

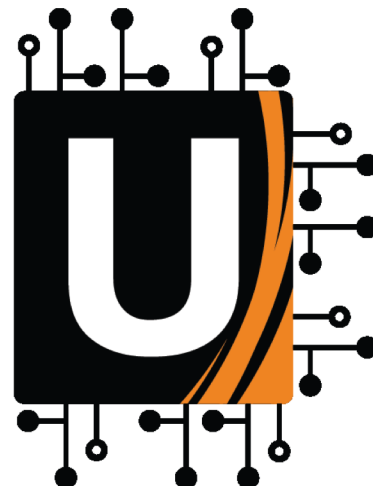


University
of Victoria

Computer Science

HighTech

Empowering Future Innovators





What is VS Code ?

- Open source code editor from Microsoft
- Light weight, easy to use editor
- Convenient for web development projects
- Supports multiple languages
- Runs on all major platforms – Windows, MacOS and Linux

Text Editor vs IDE

Text Editor

- Edit text/code
- Example: Notepad, Notepad++, Atom, Sublime Text, Vim

Integrated Development Environment (IDE)

- Integrated compiler and/or interpreter
- Debugger
- Autocompletion features
- Linting features
- Function List
- Testing features
- Example: Eclipse, PyCharm, Visual Studio

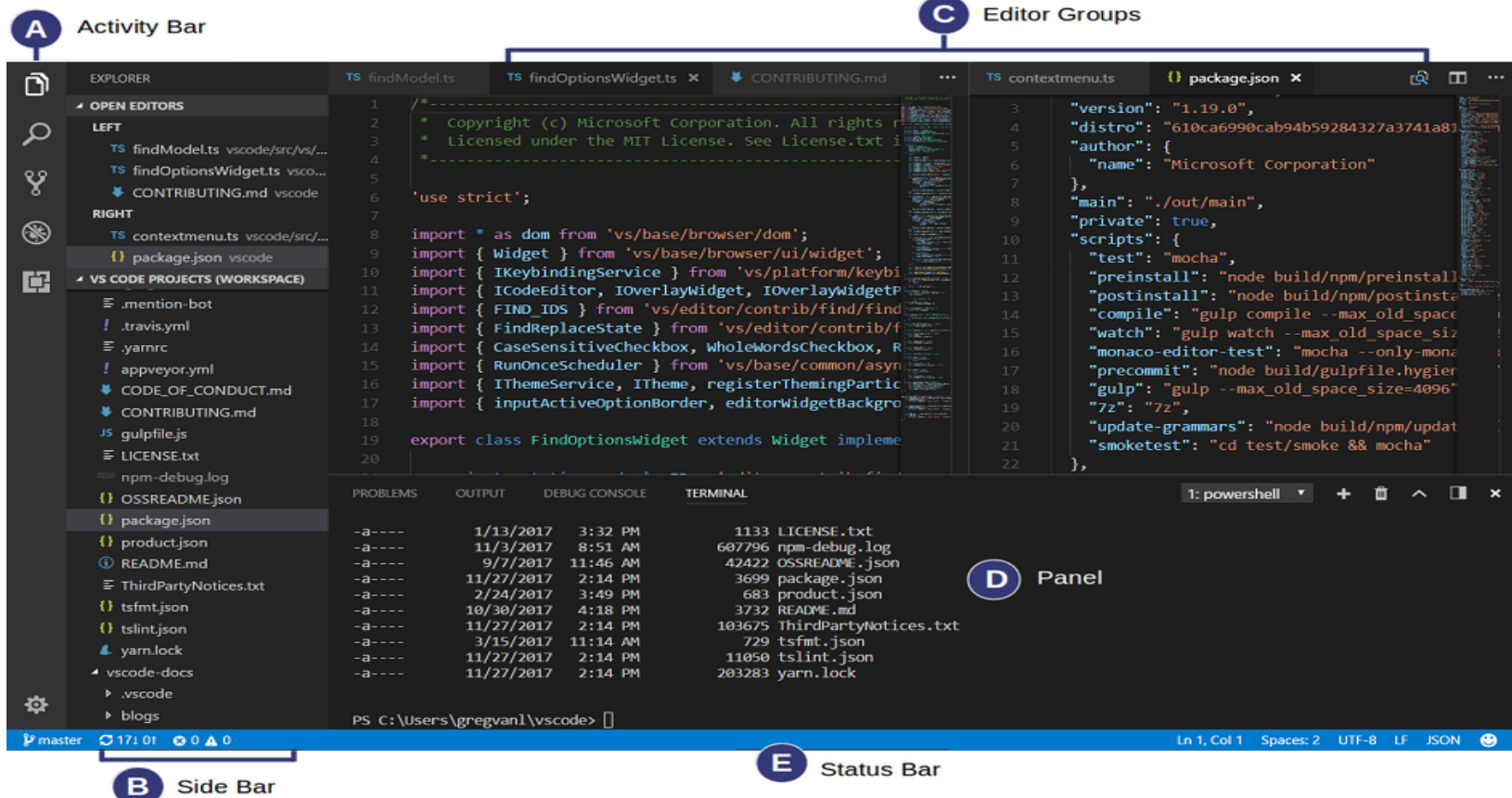
Visual Studio Code: Editor or IDE?

