# WRITING YOUR FIRST VISUAL STUDIO CODE EXTENSION

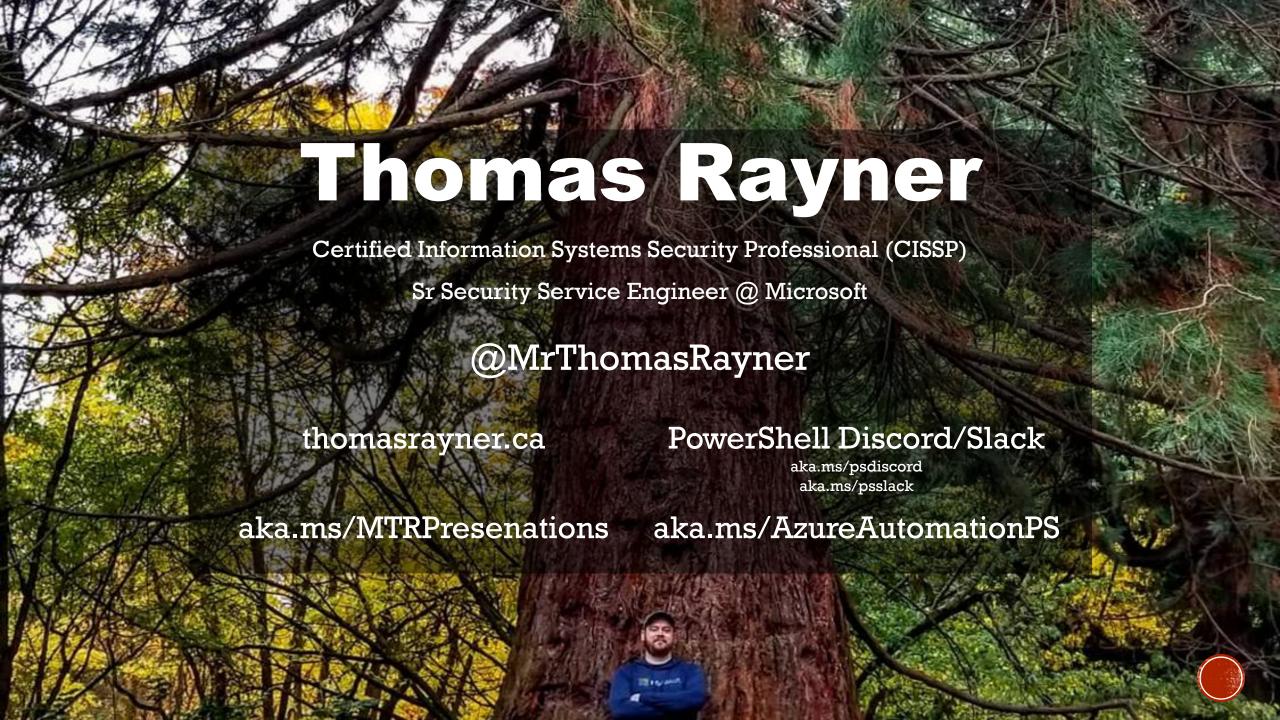
**Thomas Rayner** 

Sr. Security Service Engineer

Microsoft



PowerShell & DevOps Global Summit 2020 DuPSUG





# IF YOU WRITE CODE THEN YOU'RE A DEV

# Code editing. Redefined.

Free. Built on open source. Runs everywhere.

