Node attributes reference

Every attribute a template can read from a node (eZContentObjectTreeNode) - the 16 database fields and the 35 function attributes of its definition, the PHP method behind each, and the value each returned for a real...

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`$node` in a node template is an `eZContentObjectTreeNode` (`kernel/classes/ezcontentobjecttreenode.php`). What a template can read from it is exactly what `eZContentObjectTreeNode::definition()` lists: the database `fields` of the `ezcontentobject_tree` table and the `function_attributes`, which call a PHP method each time they are read (see The object model in templates for the protocol).

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How this table was made

A read-only CLI script on a development installation (run with `bin/php/ezexec.php -s site` as the web server's user) called `eZContentObjectTreeNode::definition()`, listed `fields` and `function_attributes`, and read each name with `$node->attribute( $name )` on node 96, an `ng_article`. The "Value on a development installation" column is the PHP type and, for short values, the value it returned. The script runs as the anonymous user, so the `can_*` checks show what an anonymous visitor may do. The core of it:

PHP

```php
$node = eZContentObjectTreeNode::fetch( 96 );
$def = $node->definition();
foreach ( $def['fields'] as $name => $field )
    echo $name, ' ', $field['name'], ' ', $field['datatype'], "\n";
foreach ( $def['function_attributes'] as $name => $method )
    echo $name, ' ', $method, ' ', gettype( $node->attribute( $name ) ), "\n";
```

Database fields

Attribute	Database column / member	Datatype	Value on a development installation (node 96)
node_id	NodeID	integer	integer 96

Attribute	Database column / member	Datatype	Value on a development installation (node 96)
parent_node_id	ParentNodeID	integer	integer 92
main_node_id	MainNodeID	integer	integer 96
contentobject_id	ContentObjectID	integer	integer 94
contentobject_version	ContentObjectVersion	integer	integer 1
contentobject_is_published	ContentObjectIsPublished	integer	integer 1
depth	Depth	integer	integer 4
sort_field	SortField	integer	integer 2
sort_order	SortOrder	integer	integer 0
priority	Priority	integer	integer 0
modified_subnode	ModifiedSubNode	integer	integer 1790970543
path_string	PathString	string	string "/1/2/89/92/96/"
path_identification_string	PathIdentificationString	text	string (59 bytes)
remote_id	RemoteID	string	string "media-n-729"
is_hidden	IsHidden	integer	integer 0
is_invisible	IsInvisible	integer	integer 0

Function attributes

`remote_id` is in both lists; the function attribute (`remoteID()`) is the one a template reads.

Function attribute	PHP method	Value on a development installation (node 96)
name	eZContentObjectTreeNode::getName()	string "Why Should You Choose Strength Training?"
data_map	eZContentObjectTreeNode::dataMap()	array(18) of eZContentObjectAttribute
remote_id	eZContentObjectTreeNode::remoteID()	string "media-n-729"
object	eZContentObjectTreeNode::object()	object eZContentObject
subtree	eZContentObjectTreeNode::subTree()	array(0)
children	eZContentObjectTreeNode::children()	array(0)
children_count	eZContentObjectTreeNode::childrenCount()	integer 0
view_count	eZContentObjectTreeNode::viewCount()	integer 0
contentobject_version_object	eZContentObjectTreeNode::contentObjectVersionObject()	object eZContentObjectVersion

Function attribute	PHP method	Value on a development installation (node 96)
sort_array	eZContentObjectTreeNode::sortArray()	array(1) of array
can_read	eZContentObjectTreeNode::canRead()	boolean true
can_pdf	eZContentObjectTreeNode::canPdf()	boolean true
can_create	eZContentObjectTreeNode::canCreate()	boolean true
can_edit	eZContentObjectTreeNode::canEdit()	boolean false
can_hide	eZContentObjectTreeNode::canHide()	boolean false
can_remove	eZContentObjectTreeNode::canRemove()	boolean false
can_move	eZContentObjectTreeNode::canMoveFrom()	boolean false
can_move_from	eZContentObjectTreeNode::canMoveFrom()	boolean false
can_add_location	eZContentObjectTreeNode::canAddLocation()	boolean false
can_remove_location	eZContentObjectTreeNode::canRemoveLocation()	boolean false
can_view_embed	eZContentObjectTreeNode::canViewEmbed()	boolean false
is_main	eZContentObjectTreeNode::isMain()	boolean true
creator	eZContentObjectTreeNode::creator()	object eZContentObject
path_with_names	eZContentObjectTreeNode::pathWithNames()	string (59 bytes)
path	eZContentObjectTreeNode::fetchPath()	array(3) of eZContentObjectTreeNode
path_array	eZContentObjectTreeNode::pathArray()	array(5) of integer
parent	eZContentObjectTreeNode::fetchParent()	object eZContentObjectTreeNode
url	eZContentObjectTreeNode::url()	string (47 bytes)
url_alias	eZContentObjectTreeNode::urlAlias()	string (47 bytes)
class_identifier	eZContentObjectTreeNode::classIdentifier()	string "ng_article"
class_name	eZContentObjectTreeNode::className()	string "NG Article"
hidden_invisible_string	eZContentObjectTreeNode::hiddenInvisibleString()	string "-/-"
hidden_status_string	eZContentObjectTreeNode::hiddenStatusString()	string "Visible"

