

# Interactive Debugging with IDEs

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# Course Modules

**Building Node  
Images**

**Configuring and  
Running Containers**

**Debugging  
Containers**

**Interactive  
Debugging with  
IDEs**

**Running Multi-tier  
Applications with  
Docker Compose**



# Overview



**Intro to WebStorm**

**Interactive debugging on WebStorm**

**Intro to VS Code**

**Interactive debugging with VS Code**



# IDE Compatibility

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**VS Code 1.10+**

**Visual Studio 2017**

**WebStorm 2017.1+ (and other  
JetBrains IDEs)**

**Eclipse with Eclipse Wild  
Web Developer**



# What We Already Covered



**Command-line debugger**



**Interactive debugging with Web  
Browser (Google Chrome)**



# Current Focus

**VS Code 1.57**

**WebStorm 2021.1**



# WebStorm

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# Part of IntelliJ Family of IDEs



**IDEA**

**PhpStorm**

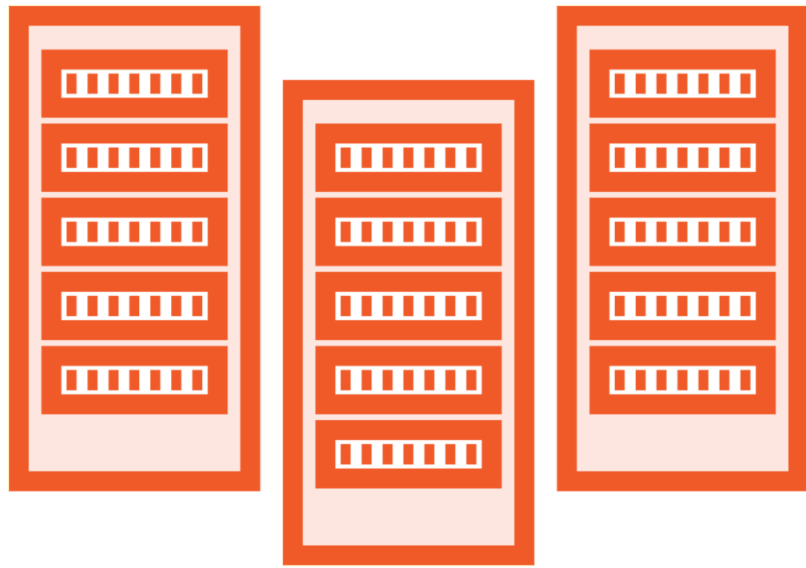
**WebStorm**

**PyCharm**

**CLion**



# Supports



**Backend**  
(Node.js,  
Meteor)



**Desktop**  
(Electron)



**Mobile**  
(Ionic, Cordova,  
React Native)



**Web**  
(Angular,  
React, Vue.js)



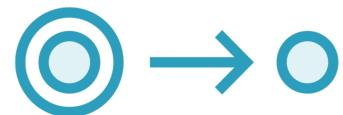
# Features (Productivity)