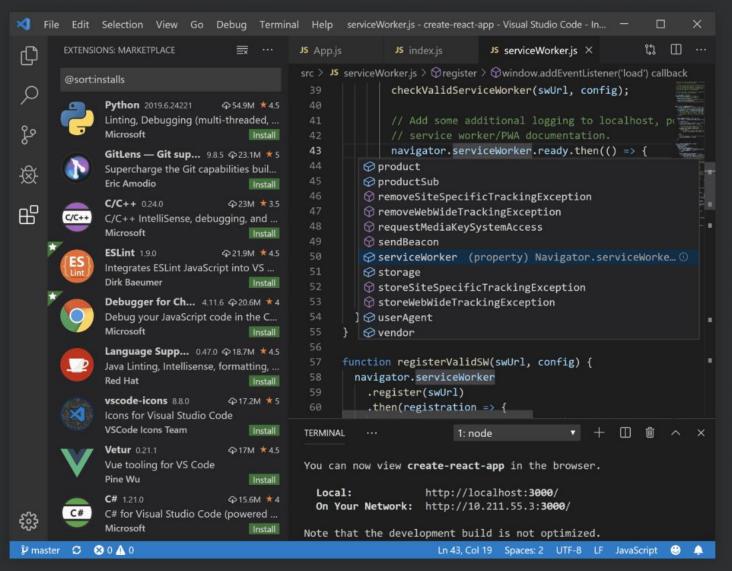
#### **Download for Windows**

Stable Build



Other platforms and Insiders Edition

By using VS Code, you agree to its license and privacy statement.







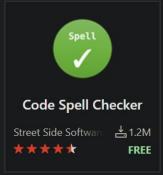
#### Extensions for the Visual Studio family of products

Search Visual Studio Code extensions

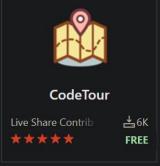


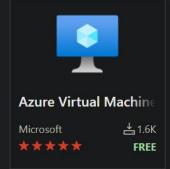
#### Featured









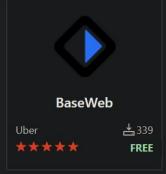


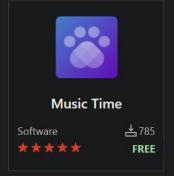


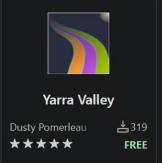
#### Trending this week ~

















New to Visual Studio Code? Get it now.

Sign in

Q



#### **Random Name Generator**

Thomas Rayner | ≛ 150 installs | ★★★★★ (0) | Free

Ever have trouble deciding what to name a variable? Use this. It generates random names for artifacts in VS Code.

Install <u>Trouble Installing?</u> [2]

Overview Q & A Rating & Review

#### vscode-namegen README

This is a simple VS Code extension that inserts random words with specific casing into the active editor window.

