

HTML Generator Library Documentation

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Introduction

The HtmlGenerator class is a PHP class designed to facilitate the creation and management of HTML content. This class provides methods for generating various HTML elements and allows for method chaining to build complex HTML structures efficiently.

Class Overview

Constructor

- `__construct()`: Initializes a new HTML document.

Methods

The methods in the GeneratorHTML class are grouped by the type of HTML elements they create and manage.

Document Structure

- `addHead(array $attributes = [])`: Adds a `<head>` element with optional attributes.
- `closeHead()`: Closes the `<head>` element.
- `addBody(array $attributes = [])`: Adds a `<body>` element with optional attributes.
- `closeBody()`: Closes the `<body>` element.
- `endHTML()`: Closes the HTML document.
- `getHTML()`: Returns the generated HTML as a string.
- `outputHtml($filename)`: Saves the generated HTML to a file.

Metadata

- `addTitle($text, array $attributes = [])`: Adds a `<title>` element with optional attributes.
- `closeTitle()`: Closes the `<title>` element.

Text Elements

- `addHeader($text, $level = 1, array $attributes = [])`: Adds a header element (`<h1>`, `<h2>`, etc.) with the specified level and optional attributes.
- `closeHeader($level = 1)`: Closes the header element.
- `addParagraph($text, array $attributes = [])`: Adds a `<p>` element with optional attributes.
- `closeParagraph()`: Closes the paragraph element.
- `addLink($url, $text, array $attributes = [])`: Adds an `<a>` element with the specified URL, text, and optional attributes.
- `closeLink()`: Closes the link element.

- `addPreformattedText($text, array $attributes = [])`: Adds a `<pre>` element with optional attributes.
- `closePreformattedText()`: Closes the preformatted text element.
- `addBoldText($text, array $attributes = [])`: Adds a `` element with optional attributes.
- `closeBoldText()`: Closes the bold text element.
- `addItalicText($text, array $attributes = [])`: Adds an `<i>` element with optional attributes.
- `closeItalicText()`: Closes the italic text element.
- `addCode($text, array $attributes = [])`: Adds a `<code>` element with optional attributes.
- `closeCode()`: Closes the code element.
- `addCite($text, array $attributes = [])`: Adds a `<cite>` element with optional attributes.
- `closeCite()`: Closes the cite element.
- `addAddress($text, array $attributes = [])`: Adds an `<address>` element with optional attributes.
- `closeAddress()`: Closes the address element.
- `addEmphasisText($text, array $attributes = [])`: Adds an `` element with optional attributes.
- `closeEmphasisText()`: Closes the emphasis text element.
- `addStrongText($text, array $attributes = [])`: Adds a `` element with optional attributes.
- `closeStrongText()`: Closes the strong text element.
- `addBlockquote($text, array $attributes = [])`: Adds a `<blockquote>` element with optional attributes.
- `closeBlockquote()`: Closes the blockquote element.
- `addSpan($text, array $attributes = [])`: Adds a `` element with optional attributes.
- `closeSpan()`: Closes the span element.
- `addLineBreak()`: Adds a line break (`
`)

Container Elements

- `addDiv($text = "", array $attributes = [])`: Adds a `<div>` element with optional attributes.
- `closeDiv()`: Closes the div element.
- `addAside($content, array $attributes = [])`: Adds an `<aside>` element with optional attributes.
- `closeAside()`: Closes the aside element.
- `addSection($content, array $attributes = [])`: Adds a `<section>` element with optional attributes.
- `closeSection()`: Closes the section element.

- addNav(\$content, array \$attributes = []): Adds a <nav> element with optional attributes.
- closeNav(): Closes the nav element.

List Elements

- addUnorderedList(array \$items = [], array \$attributes = []): Adds an unordered list () with list items.
- addOrderedList(array \$items = [], array \$attributes = [], \$start = null): Adds an ordered list () with list items and optional start attribute.
- addDefinitionList(array \$definitions = [], array \$attributes = []): Adds a definition list (<dl>) with terms and definitions.
- addDefinitionTerm(\$text, array \$attributes = []): Adds a definition term (<dt>) with optional attributes.
- closeDefinitionTerm(): Closes the definition term element.
- addDefinitionDescription(\$text, array \$attributes = []): Adds a definition description (<dd>) with optional attributes.
- closeDefinitionDescription(): Closes the definition description element.

Table Elements

- addTable(array \$attributes = []): Adds a table (<table>) with optional attributes.
- closeTable(): Closes the table element.
- addRow(array \$cells): Adds a table row (<tr>) with table data cells (<td>).

Footer Elements

- addFooter(\$text, array \$attributes = []): Adds a footer (<footer>) with optional attributes.
- closeFooter(): Closes the footer element.

Attribute Guide for HTML Elements

This section provides a list of commonly used attributes for each HTML element supported by the GeneratorHTML class. Attributes are optional and can be passed as an array to each element method.

Document Structure Elements

- `<head>`: Commonly no attributes, but you can use data-* attributes if needed.
- `<body>`: Common attributes include class, id, and style.

Text Elements

- `<h1>` to `<h6>` (Headers): class, id, style.
- `<p>` (Paragraph): class, id, style.
- `<a>` (Anchor/Link): href (mandatory), class, id, title, target.
- `<pre>` (Preformatted Text): class, id, style.
- `` (Bold Text): class, id, style.
- `<i>` (Italic Text): class, id, style.
- `<cite>` (Citation): class, id, style.
- `<address>` (Address): class, id, style.
- `` (Emphasis): class, id, style.
- `` (Strong Importance): class, id, style.
- `<blockquote>` (Blockquote): class, id, cite (for the URL of the quote source), style.
- `` (Span): class, id, style.

Container Elements

- `<div>`: class, id, style.
- `<aside>`: class, id, style.
- `<section>`: class, id, style.
- `<nav>`: class, id, style.

List Elements

- `` (Unordered List), `` (Ordered List): class, id, style, type (for ``), start (for ``).
- `<dl>` (Definition List): class, id, style.
- `<dt>` (Definition Term): class, id, style.
- `<dd>` (Definition Description): class, id, style.

Table Elements

- <table>: class, id, style, border, cellpadding, cellspacing.
- <tr> (Table Row): class, id, style.
- <td> (Table Data): class, id, style, colspan, rowspan.

Footer Elements

- <footer>: class, id, style.

Example Usage:

- **Instantiating:**
`$generator = new GeneratorHTML();`
`$generator`
- **Setting Head and Title (with Attributes):**
`->addHead()`
`->addTitle("Beabadobee")`
`->closeTitle`
`->addHeader("My Website Header", 1, ['class' => 'main-header', 'id' => 'header1']) ->closeHeader(1)`