



PHPUnit for Shopware Developers

Sebastian Bergmann

- **Sebastian** since 1978
- **Computers** since 1990
- **PHP** since 1998
- **Open Source** since 1998
- **PHPUnit** since 2000
- **thePHP.cc** since 2009



sharing experience

thePHP.cc



Commodore

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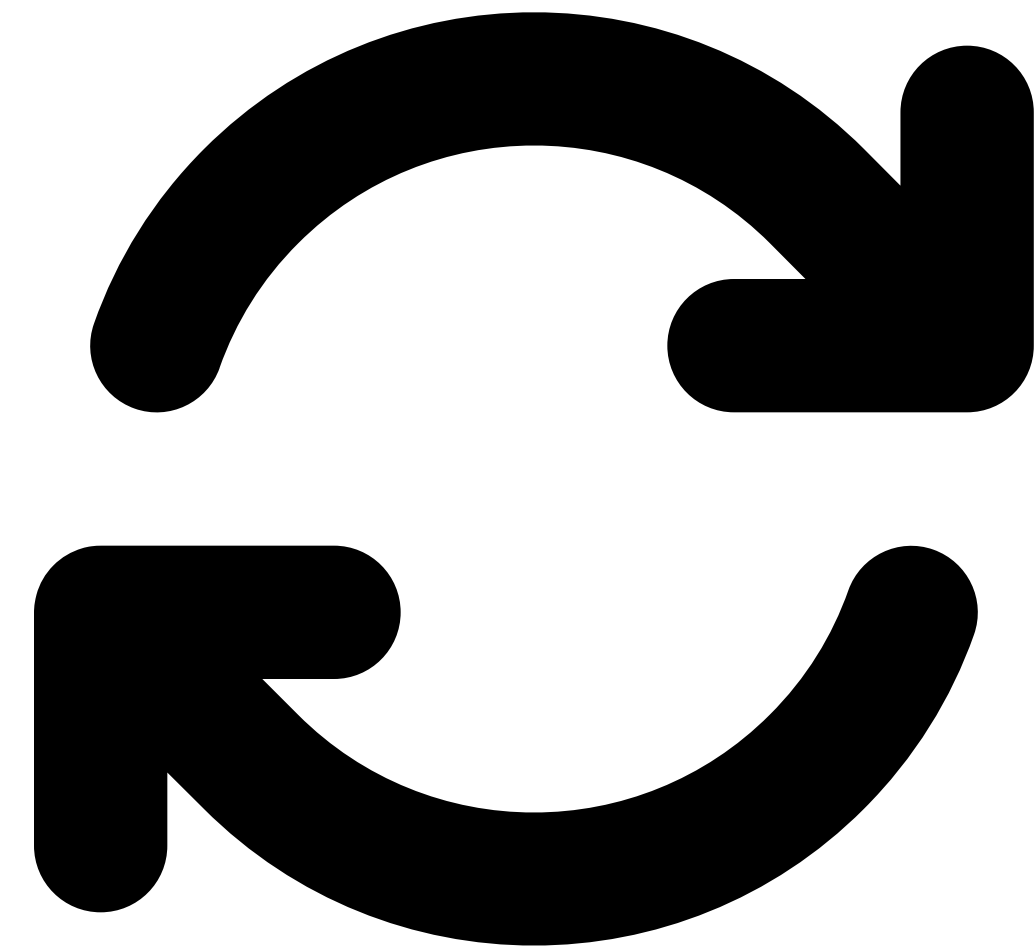
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Feedback Loop





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```
> symfony server:start

[WARNING] run "symfony server:ca:install" first if you want to run the web server with TLS support, or use "--p12" or
"--no-tls" to avoid this warning

Following Web Server log file (/home/sb/.symfony5/log/9811f4fca6c4923ec656cceedad470672d7ff98a.log)
Following PHP-FPM log file (/home/sb/.symfony5/log/9811f4fca6c4923ec656cceedad470672d7ff98a/53fb8ec204547646acb3461995e4
da5a54cc7575.log)

[WARNING] The local web server is optimized for local development and MUST never be used in a production setup.

[OK] Web server listening
The Web server is using PHP FPM 8.3.6
http://127.0.0.1:8000

[Web Server ] May  2 07:25:40 |DEBUG| | PHP   Reloading PHP versions
[Web Server ] May  2 07:25:40 |DEBUG| | PHP   Using PHP version 8.3.6 (from default version in $PATH)
[Web Server ] May  2 07:25:40 |INFO|  | PHP   listening path="/usr/sbin/php-fpm" php="8.3.6" port=42341
[PHP-FPM    ] May  2 07:25:40 |NOTICE| | FPM   fpm is running, pid 5573
[PHP-FPM    ] May  2 07:25:40 |NOTICE| | FPM   ready to handle connections
[PHP-FPM    ] May  2 07:25:40 |NOTICE| | FPM   systemd monitor interval set to 10000ms
[Web Server ] May  2 07:25:47 |INFO|  | SERVER GET (200) / ip="127.0.0.1"

> http http://127.0.0.1:8000
HTTP/1.1 200 OK
Age: 1137
Cache-Control: no-cache, private
Content-Type: text/html; charset=UTF-8
Date: Thu, 02 May 2024 05:06:49 GMT
Referrer-Policy: strict-origin-when-cross-origin
Transfer-Encoding: chunked
X-Content-Type-Options: nosniff
X-Frame-Options: deny
X-Powered-By: PHP/8.3.6

<!DOCTYPE html>

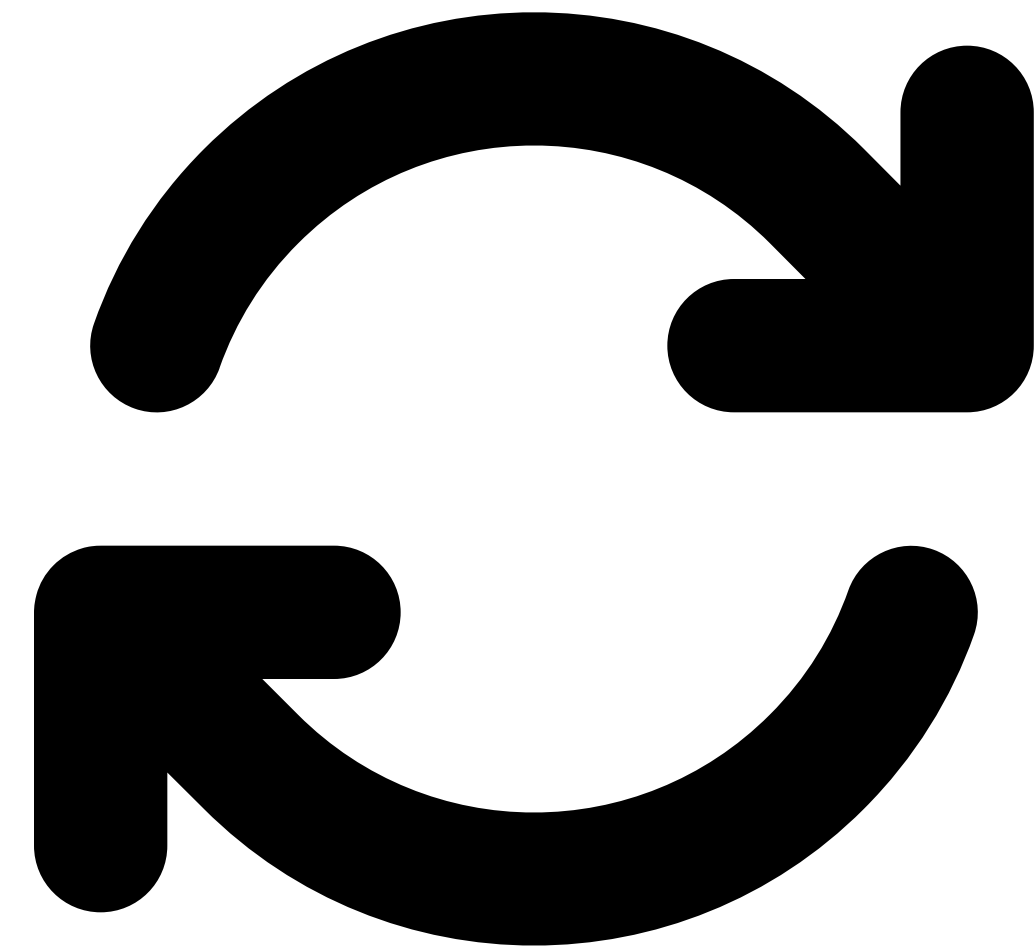
<html lang="en-GB"
  itemscope="itemscope"
  itemtype="https://schema.org/WebPage">

