavaScript programming language, giving developers a tool to help them write faster, cleaner JavaScript. With the help of its powerful static type system and other powerful tools and techniques it allows developers to write modern JavaScript applications. This book is a practical guide to learn the TypeScript programming language. It covers from the very basics to the more advanced concepts, while explaining many design patterns, techniques, frameworks, libraries and tools along the way. You will also learn a ton about modern web frameworks like Angular, Vue.js and React, and you will build cool web applications using those. This book also covers modern front-end development tooling such as Node.js, npm, yarn, Webpack, Parcel, Jest, and many others. Throughout the book, you will also discover and make use of the most recent additions of the language introduced by TypeScript 3 such as new types enforcing explicit checks, flexible and scalable ways of project structuring, and many more breaking changes. By the end of this book, you will be ready to use TypeScript in your own projects and will also have a concrete view of the current frontend software development landscape. What you will learn Understand and take advantage of TypeScript's powerful Type System Grasp the key concepts and features of Angular, React, Vue.js, and NestJS

Handle asynchronous processes using Promises, async/await, Fetch, RxJS, and more Delve into REST, GraphQL and create APIs using Apollo Discover testing concepts, techniques, and tools like TDD, BDD, E2E, Jest Learn Object-Oriented and Functional Programming concepts and leverage those with TypeScript Explore design practices and patterns such as SOLID, MVC, DI and IoC, LoD, AOP, and more Who this book is for This book is for software developers who are willing to discover what TypeScript is and how to leverage it to write great quality software. Developers that are already familiar with TypeScript will find this book useful by learning the languages featured introduced by most recent releases. Basic knowledge of the JavaScript programming is expected. Explore what React, Node, TypeScript, Webpack, and Docker have to offer individually, and how they all fit together in modern app development. React is one of the most popular web development tools available today, and Node.js is extremely popular for server-side development. The fact that both utilize JavaScript is a big selling point, but as developers use the language more, they begin to recognize the shortcomings, and that's where TypeScript comes in and why it's gaining in popularity quickly. Add Webpack and Docker to the mix, and you've got a potent full development stack on which to build applications. You'll begin by building a solid foundation of knowledge and quickly expand it by constructing two different real-world apps. These aren't just simple, contrived

examples but real apps that you can choose to install on your servers and use for real. By the end, you will have a solid grasp of building apps with React, Node.js, and TypeScript and a good grasp on how Webpack can be used to optimize and organize your code for deployment. You'll also understand how Docker can be used to run the apps you build in a clear and well-defined way, all of which will be able to springboard you into creating more advanced apps on your own. What You'll Learn Get a project started and logically structure it Construct a user interface with React and Material-UI Use WebSockets for real-time communication between client and server Build a REST API with Node and Express as another approach to client-server communicationPackage the app with Webpack for optimized deliveryTake a completed app and wrap it up with Docker for easy distributionReview a host of other ancillary topics including NPM, Semantic versioning, Babel, NoSQL, and more Who This Book Is For Web developers with basic knowledge of HTML, JavaScript, CSS, and CLI tools who are interested in and in all aspects of application development, and using TypeScript instead of straight JavaScript.

Learning Angular, Second Edition A Hands-On Guide to Angular 2 and Angular 4 Learning Angular teaches modern application development with Angular 2 and Angular 4. It begins with the basics of Angular and the technologies and techniques used throughout the book, such as key features of TypeScript, newer

ES6 syntax and concepts, and details about the tools needed to write professional Angular applications. The reader will next build an Angular application from scratch while learning about the primary pieces of an Angular application and see how they work together. Using lots of examples, the core parts of Angular will be introduced, such as Components, the Router, and Services. The book also covers techniques like server-side rendering and how to incrementally add Angular 2+ features to existing AngularJS applications. Finally, the reader will gain insight into advanced skills that should be part of any professional Angular developer's toolkit such as testing, tooling options, and performance tuning. Understand how Angular is organized and learn best practices for designing Angular applications Quickly build Angular templates with built-in directives that enhance the user experience Bind UI elements to your data model, so changes to your model and UI occur automatically in tandem Define custom Angular directives that extend HTML Implement zoomable images, expandable lists, and other rich UI components Implement client-side services that interact with web servers Build dynamic browser views to provide even richer user interaction Create custom services you can easily reuse Implement rich UI components as custom Angular directives Contents at a Glance Introduction What is Angular Why Use Angular Who this Book is For How to Use this Book Getting the Source Code Chapter 1: Jumping into JavaScript Setting

