

This reference provides information about the default methods specifically designed for use in [transformations](#):

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Important

The listed methods are available for both **ASCX** and **Text / XML** transformations (the examples are in ASCX format).

For **Text / XML** transformations, use macro method equivalents with identical signatures. If you encounter problems, use the macro autocomplete help to find information about potential syntax differences.



Notes

- All transformation methods return **string** values (unless otherwise specified).
- In addition to the listed method, **ASCX** transformations allow you to call any type of inline code, including ASP, .NET system methods, Kentico API or custom API.
- For **Text / XML** transformations, you can also use general macro methods. See: [Reference - Macro methods](#)

Data loading

Method	Parameters	Description and examples
Eval	<ul style="list-style-type: none"> • string column Name • <i>bool encode</i> 	<p>Loads the value from the specified column of the transformed object's data. Returns the value as an <i>object</i> data type. Use only for ASCX transformations.</p> <p>The optional boolean parameter specifies whether the method HTML encodes the loaded value. When not specified, the encoding depends on the value of the <i>CMSHTMLEncodeEval</i> web.config key (false by default).</p> <pre><%# Eval("NewsTitle") %> <%# Eval("NewsTitle", true) %></pre>

Eval<Return Type>	<ul style="list-style-type: none"> string column Name 	<p>Loads the value from a column of the transformed object's data, and returns it as an object of the specified type. Use only for ASCX transformations.</p> <pre><%# Eval<string>("NodeAliasPath") %></pre>
EvalCDATA	<ul style="list-style-type: none"> string column Name bool encapsulate 	<p>Loads the value from the specified column of the transformed object's data and escapes all occurrences of the]]> sequence in the returned string.</p> <p>Depending on the optional boolean parameter (true by default), the method wraps the whole string in the <![CDATA["wrapped text"]] enclosure.</p> <pre><%# EvalCDATA("NewsText") %> <%# EvalCDATA("NewsText", true) %></pre>
EvalJSString	<ul style="list-style-type: none"> string column Name 	<p>Loads the value from the specified column of the transformed object's data. Encodes the returned text to be used in JavaScript code and encapsulates it into ' characters.</p>
GetEditableValue	<ul style="list-style-type: none"> string controlId 	<p>Loads the content of an editable region on the page. Specify the region using the control ID (web part control ID).</p> <pre><%# GetEditableValue("mainText") %></pre>
GetNotEmpty	<ul style="list-style-type: none"> object columns Obj 	<p>Returns the value of the first data column that is not empty or <i>null</i>. The parameter must provide a list of column names separated by semicolons.</p> <pre><%# GetNotEmpty("FullName;UserName") %></pre>
GetColumnName	<ul style="list-style-type: none"> string columns bool allowEmptyColumn 	<p>Returns the value of the first column that is present in the data of the transformed object. The parameter must provide a list of column names separated by semicolons.</p> <p>By default, the method only returns columns that are not <i>null</i> or empty. Set the optional second parameter to <i>true</i> to allow empty values.</p>

Property	Description and examples
DataItem	<p>Gets the currently transformed data item.</p> <pre><%# DataItem %></pre>
DataItemIndex	<p>Gets the data item index for the current transformation container. You have to use <i>Container.DataItemIndex</i> to get the index in the current binding context.</p> <pre><%# DataItemIndex %></pre>
DataItemCount	<p>Gets the total number of data items in the current transformation container. If pagination is used, the <i>DataItemCount</i> returns the number of items on the current page.</p> <pre><%# DataItemCount %></pre>

DataRowView	Gets a <i>DataRowView</i> of the transformed record's data. <%# DataRowView["UserName"] %>
DisplayIndex	Gets the current position of the data item as displayed in a control. <%# DisplayIndex %>
DocumentCustomData	Gets the value of custom page data fields (culture specific). Use the ["nodename"] notation to retrieve data stored in the specified node of the XML. See also: Storing custom data for all page types <%# DocumentCustomData["myproperty"] %>
EditableItems	Gets the content of the specified editable region on the page. <%# EditableItems["mainText"] %>
NodeCustomData	Gets the value of custom page data fields (shared for all culture versions). Use the ["nodename"] notation to retrieve data stored in the specified node of the XML. See also: Storing custom data for all page types <%# NodeCustomData["myproperty"] %>

