

The RichText FieldType

This format is used by eZ P

This FieldType is not officially supported yet, it will be as of first stable eZ Platform release.

This FieldType validates and stores structured richtext, and exposes it in several formats.

Name	Internal name	Expected input
RichText	ezrichtext	mixed

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Input expectations

Type	Description	Example
string	XML document in one of the FieldType's input formats as a string.	See the example below.
DOMDocument	XML document in one of the FieldType's input formats as a <code>DOMDocument</code> object.	See the example below.
eZ\Publish\Core\FieldType\RichText\Value	An instance of the FieldType's <code>value</code> object.	See the example below.

Input formats

FieldType works with XML and also expects an XML value as input, wether as a string, `DOMDocument` object or FieldType's `value` object. When the value is given as a string or a `DOMDocument` object, it will be checked for conformance to the one of the supported input formats, then dispatched to the appropriate converter, to be converted to the FieldType's internal format. No conversion will be performed if providing the value in FieldType's internal format, or when providing the value as FieldType's `value` object. In the latter case it will be expected that `value` object holds the value in FieldType's internal format.

Currently supported input formats are described in the table below:

Name	Description
eZ Publish Docbook variant	FieldType's internal format
XHTML5 editing format	Typically used with in-browser HTML editor
Legacy eZXML format	Compatibility with legacy eZXML format, used by XmlText FieldType

Example of the FieldType's internal format

```
<section xmlns="http://docbook.org/ns/docbook"
  xmlns:xlink="http://www.w3.org/1999/xlink"
  xmlns:ezxhtml="http://ez.no/xmlns/ezpublish/docbook/xhtml"
  xmlns:ezcustom="http://ez.no/xmlns/ezpublish/docbook/custom"
  version="5.0-variant ezpublish-1.0">
  <title ezxhtml:level="2">This is a title.</title>
  <para ezxhtml:class="paraClass">This is a paragraph.</para>
</section>
```

Example of the FieldType's XHTML5 edit format

This format is used by eZ Platform Online Editor and will change with its needs as we continue to evolve this part of the UI.

```
<section xmlns="http://ez.no/namespaces/ezpublish5/xhtml5/edit">
  <h2>This is a title.</h2>
  <p class="paraClass">This is a paragraph.</p>
</section>
```

For more information about internal format and input formats, see [FieldType's conversion test fixtures on GitHub](#).

For example, ezxml does not use explicit level attributes for <header> elements, instead <header> element levels are indicated through the level of nesting inside <section> elements.

Example of using XML document in internal format as a string

```

...

$contentService = $repository->getContentService();
$contentTypeService = $repository->getContentTypeService();

$contentType = $contentTypeService->loadContentTypeByIdentifier( "article" );
$contentCreateStruct = $contentService->newContentCreateStruct( $contentType, "eng-GB"
);

$inputString = <<<DOCBOOK

<section xmlns="http://docbook.org/ns/docbook"
        xmlns:xlink="http://www.w3.org/1999/xlink"
        xmlns:ezxhtml="http://ez.no/xmlns/ezpublish/docbook/xhtml"
        xmlns:ezcustom="http://ez.no/xmlns/ezpublish/docbook/custom"
        version="5.0-variant ezpublish-1.0">
    <title ezxhtml:level="2">This is a title.</title>
    <para ezxhtml:class="paraClass">This is a paragraph.</para>
</section>
DOCBOOK;

$contentCreateStruct->setField( "description", $inputString );

...

```

Value object API

`eZ\Publish\Core\FieldTypes\RichText\Value` offers following properties:

Property	Type	Description
xml	DOMDocument	Internal format value as an instance of DOMDocument.

REST API specifics

Creating or updating Content

When creating RichText content with the REST API, it is possible to provide data as a string, using the "xml" fieldValue key:

```

<fieldValue>
    <value key="xml">&lt;?xml version="1.0" encoding="UTF-8"?&gt;
    &lt;section xmlns="http://docbook.org/ns/docbook"
    xmlns:xlink="http://www.w3.org/1999/xlink"
    xmlns:ezxhtml="http://ez.no/xmlns/ezpublish/docbook/xhtml"
    xmlns:ezcustom="http://ez.no/xmlns/ezpublish/docbook/custom" version="5.0-variant
    ezpublish-1.0"&gt;
    &lt;title ezxhtml:level="2"&gt;This is a title.&lt;/title&gt;
    &lt;/section&gt;
    </value>
</fieldValue>

```

When the value given over REST API is transformed into a FieldType's `value` object, it will be treated as a string. This means you can use any

supported input format for input over REST API.