

# THE GOLDEN AGE *of* CONTINUOUS INTEGRATION

FLORIAN ECKERSTORFER

PHP developers for 17 years

paid for 8 years @ ALPINRESORTS.com

Starting next week

Frontend Developer @ Kiweno

<https://florian.ec>

@Florian\_

@Florian\_ <https://florian.ec>

# **WHAT *is* CONTINUOUS INTEGRATION?**

**COMMIT & PUSH  
SEVERAL TIMES *a* DAY**

**INTEGRATE CODE *from ALL***  
**DEVELOPERS CONTINUOUSLY**  
*into MAIN LINE*

(this was not common practice in the early 90s)

# **WHAT HAPPENS *to* YOUR CODE AFTER PUSH**

TESTS



CODE STYLE



CODE REVIEW



DEPLOY



**WE NEED TOOL  
SUPPORT *for* THIS**

# Jenkins

Jenkins 01 Members Web All Generic E2E Build and Deploy

ENABLE AUTO REFRESH

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[Storable configs](#)

[Job Config History](#)

[Set Next Build Number](#)

## Build History [\(trend\)](#)

#3 [04-Dec-2012 12:29:39](#)

#2 [04-Dec-2012 12:13:30](#)

#1 [04-Dec-2012 11:45:27](#)

[RSS for all](#) [RSS for failures](#)

## Project 01 Members Web All Generic E2E Build and Deploy

Job	S	W	Last Success	Last Failure	Last Duration	Console
<a href="#">01 Members Web All Generic E2E Build and Deploy</a>					9 min 53 sec	
<a href="#">Members Web (Members) Build</a>						
<a href="#">Members Web Generic E2E Build</a>					10 sec	
<a href="#">Members Web (LP) build</a>						
<a href="#">Members Web Generic E2E Build</a>					10 sec	
<a href="#">Members Web (BalanceTransferWS) Build</a>						
<a href="#">Members Web Generic E2E Build</a>					10 sec	
<a href="#">Members Web Deploy</a>						
<a href="#">Members Web Publish and Deploy</a>					6 min 43 sec	

Icon: [S](#) [M](#) [L](#)

Legend [RSS for all](#) [RSS for failures](#) [RSS for just latest builds](#)



[Workspace](#)



[Recent Changes](#)

