

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



About Mike Herchel

- He won his 8th grade spelling bee
- Olivero, Single Directory Components
- <http://imwithherchel.com>
- Co-organizer of Florida DrupalCamp (the best Drupal even anywhere)
- "What happens when USWDS meets Single Directory Components?" - session happening right now in the Acquia room



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**



Objectives

- **Visual Studio Code extensions and configuration**
 - Remote explorer
 - Php sniffer & beautifier
 - 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**



Optional prerequisites

- **PHP and Composer installed on host operating system**
 - I use Homebrew to install.
- **Drupal Coder installed as separate project**
 - As a backup for phpcs and phpcbf



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
 - PHP Debug
 - PHP DocBlocker
 - PHP Intelephense
 - PHP Sniffer & Beautifier
 - phpstan
 - PHPUnit Test Explorer
 - Drupal Smart Snippets
- ***When using Remote Explorer, the (excellent) DDEV Manager extension is not applicable.***



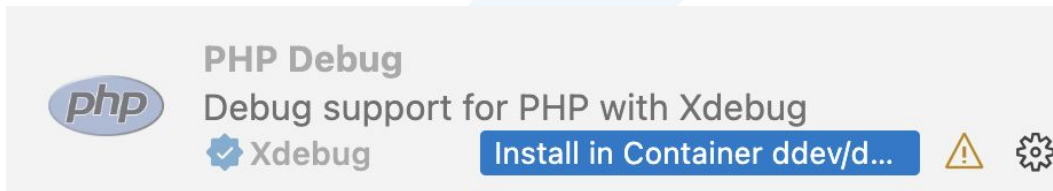
Accessing a project

- 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.



In-container extensions

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



A screenshot of the 'PHP Debug' settings panel in DDEV. The panel has a light gray background and a blue header bar. On the left is the PHP logo. The main text reads 'PHP Debug' and 'Debug support for PHP with Xdebug'. Below this, there is a blue checkmark icon followed by the text 'Xdebug'. To the right of this is a blue button with white text that says 'Install in Container ddev/d...'. Further right are two icons: a yellow warning triangle and a gray gear icon.

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>



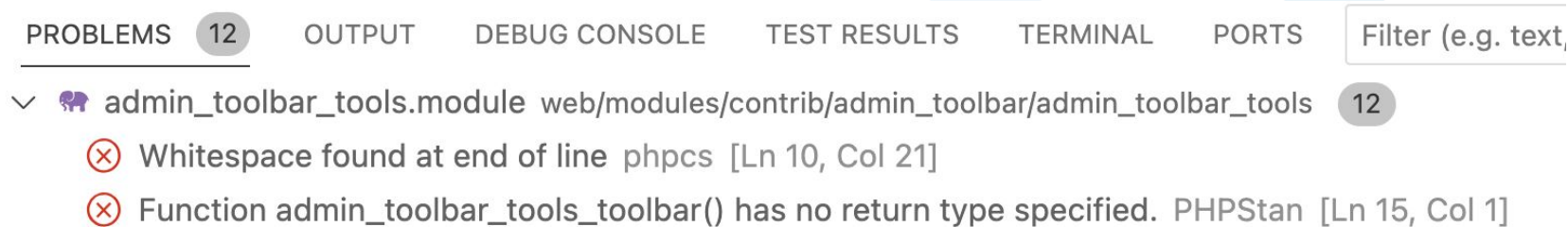
Visual Studio Code - Workspace settings

- <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

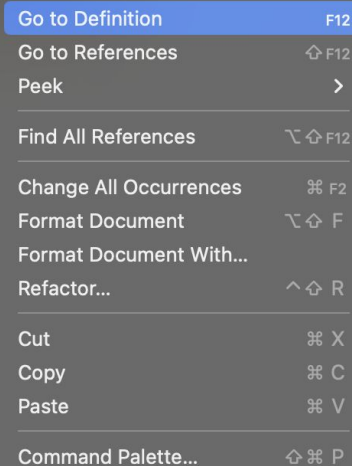
<input type="checkbox"/> @FormElement ("button")	@Element ("button")
<input type="checkbox"/> @FormElement ("checkbox")	@Element ("checkbox")
<input type="checkbox"/> @FormElement ("checkboxes")	@Element ("checkbox...
<input type="checkbox"/> @FormElement ("color")	@Element ("color")
<input type="checkbox"/> @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...

```
$this->cacheMenu->invalidateAll();  
$this->menuLinkManager->re
```



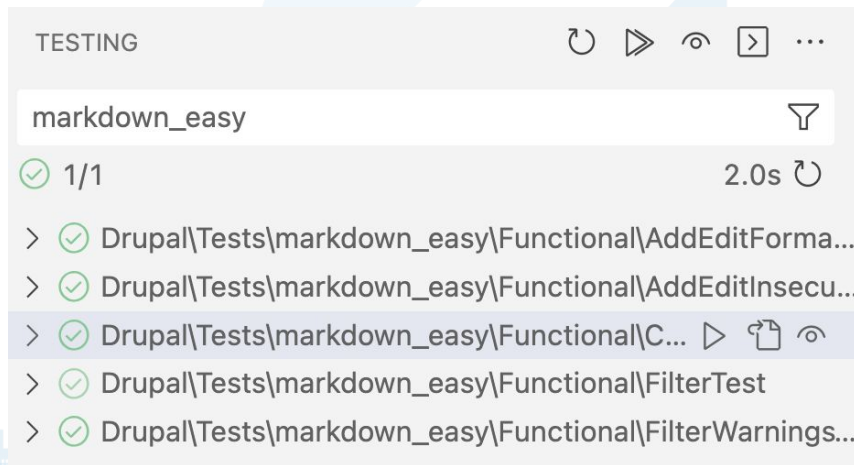
Visual Studio Code - Php debug

- <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 documentation.



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 January 30.
- 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-govcon-2023>

