Zend_Filter_Boolean - Thomas Weidner

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Zend Framework: Zend_Filter_Boolean Component Proposal

Proposed Component Name	Zend_Filter_Boolean
Developer Notes	http://framework.zend.com/wiki/display/ZFDEV/Zend_Filter_Boolean
Proposers	Thomas Weidner
Zend Liaison	TBD
Revision	1.0 - 12 April 2009: Initial Draft. (wiki revision: 9)

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1. Overview

Zend_Filter_Boolean is a additional filter which allows to filter boolean words, also localized once, to a boolean value.

2. References

- Zend_Filter
- Zend_Locale

3. Component Requirements, Constraints, and Acceptance Criteria

- This component **will** convert given values to a boolean
- This component **will** allow the usage of localized yes/no strings
- This component **will** allow to usage of "yes" or "no"

4. Dependencies on Other Framework Components

- Zend_Exception
- Zend_Filter
- Zend_Locale

5. Theory of Operation

This filter will convert given input to boolean. This will not only cast values to boolean, but also allow to use string representations like "yes" or "no" as also their localized represenation like "Ja" or "Si" and have them returned as boolean to work with them for example within a database.

6. Milestones / Tasks

- Milestone 1: [DONE] Proposal finished
- Milestone 2: [DONE] Proposal accepted
- Milestone 3: [DONE] Working implementation
- Milestone 4: [DONE] Unit tests
- Milestone 5: [DONE] Documentation
- Milestone 6: [DONE] Moved to core

7. Class Index

- Zend_Filter_Boolean

8. Use Cases

UC-01

working with different types

```
$filter = new Zend_Filter_Boolean();

$filtered = $filter->filter(false); // returns false
$filtered = $filter->filter(true); // returns true

$filtered = $filter->filter(0); // returns false
$filtered = $filter->filter(1); // returns true

$filtered = $filter->filter(-1); // returns false
$filtered = $filter->filter(200); // returns true

$filtered = $filter->filter('yes'); // returns true
$filtered = $filter->filter('no'); // returns false
$filtered = $filter->filter('YES'); // returns true
```

UC-02

Localized recognition, note that english is always recognised

```
$filter = new Zend_Filter_Boolean('de');

$filtered = $filter->filter('Ja'); // returns true
$filtered = $filter->filter('Nein'); // returns false
```

UC-03

Localized recognition by setting the locale afterwards

```
$filter = new Zend_Filter_Boolean();
$filter->setLocale('de');

$filtered = $filter->filter('Ja'); // returns true
$filtered = $filter->filter('Nein'); // returns false
```

9. Class Skeletons

```
class Zend_Filter_Boolean extends Zend_Filter_Interface {}
{
    /**
     * @param $locale string|Zend_Locale (Optional) Locale to use
     */
    public function __construct($locale = null)

    /**
     * @param $locale string|Zend_Locale (Optional) Locale to use
     * @return Zend_Filter_Boolean
     */
    public function setLocale($locale = null)

    /**
     * @return string
     */
    public function getLocale()

    /**
     * @param $value  mixed              Value to filter
     * @param $locale string|Zend_Locale (Optional) Locale to use
     * @return Zend_Filter_Boolean
     */
    public function filter($value, $locale = null)

}
```

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