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Boolean operations

Method	Parameters	Description and examples
If	<ul style="list-style-type: none"> object value object trueResult object falseResult 	<p>Returns a result according to the boolean value of the first parameter.</p> <pre><%# If(Eval("IsSecuredNode"), "The page requires authentication", "The page is publicly available") %></pre>
IfCompare	<ul style="list-style-type: none"> object value object comparableValue object falseResult object trueResult 	<p>Compares the values of the first and the second parameter.</p> <ul style="list-style-type: none"> If the parameters are different or are both <i>null</i>, the method returns the third parameter. If the parameters are equal, the fourth parameter is returned. <pre><%# IfCompare(1, 2, "The values are different", "The values are equal") %></pre>



IfEmpty	<ul style="list-style-type: none"> object value object emptyResult object nonEmptyResult 	<p>Checks for emptiness of the value in the first parameter.</p> <ul style="list-style-type: none"> If the first parameter is <i>null</i>, the method returns the second parameter. If the first parameter is not <i>null</i>, the third parameter is returned. <pre><%# IfEmpty(Eval("ProductPhoto"), "No image", GetImage("ProductPhoto")) %></pre>
IfTrue	<ul style="list-style-type: none"> object value object trueResult 	<p>Checks whether the first parameter contains a true boolean value.</p> <ul style="list-style-type: none"> If true, the method returns the second parameter. If false, an empty string is returned.
IsFirst	-	<p>Returns a <i>true</i> value if the transformed data item is the first in the provided data. If pagination is used, the method returns a <i>true</i> value for the first item on the current page.</p> <pre><%# IsFirst() %></pre>
IsLast	-	<p>Returns a <i>true</i> value if the transformed data item is the last in the provided data. If pagination is used, the method returns a <i>true</i> value for the last item on the current page.</p> <pre><%# IsLast() %></pre>
IsCurrentDocument	-	<p>Returns a <i>true</i> value if the transformed page is equal to the page where the transformation is being displayed.</p> <pre><%# IsCurrentDocument() %></pre>
IsDocumentOnSelectedPath	-	<p>Returns a <i>true</i> value if the transformed page is present on the alias path of the page where the transformation is being displayed (i.e. if the transformed page is an ancestor of the current page).</p> <pre><%# IsDocumentOnSelectedPath() %></pre>

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URLs and page links

Method	Parameters	Description and examples
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GetAbsoluteUrl	<ul style="list-style-type: none"> • string relative Url • <i>int siteId</i> • <i>object siteNameObj</i> • <i>string domain Name</i> 	<p>Converts relative URLs to absolute URLs. You can specify the target domain name in the absolute URL using either a site ID, site code name or explicitly.</p> <p>If you leave all optional parameters empty, the method generates the absolute URL using the domain of the current site.</p> <pre><%# GetAbsoluteUrl("~/Home.aspx") %> <%# GetAbsoluteUrl("~/Home.aspx", Eval<int>("NodeSiteID")) %></pre>
GetAttachmentIcon	<ul style="list-style-type: none"> • object attachmentGuidColumn 	<p>Returns the attachment file type icon according to the extension of the file identified by the given GUID column.</p> <pre><%# GetAttachmentIcon("AttachmentGUID") %></pre>
GetAttachmentUrl	<ul style="list-style-type: none"> • object attachmentFileName • object nodeAliasPath • <i>string variant</i> 	<p>Returns the URL of the attachment file specified by name in the first parameter, loaded from the page whose alias path matches the second parameter. For example, you can use the method for working with grouped and unsorted attachments.</p> <p>You can optionally generate a URL for an image variant of the attachment by specifying an image variant definition identifier.</p> <p>The method returns the same URL as the <i>GetAttachmentUrlByDocumentId</i> method, but without loading the whole page, which results in better performance.</p> <pre><%# GetAttachmentUrl(Eval("AttachmentName"), Eval("NodeAliasPath")) %></pre>
GetAttachmentUrlByDocumentId	<ul style="list-style-type: none"> • object attachmentFileName • object attachmentDocumentId • <i>string variant</i> 	<p>Returns the URL of the attachment file specified by name in the first parameter, loaded from the page whose ID matches the second parameter.</p> <p>You can optionally generate a URL for an image variant of the attachment by specifying an image variant definition identifier.</p> <pre><%# GetAttachmentUrlByDocumentId(Eval("AttachmentFileName"), Eval("AttachmentDocumentID")) %></pre>
GetAttachmentUrlByGUID	<ul style="list-style-type: none"> • object attachmentGuid • object attachmentFileName • <i>string variant</i> 	<p>Returns the URL of the attachment file specified by an attachment GUID value.</p> <p>You can optionally generate a URL for an image variant of the attachment by specifying an image variant definition identifier.</p> <p>The method's file name parameter does not have to correspond with the real file name.</p> <pre><%# GetAttachmentUrlByGUID(Eval("AttachmentGUIDColumn"), "<custom_file_name>") %></pre>