- It is a Source Code Editor
- It has all the basic functionalities of an editor
- Keep adding third party extensions and it can be converted to an IDE
- Think of it as an normal car which can be converted to a sports car by adding more features to it
- However, there is a limitation where VS Code cannot perform functionalities that of an IDE

Where to download

<https://code.visualstudio.com>

Basic Layout



Hands on

Create a folder

Create a file

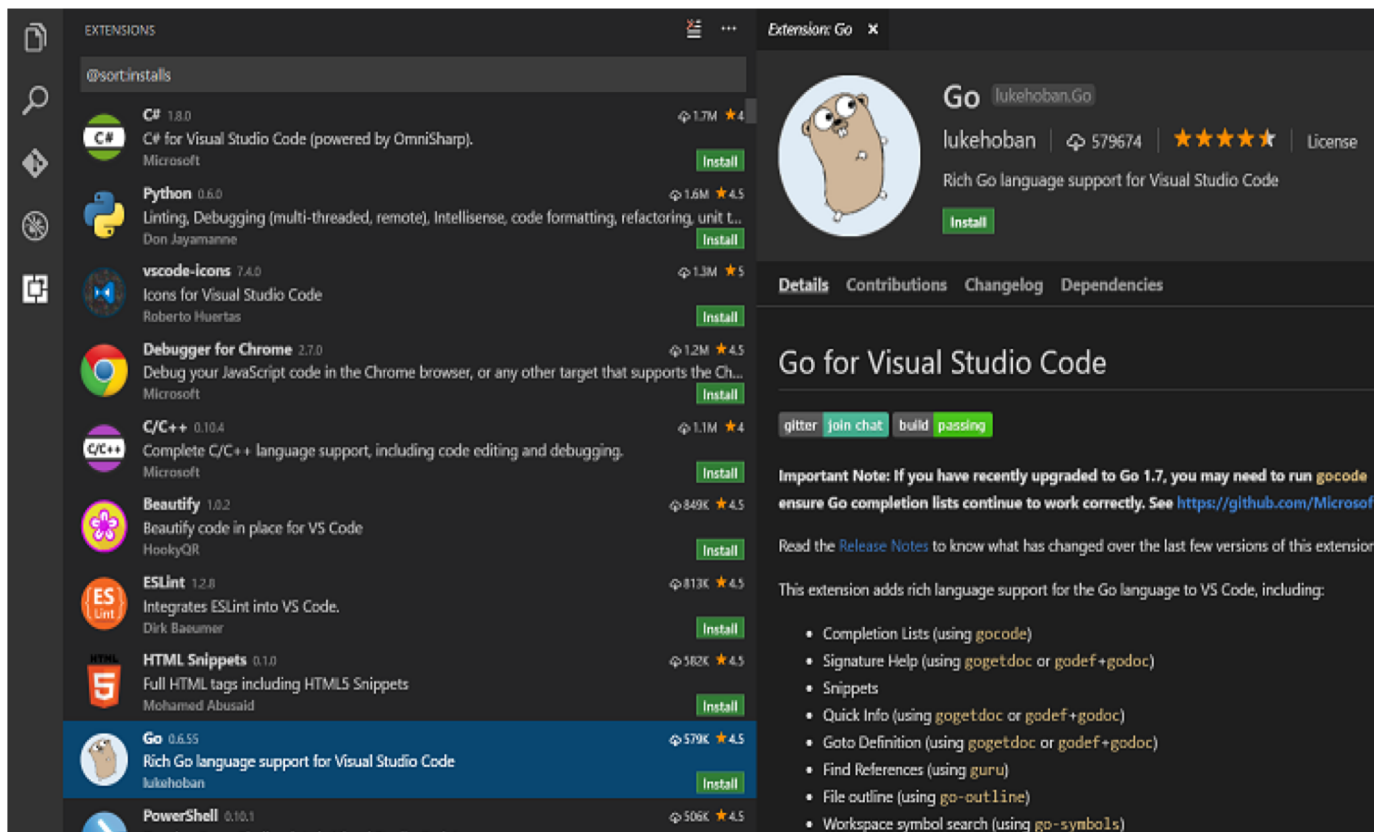
Edit the file

Save and Delete the file

Stretch Goals #1

Install extensions

VS Code lets you
install extensions through
Extension Store
(just like an App
Store for installing
apps on mobile
phone)



The screenshot shows the VS Code interface with the 'EXTENSIONS' view on the left. A search bar at the top contains '@sortinstalls'. The list of extensions includes:

- C#** 1.8.0 (1.7M, 4.5 stars) - C# for Visual Studio Code (powered by OmniSharp). Microsoft. [Install](#)
- Python** 0.6.0 (1.6M, 4.5 stars) - Linting, Debugging (multi-threaded, remote), Intellisense, code formatting, refactoring, unit t... Don Jayamanne. [Install](#)
- vscode-icons** 7.4.0 (1.3M, 5 stars) - Icons for Visual Studio Code. Roberto Huertas. [Install](#)
- Debugger for Chrome** 2.7.0 (1.2M, 4.5 stars) - Debug your JavaScript code in the Chrome browser, or any other target that supports the Ch... Microsoft. [Install](#)
