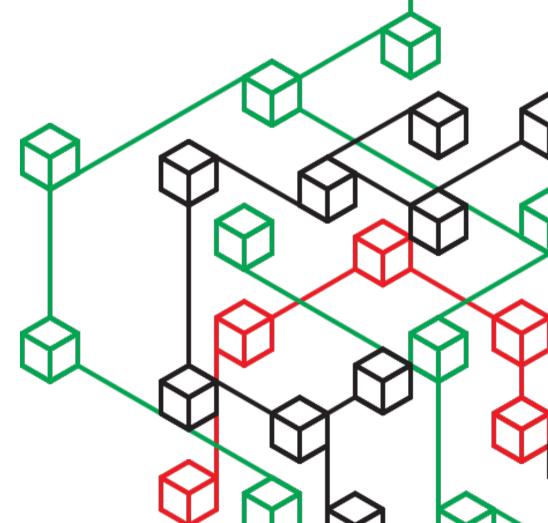


Beth Tucker Long
@e3betht



Who am I? Beth Tucker Long (@e3betht)

- PHP Developer at Code Climate
- Stay-at-home mom
- User group leader
- Mentor



Audience Participation?

Completely fine. Ask me questions any time.

Why?



Why?

- Build confidence
- Improve code quality and security
- Easier integration

What this talk is not



A bit of history



Use the "S" Word



Use the "S" Word

Standards!

Use the "S" Word

Wait, multiple standards?

PHP-FIG

 PSR-1 Basic Coding Standard <u>http://www.php-fig.org/psr/psr-1/</u>

 PSR-2 Coding Style Standard http://www.php-fig.org/psr/psr-2/

PHP Coding Standards Fixer

http://cs.sensiolabs.org

- Fixes "most" issues
- PSR-1 and PSR-2 compliant

PHP_CodeSniffer

https://github.com/squizlabs/PHP_CodeSniffer

- Phar, PEAR, or Composer
- Preset and customizable standards
- Will fix items for you automatically

Output

```
$ phpcs /myDir/myFile.php
FILE: /myDir/myFile.php
FOUND 3 ERROR(S) AFFECTING 3 LINE(S)
  | ERROR | [ ] Missing file doc comment
20 | ERROR | [x] PHP keywords must be lowercase;
                expected "false" but found "FALSE"
47 | ERROR | [x] Line not indented correctly;
                expected 4 spaces but found 1
```



IDEs

 Sublime Text http://www.sublimetext.com

PhpStorm
 https://www.jetbrains.com/phpstorm/

Vim http://www.vim.org

Use the other "S" Word



Use the other "S" Word

Security

Security

- http://php.net/manual/en/security.php
- https://www.owasp.org/index.php/
 PHP Security Cheat Sheet
- http://websec.io
- Securing PHP: Core Concepts
 https://leanpub.com/securingphp-coreconcepts
 https://speakerdeck.com/ccornutt
 http://securingphp.com



Test Your Code

A little bit of extra work up front saves lots and lots of work later on.



Need Help with Testing?

Chris Hartjes

@grmpyprogrammer

http://grumpy-learning.com



Use a Testing Framework

PHPUnit https://phpunit.de

Document Your Code

Make sure everyone knows what your code is doing... including you.



Document Your Code

phpDocumentor: http://www.phpdoc.org/

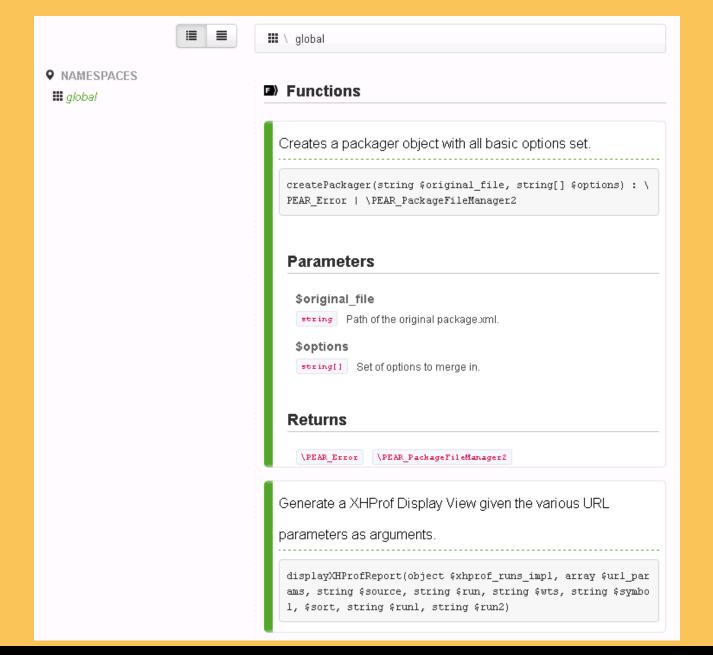
Automates documentation

Tutorial:

```
<a href="http://manual.phpdoc.org/HTMLSmartyConverter/">http://manual.phpdoc.org/HTMLSmartyConverter/</a>
HandS/phpDocumentor/
tutorial phpDocumentor.howto.pkg.html
```



```
* Put your short description here.
* Put your long description here.
* You may use multiple lines.
* You can even use Markdown.
* @author Beth Tucker Long <beth@musketeers.me>
* @since 1.0
* @param int $exampleA This is a method parameter description.
* @param string $exampleB This is another example.
*/
```