  <head>

    <meta charset="utf-8">

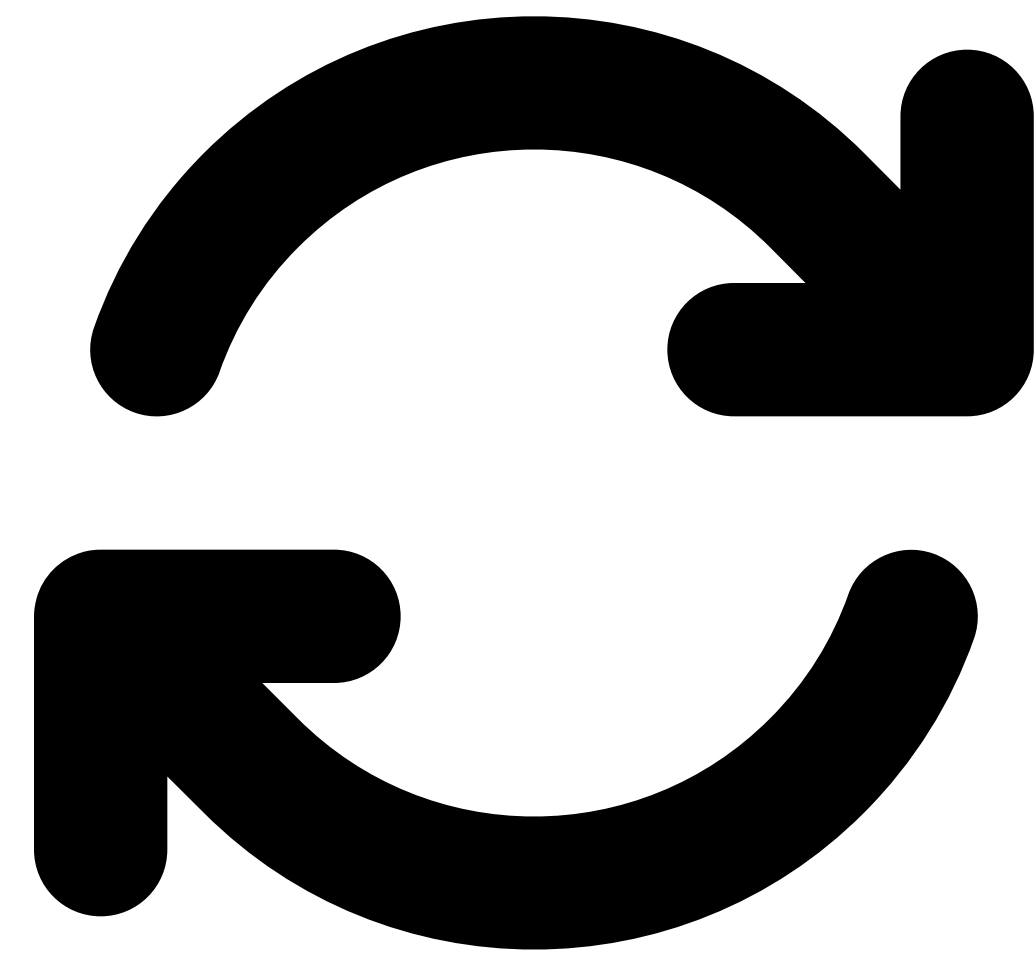
    <meta name="viewport"
      content="width=device-width, initial-scale=1, shrink-to-fit=no">

