Visual Studio Code

Course Introduction



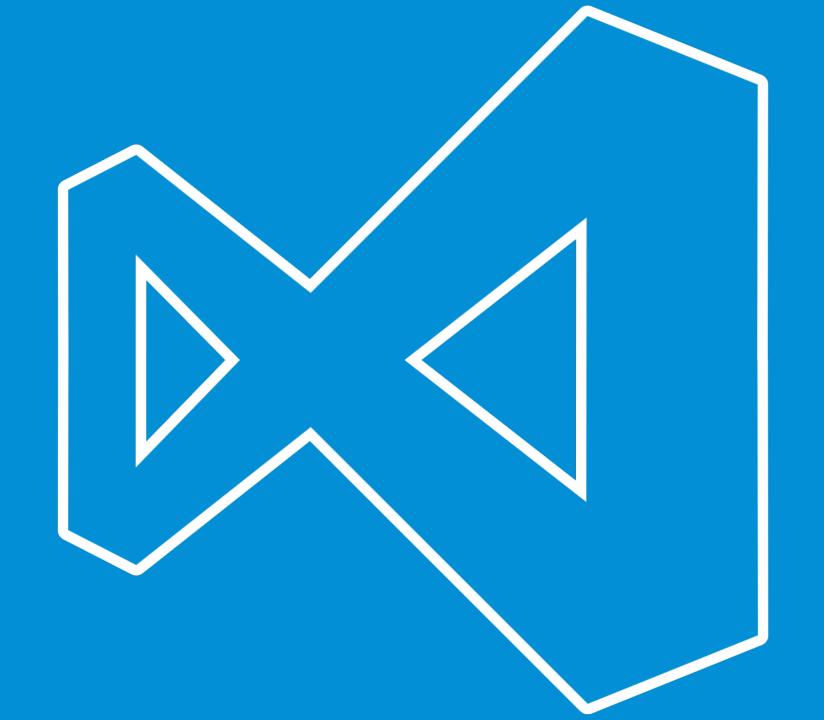
John Papa @john_papa| www.johnpapa.net

The Problem

Difficult to find a fast and powerful tool that we can use on both Mac and Windows

Visual Studio Code

Fast, Lightweight, Cross Platform Editor



Top 5 Reasons I Like Code

Code is Fast

1 D I'm Faster with Code

Code is Cross-Platform

Cross Platform





Windows



Linux



Code has Debugging

Code has Rich Intellisense

Code has Rich Refactorings

Many Choices, and Growing







C#



Code sits perfectly in the sweet spot between editor and IDE for 95% of my development workflow



Popular Editors and IDEs





private dataservice: app.core.IDataService,

logger.info('Activated Dashboard View');

private logger: blocks.logger.Logger) {

this.\$q.all(promises).then(function () {

this.messageCount = data; return this.messageCount;

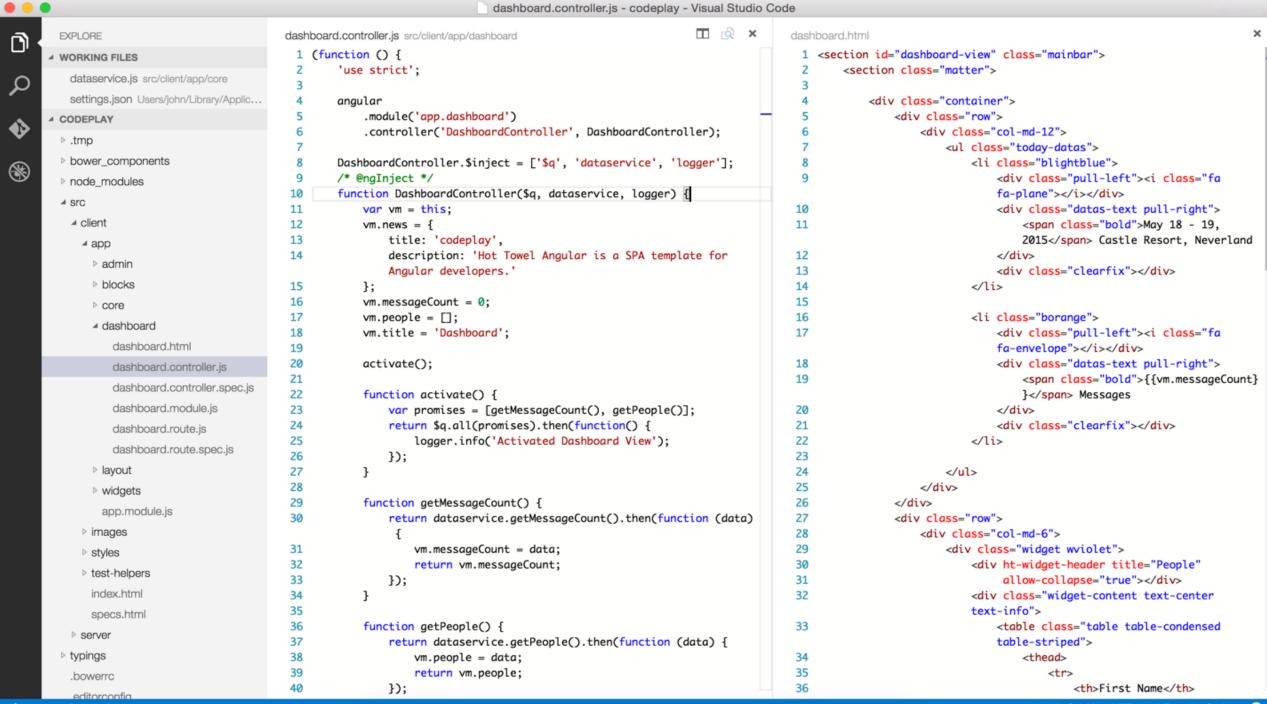
});