Know Your Language

php.net



PHP 5.6.6 is available

PHP Manual → Function Reference → Text Processing → Strings → String Functions

trim

Change language: English

ish 😊

dit Report a Bug

(PHP 4, PHP 5)

trim — Strip whitespace (or other characters) from the beginning and end of a string

Description

string trim (string \$str [, string \$character_mask = " \t\n\r\0\x0B"])

This function returns a string with whitespace stripped from the beginning and end of **str**. Without the second parameter, **trim()** will strip these characters:

- o " " (ASCII 32 (0x20)), an ordinary space.
- "\t" (ASCII 9 (0x09)), a tab.
- o "\n" (ASCII 10 (0x0A)), a new line (line feed).
- o "\r" (ASCII 13 (0x0D)), a carriage return.
- "\0" (ASCII 0 (0x00)), the NUL-byte.
- ∘ "\x0B" (ASCII 11 (0x0B)), a vertical tab.

String Functions

« substr

addcslashes addslashes

bin2hex

chop

chr

chunk_split

convert_cyr_string

convert_uudecode convert_uuencode

count_chars

crc32

crypt

echo

explode

fprintf

get_html_translation_table

hebrev

hebrevc

hex2bin

html_entity_decode

htmlentities



Notes

Note: Possible gotcha: removing middle characters

Because **trim()** trims characters from the beginning and end of a <u>string</u>, it may be confusing when characters are (or are not) removed from the middle. *trim('abc'*, 'bad') removes both 'a' and 'b' because it trims 'a' thus moving 'b' to the beginning to also be trimmed. So, this is why it "works" whereas *trim('abc'*, 'b') seemingly does not.

See Also

- ltrim() Strip whitespace (or other characters) from the beginning of a string
- rtrim() Strip whitespace (or other characters) from the end of a string
- str_replace() Replace all occurrences of the search string with the replacement string

▲ 23 ▼ ludko2 at gmail dot com

4 years ago

```
Non-breaking spaces can be troublesome with trim:
<?php
// turn some HTML with non-breaking spaces into a "normal" string
$myHTML = " abc";
$converted = strtr($myHTML, array_flip(get_html_translation_table(HTML_ENTITIES, ENT_QUOTES)));
// this WILL NOT work as expected
// $converted will still appear as " abc" in view source
// (but not in od -x)
$converted = trim($converted);
//   are translated to 0xA0, so use:
$converted = trim($converted, "\xA0"); // <- THIS DOES NOT WORK</pre>
// EDITED>>
// UTF encodes it as chr(0xC2).chr(0xA0)
$converted = trim($converted,chr(0xC2).chr(0xA0)); // should work
// PS: Thanks to John for saving my sanity!
?>
```



User Contributed Notes 13 notes

add a note

▲ 23 ▼ ludko2 at gmail dot com

4 years ago

```
Non-breaking spaces can be troublesome with trim:
<?php
// turn some HTML with non-breaking spaces into a "normal" string
$myHTML = " abc";
$converted = strtr($myHTML, array_flip(get_html_translation_table(HTML_ENTITIES, ENT_QUOTES)));
// this WILL NOT work as expected
// $converted will still appear as " abc" in view source
// (but not in od -x)
$converted = trim($converted);
```



Know Your Framework/Library

https://github.com/

Know Your Framework/Library

https://github.com/

Contribute!

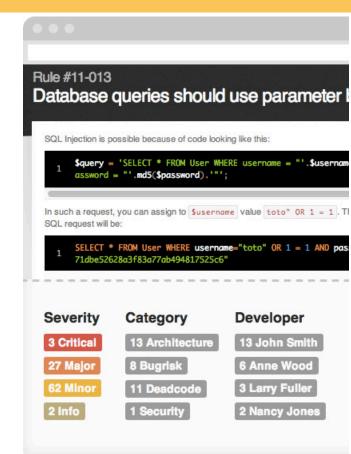


Checking Code

Sensio Insight

https://insight.sensiolabs.com/

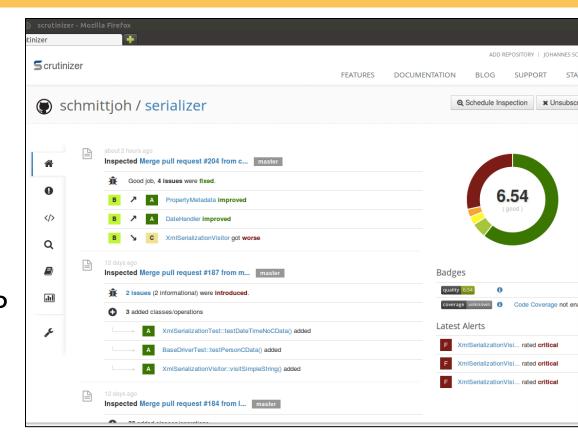
- Free for open source
- Integrated with Git
- Symfony-focused, but works with any PHP code
- Checks PHP, XML, YAML, Twig templates, and Composer dependencies