    <meta name="author"
      content="">
    <meta name="robots"
      content="index, follow">
```

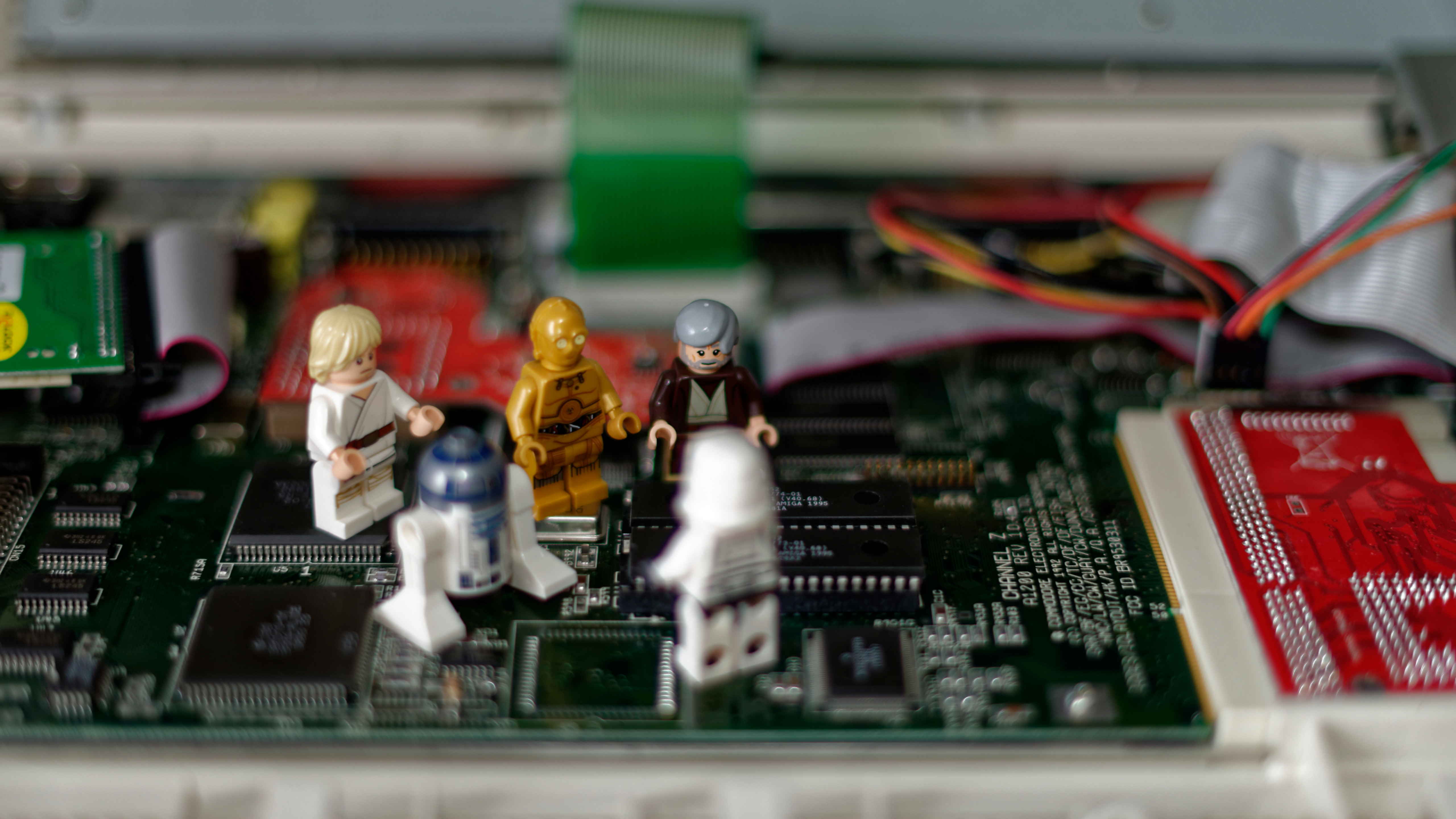



Feedback Loop

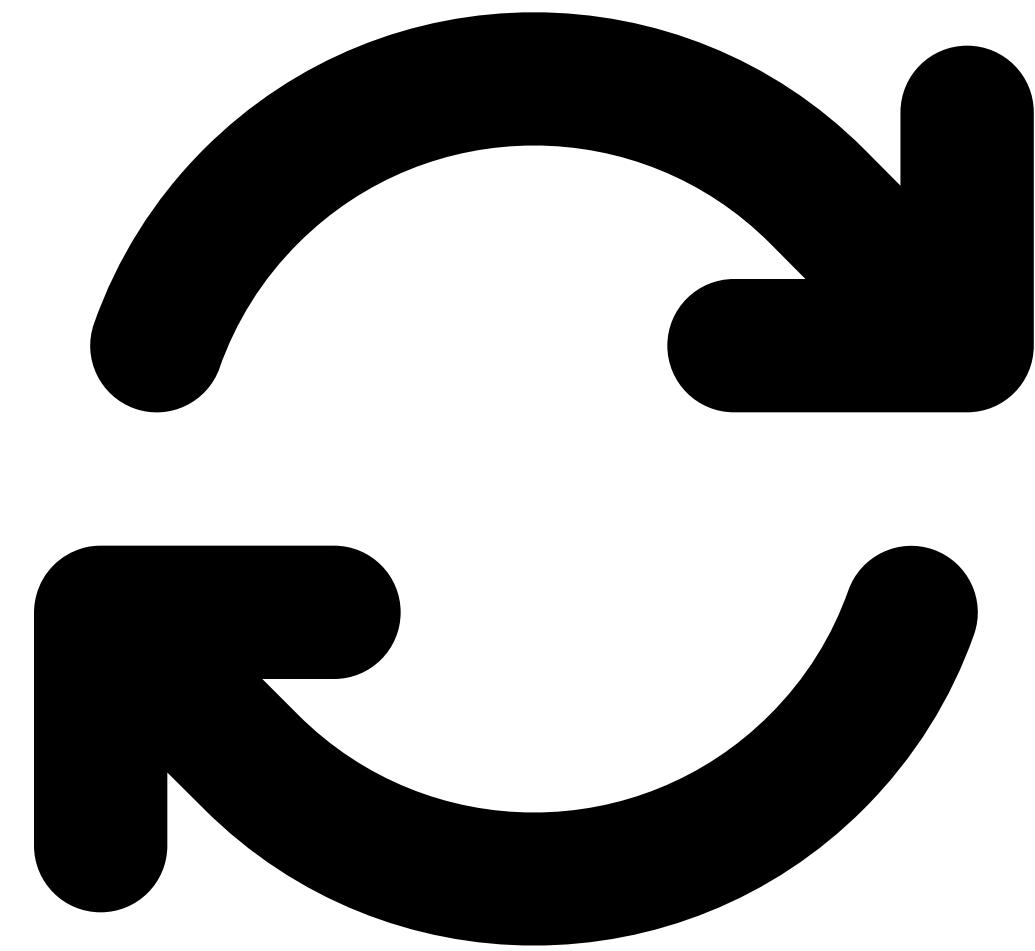
This is not the



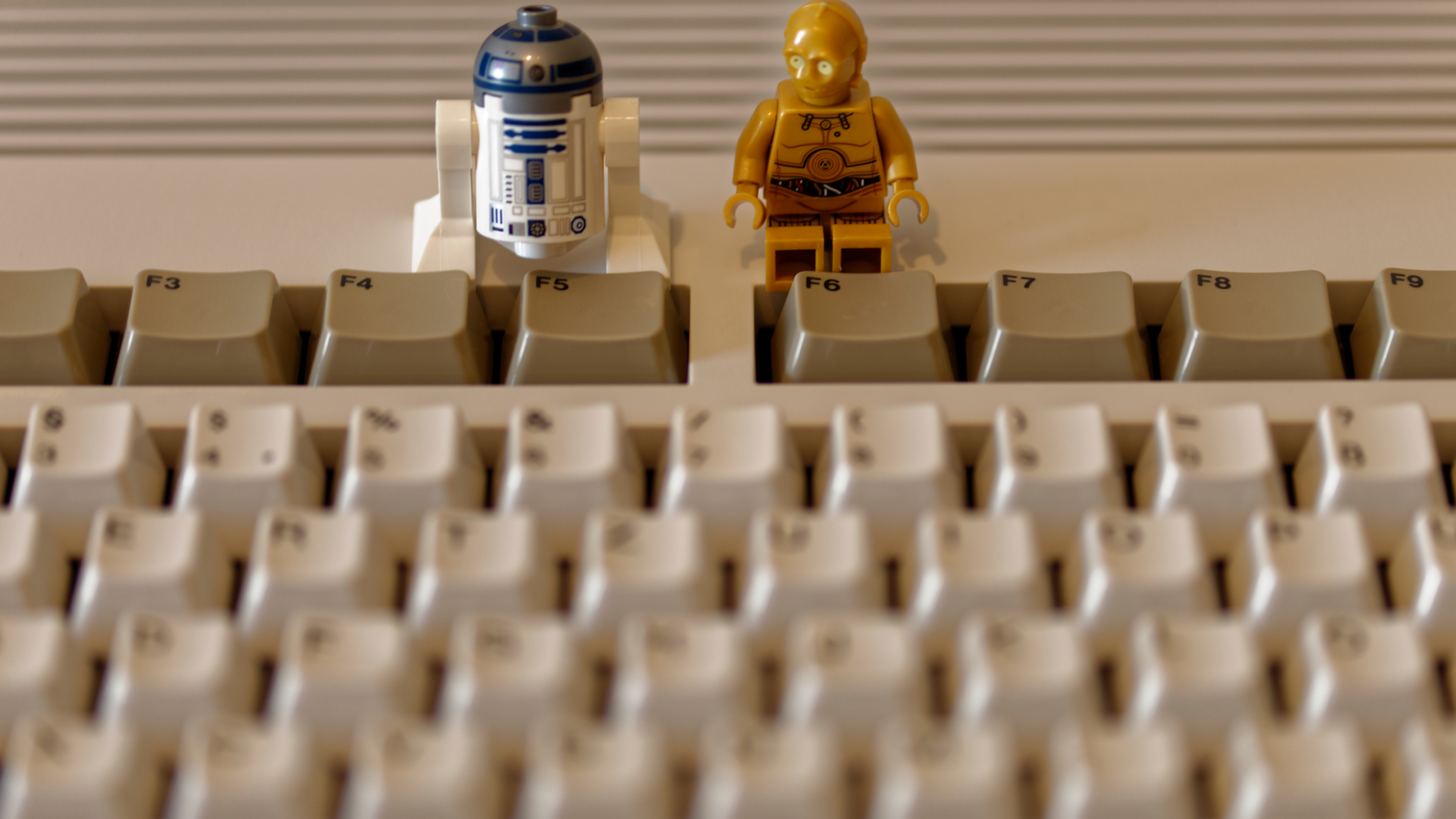
**Feedback Loop
you want.**



We need a different



Feedback Loop




```
<?php declare(strict_types=1);  
use PHPUnit\Framework\TestCase;  
  
final class EmailTest extends TestCase  
{
```


}


```
<?php declare(strict_types=1);  
use PHPUnit\Framework\TestCase;  
  
final class EmailTest extends TestCase  
{  
    public function testCanBeCreatedFromValidEmail(): void  
    {  
        $string = 'user@example.com';  
  
        $email = Email::fromString($string);  
  
    }  
}
```



```
<?php declare(strict_types=1);  
use PHPUnit\Framework\TestCase;  
  
final class EmailTest extends TestCase  
{  
    public function testCanBeCreatedFromValidEmail(): void  
    {  
        $string = 'user@example.com';  
  
        $email = Email::fromString($string);  
  
        $this->assertSame($string, $email->asString());  
    }  
}
```



```
<?php declare(strict_types=1);
use PHPUnit\Framework\TestCase;

final class EmailTest extends TestCase
{
    public function testCanBeCreatedFromValidEmail(): void
    {
        $string = 'user@example.com';

        $email = Email::fromString($string);

        $this->assertSame($string, $email->asString());
    }

    public function testCannotBeCreatedFromInvalidEmail(): void
    {
        $this->expectException(InvalidArgumentException::class);