news = {

title: 'helloworld',

```
static $inject: Array(string) = ['$q', 'dataservice', 'logg
   var promises = [this.getMessageCount(), this.getPeople(
   description: 'Hot Towel Angular is a SPA template for A
   return this.dataservice.getMessageCount().then((data)) =
```

```
Ⅲ 🖟 ×
styles.less src\client\styles
   @color lightblue: #52b9e9;
   2 @color blue: #1171a3;
   @color success: #43c83c;
   4 @color warning: #f88529;
   5 @color important: #fa3031;
   6 @color violet: #932ab6;
   8 * 4
         font-family: "Segoe UI", Arial, Helvetica, sans-serif;
         -webkit-font-smoothing: antialiased;
 11 }
    .btn, .badge, .modal, .modal-dialog, .modal-content,
 14 input, select {
         -ms-border-radius: 0 !important;
         border-radius: 0 limportant;
 19 input, select {
        padding: 4px !important;
        display: inline-block !important;
 24 navbar
         background-image: none !important;
         -webkit-text-shadow: none !important;
         -ms-text-shadow: none limportant;
         text-shadow: none !important;
 29 }
 31 form * {
         font-family: "Segoe UI", Arial, Helvetica, sans-serif;
 35 input, textarea
                                         Ln 1, Col 1 UTF-8 CRLF Less
```



lightweight/fast file/folders many languages many workflows keyboard centered

lightweight/fast file/folders many languages many workflows keyboard centered project systems
code understanding
debug
integrated build
File>New, wizards
designers
ALM integration
platform tools

• • •



IDE

lightweight/fast file/folders many languages many workflows keyboard centered project systems
code understanding
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• • •

editor •

IDE

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• • •

editor •

lightweight/fast file/folders many languages many workflows keyboard centered



platform tools

lightweight/fast file/folders with project context ALM integration many languages keyboard centered

code understanding (some languages)

debug

task running



IntelliSense

Find All References

Parameter Hints

Goto Any Symbol

Errors/Warnings

Rename Symbol

Gutter Hints

Goto Symbol in File

Code Actions / Quick Fix

Goto Definition

Preview

Peek Definition

Customize Keyboard

Git Integration

Tasks

Debugging

Visual Studio Code a new choice of tool that combines the simplicity of a code editor with what developers need for their code-edit-debug cycle.

-- Erich Gamma

Code's 3 Main Parts



UI Framework - Electron

Editor - Monaco

Brains – TypeScript & OmniSharp/Roslyn

Cross Platform UI Framework / Shell



Build cross platform desktop apps with web technologies

Formerly known as Atom Shell. Made with by GitHub.

+ **Squirrel** for application updates + **FirstMate** for TextMate syntax bundle support