GetDocumentLink	<ul style="list-style-type: none"> • <i>bool encodeName</i> 	<p>Returns a HTML link (<a> tag) that leads to the transformed page. By default, the method HTML encodes the page name in the link title. Set the optional parameter to false to disable the encoding.</p> <pre><%# GetDocumentLink() %> <%# GetDocumentLink(false) %></pre>
GetDocumentUrl		<p>Returns the URL of the specified page. The method does not evaluate custom URL extensions set for the page.</p> <pre><%# GetDocumentUrl() %></pre>
GetDocumentUrlById	<ul style="list-style-type: none"> • object documentIdObj 	<p>Returns the URL of the specified page. The method evaluates custom URL extensions set for the page if the system is set to use extensionless URLs.</p> <pre><%# GetDocumentUrlById(Eval("DocumentID")) %></pre>
GetDocumentUrlByGUID	<ul style="list-style-type: none"> • object nodeGUID • object nodeAlias 	<p>Returns a permanent URL of the specified page (with the NodeGUID in the query string).</p> <pre><%# GetDocumentUrlByGUID(Eval("NodeGUID"), Eval("NodeAlias")) %></pre>
GetFileIcon	<ul style="list-style-type: none"> • object fileExtension 	<p>Returns an <i> tag displaying a font icon that represents the MIME type of the specified file extension.</p> <pre><%# GetFileIcon(Eval("DocumentExtensions")) %></pre>
GetFileIconClass	<ul style="list-style-type: none"> • string extension 	<p>Returns the name of a CSS class, which you can use to display font icons representing the MIME type of the specified file extension. Assign the class to an <i> tag to display the icon.</p> <pre><i class="<%# GetFileIconClass(Eval<string>("DocumentExtensions")) %>"></i></pre>
GetForumPostUrl	<ul style="list-style-type: none"> • object postIdPath • object forumID 	<p>Returns the URL of the forum post specified by the path in the first parameter, from the forum specified by the identifier in the second parameter.</p> <pre><%# GetForumPostUrl(Eval("PostIDPath"), Eval("ForumID")) %></pre>

