



@package MODX Revolution
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Terminologies

Resource

A resource is a representation of a page in MODx. There are different types of Resources, such as documents, weblinks, symlinks, actual files, or many other things. The default Resource type is a Document, and simply represents a webpage on your site.

Template

Templates typically contain the HTML markup tags that determine the layout and appearance of your site.

Template Variable

A Template Variable (TV) is a custom field, or more specifically it is custom field for a MODx Resource.

Chunk

Chunks are bits of static text which you can reuse across your site, similar in function to include files or "blocks" in other content management systems.

Snippet

Snippets are MODx's answer to inline PHP code.

Plugin

Plugins are similar to snippets in that they are snippets of code that have access to the MODx API - however the big difference is that Plugins are associated with specific System Events.

Element

Element is only a category representation of Template, TV, Chunk, Snippet and Plugin.

Tags

Tag is **symbol** for MODX to process the internal keyword inside the brackets. It is basically formed by the **double square brackets** `[[...]]`, then added with a symbol (**elementToken**) as its purpose:

- `[[[* resource-field]]` : star
- `[[[$ chunk-name]]` : dollar sign
- `[[[+ placeholder]]` : plus
- `[[[+ system_setting]]` : plus plus
- `[[[- this is a comment]]` : minus
- `[[[* link-to-ID]]` : tilde
- `[[[% language_string_key]]` : percent
- None, `[[snippet]]`, for PHP

A tag can contain many sub-parts within it. Broken down into each part and explained:

- `[[` (opening tags)
- `!` (optional non-cacheable flag)
- **elementToken**
- **elementName**
- **@propertyset** (optional PropertySet identifier)
- **:filterName=`modifier`...** (optional one or more output filters)
- **?** (optional; indicates beginning of property string)
- **&propertyName=`propertyValue` &...** (optional; any additional properties separated by &)
- `]]` (closing tags)

Resource Fields

These are the default keys of `[[*resource_field]]`:

- **id** = page's ID #
- **template** = template's id
- **pagetitle** = page's title
- **longtitle** = long title
- **description** = description
- **alias** = Friendly URL alias name
- **link_attributes** = optional attribute for the page's link
- **introtex** = a brief summary of the page
- **parent** = parent resource's ID #
- **menu** = menu title
- **menuindex** = index # for manager's tree
- **published** = 0/1, published option
- **publishedon** = publish date
- **pub_date** = scheduled publish date
- **unpub_date** = scheduled unublish date
- **content_type** = the page's type
- **content_dispo** = 0/1, inline/attachment
- **class_key** = class's identity for the page.

Template Variables

TV is attached to the Template, not the Resource. While the tag is as same as resource field's, but the titles are up to the user.

Input Types

- Auto-Tag
- Check Box
- Date
- DropDown List
- Menu
- Email
- File
- Hidden
- HTML Area
- Image
- Listbox (Single-Select)
- Listbox (Multi-Select)
- Number
- Radio Options
- Resource List
- Rich Text
- Tag
- Text
- Textarea
- Textarea (Mini)
- Textbox
- URL

Output Types

- Date
- Default
- Delimiter
- HTML Tag
- Image
- RichText
- String
- Text
- URL

Bindings

A Data source can also come from any of the following sources:

- **@CHUNK** *chunk_name* returns the parsed content of any specified Chunk.
- **@DIRECTORY** *path_relative_to_base_path* reads the contents of a directory
- **@EVAL** *php_code* executes the specified PHP code. It should be used with careful security precautions.
- **@FILE** *file_path* returns the contents of any specified file
- **@INHERIT** will automatically find the value of the parent Resource and use that as its value
- **@RESOURCE** *resource_id* returns the parsed contents of any specified Resource
- **@SELECT** *sql_query* calls a database query based on the provided value and returns the result

Properties and Property Sets

Properties are simply values that can be configured for any Element via Tag Syntax.

`[[ElementName? &debug='1']]`
 Property Sets are user-defined collections of properties for an Element.

`[[ElementName@PropertySetName]]`
 Overriding Property Sets with a different Property's value:
`[[ElementName@PropertySetName? &debug='1']]`

All of the values must be enclosed with **backticks** (the key which is usually placed before number 1 on the keyboard), not single quotes.

Output Filters/ Modifiers

Filters in Revolution manipulate the way data is presented or parsed in a tag.