#### How it works



#### **Categories**

Other

#### Tags

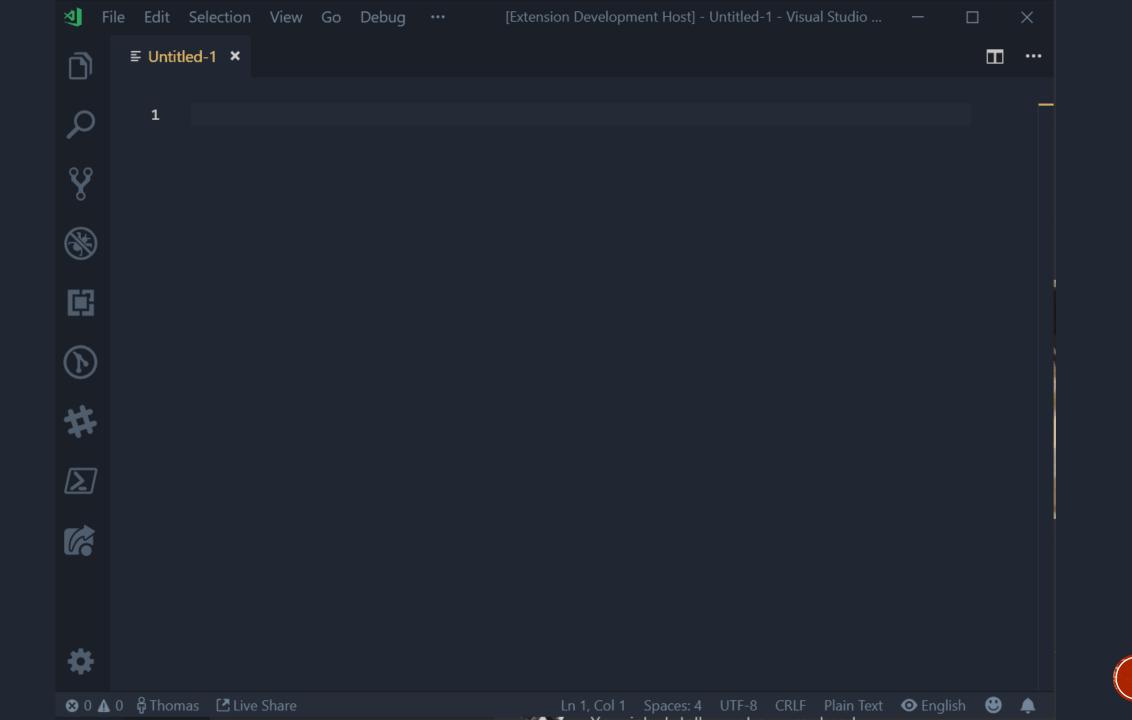
keybindings

#### Resources

Repository

Homepage

Changelog



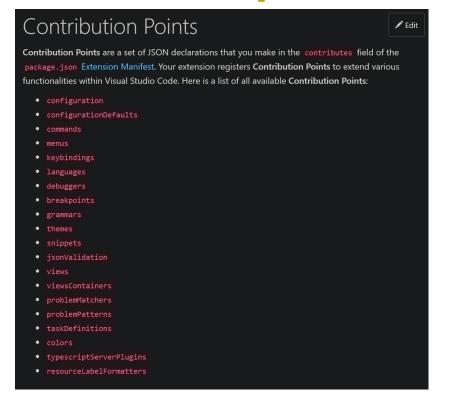
# CUTE, BUT IS THERE SOMETHING PRODUCTIVE I CAN DO?

- Theming
  - Change the look of VS Code with a color or icon theme
- Extending the Workbench
  - Add custom components & views in the UI
- Webviews
  - Create a Webview to display a custom webpage built with HTML/CSS/JS
- Language Extensions
  - Support a new programming language
- Debugger Extensions
  - Support debugging a specific runtime



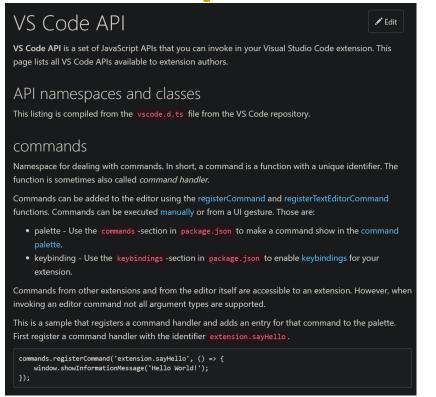
### YOUR NEW BEST FRIENDS

- Contribution Points Reference Guide
  - https://code.visualstudio.com/api/refe rences/contribution-points



#### API Reference

 https://code.visualstudio.com/api/refe rences/vscode-api





There's a "Writing Your First Extension" guide

https://code.visualstudio.com/api/get-started/your-first-extension

# BY THE WAY...



### SETTING YOURSELF UP FOR SUCCESS

- Install Chocolatey
  - Set-ExecutionPolicy Unrestricted -Force
  - Invoke-Expression ((New-Object System.Net.WebClient).DownloadString('https://chocolatey.org/install.psl'))
- Install VS Code and Node.js
  - choco install vscode nodejs –y
- Install Yeoman, the VS Code Yeoman generator, Typescript
  - npm install -g yo generator-code vsce typescript



### CREATE YOUR FIRST EXTENSION

- Use Yeoman to setup your scaffolding
  - yo code # follow wizard
- Write some code or something
  - code .\name-of-ext

- Read a lot of docs
  - Contribution Points reference
  - API reference



## WHAT TO DO WHEN YOU'RE DONE

- Build your extension
  - npm run compile
- Package your extension
  - vsce package





# LET'S MAKE AN EXTENSION

Thank you for subscribing to cat facts!