        Email::fromString('invalid');
    }
}
```



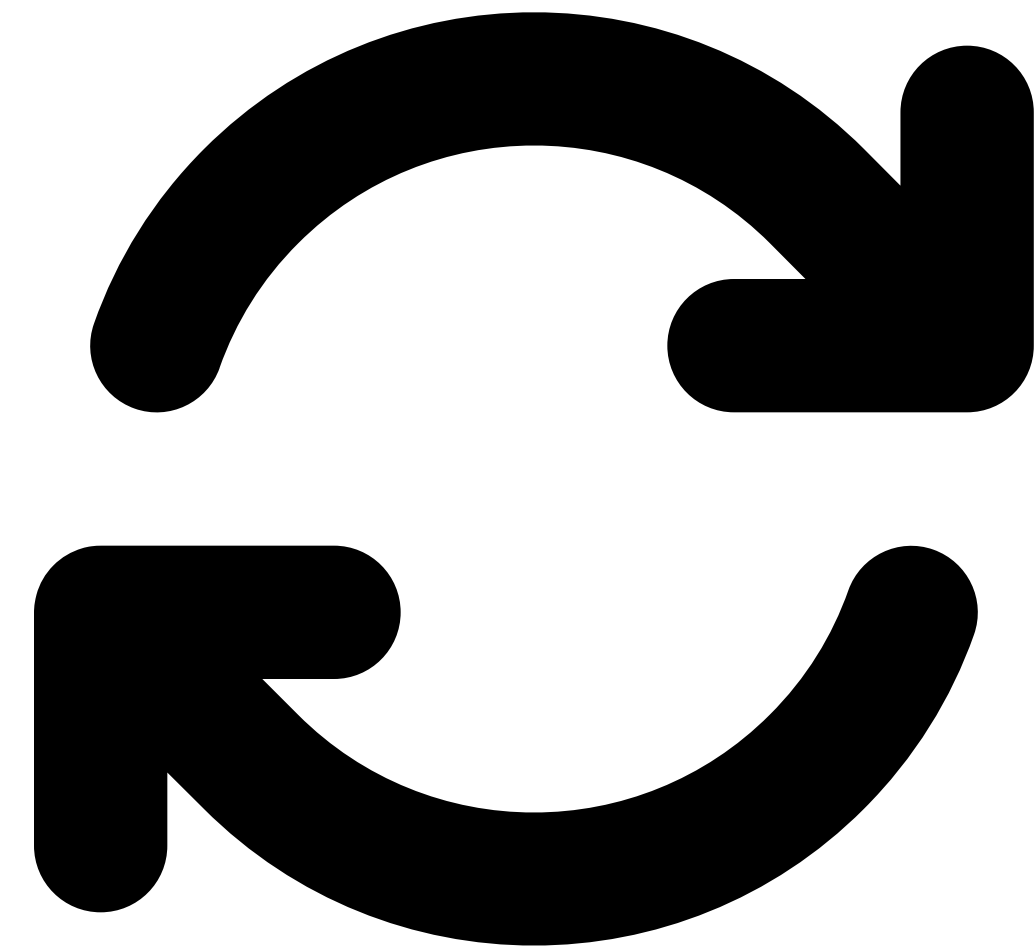
```
> ./vendor/bin/phpunit --testdox --colors --no-progress  
PHPUnit 11.1.3 by Sebastian Bergmann and contributors.
```