Up a JavaScript Development Environment Defining Variables Understanding JavaScript Data Types Using Operators Implementing Looping Creating Functions Understanding Variable Scope Using JavaScript Objects Manipulating Strings Working with Arrays Adding Error Handling Chapter 2: Jumping into TypeScript Learning the Different Types Understanding Interfaces Implementing Classes Implementing Modules Understanding Functions Chapter 3: Getting Started with Angular Why Angular? Understanding Angular Separation of Responsibilities Adding Angular to Your Environment Using the Angular CLI Creating a Basic Angular Application Chapter 4: Angular Components Component Configuration Building the Template Using Constructors Using External Templates Implementing Directives Chapter 5: Expressions Using Expressions Using Pipes Building a Custom Pipe Chapter 6: Data Binding Understanding Data Binding Interpolation Property Binding Attribute Binding Class Binding Style Binding Event Binding Two-Way Binding Chapter 7: Built-in Directives Understanding Directives Using Built-in Directives Structural Directives Attribute Directives Chapter 8: Custom Directives Creating a Custom Attribute Directive Creating a Custom Directive with a Component Chapter 9: Events and Change Detection Using Browser Events Emitting Custom Events Using Observables Chapter 10: Implementing Angular Services in Web Applications Understanding Angular Services Using the Built in Services

Sending HTTP GET and PUT Requests with the http Service Implementing a Simple Mock Server Using the http Service Changing Views with the router Service Implementing a Router with a Navigation Bar Implementing a Router with Parameters Chapter 11: Creating Your Own Custom Angular Service Integrating Custom Services into Angular Applications Implementing a Simple Application That Uses a Constant Data Service Implementing a Data Transform Service Implementing a Variable Data Service Implementing a Service that Returns a Promise Implementing a Shared Service Chapter 12: Having Fun with Angular Implementing an Angular Application That Uses the Animation Service Implementing an Angular Application That Zooms in on Images Implementing an Angular Application That Enables Drag and Drop Implementing a Star Rating Angular Component

62 Specific Ways to Improve Your TypeScript
Learn TypeScript for Angular Development Co
Making Your JavaScript Applications Scale
Angular Development with TypeScript
TypeScript 4 Design Patterns and Best Practices
Learning TypeScript 2.x - Second Edition
Gain a solid understanding of TypeScript, Angular, Vue, React, and NestJS
Broaden your skill set by learning TypeScript and applying your

knowledge to build real-world applications Key FeaturesQuickly get started writing TypeScript code with hands-on exercises and activitiesDevelop new skills that can be applied at work or in your own side projectsBuild your understanding, boost your confidence, and advance your programming careerBook Description By learning TypeScript, you can start writing cleaner, more readable code that's easier to understand and less likely to contain bugs. What's not to like? It's certainly an appealing prospect, but learning a new language can be challenging, and it's not always easy to know where to begin. This book is the perfect place to start. It provides the ideal platform for JavaScript programmers to practice writing eloquent, productive TypeScript code. Unlike many theory-heavy books, The TypeScript Workshop balances clear explanations with opportunities for hands-on practice. You'll quickly be up and running building functional websites, without having to wade through pages and pages of history and dull, dry fluff. Guided exercises clearly demonstrate how key concepts are used in the real world, and each chapter is rounded off with an activity that challenges you to apply your new knowledge in the context of a realistic scenario. Whether you're a hobbyist eager to get cracking on your next project, or a professional developer looking to unlock your next promotion, pick up a copy and make a start! Whatever your motivation, by the end of this

book, you'll have the confidence and understanding to make it happen with TypeScript. What you will learnConfigure a professional TypeScript development environmentExplore how to use primitive and complex data typesIncorporate types into popular npm (Node package manager) librariesDesign systems that use asynchronous behaviorImplement object-oriented programming to model real-world scenariosGet to grips with modern UI design by combining React with TypeScriptWho this book is for The TypeScript Workshop is for software developers who want to broaden their skill set by learning the TypeScript programming language. To get the most from this TypeScript book, you should have basic knowledge of JavaScript or experience using another similar programming language. Discover the current landscape of full-stack development and how to leverage modern web technologies for building production-ready React.js applications to deploy on AWS Key FeaturesUnderstand the architecture of React and single-page applicationsBuild a modern Web API for your SPA using Node.js, Express, and GraphQLGain a clear and practical understanding of how to build a complete full-stack applicationBook Description React sets the standard for building high-performance client-side web apps. Node.js is a scalable application server that is used in thousands of websites, while GraphQL is becoming the standard way for large websites to provide data and

services to their users. Together, these technologies, when reinforced with the capabilities of TypeScript, provide a cutting-edge stack for complete web application development. This book takes a hands-on approach to implementing modern web technologies and the associated methodologies for building full-stack apps. You'll begin by gaining a strong understanding of TypeScript and how to use it to build high-quality web apps. The chapters that follow delve into client-side development with React using the new Hooks API and Redux. Next, you'll get to grips with server-side development with Express, including authentication with Redis-based sessions and accessing databases with TypeORM. The book will then show you how to use Apollo GraphQL to build web services for your full-stack app. Later, you'll learn how to build GraphQL schemas and integrate them with React using Hooks. Finally, you'll focus on how to deploy your application onto an NGINX server using the AWS cloud. By the end of this book, you'll be able to build and deploy complete high-performance web applications using React, Node, and GraphQL. What you will learnDiscover TypeScript's most important features and how they can be used to improve code quality and maintainabilityUnderstand what React Hooks are and how to build React apps using themImplement state management for your React app using ReduxSet up an Express project with TypeScript and GraphQL from scratchBuild a fully functional