Battle Tested Editor

Experience

Erich Gamma

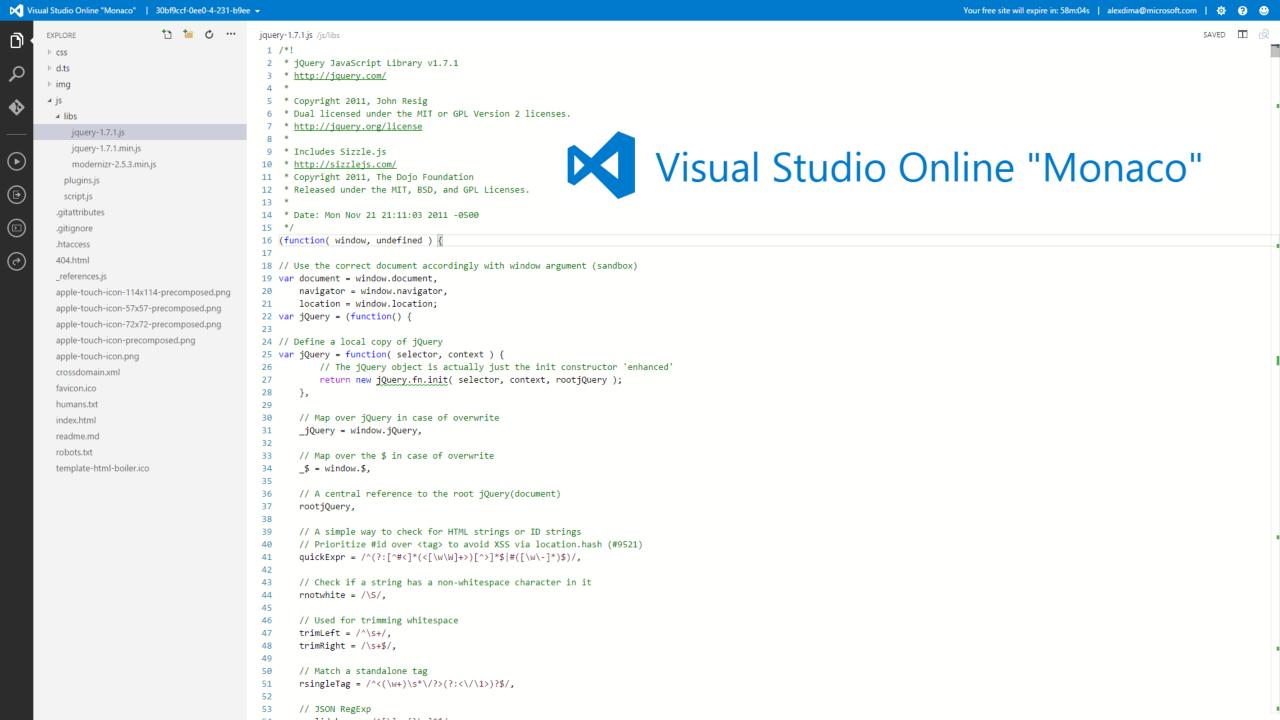
Distinguished Engineer

Gang of Four / Design Patterns

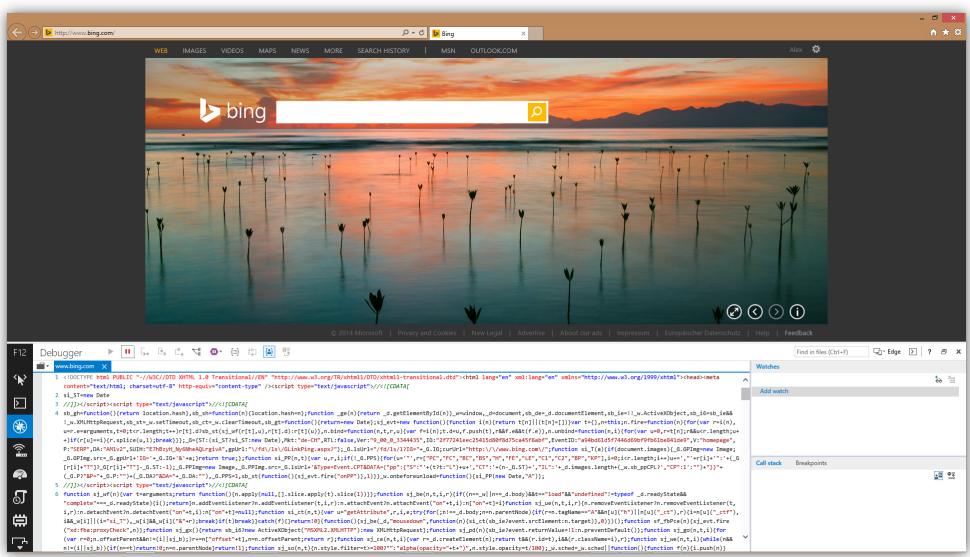
Monaco @ Microsoft

Eclipse @ IBM

Chris Dias
Principal Program Manager
Visual Studio Tooling
Monaco @ Microsoft







Save

Greeter Alex's OneDrive > greeter.ts

```
1 class Greeter {
       greeting: string;
       constructor(message: string) {
           this.greeting = message;
       greet() {
           return "Hello, " + this.greeting;
9 }
10
11 var greeter = new Greeter("world");
13 var button = document.createElement('button');
14 button.textContent = "Say Hello";
15 button.onclick = function() {
       alert(greeter.greet());
17 }
19 document.body.appendChild(button);
```