GetMediaFileUrl	<ul style="list-style-type: none"> object fileGUID object fileName 	<p>Returns the URL of the specified media file. The media file is specified by the file GUID in the first parameter and the file name in the second parameter.</p> <pre><%# GetMediaFileUrl(Eval("FileGUID"), Eval("FileName")) %></pre> <p>Note: <i>GetMediaFileUrl</i> requires different parameters when used as a macro method for <i>Text</i> / <i>XML</i> transformations:</p> <ul style="list-style-type: none"> <i>libraryId</i> – the ID of the media library containing the file (the value in the media file's <i>FileLibraryID</i> column). <i>filePath</i> – the file's media library path and extension (the value in the media file's <i>FilePath</i> column). <i>fileGuid</i> – the file's GUID identifier (the value in the media file's <i>FileGuid</i> column). <i>fileName</i> – the file's name, without the extension (the value in the media file's <i>FileName</i> column). <i>useSecureLinks</i> – true/false value indicating whether the link evaluates media library permissions. (optional) <i>downloadLink</i> – true/false value indicating whether the link forces a file download (i.e. uses the <i>attachment</i> content-disposition). <p>For example: <code>{% GetMediaFileUrl(FileLibraryID, FilePath, FileGuid, FileName, true) %}</code></p>
GetMetaFileUrl	<ul style="list-style-type: none"> object fileGUID object fileName 	<p>Returns the URL of the specified meta file. The file is specified by the file GUID in the first parameter and the file name in the second parameter.</p>
GetNavigationUrl		<p>Returns a resolved (absolute) URL of the page that's currently being processed. The resulting URL is not encoded. The method reflects page navigation settings, such as <i>URL redirection</i>, and <i>Redirect to first child</i>.</p> <pre><%# GetNavigationUrl() %></pre>
GetUrl	<ul style="list-style-type: none"> object aliasPath object urlPath object siteName 	<p>Returns the URL of the page specified by the alias path in the first parameter or the URL path in the second parameter.</p> <pre><%# GetUrl(Eval("NodeAliasPath"), Eval("DocumentUrlPath")) %> <%# GetUrl(Eval("NodeAliasPath"), Eval("DocumentUrlPath"), Eval("SiteName")) %></pre>

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Text manipulation

Method	Parameters	Description and examples
EnsureMaximumLineLength	<ul style="list-style-type: none"> object textObj int maxLength 	<p>Allows you to insert line breaks into long sequences of characters without whitespace (such as URLs). The method places the line break after the number of characters specified by the second parameter.</p> <pre><%# EnsureMaximumLineLength("VeryLongStringWithoutAnyBlankSpaces", 21) %></pre>

HTMLEn code	<ul style="list-style-type: none"> string text 	<p>Encodes HTML tags in the specified text.</p> <pre><%# HTMLEnCode("Sample text
") %></pre>
LimitLength	<ul style="list-style-type: none"> object textObj int maxLength string padString bool wholeWords 	<p>Limits text to the length specified in the second parameter. The third parameter is the trimming suffix, i.e. the string appended to the end of shortened strings. The suffix is included in the maximum length. For example, if you use the "..." suffix and a maximum length of 100 characters, the returned string contains the first 97 characters of the original string, followed by an ellipsis.</p> <p>Set the last parameter to true to avoid trimming in the middle of words.</p> <pre><%# LimitLength("Example of long text", 10, "...", true) %></pre>
Localize	<ul style="list-style-type: none"> object text 	<p>Resolves all localization expressions inside the specified text.</p>
RemoveDiscussionMacros	<ul style="list-style-type: none"> object inputText 	<p>Removes all BBCode tags from the provided text.</p> <pre><%# RemoveDiscussionMacros("[quote]Sample text[/quote]") %></pre>
RemoveDynamicControls	<ul style="list-style-type: none"> object inputText 	<p>Removes all controls from the specified text (such as inline widgets).</p> <pre><%# RemoveDynamicControls(Eval("NewsText")) %></pre>
StripTags	<ul style="list-style-type: none"> object inputText 	<p>Completely removes HTML tags from the specified text.</p> <pre><%# StripTags("Sample text
") %></pre>