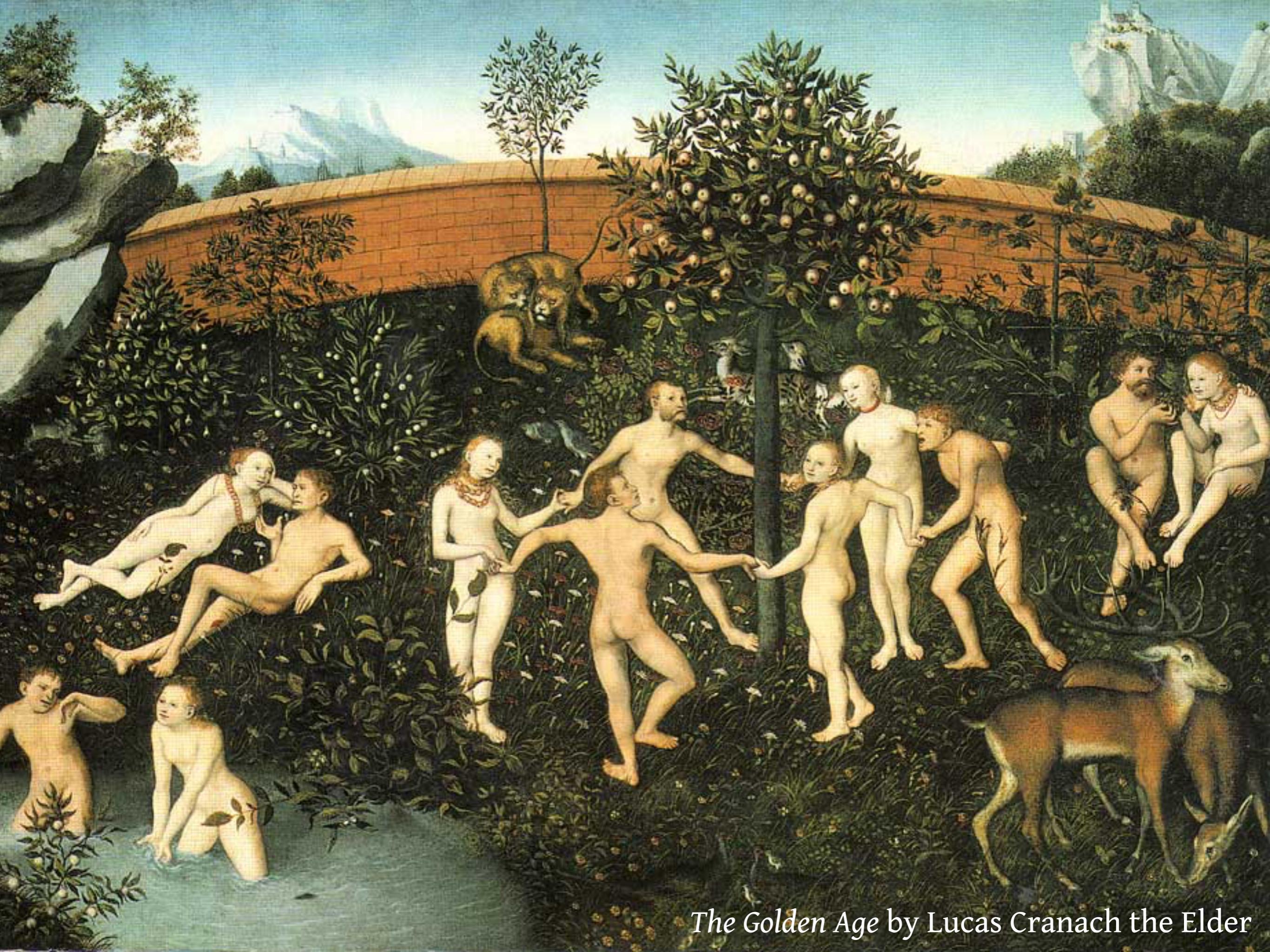
## Downstream Projects

- [Members Web Generic E2E Build](#)
- [Members Web Publish and Deploy](#)

## Permalinks



# THE GOLDEN AGE?



*The Golden Age* by Lucas Cranach the Elder

 florianeckerstorfer added some commits 31 minutes ago

-  Fix code style
-  Fix code style
-  Improve PHPDoc

 d475b12  
 e42c281  
 cad74ef

## Notifications

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## 1 participant

### Labels

[in progress](#)

### Milestone

No milestone

### Assignee

No one—assign yourself

### Notifications

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 [Lock conversation](#)



### All checks have passed

4 successful checks

[Hide all checks](#)

  Scrutinizer — 3 updated code elements

[Details](#)

  StyleCI — The StyleCI analysis has passed

[Details](#)

  continuous-integration/appveyor/pr — AppVeyor build succeeded

[Details](#)

  continuous-integration/travis-ci/pr — The Travis CI build passed

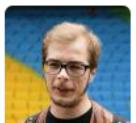
[Details](#)

### This branch has no conflicts with the base branch

Merging can be performed automatically.

 [Merge pull request](#)

You can also [open this in GitHub Desktop](#) or view [command line instructions](#).



[Write](#)

[Preview](#)

AA<sup>v</sup> B i “ <> ↻ ≡ ≡ ≡ @ ★

Leave a comment

Attach files by dragging & dropping, [selecting them](#), or pasting from the clipboard.

# EXAMPLE

# Add NumberFormatConverter #21

[Edit](#)[Open](#)florianeckerstorfer wants to merge 1 commit into [plumphp:master](#) from [florianeckerstorfer:number-format-converter](#)

Conversation 0

Commits 1

Files changed 2

+108 -0



florianeckerstorfer commented 42 seconds ago

Plum member

*No description provided.*

Add NumberFormatConverter

X 1291387

florianeckerstorfer added the [in progress](#) label 37 seconds ago

Labels

[in progress](#)

Milestone

No milestone



Assignee

No one—assign yourself



Notifications

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1 participant

Labels

[in progress](#)

Milestone

No milestone



Assignee

No one—assign yourself



Notifications

Add more commits by pushing to the [number-format-converter](#) branch on [florianeckerstorfer/plum](#).**Some checks haven't completed yet**

1 failing and 3 pending checks

[Hide all checks](#)**C** **X StyleCI** — The StyleCI analysis has failed - 2 files need addressing[Details](#)**S** **Scrutinizer** — Running[Details](#)**continuous-integration/appveyor/pr** — Waiting for AppVeyor build to complete[Details](#)**continuous-integration/travis-ci/pr** — The Travis CI build is in progress[Details](#)**This branch has no conflicts with the base branch**

Merging can be performed automatically.

[Merge pull request](#)You can also [open this in GitHub Desktop](#) or view [command line instructions](#).

 Showing **2 changed files** with **1 additions** and **3 deletions**.

src/Converter/NumberFormatConverter.php

```
* For the full copyright and license information, please view the LICENSE
* file that was distributed with this source code.
*/
```

```
- namespace Plum\Plum\Converter;
```

```
/**
```

tests/Converter/NumberFormatConverterTest.php

```
* For the full copyright and license information, please view the LICENSE
* file that was distributed with this source code.
*/
```

```
- namespace Plum\Plum\Converter;
```

```
use PHPUnit_Framework_TestCase;
```

```
    $this->assertEquals('42', $converter->convert(42.42));
}
```

```
-
```

```
+
```

```
/**
 * @test
 * @covers Plum\Plum\Converter\NumberFormatConverter::convert()
```

florianeckerstorfer commented 3 minutes ago

Plum member



No description provided.