online forum app using React and GraphQLAdd authentication to your web app using RedisSave and retrieve data from a Postgres database using TypeORMConfigure NGINX on the AWS cloud to deploy and serve your appsWho this book is for The book is for web developers who want to go beyond front-end web development and enter the world of full-stack web development by learning about modern web technologies and how they come together. A good understanding of JavaScript programming is required before getting started with this web development book.

Learning TypeScript 2.xDevelop and maintain captivating web applications with ease, 2nd EditionPackt Publishing Ltd

Learn how to build dynamic web applications with Express, a key component of the Node/JavaScript development stack. In this hands-on guide, author Ethan Brown teaches you the fundamentals through the development of a fictional application that exposes a public website and a RESTful API. You'll also learn web architecture best practices to help you build single-page, multi-page, and hybrid web apps with Express. Express strikes a balance between a robust framework and no framework at all, allowing you a free hand in your architecture choices. With this book, frontend and backend engineers familiar with JavaScript will discover new ways of looking at web development. Create webpage templating system for rendering dynamic data Dive into

request and response objects, middleware, and URL routing Simulate a production environment for testing and development Focus on persistence with document databases, particularly MongoDB Make your resources available to other programs with RESTful APIs Build secure apps with authentication, authorization, and HTTPS Integrate with social media, geolocation, and other third-party services Implement a plan for launching and maintaining your app Learn critical debugging skills This book covers Express 4.0.
A JavaScript and jQuery Developer's Guide
The Complete Guide to ReactJS and Friends
Learn React with TypeScript 3
Build cloud-ready web applications using React 17 with Hooks and GraphQL
Typescript 3.0 Quick Start Guide
Typescript 2.X for Angular Developers
Essential TypeScript

TypeScript is an open source and cross-platform statically typed superset of JavaScript that compiles to plain JavaScript and runs in any browser or host. This book is a step-by-step guide that will take you through the use and benefits of TypeScript with the help of practical examples.

Exploit the features of TypeScript to easily create your very own web applications About This Book Develop modular, scalable, maintainable, and adaptable web applications by taking advantage of TypeScript Walk through the fundamentals of TypeScript with the help of practical examples Enhance your web development skills using TypeScript 2.x Who This Book Is For If you are a developer aiming to learn TypeScript to build attractive web applications, this book is for you. No prior knowledge of TypeScript is required. However, a basic understanding of JavaScript would be an added advantage. What You Will Learn Understand TypeScript in depth, including its runtime and advanced type system features Master the core principles of the object-oriented programming and functional programming paradigms with TypeScript Save time using automation tools such as Gulp, Webpack, ts-node, and npm scripts Develop robust, modular, scalable, maintainable, and adaptable applications with testing frameworks such as Mocha, Chai, and Sinon. JS Put your TypeScript skills to practice by developing full-stack web applications with Node.js, React and Angular Use the APIs of the TypeScript compiler to build custom code analysis tool In Detail TypeScript is an open source and cross-

platform statically typed superset of JavaScript that compiles to plain JavaScript and runs in any browser or host. This book is a step-by-step guide that will take you through the use and benefits of TypeScript with the help of practical examples. You will start off by understanding the basics as well as the new features of TypeScript 2.x. Then, you will learn how to work with functions and asynchronous programming APIs. You will continue by learning how to resolve runtime issues and how to implement TypeScript applications using the Object-oriented programming (OOP) and functional programming (FP) paradigms. Later, you will automate your development workflow with the help of tools such as Webpack. Towards the end of this book, you will delve into some real-world scenarios by implementing some full-stack TypeScript applications with Node.js, React and Angular as well as how to optimize and test them. Finally, you will be introduced to the internal APIs of the TypeScript compiler, and you will learn how to create custom code analysis tools. Style and approach This is a step-by-step guide that covers the fundamentals of TypeScript with practical examples. Downloading the example code for this book You

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"TypeScript is a JavaScript-superset that supports static typing and compiles down to plain JavaScript. TypeScript gives you compile-time errors, great tooling support and the latest JavaScript features like classes, arrow functions and modules that you can compile down to a JavaScript version that is supported in today's browsers. Typescript is open source and maintained by Microsoft and C# inventor Anders Hejlsberg. Google has written its popular Single Page Application Framework Angular with TypeScript. Join Thomas in this book to learn the TypeScript-language. Set up your environment and get up to speed with basic types, interfaces, classes, functions, modules, decorators and learn how to build web-apps with Angular and TypeScript."--Back cover.
TypeScript: Modern JavaScript Development