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Images

Method	Parameters	Description and examples
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GetEditableImage	<ul style="list-style-type: none"> • string controlId • object maxSize • object width • object height • object alt 	<p>Returns an image tag that displays the content of an editable image control or web part on the page. Specify the editable image using the control ID (web part control ID).</p> <pre><%# GetEditableValue("mainImage") %></pre>
GetEditableImageUrl	<ul style="list-style-type: none"> • string controlId 	<p>Returns the URL of the image selected inside the specified editable image control or web part. Specify the editable image using the control ID (web part control ID).</p> <pre><%# GetEditableImageUrl("mainImage") %></pre>
GetImage	<ul style="list-style-type: none"> • object attachmentGuidColumn • <i>object (int) maxSize</i> • <i>object (int) width</i> • <i>object (int) height</i> • <i>object alt</i> 	<p>Returns an image tag that displays the image file whose GUID is stored in the specified column of the transformed object's data.</p> <pre><%# GetImage("NewsTeaser") %> <%# GetImage("NewsTeaser", 200) %> <%# GetImage("NewsTeaser", 200, 100) %> <%# GetImage("NewsTeaser", 200, 200, 100) %> <%# GetImage("NewsTeaser", 200, 200, 100, "image alternate text") %></pre>
GetImageByUrl	<ul style="list-style-type: none"> • object imageUrl • <i>object (int) maxSize</i> • <i>object (int) width</i> • <i>object (int) height</i> • <i>object alt</i> 	<p>Returns an image tag that displays the image stored under the specified URL.</p> <pre><%# GetImageByUrl("~/Images/Image1.aspx") %> <%# GetImageByUrl("~/Images/Image1.aspx", 100, 200) %> <%# GetImageByUrl("~/Images/Image1.aspx", 200) %> <%# GetImageByUrl("~/Images/Image1.aspx", 200, 100, 200, "image alternate text") %></pre>

IfImage	<ul style="list-style-type: none"> object attachmentGuidColumn object isImage object notImage 	<p>Checks whether the page attachment specified by the GUID in the first parameter is an image file. If the file is an image, the method returns the value of the second parameter, otherwise the value of the third parameter.</p> <pre><%# IfImage("NewsTeaser", "The file is an image", "The file is not an image") %></pre>
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E-commerce

SKU price

Method	Parameters	Description and examples
GetSKUPrice	-	<p>Returns an SKU price based on the SKU data and the data of the current shopping cart.</p> <p>The price includes any catalog discounts that apply.</p> <div>  To display the list price of a product, use the <i>GetSKUListPrice</i> method. </div> <pre><%# GetSKUPrice() %></pre>
GetSKUFormattedPrice	-	<p>Returns a formatted SKU price based on the SKU data and the data of the current shopping cart.</p> <p>The price includes any catalog discounts that apply.</p> <div>  To display the formatted list price of a product, use the <i>GetSKUFormattedListPrice</i> method. </div> <pre><%# GetSKUFormattedPrice() %></pre>
GetSKUListPrice	-	<p>Returns an SKU list price based on the SKU data and the data of the current shopping cart. The list price is loaded from the <i>SKURetailPrice</i> column.</p> <pre><%# GetSKUListPrice() %></pre>
GetSKUFormattedListPrice	-	<p>Returns a formatted SKU list price based on the SKU data and the data of the current shopping cart. The list price is loaded from the <i>SKURetailPrice</i> column.</p> <pre><%# GetSKUFormattedListPrice() %></pre>
GetSKUOriginalPrice	-	<p>Returns the <i>greater</i> of the following SKU price options:</p> <ul style="list-style-type: none"> The product's list price (from the <i>SKURetailPrice</i> column) – OR – The product's price (from the <i>SKUPrice</i> column) without any discounts applied <p>If both prices are equal to the standard product price with discounts (i.e. the product's list price is equal to the price and no discounts apply), the method returns 0.</p> <pre><%# GetSKUOriginalPrice() %></pre>