```
Runtime:      PHP 8.3.7  
Configuration: /tmp/example/phpunit.xml
```

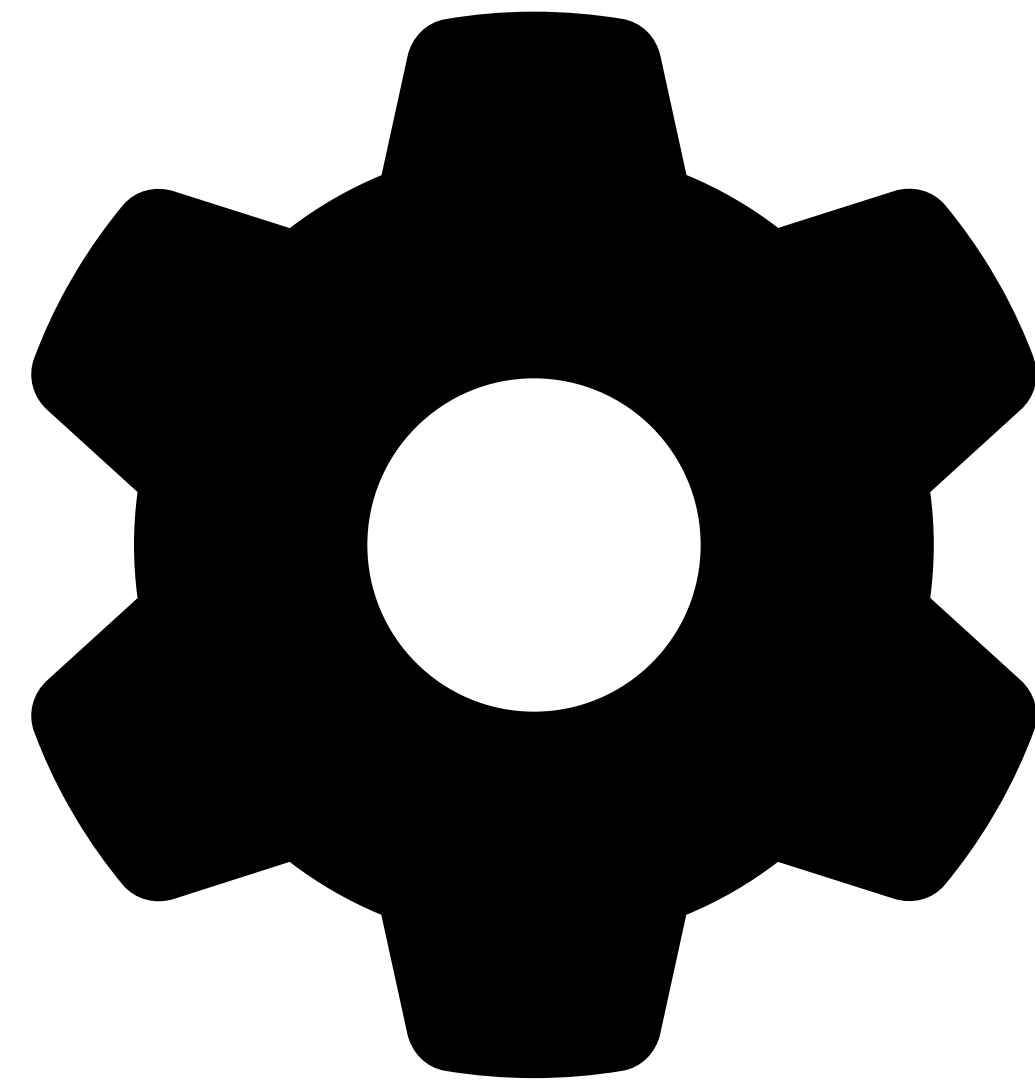
```
Time: 00:00.002, Memory: 8.00 MB
```

Email

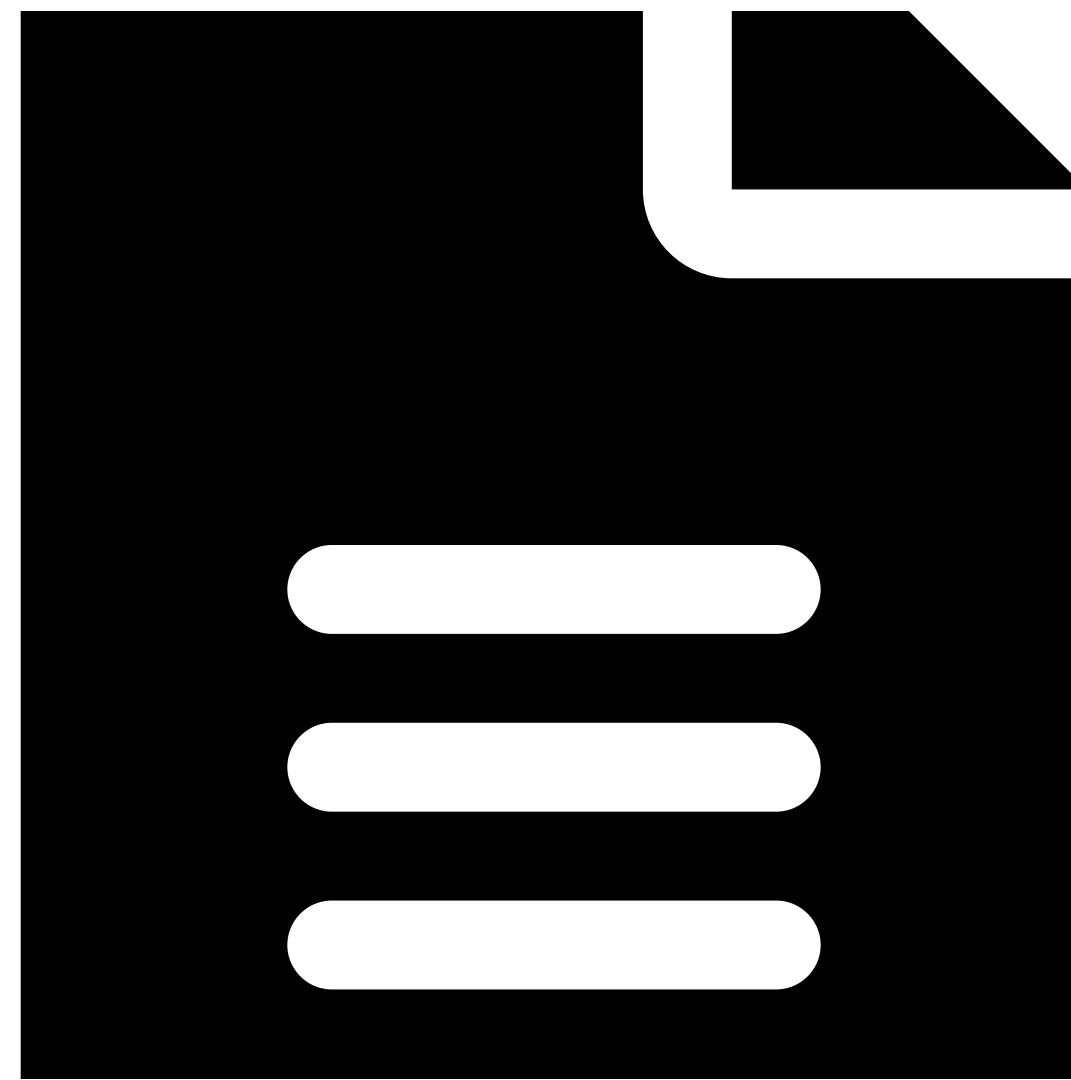
- ✓ Can be created from valid email
- ✓ Cannot be created from invalid email



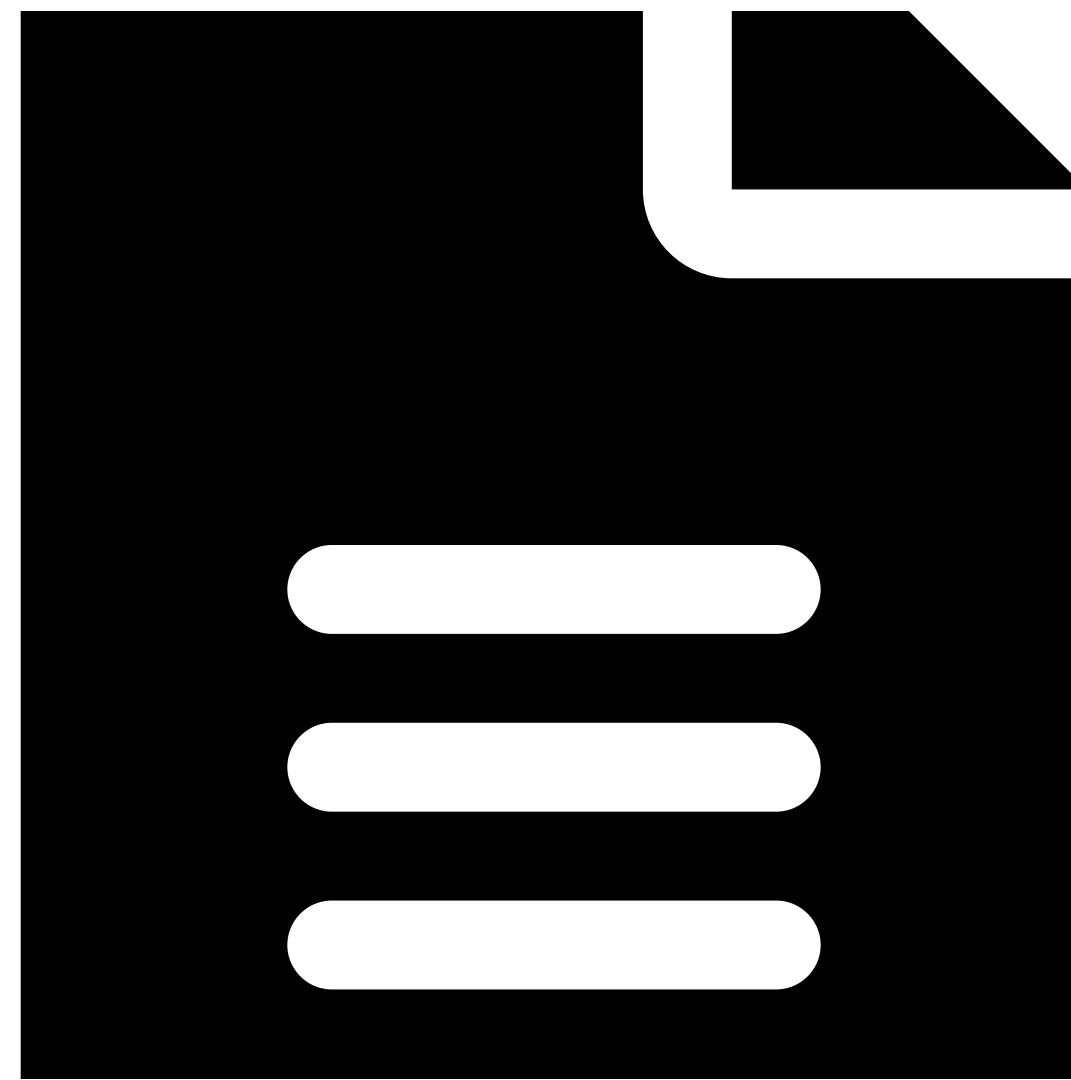
Feedback Loop



Verification through execution



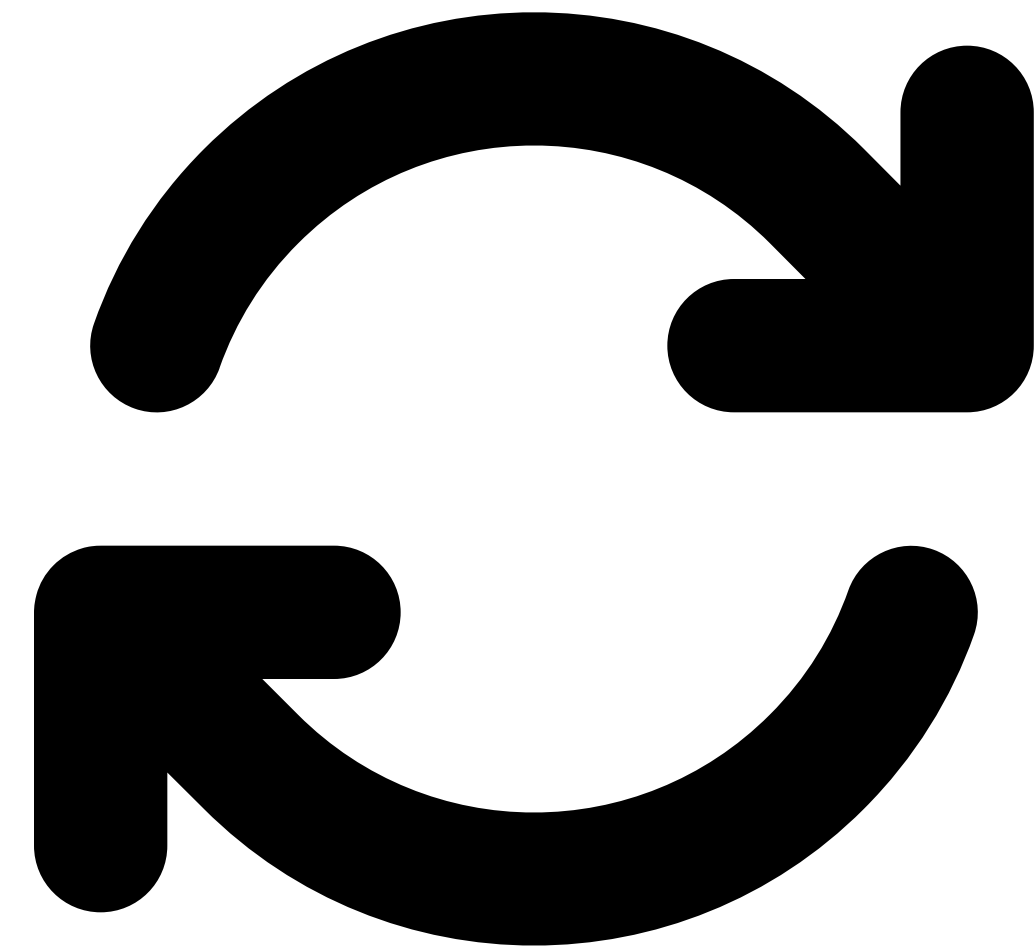
Executable documentation



Executable specification

„The primary task of a developer is not the writing of code but to understand a problem. The writing of tests helps to understand a problem step by step. The tests do not drive the development as an end in itself. They drive the development to trigger the required thought processes.“

