ezmatrix datatype (Matrix)

The ezmatrix datatype (Matrix): what it stores and how templates use it.

Source file: `doc/eng-us/examples/datatypes/ezmatrix.md` Last changed 2026-11-04
https://doc.exponential.earth/learninminutes/exphelp/viewer/examples/datatypes/ezmatrix.md

The ezmatrix datatype (Matrix)

Class `eZMatrixType` in `kernel/classes/datatypes/ezmatrix/ezmatrixtype.php`; identifier `ezmatrix`, listed in `settings/content.ini` `[DataTypeSettings]` `AvailableDataTypes[]`.

What it stores

The columns of the attribute tables its class reads or writes: `data_int1`, `data_text`, `data_text1`, `data_text5` (`data_text`, `data_int`, `data_float` and `sort_key_*` are the object attribute's; `data_text1` ... `data_int4` the class attribute's settings). Found by reading the class: a heuristic. It is indexed by the search.

In templates

`my_attribute` stands for the identifier of an attribute of this type in your class:

Template

```
{def $attribute = $node.data_map.my_attribute}
{if $attribute.has_content}
    {attribute_view_gui attribute=$attribute}
{/if}
{* the value as the datatype returns it (objectAttributeContent()) *}
{$attribute.content|attribute( show, 1 )}
```

The shipped template that shows it (`attribute_view_gui`), `design/standard/templates/content/datatype/view/ezmatrix.tpl`:

Template

```
{* DO NOT EDIT THIS FILE! Use an override template instead. *}
{* A table: the column names, then one row per matrix row, nothing else (no <br /> between cells
or rows;
   portions derived from LoveStack, mugoweb/ezpublish-legacy, commit 492a946963, Copyright (C) Mu
go Web, GPL v2). *}
{def $matrix = $attribute.content}
<table class="list" cellspacing="0">
<tr>
{foreach $matrix.columns.sequential as $column}
<th>{$column.name|wash( xhtml )}</th>
{/foreach}
</tr>
{foreach $matrix.rows.sequential as $row sequence array( 'bglight', 'bgdark' ) as $row_style}
<tr class="{$row_style}">
    {foreach $row.columns as $cell}
    <td>{$cell|wash( xhtml )}</td>
    {/foreach}
</tr>
{/foreach}
</table>
{undef $matrix}
```

The shipped template that edits it (`attribute_edit_gui`), `design/standard/templates/content/datatype/edit/ezmatrix.tpl` (first 25 lines):

Template

```
{* DO NOT EDIT THIS FILE! Use an override template instead. *}
{default attribute_base=ContentObjectAttribute}
{let matrix=$attribute.content}

{* Matrix. *}
{section show=$matrix.rows.sequential}
<table class="list" cellspacing="0">

<tr>
    <th class="tight"> </th>
    {section var=ColumnNames loop=$matrix.columns.sequential}<th>{$ColumnNames.item.name|wash( xh
tml )}</th>{/section}
</tr>

{section var=Rows loop=$matrix.rows.sequential sequence=array( bglight, bgdark )}
<tr class="{$Rows.sequence}">

{* Remove. *}
<td><input id="ezcoa-{if ne( $attribute_base, 'ContentObjectAttribute' )}{$attribute_base}-{/if}{
$attribute.contentclassattribute_id}_{$attribute.contentclass_attribute_identifier}_remove_{$Rows
.index}" class="ezcc-{$attribute.object.content_class.identifier} ezcca-{$attribute.object.conten
t_class.identifier}_{$attribute.contentclass_attribute_identifier}" type="checkbox" name="{$attri
bute_base}_data_matrix_remove_{$attribute.id}[]" value="{$Rows.index}" title="{'Select row for re
moval.'|i18n( 'design/standard/content/datatype' )}" /></td>

{* Custom columns. *}
{section var=Columns loop=$Rows.item.columns}
<td><input id="ezcoa-{if ne( $attribute_base, 'ContentObjectAttribute' )}{$attribute_base}-{/if}{
$attribute.contentclassattribute_id}_{$attribute.contentclass_attribute_identifier}_matrix_cell_{
$Rows.index}_{$Columns.index}" class="box ezcc-{$attribute.object.content_class.identifier} ezcca
-{$attribute.object.content_class.identifier}_{$attribute.contentclass_attribute_identifier}" typ
e="text" name="{$attribute_base}_ezmatrix_cell_{$attribute.id}[]" value="{$Columns.item|wash( xht
ml )}" /></td>
{/section}
```

```
</tr>
```

Override them for one class attribute in an `override.ini.append.php` with `Source=content/datatype/view/ezmatrix.tpl` and a match on `attribute_identifier` (see A template override).

Related

- All datatypes
- A custom datatype
- A content class

Generated by `./console exp:help:examples` from `kernel/classes/datatypes/ezmatrix/ezmatrixtype.php`, `settings/content.ini`, `design/standard/templates/content/datatype/view/ezmatrix.tpl`, `design/standard/templates/content/datatype/edit/ezmatrix.tpl`. Do not edit this page: change the source and generate again (how). Free documentation: GFDL 1.3 or later.

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