GetSKUFormattedOriginalPrice	-	<p>Returns the <i>greater</i> of the following SKU price options and formats the result according to the currency used in the current shopping cart:</p> <ul style="list-style-type: none"> The product's list price (from the <i>SKURetailPrice</i> column) – OR – The product's price (from the <i>SKUPrice</i> column) without any discounts applied <p>If both prices are equal to the standard product price with discounts (i.e. the product's list price is equal to the price and no discounts apply), the method returns 0.</p> <p><%# GetSKUFormattedOriginalPrice() %></p>
GetSKUPriceSaving	<ul style="list-style-type: none"> <i>bool percentage</i> 	<p>Returns the amount of money saved on the price of the processed SKU, as a percentage or in the currency of the current shopping cart.</p> <p>The savings are calculated based on the difference between the product's price (from the <i>SKUPrice</i> column, including any catalog discounts that apply) and the <i>greater</i> of the following options:</p> <ul style="list-style-type: none"> The product's list price (from the <i>SKURetailPrice</i> column) – OR – The product's price (from the <i>SKUPrice</i> column) without any discounts applied <p>If the product's price is greater than the list price and no discounts apply, the method returns 0.</p> <p>The optional <i>bool percentage</i> parameter determines whether the result is returned as a percentage. By default the value is <i>false</i>, which means the result is returned in the currency of the current shopping cart.</p> <p><%# GetSKUPriceSaving(true) %></p>
GetSKUFormattedPriceSaving	-	<p>Returns the amount of money saved on the price of the processed SKU and formats the result according to the currency used in the current shopping cart.</p> <p>The savings are calculated based on the difference between the product's price (from the <i>SKUPrice</i> column, including any catalog discounts that apply) and the <i>greater</i> of the following options:</p> <ul style="list-style-type: none"> The product's list price (from the <i>SKURetailPrice</i> column) – OR – The product's price (from the <i>SKUPrice</i> column) without any discounts applied <p>If the product's price is greater than the list price and no discounts apply, the method returns 0.</p> <p><%# GetSKUFormattedPriceSaving() %></p>
GetSKUTax	-	<p>Depending on the site's Prices include tax setting, returns either:</p> <ul style="list-style-type: none"> The tax value that will be added to the processed SKU's price during checkout (if prices do not include tax) – OR – The tax portion of the processed SKU's price (if prices already include tax) <p>For example:</p> <ul style="list-style-type: none"> Prices do not include tax, the SKU price is 50 and the applied tax rate is 5% – returns 2.5 Prices include tax, the SKU price is 55 and the applied tax rate is 10% – returns 5 <p><%# GetSKUTax() %></p>

GetFormattedSKUTax	-	<p>Displays a tax value for the processed SKU and formats the result according to the currency used in the current shopping cart. Depending on the site's Prices include tax setting, returns either:</p> <ul style="list-style-type: none"> The tax value that will be added to the processed SKU's price during checkout (if prices do not include tax) – OR – The tax portion of the processed SKU's price (if prices already include tax) <p><%# GetFormattedSKUTax() %></p>
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SKU price formatting

Method	Parameters	Description and examples
ApplyExchangeRate	<ul style="list-style-type: none"> decimal price 	<p>Returns the specified price (<i>decimal price</i>) in the currency of the current user's shopping cart and then converts the value into the current site's main currency (according to the configured exchange rates).</p> <p><%# ApplyExchangeRate(100) %></p>
FormatPrice	<ul style="list-style-type: none"> decimal price <i>bool round</i> 	<p>Returns the specified price (<i>decimal price</i>) formatted according to the currency of the current user's shopping cart. The method does not work in contexts where the current shopping cart is not available.</p> <ul style="list-style-type: none"> Set whether the price should be rounded (<i>bool round</i>) to the number of decimal fields specified in the current site's currency settings. Price rounding is enabled by default if the <i>round</i> parameter is not specified. <p><%# FormatPrice(100, true) %></p>

SKU properties

Method	Parameters	Description and examples
GetSKUIndicatorProperty	<ul style="list-style-type: none"> string column 	<p>Returns a value from the specified column (<i>string column</i>) of the public status assigned to the transformed product. Commonly used public status columns are <i>PublicStatusDisplayName</i> and <i>PublicStatusName</i>.</p> <p>If the product is evaluated as a new product, the public status is determined by the Public status for 'new products' setting.</p> <p><%# GetSKUIndicatorProperty("PublicStatusDisplayName") %></p>
IsSKUAvailableForSale	-	<p>Returns whether the given SKU can be bought by customers on the live site based on the properties of the SKU.</p> <p><%# IsSKUAvailableForSale() %></p>
IsSKUInStock	-	<p>Returns whether the given SKU is available or not based on the stock amount property of the SKU.</p> <p><%# IsSKUInStock() %></p>