**Code completion**



**Thought to be the most productivity-enhancing IDE**



**Refactoring**



**Code exploration**



# Features (Quality)

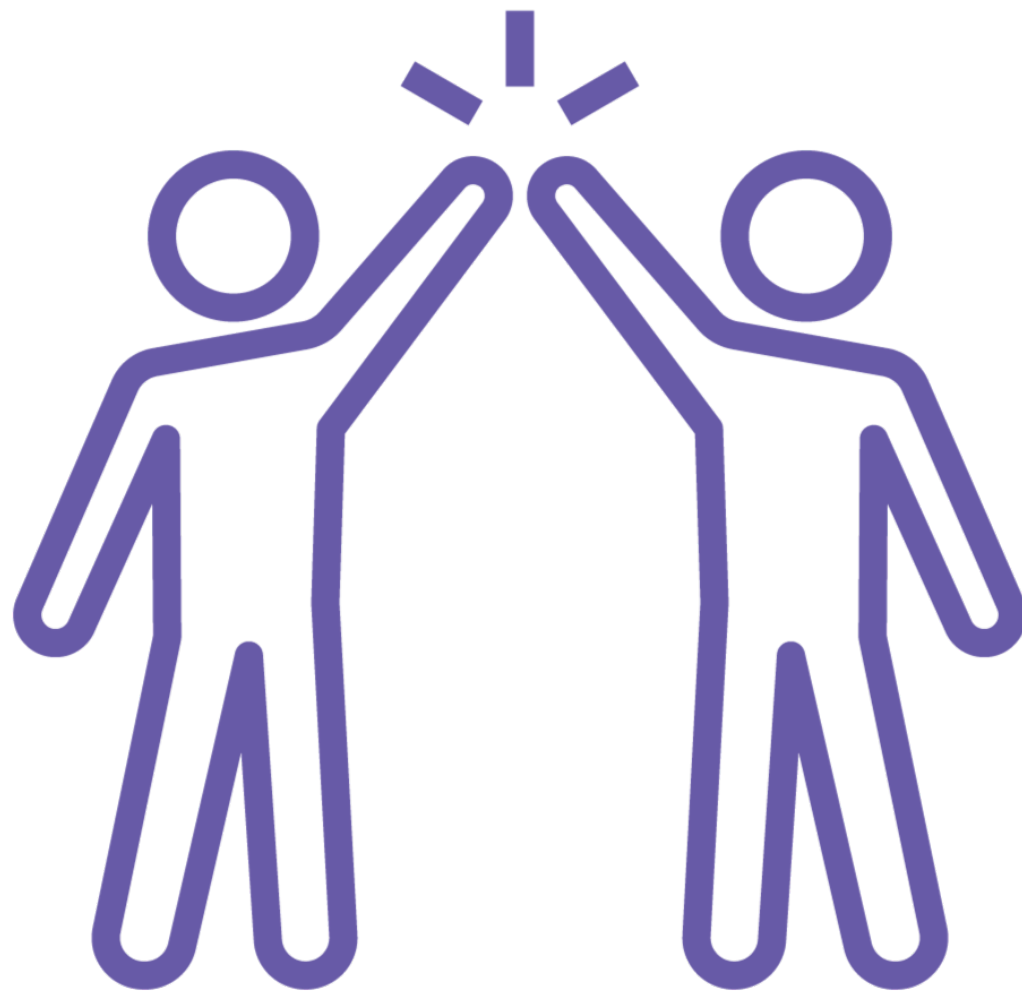
**Code quality  
checking**

**Debugging**

**Unit testing**



# Features (Teamwork)



**VCS integration**

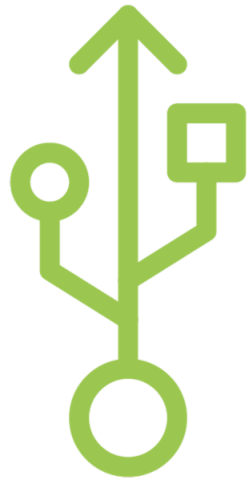
**Issue tracker integration**

**Collaborative coding**

**Possible to run in a client/server mode (with native client or web interface)**



# Features (Other)



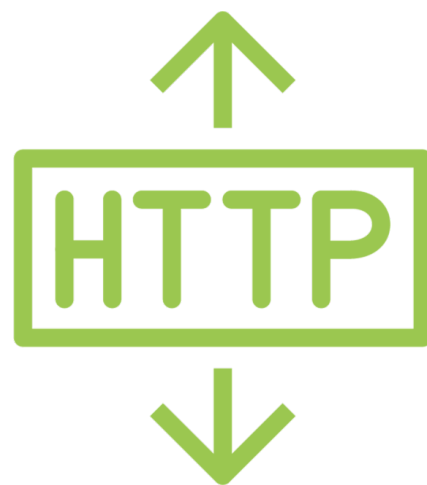
**Plugins available**



**Preview mode for  
various files**



**Powerful search**



**HTTP client**



**Documentation**



# Pricing



**Commercial  
software**



**Free trial –  
30 days**



**Free for  
non-commercial  
open-source  
projects**



**Discounts and  
free options for  
other types  
of users**



# Different WebStorm Editions

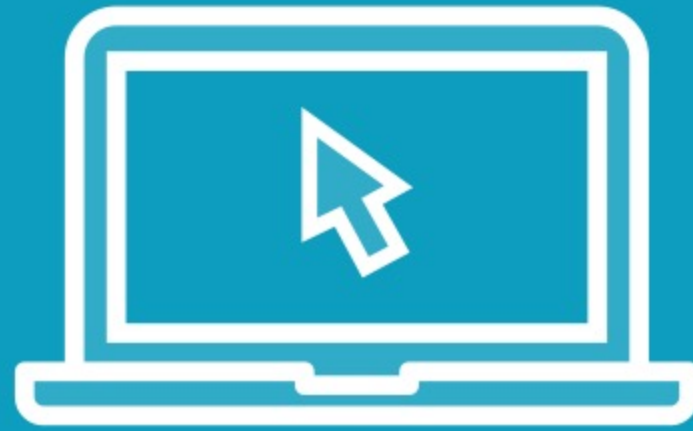
**Standard**

**Early Access Program (EAP)**





# Demo



**Configuring Docker support for WebStorm**  
**Debugging the Carved Rock Fitness app**



# VS Code



# VS Code

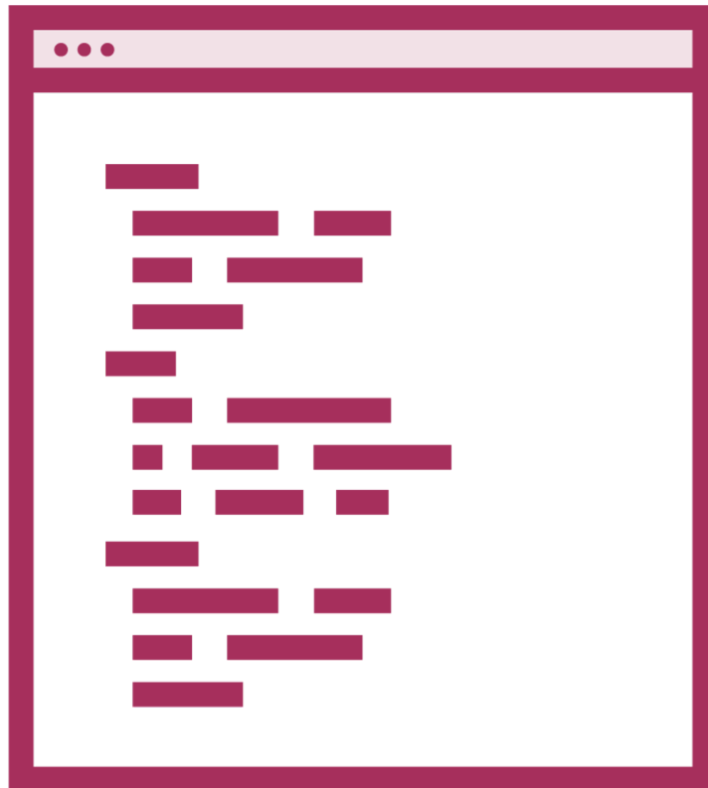


**Visual Studio Code**

**Not to be confused with Visual Studio**

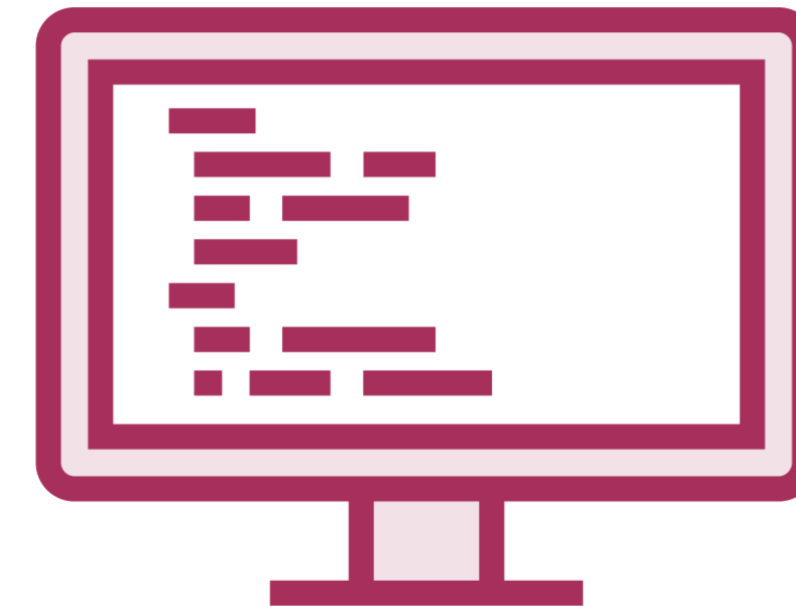


# VS Code Editions



## Free

Based on open-source code  
Includes telemetry and tracking



## VS Codium

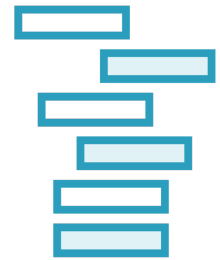
An open-source alternative



# Features (Productivity)



**Code completion with IntelliSense**



**MS Azure integration for Angular, Vue, React, Node.js projects**



**Built-in support for JavaScript, TypeScript, and Node.js**



**Other languages available via plugins**



**Single IDE for different projects (Web, Python, C++, mobile, data science)**



# Features (Teamwork)

**Built-in Git support**

**Remote development via a web client**

**Available online as GitHub Codespaces  
(available per request)**



# Features (Integrations)

**Plugin-based**

**Plugin auto-discovery**

**Great support for Docker  
under WSL2**

**Better debugging experience  
with Docker than WebStorm**



# Demo



**Creating a new Node.js project with Docker**

**Debugging the Carved Rock Fitness app**

**Importing an existing Docker project**





## Summary



**Select an IDE that fits your use case**  
**VS Code has better Docker support**



Up Next:

Running Multi-tier Applications with  
Docker Compose

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