

Maximizing Visual Studio Code with DDEV



Configuring Visual Studio Code to efficiently run code quality tools.

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About me

- Mike Anello
- ultimike
- Developer/trainer
- 15+ years in Drupal
- DrupalEasy.com
- Let's ask ChatGPT!



About this session

- DrupalEasy's 15-week, 90-hour full course.
- drupaleasy.com/pmd
- Services and dependency injection
- Custom forms
- Drupal hooks
- Events
- Queue API
- Batch API
- Custom Drush commands
- Caching
- and more!

**Professional
Module
Development**



Next semester begins August 13

Objectives

- **Visual Studio Code extensions and configuration**
 - Remote Explorer + Dev Containers
 - Php Sniffer & Beautifier
 - PHP DocBlocker
 - Phpstan
 - Drupal Smart Snippets
 - Php Intelephense
 - Php Debug
 - PHPUnit Test Explorer
- **settings.local.php**

Prerequisites

- DDEV
- Visual Studio Code
- A Drupal 10 site up-and-running using DDEV with drupal/core-dev installed using Composer
- Comfort using the command line.
- Basic understanding of Drupal coding standards.
- Some knowledge of using Xdebug

Disclaimer

- There is no "right" way to configure all this stuff.
- Good place to start.
- Personal preference.
- Moving target.

Starting point

- **Visual Studio Code extensions:**
 - Remote Explorer
 - Dev Containers
 - PHP Debug
 - PHP DocBlocker
 - PHP Intelephense
 - PHP Sniffer & Beautifier
 - Phpstan
 - PHPUnit Test Explorer
 - Drupal Smart Snippets
- ***When using Remote explorer + Dev containers, the (excellent) DDEV Manager extension is not applicable.***

Accessing a project

- Use command-line interface to `ddev start` desired project
- Launch Visual Studio Code
- From the "Remote explorer" interface, select the **DDEV *web*** container for your project.
 - This connects Visual Studio Code directly to the *web* container - bypassing the host operating system.

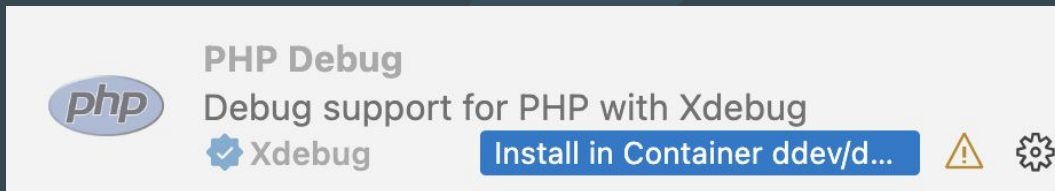







**I KNOW HOW TO CALL PHPSTAN, PHPCS, PHPCBF,
AND PHPUNIT DIRECTLY IN THE DDEV WEB
CONTAINER**

In-container extensions

- Some extensions need to be "installed" in the DDEV web container for the project.



The screenshot shows the configuration for the 'PHP Debug' extension. It includes the PHP logo, the title 'PHP Debug', and the description 'Debug support for PHP with Xdebug'. A blue checkmark icon is next to 'Xdebug', and a blue button labeled 'Install in Container ddev/d...' is visible. On the right side, there is a yellow warning triangle icon and a gear icon for settings.

 **PHP Debug**
Debug support for PHP with Xdebug
 Xdebug [Install in Container ddev/d...](#)  

Visual Studio Code Settings Files

- **User settings**
 - For all Visual Studio Code projects
- **Workspace settings**
 - Specific to each project
- **Access via Cmd-Shift-P**
 - Preferences: Open user settings (JSON)
 - Preferences: Open workspace settings (JSON)
- **We will add configuration to both to maximize usability of extensions.**

Visual Studio Code - User settings

- <https://bit.ly/3MpebN5>



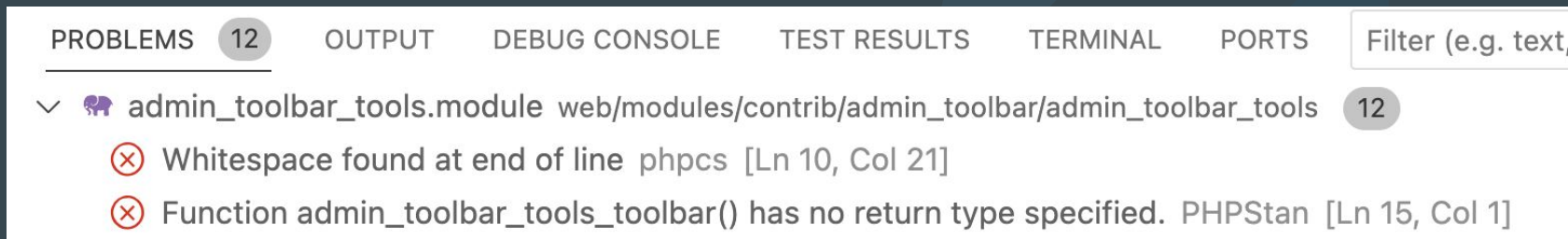
Visual Studio Code - Workspace settings

- <https://bit.ly/3QAXnoP>



Visual Studio Code - PhpStan, phpcs

- Test by opening any PHP file in the project
- Confirm PhpStan and phpcs problems are listed in Visual Studio Code's *Problems* tab.



