

PHP attributes

The end of PHP DocBlocks?

DocBlock and annotation

A piece of documentation in your source code that informs you what the function of a certain class, method or other Structural Element is.

```
/**  
 * Get an example of a beer style.  
 *  
 * @param string $style  
 *   Beer style to query for.  
 *  
 * @return string  
 *   Returns beer style or if nothing found, a empty string.  
 *  
 * @throws \UnexpectedValueException  
 */  
function get_beer_style($style) {}
```

[Attribute]

Attributes

<https://www.php.net/manual/en/language.attributes.php>

- Short style introduced in PHP 8.0
- [Attr]
 - C#: [Attr] - C++: [[attr]] - Rust: #[attr]
- @Attr
 - Swift: @attr - TypeScript/JS: @Attr - Python: @attr - Java: @Attr - Kotlin: @Attr

Attributes

Built in PHP Core

- #[\Deprecated] - PHP 8.4
- #[\Overriden] - PHP 8.3
- #[\SensitiveParameter] - PHP 8.2
- #[AllowDynamicProperties] PHP 8.2
- #[ReturnTypeWillChange] - PHP 8.1

Laravel

Attributes provided 10.x/11.x

- Observed By
- Scoped By
- Contextual Attributes
- Delete When Missing Models
- Without Relations
- Custom Eloquent Collections

Drupal version 10.2

Example: The humble block

```
#[Block(  
  id: "custom_block",  
  admin_label: new TranslatableMarkup("Custom Block"),  
  category: new TranslatableMarkup("Custom Category"),  
)]
```

Doctrine

database storage and object mapping

```
#[ORM\Entity]
```

```
#[ORM\Table(name: 'products')]
```

```
class Product
```

```
{
```

```
#[ORM\Id]
```

```
#[ORM\Column(type: 'integer')]
```

```
private int|null $id = null;
```

```
#[ORM\Column(type: 'string')]
```

```
private string $name;
```

PHPUnit

<https://docs.phpunit.de/en/11.5/attributes.html>

- #[Test] - That method is a test to be run
- #[TestDox('Hold my beer, PHP Bergen tests is running')]

Drush - annotation vs attributes

```
/**  
 * @command xkcd:fetch  
 * @param $search Optional argument to retrieve the cartoons matching an index number, keyword, or "random".  
 * @option image-viewer Command to use to view images (e.g. xv, firefox).  
 * @option google-custom-search-api-key Google Custom Search API Key.  
 * @usage drush xkcd  
 *   Retrieve and display the latest cartoon.  
 * @usage drush xkcd sandwich  
 *   Retrieve and display cartoons about sandwiches.  
 * @aliases xkcd  
 */  
public function fetch($search = null, $options = ['image-viewer' => 'open', 'google-custom-search-api-key' => 'AIza']) {  
    $this->doFetch($search, $options);  
}
```

```
/**  
 * Retrieve and display xkcd cartoons (attribute variant).  
 */  
#[  
CLI\Command(name: 'xkcd:fetch-attributes', aliases: ['xkcd-attributes'])]  
#[CLI\Argument(  
    name: 'search',  
    description: 'Optional argument to retrieve the cartoons matching an index, keyword, or "random".',  
)]  
#[CLI\Option(  
    name: 'image-viewer',  
    description: 'Command to use to view images (e.g. xv, firefox).',  
    suggestedValues: ['open', 'xv', 'firefox'],  
)]  
#[CLI\Option(  
    name: 'google-custom-search-api-key',  
    description: 'Google Custom Search API Key',  
)]  
#[CLI\Usage(  
    name: 'drush xkcd',  
    description: 'Retrieve and display the latest cartoon',  
)]  
#[CLI\Usage(  
    name: 'drush xkcd sandwich',  
    description: 'Retrieve and display cartoons about sandwiches.',  
)]  
public function fetch()  
{$search = null,  
$options = [  
    'image-viewer' => 'open',  
    'google-custom-search-api-key' => 'AIza',  
],  
{  
    $this->doFetch($search, $options);  
}
```