<https://thephp.cc/articles/testing-keeps-me-from-getting-things-done>



Feedback Loop

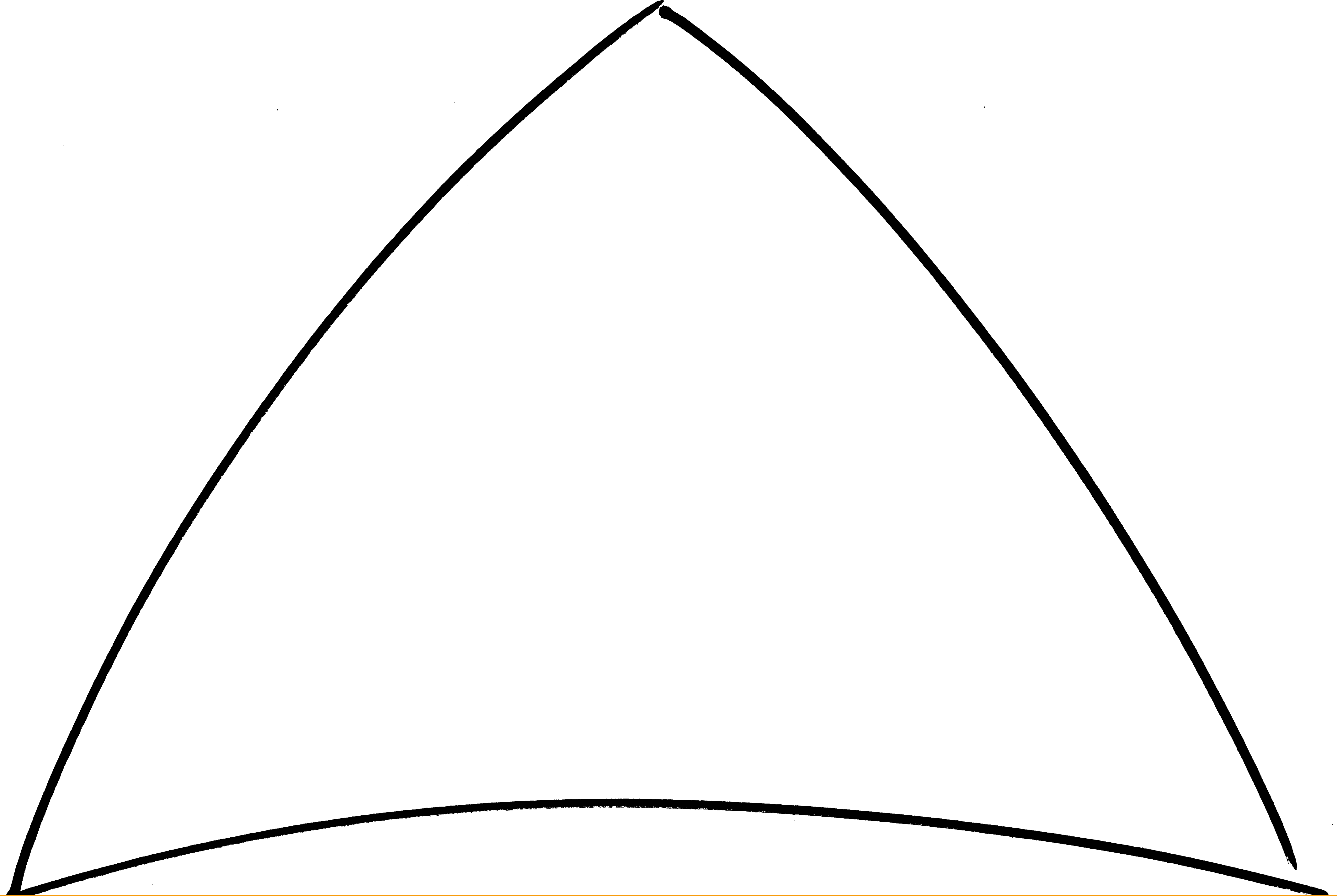
> ./vendor/bin/phpunit --filter testCheapestPriceSorting --testdox --colors --no-progress
PHPUnit 10.5.20 by Sebastian Bergmann and contributors.

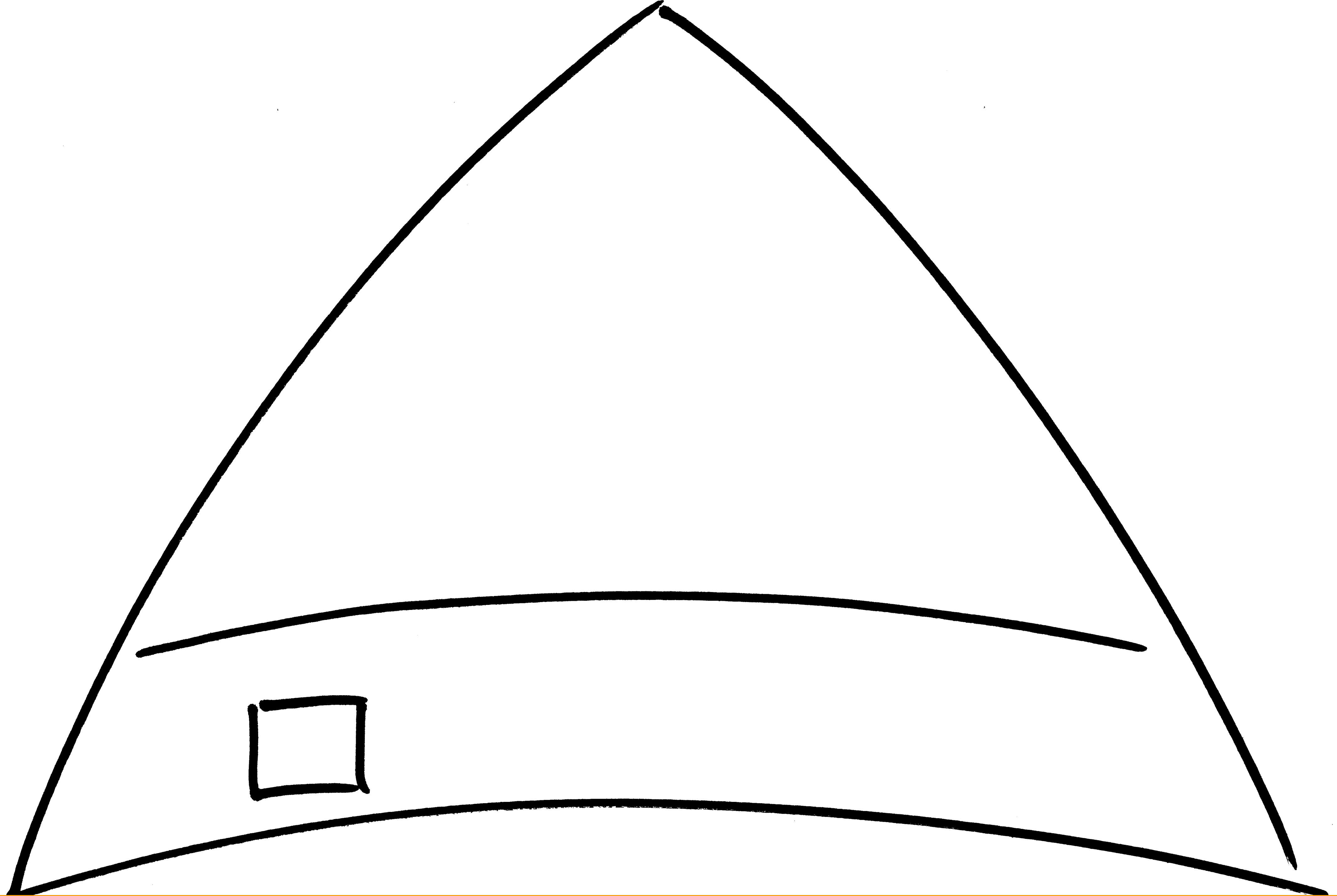
Runtime: PHP 8.3.7
Configuration: /tmp/shopware/phpunit.xml.dist
Random Seed: 1714654051

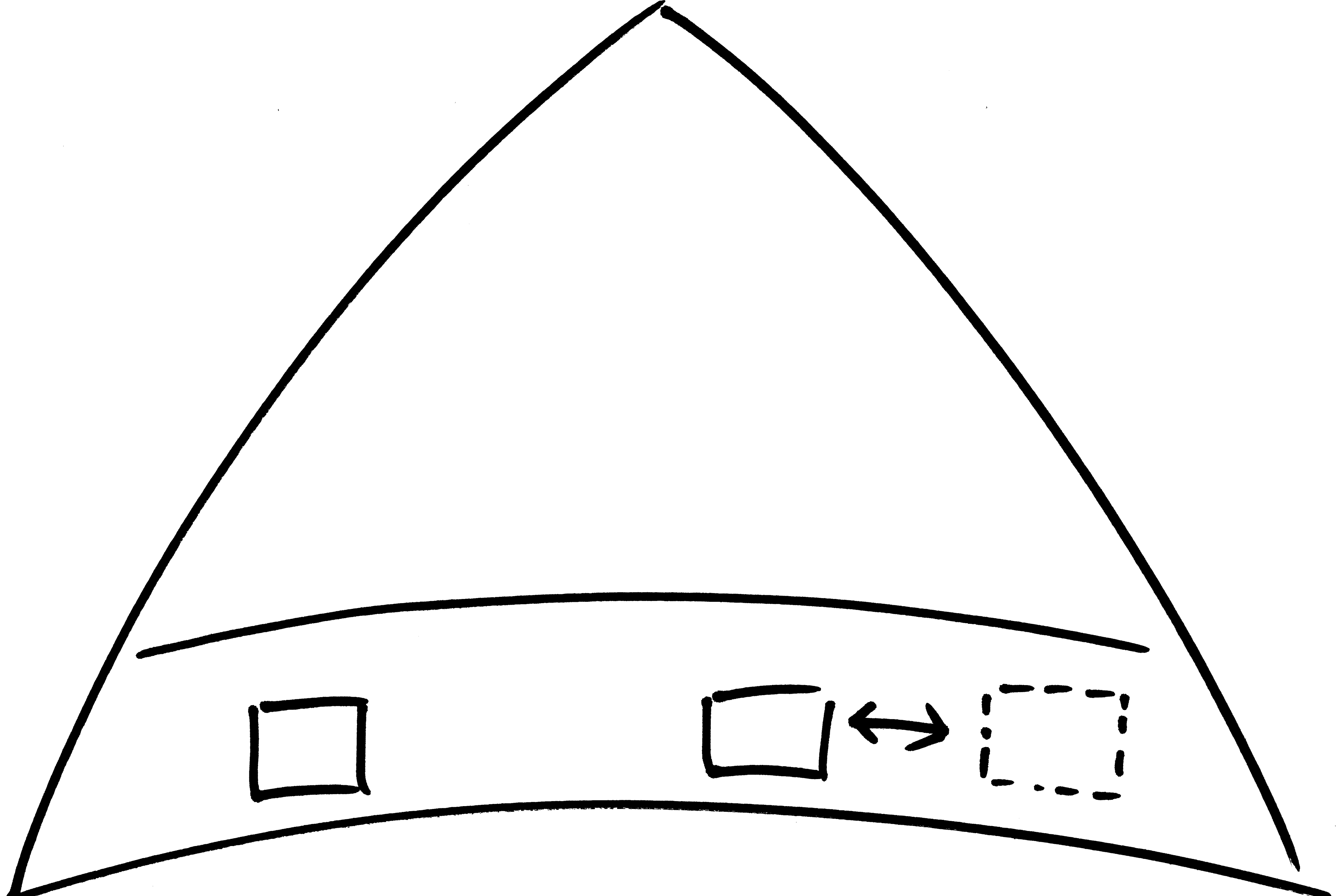
Time: 00:01.990, Memory: 128.50 MB

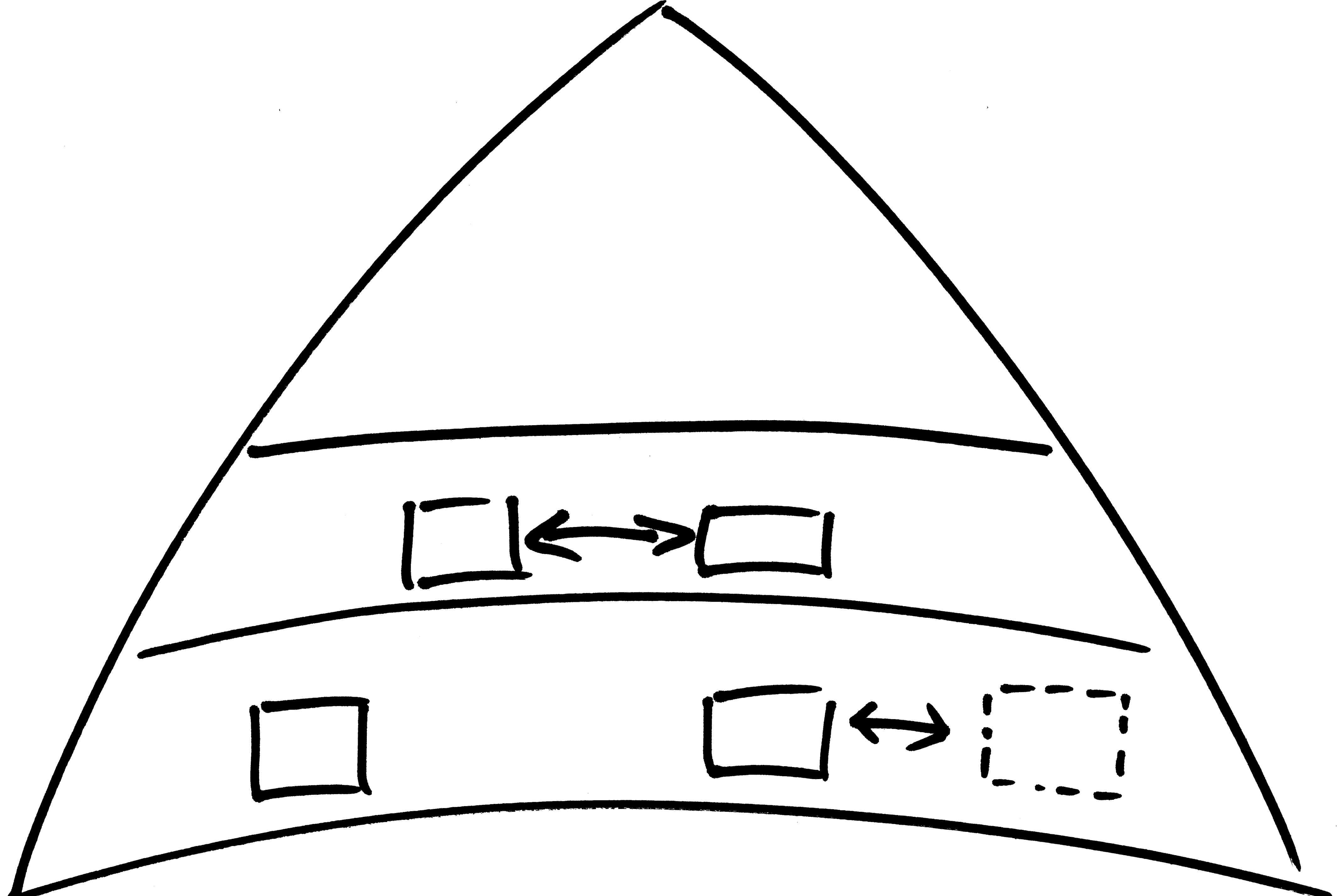
Criteria Parser (Shopware\Tests\Unit\Elasticsearch\Framework\DataAbstractionLayer\CriteriaParser)

