

Getting Started



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Module Overview

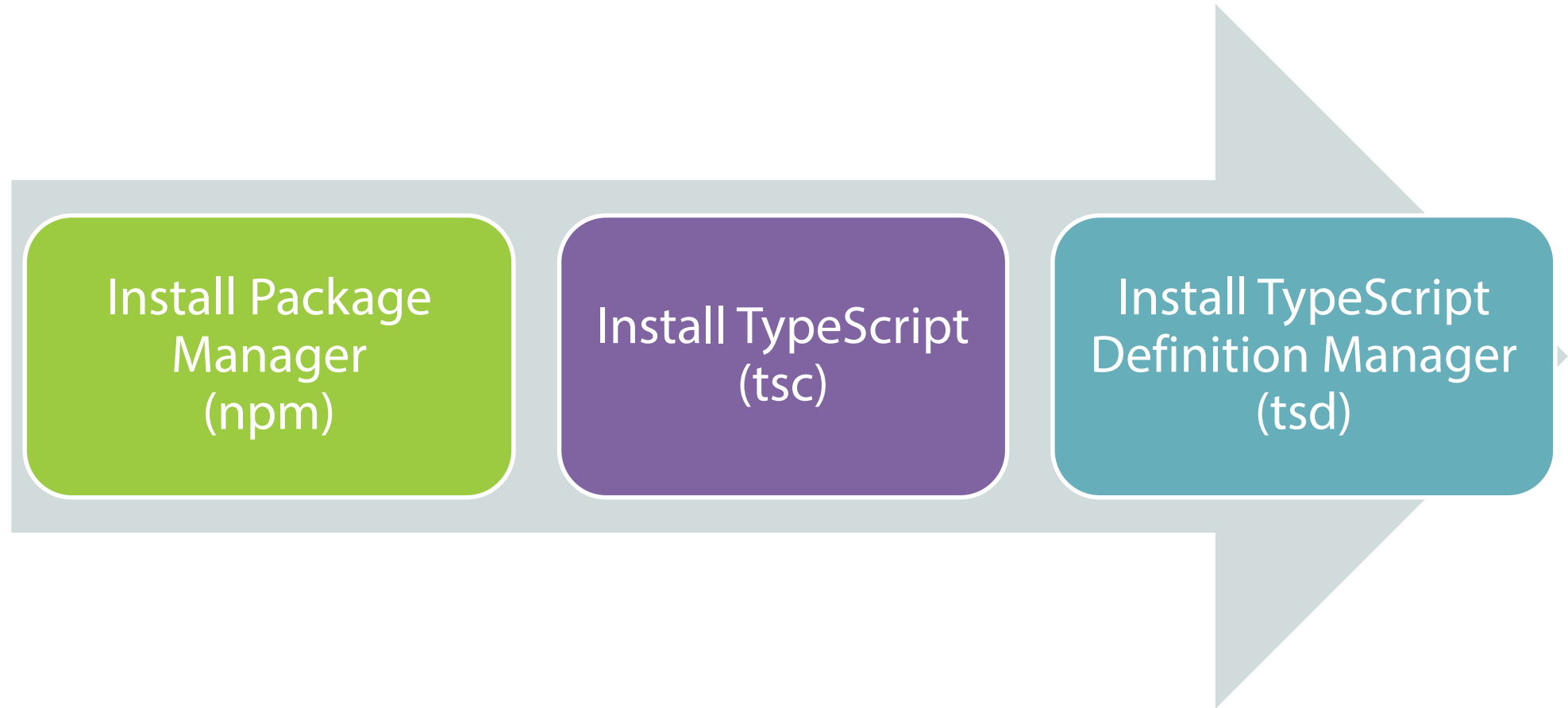


Installation

Editors

Set Up

Installing TypeScript



Package Manager

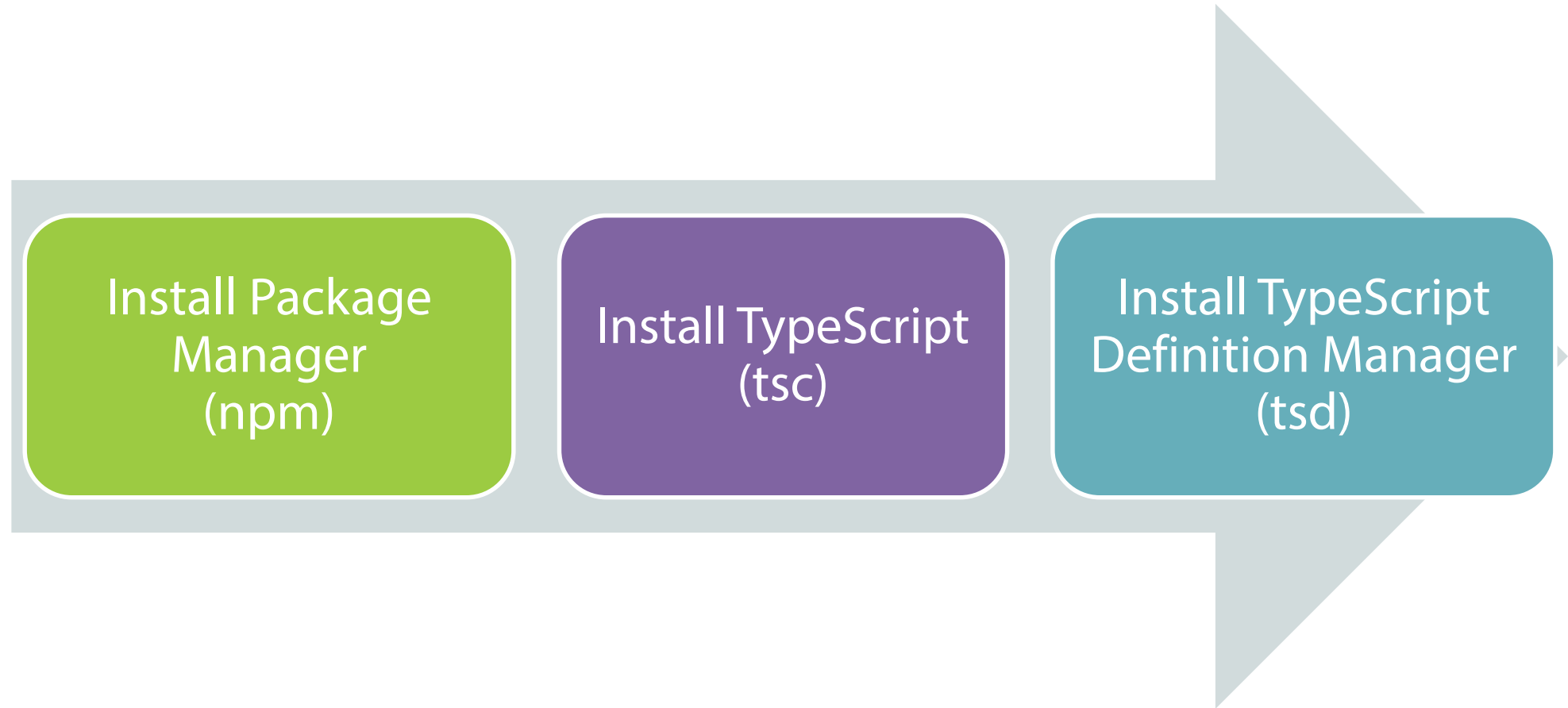
- Automates the installation and tracking of external packages
 - Locates the package online
 - Selects the appropriate version of the package
 - Installs the package
- Examples
 - NuGet: Visual Studio Package Manager
 - npm: Node.js Package Manager