Checking Code

Scrutinizer https://scrutinizer-ci.com/

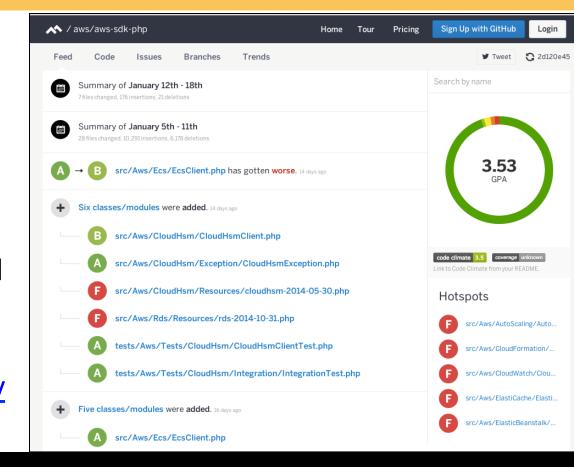
- Free for open source
- Integrated with Git
- Integrates open source checking tools like PHP_CodeSniffer and PHP Mess Detector
- Checks PHP, Python, and Ruby



Checking Code

Code Climate https://codeclimate.com/

- Free for open source
- Integrated with Git
- Very fast
- Checks PHP, JS, Ruby, and coming soon - Python
- Takes security seriously: codeclimate.com/security





Never Stop Learning

Learn by Reading

http://www.phparch.com/magazine/

http://www.phptherightway.com

http://phpdeveloper.org

Learn by Reading

https://leanpub.com

Amazon

Your local library

Learn by Watching

http://nomadphp.com

https://www.youtube.com/user/phpukconference

https://www.youtube.com/user/phpacademy/

http://www.pluralsight.com/

https://www.youtube.com/user/LevelUpTuts



Learn by Instruction

http://www.phparch.com/training/

http://www.zend.com/services/training

http://www.codecademy.com/en/tracks/php

Learn by Listening

http://devhell.info

http://looselycoupled.info

http://phptownhall.com

http://thatpodcast.io



Learn by Practicing

https://laracasts.com/series/code-katas-in-php

http://codingdojo.org/cgi-bin/index.pl?
KataCatalogue

http://phpcodepad.com



Learn by Email

http://securingphp.com

http://www.phpweekly.com

Learn by Hanging Out

Freenode

https://webchat.freenode.net

#phpc #phpwomen #phpmentoring



Learn by...



Learn by...

Mentoring

Find a Mentor

http://phpmentoring.org

```
http://www.slideshare.net http://www.joind.in
```

http://php.net/conferences/

http://nocapes.net

http://voicesoftheelephpant.com



Find an Apprentice

http://phpmentoring.org

IRC Channels
Stack Overflow
Reddit

User Groups

http://php.ug

http://php.net/cal.php

http://www.meetup.com

User Groups

If there's not one near you, start one!

(and ask me to help)

Speak!

http://rosstuck.com/tips-on-speaking/

http://matthewturland.com/2014/07/15/speakingresources/

http://afilina.com/re-how-to-submit-to-conf/

http://www.alittleofboth.com/2014/01/how-to-submit-a-talk-to-a-conference/



Speak!

http://php.net/conferences

http://joind.in/event/callforpapers

https://twitter.com/callbackwomen

Resources

- http://teamtreehouse.com/library/standards-and-bestpractices
- http://code.tutsplus.com/tutorials/30-php-best-practices-forbeginners--net-6194
- https://www.airpair.com/php/posts/best-practices-formodern-php-development
- https://phpbestpractices.org/
- https://www.corephp.com/blog/php-best-practices-that-youmust-follow/
- http://www.phpbuilder.com/articles/application-architecture/ optimization/explore-the-top-11-php-best-practices.html
- http://pear.php.net/manual/en/standards.bestpractices.php
- http://www.sitepoint.com/php-tips-resources-best-practices-2015/

Final Thoughts

Bold coding is, of course, about knowledge and skill, but more importantly, it's about being active:

Actively Learning
Actively Participating
Actively Improving

Find Me

• Twitter: e3betht

 Madison PHP User Group (Meetup) http://www.madisonphp.com

 Slides Available on: http://www.TreelineDesign.com/slides

Feedback

https://joind.in/13386

E-mail:
Beth@CodeClimate.com