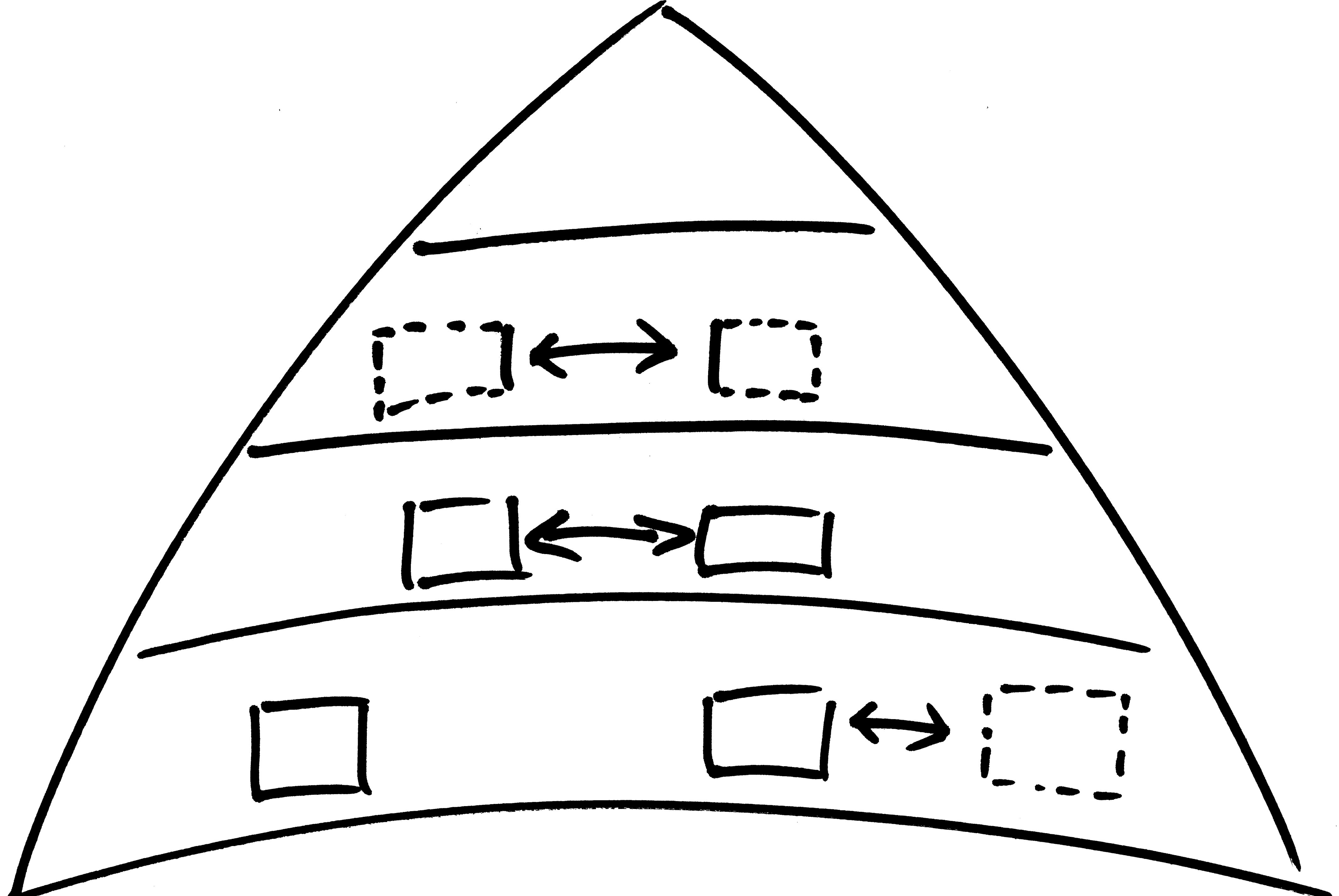
- ✓ Cheapest price sorting with different.currency.cheapest.price/list.price.percentage
- ✓ Cheapest price sorting with default.cheapest.price:.rounding.with.3.decimals
- ✓ Cheapest price sorting with default.cheapest.price
- ✓ Cheapest price sorting with default.cheapest.price:.net.rounding.disabled
- ✓ Cheapest price sorting with different.currency.cheapest.price
- ✓ Cheapest price sorting with default.cheapest.price/list.price.percentage
- ✓ Cheapest price sorting source exists with default.cheapest.price:.rounding.with.3.decimals