Installing TypeScript

PATH environment variable: C:\Program Files (x86)\Microsoft SDKs\TypeScript\

Source location: C:\Program Files (x86)\Microsoft SDKs\TypeScript

Installing TypeScript



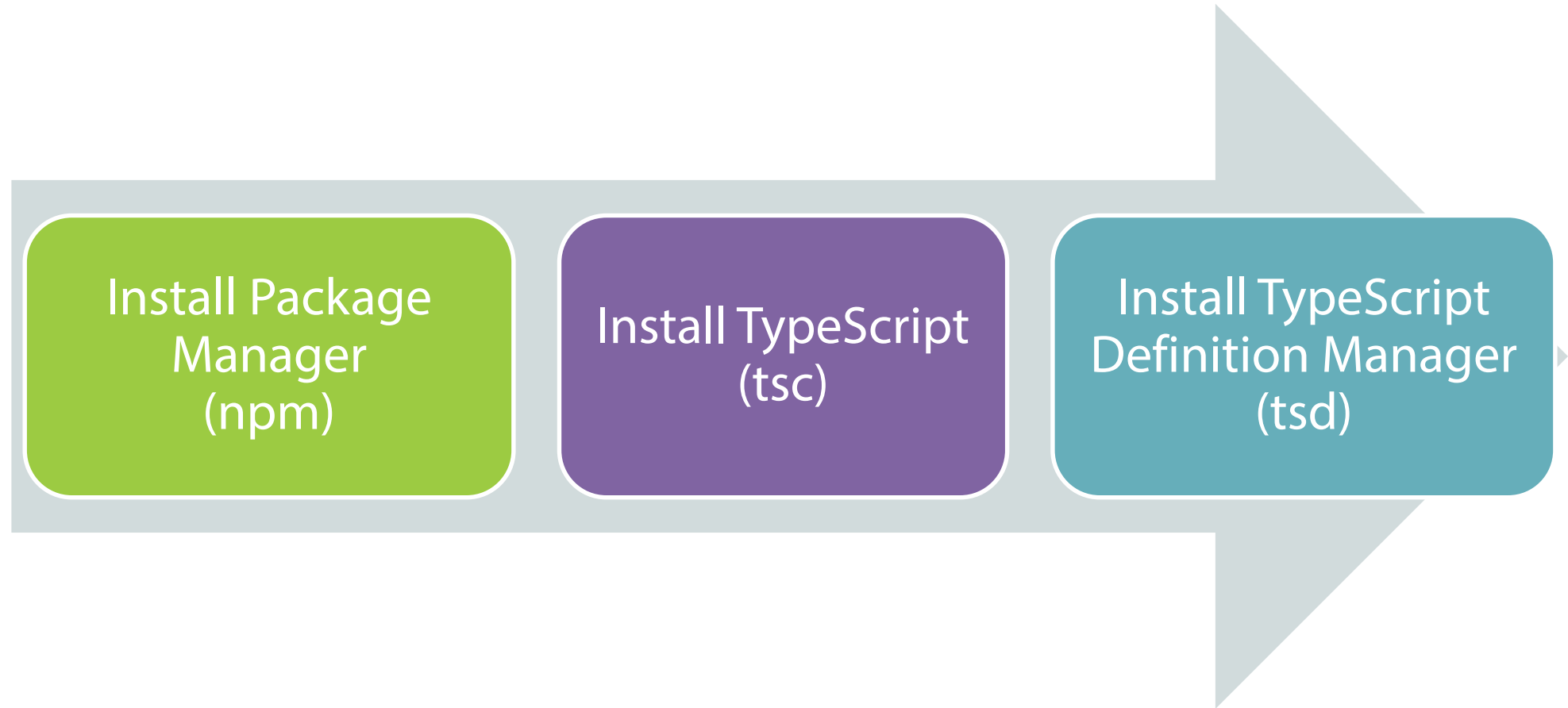
TypeScript Definition Files

- TypeScript
 - Allows definition of strong types
 - Understands the basic JavaScript types
 - Needs a definition of the types provided in external libraries
- TypeScript Definition File
 - Describes the types defined in external libraries
 - .d.ts
 - Not deployed
- DefinitelyTyped

TypeScript Definition Manager (tsd)

- Specialized package manager
- Locates and installs TypeScript Definition Files (d.ts)
- From the DefinitelyTyped repository

Installing TypeScript



Code Editors for TypeScript

- Text Editor: NotePad, TextEdit, etc.
- IDE
 - Visual Studio
 - Visual Studio Code*
 - WebStorm
 - Atom
 - Sublime Text
 - Eclipse

*Used in this course

Tools

Visual Studio includes TypeScript in the box, starting with Visual Studio 2013 Update 2. You can also edit TypeScript in VS Code, WebStorm, Atom, Sublime Text, and Eclipse.

