
livingmarkup

Feb 05, 2021

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LivingMarkup is an PHP implementation of a LHTML parser.

It is a powerful and flexible way to build dynamic web pages.

```
<?php
use LivingMarkup\Factory\ProcessorFactory;

$processor = ProcessorFactory::getInstance();

$processor->addElement([
    'xpath' => '//partial',
    'class_name' => 'Partial\{name}'
]);

$processor->addRoutine([
    'method' => 'onRender',
    'execute' => 'RETURN_CALL'
]);

$processor->parseBuffer();
?>
<html lang="en">
<partial name="Alert" type="success">
    This is a success alert.
</partial>
</html>
```


CHAPTER 1

Installation

Get an instance of LivingMarkup up and running in less than 5 minutes.

LivingMarkup is available on Packagist.

Install with Composer:

```
composer require ouxsoft/livingmarkup
```

That's it. You're done! Please take the rest of the time to read our docs.

CHAPTER 2

Contribute

- Issue Tracker: <https://github.com/ouxsoft/LivingMarkup/issues>
- Source Code: <https://github.com/ouxsoft/LivingMarkup>

3.1 Routines

Routines are methods that are automatically called by the processor during run time.

During a routine call all instantiated elements featuring the routine's method are called.

3.1.1 Prefix

It is recommended to establish a naming convention for routines that distinguish them from other methods.

Often packages choose to prefix Routine methods with the word `before`, `on`, or `after` followed by an explanation of the stage of execute.

For example:

Parameter	Comments
<code>beforeLoad</code>	Execute before object data load
<code>onLoad</code>	Execute during object data load
<code>afterLoad</code>	Execute after object data loaded
<code>beforeRender</code>	Execute before object render
<code>onRender</code>	Execute during object render
<code>afterRender</code>	Execute after object rendered

3.2 Elements

Elements are the working bees of LivingMarkup.

Elements are objects that process `DOMElements`.

Much of how an `DOMElement` is processed is determined by their class.

During the object's construction, the element receives arguments that were found in both the `DOMElement`'s attributes and child `arg` `DOMElements` from `Engine`.

3.2.1 Element Development

New elements are easy to make. Simply create a class that extends the abstract class `\LivingMarkup\Element\AbstractElement`.

Make sure to add it to the `Configuration` to active the element.

Example

The basic syntax of a element class is shown below.

```
<?php
namespace LivingMarkup\Elements;

class HelloWorld extends \LivingMarkup\Element
{
    public function onRender()
    {
        return 'Hello, World';
    }
}
```

3.3 Configuration

The `Configuration` class is responsible for the instructions that explain to the `Builder` how to build the LHTML Document. These instructions can be set by modifying the config file that is loaded.

3.3.1 Config File

Configurations can be loaded from a file or created using an object. Below is an example of a config file.

Example

```
{
  "version": 3,
  "elements": [
    {
      "xpath": "//bitwise",
      "class_name": "LivingMarkup\\Test\\Bitwise"
    }
  ],
  "routines": [
    {
      "method": "beforeLoad",
      "description": "Execute before object data is loaded"
    }
  ],
}
```

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```
{
  "method": "onLoad",
  "description": "Execute when object data is loading"
},
{
  "method": "afterLoad",
  "description": "Execute after object data is loaded"
},
{
  "method": "beforeRender",
  "description": "Execute before object is rendered"
},
{
  "method": "onRender",
  "description": "Execute while object is rendering",
  "execute": "RETURN_CALL"
},
{
  "method": "afterRender",
  "description": "Execute after object is rendered"
}
]
```

Autoloading

If a config file has been specified during construction, it will be loaded.

If a config file has not been specified the Configuration class tries to load a config.json file if present.

If the config.json is not present, the Configuration will try

to load the | packaged config config.dist.json file.

Parameters

Parameter	Comments
version	Indicates the file structure to the <code>Configuration</code> for stability purposes.
elements	An array containing the types of elements to load at runtime. Each type contains contain an array with a name, a <code>class_name</code> , and a <code>xpath</code> expression.
element:*	Defines what the elements is named.
element:*	Specifies exactly how find <code>DOMElements</code> to initialize as elements. <code>Xpath</code> expressions are a powerful syntax for searching within a the <code>Document</code> for <code>DOMElements</code> .
element:*	Specifies which class to instantiate the <code>DOMElement</code> as. The <code>class_name</code> provided must refer to a class that extends the abstract <code>Element</code> class. The class name may feature a <code>{name}</code> variable which is automatically populated by the <code>DOMElement</code> 's name attribute during runtime.
routines	An array containing automated method calls that will be made to all <code>Elements</code> during runtime. The order of items in this array determines the order of execution.
routines:*	The exact name of the method being executed.
routines:*	An explanation of what the method is doing that indicates its order.
routines:*	Determines whether the method should be ran differently. Currently, the following commands are supported * <code>RETURN_CALL</code> - The output of the method will replace the <code>DOMElement</code> in the <code>DOMDocument</code> . Is optional
markup:	String containing the actual <code>LHTML</code> that will be parsed by the <code>Builder</code> . This field is typically omitted from the config file and is instead appended to <code>Configuration</code> during runtime, often by the <code>Autoloader</code> .

3.4 Security

3.4.1 Escaping HTML and XSS

It is the responsibility of the library client to escape `HTML` to avoid `XSS`. This library itself will not alter its input.

3.4.2 Disable Entity Loader

You may want to choose to disable external entities.

```
libxml_disable_entity_loader(true);
```

For more information, see [PHP Security Injection Attacks](#)