- C/C++** 0.10.4 (1.1M, 4 stars) - Complete C/C++ language support, including code editing and debugging. Microsoft. [Install](#)
- Beautify** 1.0.2 (849K, 4.5 stars) - Beautify code in place for VS Code. HookyQR. [Install](#)
- ESLint** 1.2.8 (813K, 4.5 stars) - Integrates ESLint into VS Code. Dirk Bäumer. [Install](#)
- HTML Snippets** 0.1.0 (382K, 4.5 stars) - Full HTML tags including HTML5 Snippets. Mohamed Abusaid. [Install](#)
- Go** 0.6.55 (579K, 4.5 stars) - Rich Go language support for Visual Studio Code. lukehoban. [Install](#)
- PowerShell** 0.10.1 (506K, 4.5 stars) - PowerShell support for Visual Studio Code. Microsoft. [Install](#)

The right pane shows the details for the 'Go' extension by lukehoban. It includes the extension's icon, name, version, download count, rating, and license. Below this are tabs for 'Details', 'Contributions', 'Changelog', and 'Dependencies'. The 'Details' tab is active, showing the extension's title 'Go for Visual Studio Code', badges for 'glitter', 'join chat', 'build', and 'passing', and an 'Important Note' about upgrading to Go 1.7. A list of features is provided at the bottom:

- Completion Lists (using `gocode`)
- Signature Help (using `gogetdoc` or `godef+godoc`)
- Snippets
- Quick Info (using `gogetdoc` or `godef+godoc`)
- Goto Definition (using `gogetdoc` or `godef+godoc`)
- Find References (using `guru`)
- File outline (using `go-outline`)
- Workspace symbol search (using `go-symbols`)