Visual Studio & TypeScript

- Visual Studio 2012
- Visual Studio 2013
- Visual Studio 2015
- Web Essentials

Visual Studio Code (VS Code)

Free

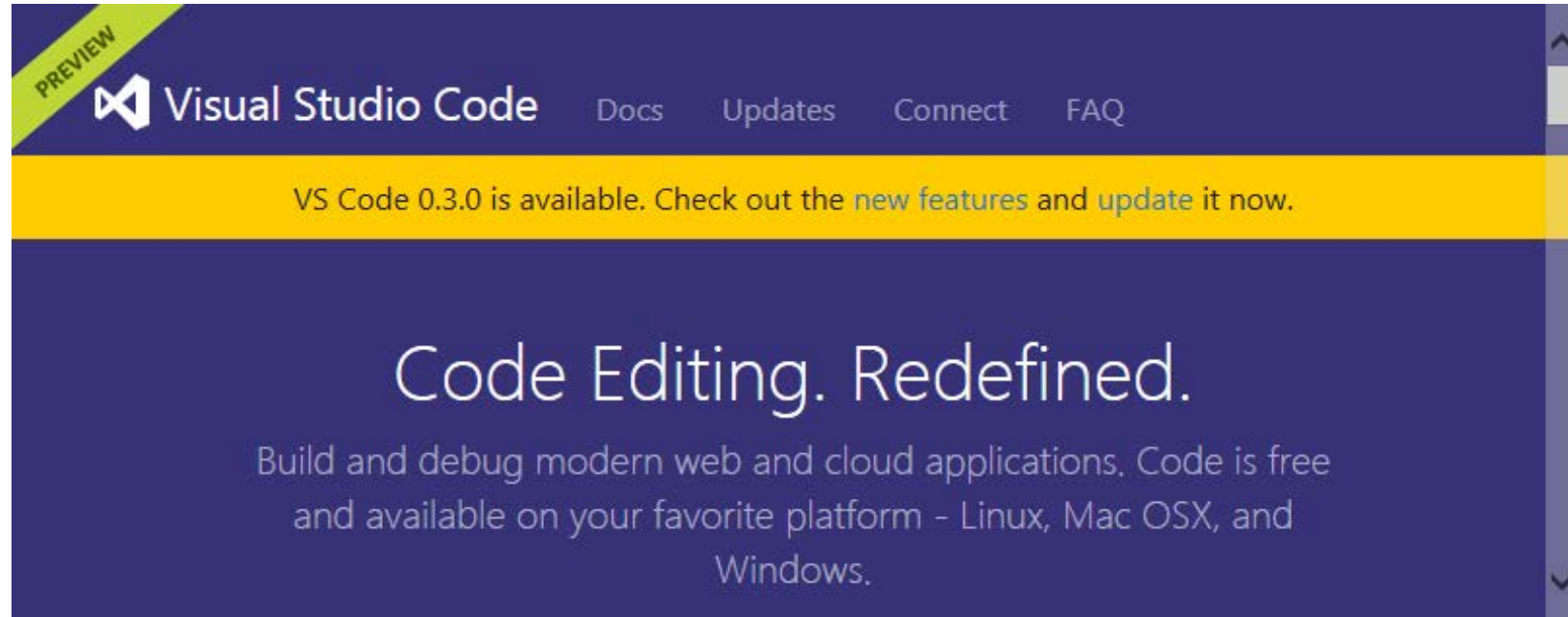
Cross-platform

Windows

Mac OS X

Linux

Great TypeScript support



<https://code.visualstudio.com/>

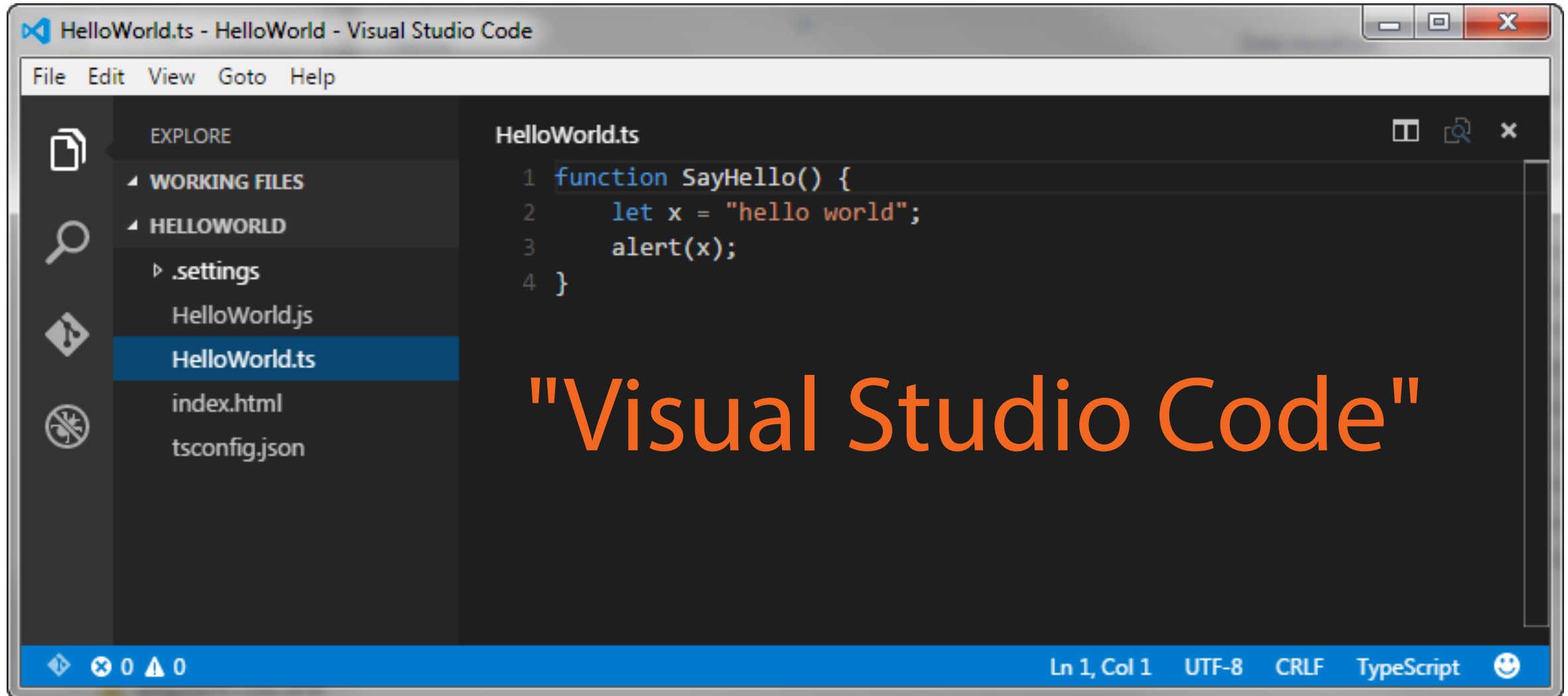
Coding Along

Tools

Visual Studio includes TypeScript in the box, starting with Visual Studio 2013 Update 2. You can also edit TypeScript in VS Code, WebStorm, Atom, Sublime Text, and Eclipse.

<https://code.visualstudio.com/>

VS Code



"Visual Studio Code"

Setting Up VS Code For TypeScript

Define a
Folder

Open Folder
with VS Code

Create
Configuration
File

Configure
Task Runner

This Module Covered



Installing npm

Installing TypeScript

Understanding TypeScript definition files

Installing TypeScript Definition Manager

Selecting a Code Editor

Writing and running with VS Code