– Add NumberFormatConverter

✗ 1291387

🏷️ florianeckerstorfer added the **in progress** label 3 minutes ago

⬆️ florianeckerstorfer added some commits a minute ago

– Fix code style

✗ d475b12

– Fix code style

● e42c281

Add more commits by pushing to the **number-format-converter** branch on **florianeckerstorfer/plum**.



### Some checks haven't completed yet

3 pending and 1 successful checks

[Hide all checks](#)



● Scrutinizer — Created

[Details](#)



● continuous-integration/appveyor/pr — Waiting for AppVeyor build to complete

[Details](#)



● continuous-integration/travis-ci/pr — The Travis CI build is in progress

[Details](#)



✓ StyleCI — The StyleCI analysis has passed

[Details](#)



### This branch has no conflicts with the base branch

Merging can be performed automatically.

**Merge pull request**

You can also [open this in GitHub Desktop](#) or view [command line instructions](#).

Labels

**in progress**



Milestone



No milestone

Assignee



No one—assign yourself

Notifications

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Labels

**in progress**



Milestone



No milestone

Assignee



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Notifications

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◦◦ Pull Request #21 Add NumberFormatConverter

⌚ #127 started



Commit e5985f1

⌚ Elapsed time 1 min 56 sec

#21: Add NumberFormatConverter

⌚ Running for 1 min 56 sec

 Florian Eckerstorfer authored and committed

27 -

## Build Jobs

✓ # 127.1	 PHP: 5.5	no environment variables set	⌚ 1 min 9 sec
✓ # 127.2	 PHP: 5.6	no environment variables set	⌚ 1 min 16 sec
✓ # 127.3	 PHP: 5.6	COMPOSER_FLAGS='--prefer-lowest --prefer-st	⌚ 1 min 20 sec
◦◦ # 127.5	 PHP: hhvm	no environment variables set	⌚ 35 sec

## Allowed Failures

◦◦ # 127.4	 PHP: 7	no environment variables set	⌚ 56 sec
◦◦ # 127.6	 PHP: nightly	no environment variables set	⌚ 3 sec

# Add NumberFormatConverter #21

[Edit](#)[Open](#)florianeckerstorfer wants to merge 3 commits into `plumphp:master` from `florianeckerstorfer:number-format-converter`[Conversation 0](#)[- Commits 3](#)[Files changed 2](#)[+106 -0](#)

florianeckerstorfer commented 17 minutes ago

Plum member

*No description provided.*[- Add NumberFormatConverter](#)[X 1291387](#)[🏷️ florianeckerstorfer added the \*\*in progress\*\* label 17 minutes ago](#)[⬆️ florianeckerstorfer added some commits 15 minutes ago](#)[- Fix code style](#)[X d475b12](#)[- Fix code style](#)[✓ e42c281](#)Add more commits by pushing to the `number-format-converter` branch on [florianeckerstorfer/plum](#).**All checks have passed**

4 successful checks

[Show all checks](#)**This branch has no conflicts with the base branch**

Merging can be performed automatically.

[Merge pull request](#)You can also [open this in GitHub Desktop](#) or view [command line instructions](#).**Labels**[in progress](#)**Milestone**

No milestone

**Assignee**

No one—assign yourself

**Notifications**[✖️ Unsubscribe](#)

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**1 participant****Milestone**

No milestone

**Assignee**

No one—assign yourself

**Notifications**[✖️ Unsubscribe](#)

 florianeckerstorfer added some commits 17 minutes ago

 Fix code style

 d475b12

 Fix code style

 e42c281

Add more commits by pushing to the **number-format-converter** branch on **florianeckerstorfer/plum**.



### All checks have passed

4 successful checks

[Hide all checks](#)



 Scrutinizer — 1 new issues, 3 updated code elements

[Details](#)



 StyleCI — The StyleCI analysis has passed

[Details](#)



 continuous-integration/appveyor/pr — AppVeyor build succeeded

[Details](#)



 continuous-integration/travis-ci/pr — The Travis CI build passed

[Details](#)



### This branch has no conflicts with the base branch

Merging can be performed automatically.

 Merge pull request

You can also [open this in GitHub Desktop](#) or view [command line instructions](#).