- They modify values from inside templates. `[[element:modifier='value']]`
- Chained (executed left to right): `[[element:modifier1:modifier2='value1':modifier3:modifier4='value2']]`
- Modifies Snippet output. If there are properties on the tag, specify those after the modifier:
`[[mySnippet:modifier='value`? &mySnippetParam='something']]`

Conditional output modifiers

- if, input
- or
- and
- isequalto, isequal, equalto, equals, is, eq
- notequalto, notequals, isnt, isnot, neq, ne
- greaterthanorequalto, equalorgreaterthen, ge, eg, isgte, gte
- isgreaterthan, greaterthan, isgt, gt
- equaltoorlessthan, lessthanorequalto, el, le, islte, lte
- islowerthan, islessthan, lowerthan,
- lessthan, islt, lt
- hide
- show
- then
- else
- select
- memberof, ismember, mo

String output modifiers

- cat
- lcase, lowercase, strtolower
- ucase, uppercase, strtoupper
- ucwords
- ucfirst
- htmlentities, htmlentities
- esc, escape
- strip
- stripString
- replace
- striptags, stripTags, notags, strip_tags
- len, length, strlen
- reverse, strev
- wordwrap
- wordwrapcut
- limit
- ellipsis
- tag
- math
- add, increment, incr
- subtract, decrement, decr
- multiply, mpy
- divide, div
- modulus, mod
- ifempty, default, empty, isempty
- notempty, lempty, ifnotempty, isnotempty
- nl2br
- date
- strtotime
- fuzzydate
- ago
- md5
- cdata
- userinfo
- isloggedin
- isnotloggedin
- urlencode
- urldecode

Custom Output Modifier

Snippets can be used as custom modifiers. Simply put the Snippet name instead of the modifier. This will pass these properties to the snippet:

- **input**
The element's value.
Eg: The value of [[+file]]
- **options**
Any value passed to the modifier.
Eg: 'notitle'
- **token**
The type of the parent element.
Eg: + (the token on 'file')
- **name**
The name of the parent element.
Eg: file
- **tag**
The complete parent tag.
Eg: [[+file:makeDownloadLink='notitle']]

The return value of that call would be whatever the snippet returns.

Examples

- [[+mydate:strtotime:date='%Y-%m-%d']]
- [[!+modx.user.id:userinfo='fullname']]

Special Modifiers

- [[!+modx.user.id]] - Prints the ID
- [[!+modx.user.username]] - Prints the username

Timings

- [^q^] : queries
- [^qt^] : query time
- [^p^] : php time
- [^t^] : total time
- [^s^] : source

System Events

These events are the places/action where the plugins will be run.

Categories

- OnCategoryBeforeRemove
- OnCategoryBeforeSave
- OnCategoryRemove
- OnCategorySave

Chunks

- OnBeforeChunkFormDelete
- OnBeforeChunkFormSave
- OnChunkBeforeRemove
- OnChunkBeforeSave
- OnChunkFormDelete
- OnChunkFormPrerender
- OnChunkFormRender
- OnChunkFormSave
- OnChunkRemove
- OnChunkSave

Contexts

- OnContextSave
- OnContextBeforeSave
- OnContextRemove
- OnContextBeforeRemove
- OnContextFormPrerender
- OnContextFormRender

Internationalization

- OnInitCulture

Media Sources

- OnMediaSourceBeforeFormDelete
- OnMediaSourceBeforeFormSave
- OnMediaSourceDuplicate
- OnMediaSourceFormDelete

- OnMediaSourceFormSave
- OnMediaSourceGetProperties

Plugin Events

- OnPluginEventBeforeRemove
- OnPluginEventBeforeSave
- OnPluginEventRemove
- OnPluginEventSave

Plugins

- OnBeforePluginFormDelete
- OnBeforePluginFormSave
- OnPluginBeforeRemove
- OnPluginBeforeSave
- OnPluginFormDelete
- OnPluginFormPrerender
- OnPluginFormRender
- OnPluginFormSave
- OnPluginRemove
- OnPluginSave

Property Sets

- OnPropertySetBeforeRemove
- OnPropertySetBeforeSave
- OnPropertySetRemove
- OnPropertySetSave

Resources

- OnBeforeDocFormDelete
- OnBeforeDocFormSave
- OnBeforeEmptyTrash
- OnDocFormDelete
- OnDocFormPrerender
- OnDocFormRender
- OnDocFormSave
- OnDocPublished
- OnDocUnPublished
- OnEmptyTrash
- OnResourceAddToResourceGroup
- OnResourceBeforeSort
- OnResourceDelete
- OnResourceDuplicate
- OnResourceRemoveFromResourceGroup
- OnResourceSort
- OnResourceToolBarLoad
- OnResourceTVFormPrerender
- OnResourceTVFormRender
- OnResourceUndelete