Stretch Goals #2

Collaborate with others (Live Share)

- Live Share is an extension in VS Code
- Enables real-time collaboration between developers
- You can share your session (screen) with other member and your teammate can read the code you shared without having to clone the repo
- Its more than just screen sharing!! Screen sharing just allows just one person to operate at a time
- Live Share allows you to do bidirectional collaboration

Stretch Goals #2

Collaborate with others (Live Share)

- To start Live Share, install the extension VS Live Share from the Extension Store and reload the screen



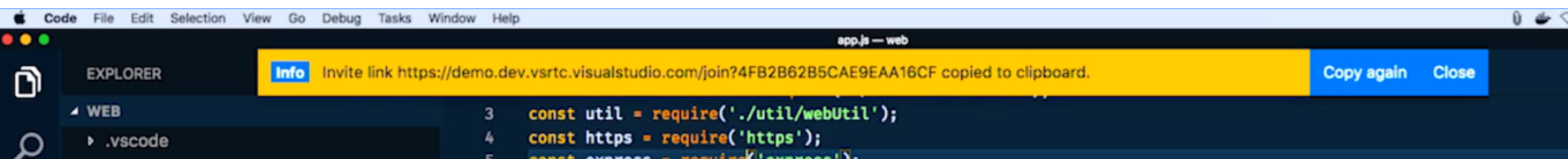
Stretch Goals #2

Collaborate with others (Live Share)

- Next step is to click on the “Share” button in the side bar



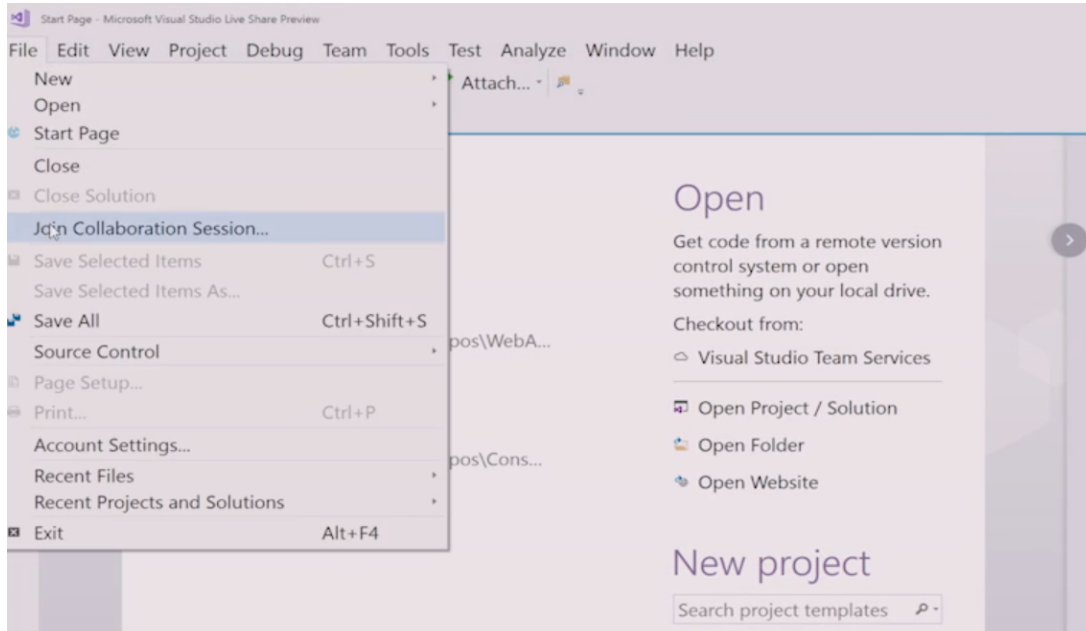
- This will generate a link that can be copied and shared with the teammate



Stretch Goals #2

Collaborate with others (Live Share)

- The teammate on the other hand just needs to join the session using the shared link



Stretch Goals #2

Collaborate with others (Live Share)

More information on Live Sharing is available at
<https://code.visualstudio.com/blogs/2017/11/15/live-share>