Maximizing Visual Studio Code with DDEV

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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!

DrupalEasy

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.
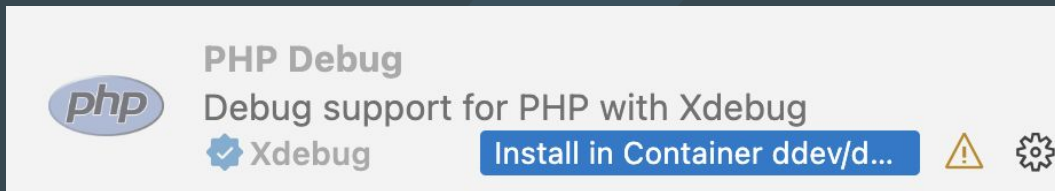
Starting point

- **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.

In-container extensions

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

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.**

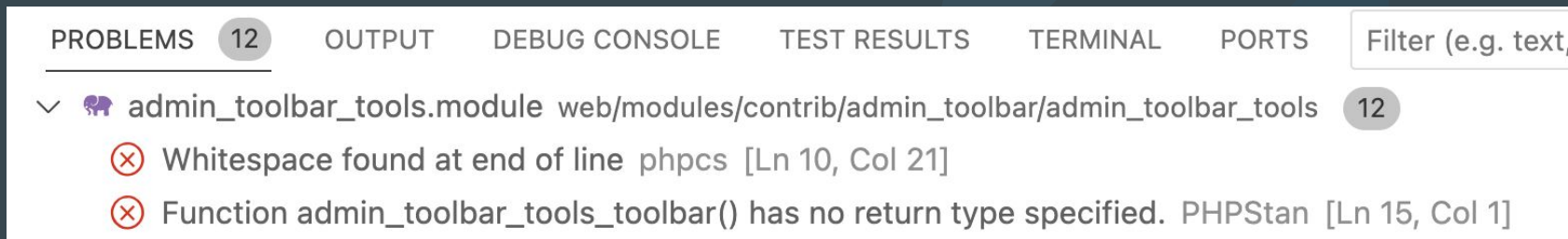# Visual Studio Code - User settings

- 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
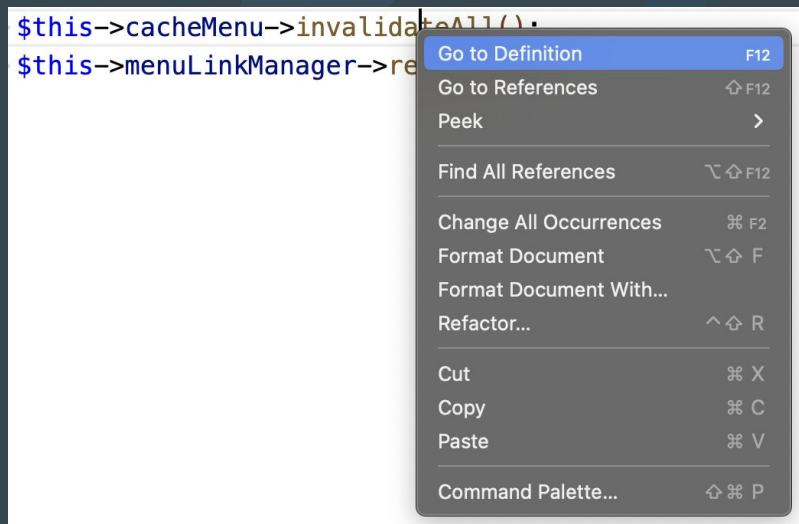- Confirm PhpStan and phpcs problems are listed in Visual Studio Code's *Problems* tab.

Visual Studio Code - Drupal Smart Snippets

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

Visual Studio Code - Php Intelephense

- **Examples**
    - Code navigation
    - Code completion
    - Function signature help
    - So much more...
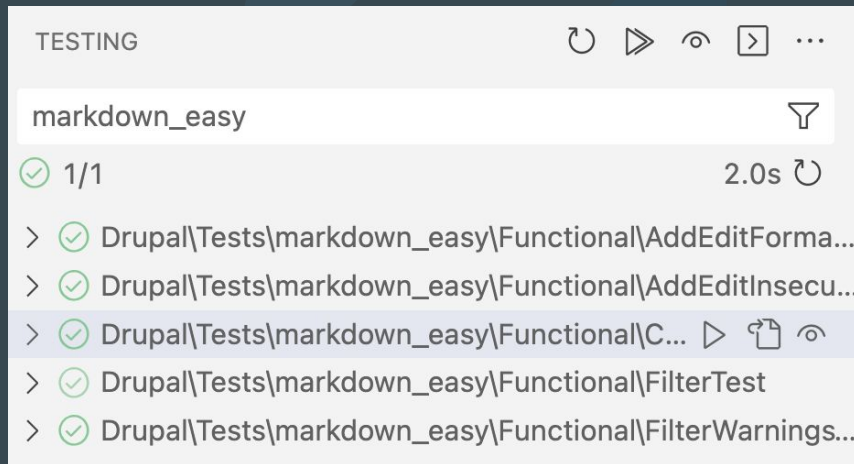
Visual Studio Code - Php debug

- 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.

Professional Module Development

These slides

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