# Charlotte PowerShell User Group - September 6, 2018

Getting Started with Visual Studio Code

## Installing Software

### VS Code - <https://code.visualstudio.com/>

* Consider installing the User Installer, doesn’t require Administrator rights
* Consider adding “Open with Code” action to your context menu (Right click is your friend)

### Git - <https://git-scm.com/download/win>/

* There are 32-bit & 64-bit versions, install the appropriate version for your system

### VSCode Extensions – Time to customize!

This table highlights popular VSCode extensions, the links are provided for reference:

|  |  |
| --- | --- |
| **Must Have** |  |
| **PowerShell** | <https://marketplace.visualstudio.com/items?itemName=ms-vscode.PowerShell> |
| **Appearance** |  |
| **FontSize Shortcuts**  Control text size w/ keyboard | <https://marketplace.visualstudio.com/items?itemName=fosshaas.fontsize-shortcuts> |
| **Sapphire Theme**  Pretty colors | <https://marketplace.visualstudio.com/items?itemName=Tyriar.theme-sapphire> |
| **vscode-icons**  Lots of icons | <https://marketplace.visualstudio.com/items?itemName=robertohuertasm.vscode-icons> |
| **Code Runner** | <https://marketplace.visualstudio.com/items?itemName=formulahendry.code-runner> |
| **Language** |  |
| **JSON Tools** | <https://marketplace.visualstudio.com/items?itemName=eriklynd.json-tools> |
| **XML Tools** | <https://marketplace.visualstudio.com/items?itemName=DotJoshJohnson.xml> |
| **MarkDownlint** | <https://marketplace.visualstudio.com/items?itemName=DavidAnson.vscode-markdownlint> |
| **Source Control** |  |
| **GitLens**  Git supercharged | <https://marketplace.visualstudio.com/items?itemName=eamodio.gitlens> |
| **Visual Studio Team Services**  Connects to local repository (TS or TFS) | <https://marketplace.visualstudio.com/items?itemName=ms-vsts.team> |

### Configure – Make it your own

<https://code.visualstudio.com/docs/getstarted/settings>

"window.zoomLevel": 2,

"git.ignoreMissingGitWarning": true,

"editor.lineHeight": 0,

"editor.fontSize": 2,

"terminal.integrated.fontSize": 9,

"workbench.colorTheme": "PowerShell ISE",

"editor.formatOnType": true,

"powershell.integratedConsole.focusConsoleOnExecute": false,

"editor.mouseWheelZoom": true,

"workbench.colorCustomizations": {

"terminal.foreground" : "#ffffff",

"terminal.background" : "#012456"

}

## Debugging

The **VARIABLES** section of the Debug view allows easy inspection of variable values. The **Auto** group weeds out the PowerShell automatic variables and leaves just the variables you’ve defined and are likely interested in seeing. However, if the variable you are looking for isn’t listed in **Auto**, you can look for it in the **Local**, **Script**, or **Global** groups.

The **WATCH** section allows you to specify a variable or expression whose value should always be displayed.

The **CALL STACK** section displays the call stack, and you can also select a different frame in the call stack to examine calling functions, scripts, and the variables that are defined in those scopes.

The **BREAKPOINTS** section provides a central UI to manage, that is, create, disable, enable, and delete breakpoints that you may have defined over many different script files.

<https://blogs.technet.microsoft.com/heyscriptingguy/2017/02/06/debugging-powershell-script-in-visual-studio-code-part-1/>

<https://blogs.technet.microsoft.com/heyscriptingguy/2017/02/13/debugging-powershell-script-in-visual-studio-code-part-2/>

## Source Control (GitHub)

1. Source Control (GitHub)
   1. Create/Sign-up/Logon github.com account.
   2. Create a public and/or private repository.
   3. Clone the repo to your machine
      1. git clone https://github.com/<yourUserName>/<yourProjectName>.git
   4. Use Plaster Template to scaffold your PSUG Github PowerShell Project.
      1. You can leverage demo templates from:  
         <https://github.com/bcwilhite/Demo_Plaster>