Notifications

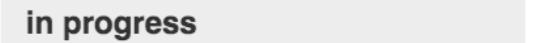
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1 participant

Labels



 in progress

Milestone



No milestone

Assignee



No one—assign yourself

Notifications

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 Lock conversation



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 Styling with Markdown is supported

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 plumphp / plum[Schedule Inspection](#)[Unsubscribe ▾](#)

Completed

Pull Request — #21

 passed — Build

created 20 minutes ago

[Summary](#)[Issues 1](#)[Code](#)[Patches 3](#)[Log](#)[All Issues](#)[New 1](#)

Labels

[Documentation](#)

1

Severity

[Informational](#)

1

Introduced By

 Florian Eckerstorfer

1

## NumberFormatConverter.php (1 issue)

[Issues](#) [Code Coverage](#)

Code ▾

```
1 +<?php
52 /**
53 * @param mixed $item
54 *
55 * @return mixed
```

 Documentation introduced 20 minutes ago by  ⓘ

Consider making the return type a bit more specific; maybe use [string](#).

```
56 */
57 public function convert($item)
58 {
59     return number_format($item, $this->decimals, $this->decimalPoint, $this->thousandsSep
60 }
61 }
62 }
```

 plumphp / plum[Schedule Inspection](#)[Unsubscribe ▾](#)

Completed

Pull Request – #21

 passed – Build

created 22 minutes ago

[Summary](#)[Issues 1](#)[Code](#)[Patches 3](#)[Log](#)

Status

[Toggle Patches](#)[All Patches 3](#)[New 1](#)

Category

[Doc Comments 2](#)[Unused Use Statements 1](#)

src/Workflow.php

1 patch

[Unused Use Statements +1 added lines, -1 removed lines](#)

src/Writer/WriterInterface.php

1 patch

[Doc Comments +3 added lines](#)

src/Converter/NumberFormatConverter.php

1 patch

[Doc Comments +1 added lines, -1 removed lines](#)

```
@@ -53,7 +53,7 @@
53 53     /**
54 54     * @param mixed $item
55 55     *
56 56     * @return mixed
57 57     */
58 58     public function convert($item)
59 59 {
```

[Discard](#)[Add Patch](#)

-  Add NumberFormatConverter ✖ 1291387
  -  **florianeckerstorfer** added the **in progress** label 32 minutes ago
  -  **florianeckerstorfer** added some commits 31 minutes ago
    -  Fix code style ✖ d475b12
    -  Fix code style ✓ e42c281
    -  Improve PHPDoc ✓ cad74ef

Add more commits by pushing to the `number-format-converter` branch on [florianeckerstorfer/plum](#).

A screenshot of a GitHub pull request status bar. At the top left is a green circular icon with a white checkmark and a gear symbol. To its right, the text "All checks have passed" is displayed in bold black font, followed by "4 successful checks". In the top right corner is a blue link labeled "Hide all checks". Below this, there are four individual check results, each with a colored icon (Scrutinizer: grey S, StyleCI: red CI, AppVeyor: blue 9, Travis CI: orange hardhat), a green checkmark, the check name in bold, and a brief description. Each result has a blue "Details" link to its right. A large green circle with a white checkmark is centered below these results. To its right, the text "This branch has no conflicts with the base branch" is displayed in bold black font, followed by the subtext "Merging can be performed automatically." At the bottom left is a green button with a white icon and the text "Merge pull request". To its right, a message says "You can also open this in GitHub Desktop or view command line instructions."



Leave a comment

Milestone



### No milestone

**Assignee**



No one—assign yourself

## Notifications

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## 1 participant

## Labels



in progress

Milestone



### No milestone

### **Assignee**



### No one—assign yourself

## Notifications

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## 1 participant



## Lock conversation

# GENERAL CI

Virtual Machine

Configure environment

Build your project

Run tests, deploy, ...

**Travis CI**  
(Linux, OS X)

**AppVeyor CI**  
(Windows)

**Circle CI**  
(Linux, OS X)

**Codeship**  
(Linux, Docker)

# CODE COVERAGE

**Scrutinizer**  
(PHP, Python, Ruby)

**Coveralls**  
(Ruby, Python, PHP, Node, C/C++, Scala)

**Codecov**  
(PHP, JS, Python, Java, Ruby, ...)

# DEPENDENCIES

**VersionEye**  
(NPM, Bower, Packagist, RubyGems, ...)

**Greenkeeper**  
(NPM)

# REQUIREMENTS

GitHub

some Bitbucket, Gitlab

Pull Requests

# ADVANTAGES

No server maintenance

Virtual Machines

Price

Free for Open Source (most)

# DISADVANTAGES

Not on your server

No control over infrastructure

Security

Price

# SELF HOSTED?

Bamboo (Atlassian)

GitLab CI

# WANT TO TRY OUT?

# START OPEN SOURCE PROJECT

<https://github.com/plumphp/plum>

<https://github.com/symfony/symfony>

<https://github.com/dthree/cash>

<https://github.com/AFNetworking/AFNetworking>

**DO YOU HAVE ANY  
QUESTIONS?  
*or* FEEDBACK?**

Check Mark by Cole Townsend from the Noun Project