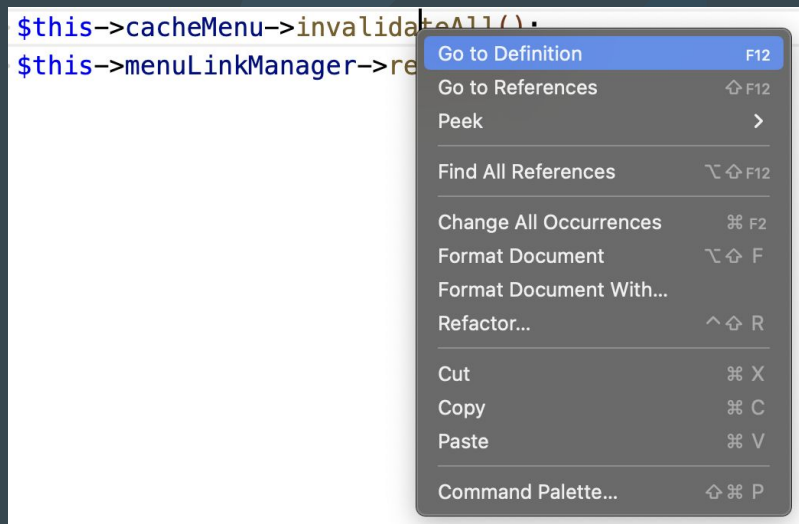
Visual Studio Code - Drupal Smart Snippets

- Examples
 - Autocompletes hooks
 - Autocompletes services
 - Autocompletes form elements

<input type="checkbox"/> @FormElement ("button")	@Element ("button")
<input type="checkbox"/> @FormElement ("checkbox")	@Element ("checkbox")
<input type="checkbox"/> @FormElement ("checkboxes")	@Element ("checkbox...
<input type="checkbox"/> @FormElement ("color")	@Element ("color")
<input type="checkbox"/> @FormElement ("date")	@Element ("date")
<input type="checkbox"/> @FormElement ("email")	@Element ("email")
<input type="checkbox"/> @FormElement ("file")	@Element ("file")
<input type="checkbox"/> @FormElement ("hidden")	@Element ("hidden")
<input type="checkbox"/> @FormElement ("imagebutton")	@Element ("imagebut...
<input type="checkbox"/> @FormElement ("item")	@Element ("item")
<input type="checkbox"/> @FormElement ("languageselect...	@Element ("langua...
<input type="checkbox"/> @FormElement ("machinename")	@Element ("machinen...

Visual Studio Code - Php Intelephense

- **Examples**
 - Code navigation
 - Code completion
 - Function signature help
 - So much more...



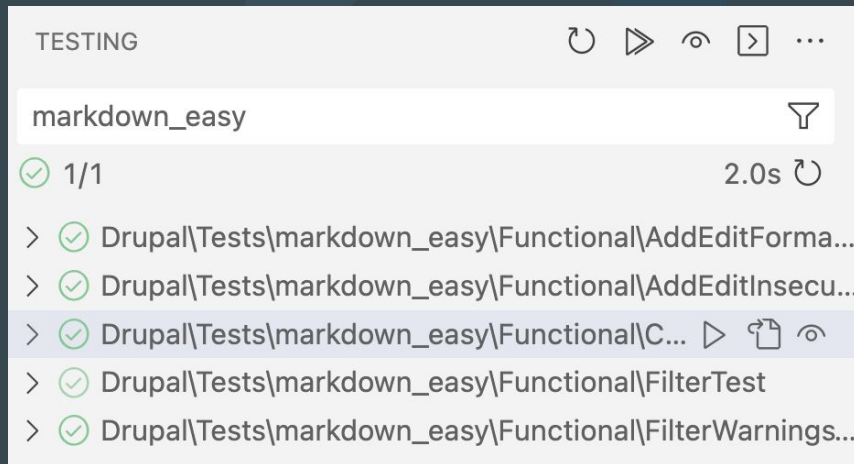
Visual Studio Code - Php debug

- <https://bit.ly/476LDzL>
- `enable_xdebug`
- `disable_xdebug`
- `launch.json`



Visual Studio Code - PHPUnit text explorer

- **Requires valid phpunit.xml file.**
 - A phpunit.xml file on the project root works without any configuration necessary.
 - Other options are available - see extension configuration



Drupal's settings.local.php file

- Always use a `sites/default/settings.local.php` file in your personal development environment.
- Displays all errors to screen.
- Turns off selective caches.
- To create:
 - Copy `sites/example.settings.local.php` to `sites/default/settings.local.php`
 - Uncomment conditional include in `sites/default/settings.php`
- Do not commit to the Git repository.

More?

- **Twig Language 2 extension**
- **TODO Highlights extension**
- **Drupal.org documentation page on configuring Visual Studio Code:**
<https://www.drupal.org/docs/develop/development-tools/editors-and-ides/configuring-visual-studio-code>
 - Empty indent extension - I don't believe this is necessary anymore.
 - Composer extension - I have not used it.
- **Others?**

Professional Module Development course

- DrupalEasy's 15-week, 90-hour full course.
- drupaleasy.com/pmd
- Next semester begins August 13.
- 60-hour *Lite* version available.
- *Full* version covers configuring Visual Studio Code, PhpStorm, Lando, DDEV.

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These slides

<https://bit.ly/max-vscode-nedcamp-2023>