- ✓ Cheapest price sorting source exists with default.cheapest.price:.net.rounding.disabled
- ✓ Cheapest price sorting source exists with different.currency.cheapest.price/list.price.percentage
- ✓ Cheapest price sorting source exists with default.cheapest.price
- ✓ Cheapest price sorting source exists with default.cheapest.price/list.price.percentage
- ✓ Cheapest price sorting source exists with different.currency.cheapest.price

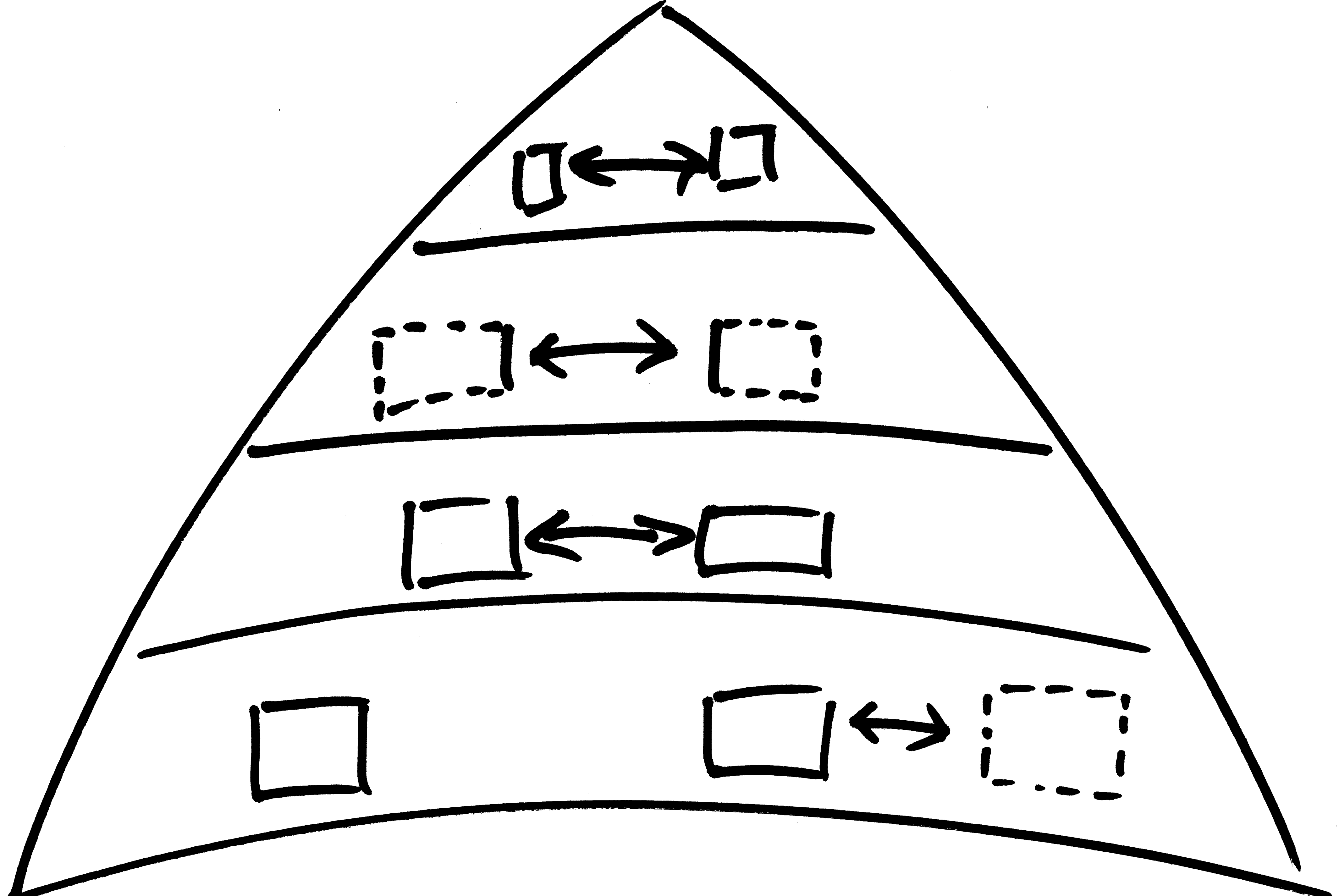














Tester's Corner

Monthly. Interactive. All things testing.





Tester's Corner

June 6, 2024: "Testen von Zufall und Zeit"



Thank you!



<https://thePHP.cc/>



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