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Type

Text Document

A moment ago Alex Dima

A moment ago

Alex Dima

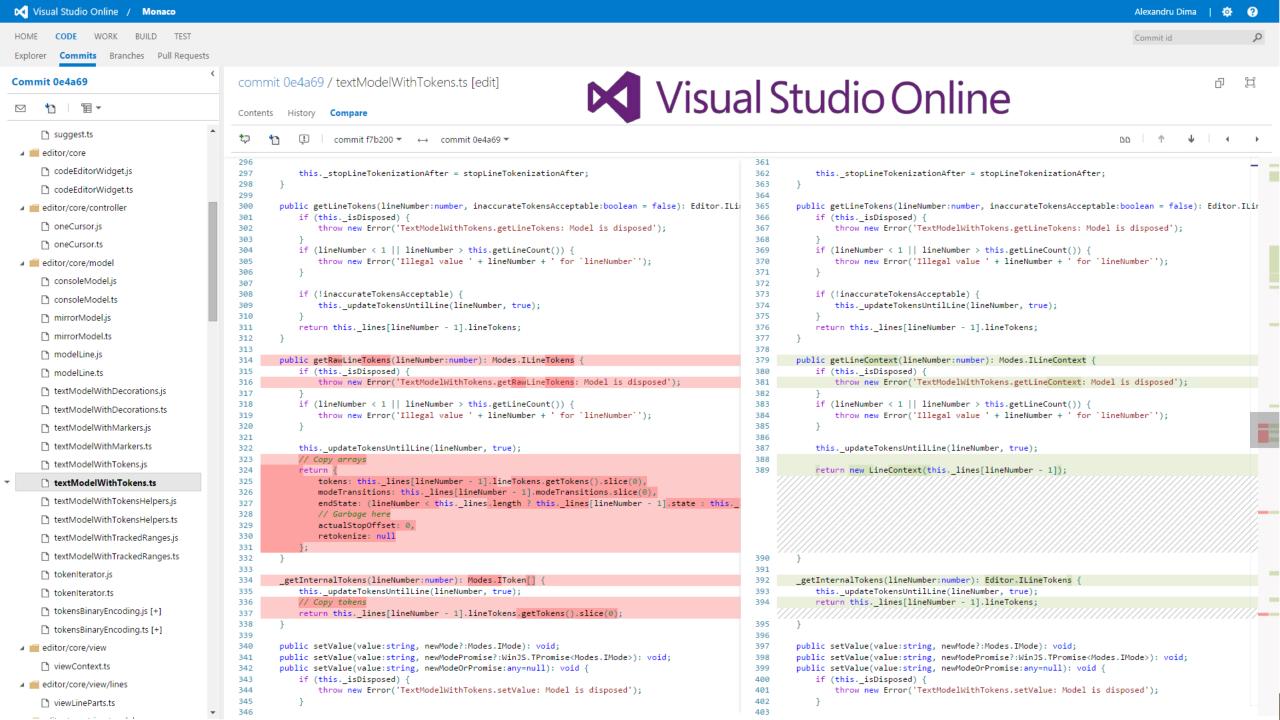
Path

Added

Alex's OneDrive > greeter.ts

Size 410 bytes





Brains:

Tooling, Intellisense and Debugging

TypeScript

TypeScript
Server



Download for the Right OS







Linux



Key Symbols Used in This Course

Û

Shift

 \mathcal{H}

Command

Λ

Control

~

Option / Alt

Command Palette

Most Important Keybinding to Learn

û₩ P

OSX

Windows

介**^** P

Linux

This course comes with some sample applications

https://github.com/johnpapa/pluralsight-vscode-samples or http://jpapa.me/vscodeps

Other Related Pluralsight Courses

TypeScript Fundamentals

Angular Patterns: Clean Code

JavaScript Build Automation with Gulp.js

Get Involved

http://code.visualstudio.com

Twitter: @code

Connect at https://code.visualstudio.com/Home/Connect

Join the Insiders group

Send suggestions

Send bugs

Resources

- Course Samples
 - http://jpapa.me/vscodeps
- OmniSharp
 - http://www.omnisharp.net
- TypeScript
 - http://www.typescriptlang.org
- JavaScript Yo generator
 - http://jpapa.me/yohottowel