RichText Editor

- OnRichTextBrowserInit
- OnRichTextEditorInit
- OnRichTextEditorRegister

Security

- OnBeforeManagerLogin
- OnBeforeManagerLogout
- OnBeforeWebLogin
- OnBeforeWebLogout
- OnManagerAuthentication
- OnManagerLogin
- OnManagerLoginFormPrerender
- OnManagerLoginFormRender
- OnManagerLogout
- OnPageUnauthorized
- OnResourceGroupBeforeRemove
- OnResourceGroupBeforeSave
- OnResourceGroupRemove
- OnResourceGroupSave
- OnWebAuthentication
- OnWebLogin
- OnWebLogout

Settings

- OnSiteSettingsRender

Snippets

- OnBeforeSnipFormDelete
- OnBeforeSnipFormSave

- OnSnipFormDelete
- OnSnipFormPrerender
- OnSnipFormRender
- OnSnipFormSave
- OnSnippetBeforeRemove
- OnSnippetBeforeSave
- OnSnippetRemove
- OnSnippetSave

System

- OnBeforeCacheUpdate
- OnBeforeManagerPageInit
- OnBeforeSaveWebPageCache
- OnCacheUpdate
- OnFileCreateFormPrerender
- OnFileManagerUpload
- OnHandleRequest
- OnLoadWebDocument
- OnLoadWebPageCache
- OnManagerPageAfterRender
- OnManagerPageBeforeRender
- OnManagerPageInit
- OnPageNotFound
- OnParseDocument
- OnSiteRefresh
- OnWebPageComplete
- OnWebPageInit
- OnWebPagePrerender

Template Variables

- OnBeforeTVFormDelete
- OnBeforeTVFormSave
- OnTemplateVarBeforeRemove
- OnTemplateVarBeforeSave
- OnTemplateVarRemove
- OnTemplateVarSave
- OnTVFormDelete
- OnTVFormPrerender
- OnTVFormRender
- OnTVFormSave
- OnTVInputPropertiesList
- OnTVInputRenderList
- OnTVOutputRenderList
- OnTVOutputRenderPropertiesList

Templates

- OnBeforeTempFormDelete
- OnBeforeTempFormSave
- OnTempFormDelete
- OnTempFormPrerender
- OnTempFormRender
- OnTempFormSave
- OnTemplateBeforeRemove
- OnTemplateBeforeSave
- OnTemplateRemove
- OnTemplateSave

User Groups

- OnBeforeUserGroupFormRemove
- OnBeforeUserGroupFormSave
- OnUserAddToGroup
- OnUserBeforeAddToGroup
- OnUserBeforeRemoveFromGroup
- OnUserGroupBeforeRemove
- OnUserGroupBeforeSave
- OnUserGroupFormSave
- OnUserGroupRemove
- OnUserGroupSave
- OnUserRemoveFromGroup

Users

- OnBeforeUserActivate
- OnBeforeUserDeactivate
- OnBeforeUserFormDelete
- OnBeforeUserFormSave
- OnUserActivate
- OnUserBeforeRemove

- OnUserBeforeSave
- OnUserChangePassword
- OnUserDeactivate
- OnUserFormDelete
- OnUserFormPreRender
- OnUserFormRender
- OnUserFormSave
- OnUserNotFound
- OnUserRemove
- OnUserSave

System Settings

Common tags:

- [[++site_name]]
- [[++site_start]]
- [[++base_url]]
- [[++site_url]]
- [[++assets_path]]
- [[++assets_url]]
- [[++core_path]]

Other [[++**system_setting**]] keys:

- access_category_enabled
- access_context_enabled
- access_resource_group_enabled
- allow_forward_across_contexts
- allow_manager_login_forgot_password
- allow_multiple_emails
- allow_tags_in_post
- archive_with
- auto_check_pkg_updates
- auto_check_pkg_updates_cache_expire
- auto_menuindex
- automatic_alias
- base_help_url
- blocked_minutes
- cache_action_map
- cache_context_settings
- cache_db
- cache_db_expires
- cache_db_session
- cache_db_session_lifetime
- cache_default
- cache_disabled
- cache_expires
- cache_format
- cache_handler
- cache_lang_js
- cache_lexicon_topics
- cache_noncore_lexicon_topics
- cache_resource
- cache_resource_expires
- cache_scripts
- cache_system_settings
- clear_cache_refresh_trees
- compress_css
- compress_js
- compress_js_groups
- compress_js_max_files
- container_suffix
- context_tree_sort
- context_tree_sortby
- context_tree_sortdir
- cultureKey
- date_timezone
- debug
- default_content_type
- default_duplicate_publish_option
- default_media_source
- default_per_page
- default_template
- editor_css_path
- editor_css_selectors
- emailsender

- emailsubject
- enable_dragdrop
- error_page
- failed_login_attempts
- fe_editor_lang
- feed_modx_news
- feed_modx_news_enabled
- feed_modx_security
- feed_modx_security_enabled
- filemanager_path
- filemanager_path_relative
- filemanager_url
- filemanager_url_relative
- forgot_login_email
- forward_merge_excludes
- friendly_alias_lowercase_only
- friendly_alias_max_length
- friendly_alias_restrict_chars
- friendly_alias_restrict_chars_pattern
- friendly_alias_strip_element_tags
- friendly_alias_translit
- friendly_alias_translit_class
- friendly_alias_translit_class_path
- friendly_alias_trim_chars
- friendly_alias_word_delimiter
- friendly_alias_word_delimiters
- friendly_urls
- global_duplicate_uri_check
- hidemenu_default
- inline_help
- link_tag_scheme
- locale
- log_level
- log_target
- mail_charset
- mail_encoding
- mail_smtp_auth
- mail_smtp_helo
- mail_smtp_hosts
- mail_smtp_keepalive
- mail_smtp_pass
- mail_smtp_port
- mail_smtp_prefix
- mail_smtp_single_to
- mail_smtp_timeout
- mail_smtp_user
- mail_use_smtp
- manager_date_format
- manager_direction
- manager_favicon_url
- manager_html5_cache
- manager_js_cache_file_locking
- manager_js_cache_max_age
- manager_js_document_root
- manager_js_zlib_output_compression
- manager_lang_attribute
- manager_language
- manager_login_url_alternate
- manager_theme
- manager_time_format
- modx_charset
- password_generated_length
- password_min_length
- phpthumb_allow_src_above_docroot
- phpthumb_cache_maxage
- phpthumb_cache_maxfiles
- phpthumb_cache_maxsize
- phpthumb_cache_source_enabled
- phpthumb_document_root
- phpthumb_error_bgcolor
- phpthumb_error_fontsize
- phpthumb_error_textcolor
- phpthumb_far
- phpthumb_imagemagick_path

- phpthumb_nohotlink_enabled
- phpthumb_nohotlink_erase_image
- phpthumb_nohotlink_text_message
- phpthumb_nohotlink_valid_domains
- phpthumb_nooffsitelink_enabled
- phpthumb_nooffsitelink_erase_image
- phpthumb_nooffsitelink_require_refer
- phpthumb_nooffsitelink_text_message
- phpthumb_nooffsitelink_valid_domains
- phpthumb_nooffsitelink_watermark_src
- phpthumb_zoomcrop
- principal_targets
- proxy_auth_type
- proxy_host
- proxy_password
- proxy_port
- proxy_username
- publish_default
- rb_base_dir
- rb_base_url
- request_controller
- request_method_strict
- request_param_alias
- request_param_id
- resolve_hostnames
- resource_tree_node_name
- resource_tree_node_tooltip
- richtext_default
- search_default
- server_offset_time
- server_protocol
- session_cookie_domain
- session_cookie_lifetime
- session_cookie_path
- session_cookie_secure
- session_gc_maxlifetime
- session_handler_class
- session_name
- set_header
- settings_distro
- settings_version
- show_tv_categories_header
- signupemail_message
- site_name
- site_start
- site_status
- site_unavailable_message
- site_unavailable_page
- strip_image_paths
- symlink_merge_fields
- topmenu_show_descriptions
- tree_default_sort
- tree_root_id
- tvs_below_content
- udperms_allowroot
- unauthorized_page
- upload_files
- upload_flash
- upload_images
- upload_maxsize
- upload_media
- use_alias_path
- use_browser
- use_editor
- use_multibyte
- use_weblink_target
- webpwdreminder_message
- websignupemail_message
- welcome_screen
- welcome_screen_url
- which_editor
- which_element_editor
- xhtml_urls