Function attribute	PHP method	Value on a development installation (node 96)
classes_js_array	eZContentObjectTreeNode::availableClassesJsArray()	string (3218 bytes)
is_container	eZContentObjectTreeNode::classIsContainer()	integer 1

A sample

A few of these attributes on node 89, the "Fit & Healthy" front page:

Template

```
{def $node = fetch( 'content', 'node', hash( 'node_id', 89 ) )}
name:            {$node.name|wash}
class:           {$node.class_identifier} ({$node.class_name|wash})
url_alias:       {$node.url_alias}
path_string:     {$node.path_string}
depth:           {$node.depth}
children_count:  {$node.children_count}
sort_array:      {$node.sort_array.0|implode( ', ' )}
is_main:         {cond( $node.is_main, 'yes', 'no' )}
hidden status:   {$node.hidden_status_string}
can_read:        {cond( $node.can_read, 'yes', 'no' )}, can_edit: {cond( $node.can_edit, 'yes', '
no' )}
current user:    {fetch( 'user', 'current_user' ).login}
```

Output:

```
name:            Fit &amp;amp; Healthy
class:           ng_frontpage (NG Frontpage)
url_alias:
path_string:     /1/2/89/
depth:           2
children_count:  16
sort_array:      published, 1
is_main:         yes
hidden status:   Visible
can_read:        yes, can_edit: no
current user:    anonymous
```

Notes

- `url_alias` of node 89 is empty. The siteaccess `site` has a path prefix (`[SiteAccessSettings] PathPrefix`), and `urlAlias()` removes that prefix from the start of the alias; node 89 is the node at the prefix itself. `path_with_names` is the full alias path without that step, and `url` returns `url_alias` while `[URLTranslator] Translation` is enabled, else `content/view/full/<node id>`:

Template

```
{def $node = fetch( 'content', 'node', hash( 'node_id', 96 ) )}
PathPrefix:      {ezini( 'SiteAccessSettings', 'PathPrefix' )}
path_with_names: {$node.path_with_names}
url_alias:       {$node.url_alias}
url:             {$node.url}
```

Output:

```
PathPrefix:      fit-healthy
path_with_names: fit-healthy/fitness/why-should-you-choose-strength-training
url_alias:       fitness/why-should-you-choose-strength-training
url:             fitness/why-should-you-choose-strength-training
```

- `sort_array` is a list of `array( sort field, ascending )` pairs, the node's child sort order as `fetch( 'content', 'list' )` understands it (here: by publishing date, ascending is `1`).
- `children`, `subtree` and `children_count` run a query each time they are read. In a list with many items use `fetch( 'content', 'list', ... )` with `limit` instead (see Fetch performance).
- `can_read`, `can_edit`, `can_hide`, `can_remove`, `can_move`, `can_create` check the current user's policies on this location; their results depend on who views the page, which is why such checks belong outside view-cached output or in templates whose cache varies by role (the content view cache keys include the user's role IDs).
- `classes_js_array` returns a JavaScript array string for the admin's "create here" menu; site templates do not need it.
- `creator` returns the content object of the user who created the version stored on this node.

Related pages

- The object model in templates
- Content object attributes reference
- Content attribute and version reference
- Nodes, objects and attributes
- Fetching nodes and lists
- Free documentation: this page is free to copy, translate and improve under the GNU FDL 1.3.

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