GetSKUNodeAlias	-	Returns the node alias of the given SKU. If there are multiple nodes for the SKU, the first occurrence is returned. If there is not any node for the SKU, an empty string is returned. <%# GetSKUNodeAlias() %>
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URLs

Method	Parameters	Description and examples
GetSKUUrl	-	Returns the user-friendly permanent URL of the SKU. <%# GetSKUUrl() %>
GetProductUrl	<ul style="list-style-type: none"> object (Guid) skuGuid object (string) skuName object (string) siteName 	Returns the user-friendly URL of the product specified by the GUID (<i>object skuGuid</i>) and name (<i>object skuName</i>) of the product on the specified site (<i>object siteName</i>). If you do not specify the site name, the system uses the current site. <%# GetProductUrl(Eval("SkuGuid"), Eval("SkuName"), Eval("SiteName")) %>
GetProductUrlById	<ul style="list-style-type: none"> object (int) skuID object (string) skuName object (string) siteName 	Returns the user-friendly URL of the product specified by the ID (<i>object skuID</i>) and name (<i>object skuName</i>) of the product on the specified site (<i>object siteName</i>). If you do not specify the site name, the system uses the current site. <%# GetProductUrlById(Eval("SkuID"), Eval("SkuName"), Eval("SiteName")) %>
GetProductUrlForFeed	<ul style="list-style-type: none"> object (Guid) skuGUID object (string) skuName object (string) siteName 	Returns the URL of the specified product (<i>object skuGUID</i>) with the specified name (<i>object skuName</i>) with the feed query string parameter in the URL for the feed on the specified site (<i>object siteName</i>). If you do not specify the site name, the system uses the current site. <%# GetProductUrlForFeed(Eval("SkuGuid"), Eval("SkuName"), Eval("SiteName")) %>

GetSKUImageUrl	<ul style="list-style-type: none"> int width int height OR <ul style="list-style-type: none"> int maxSideSize 	<p>Returns the URL of the product image. Specify the required width (<i>object width</i>) and height (<i>object height</i>) of the image, or the maximum side width of the image (<i>object maxside size</i>).</p> <p>If the product image is not specified, the URL of the default product image is returned.</p> <pre><%# GetSKUImageUrl(200, 300) %></pre>
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Discounts

Method	Parameters	Description and examples
GetDiscountCouponCodeRemoveButton	<ul style="list-style-type: none"> string couponCode string cssClass string buttonText 	<p>Available for transformations displaying coupon code items using the Coupon codes web part.</p> <p>Generates an <code><input></code> element (of the <i>submit</i> type) that removes the specified coupon code from the shopping cart when clicked.</p> <pre><%# GetDiscountCouponCodeRemoveButton(Eval<string>("Code"), "btn") %></pre>
GetMultiBuyDiscountNames	-	<p>Available for transformations displaying shopping cart items (for example using the Shopping cart content web part).</p> <p>Returns the names and price values of Buy X Get Y discounts and Product coupons applied to the current shopping cart item, enclosed within li HTML tags.</p> <pre><%# GetMultiBuyDiscountNames() %></pre>

Google tag manager product data

Method	Parameters	Description and examples
GetGtmProductJson	<ul style="list-style-type: none"> object additionalData string purpose 	<p>Returns a JSON string containing the data of the transformed product (SKU), in a format suitable for use with the Google Tag Manager and Universal Analytics Enhanced Ecommerce features.</p> <p>For more information, see Integrating Google Analytics Enhanced Ecommerce.</p> <p>The optional <i>additionalData</i> parameter allows you to extend the returned JSON string (custom fields and values).</p> <p>The optional <i>purpose</i> parameter can be processed in code customizations of the product data creation process, if you need to return different JSON data for various scenarios.</p> <pre><%# GetGtmProductJson("{\"list\": 'Search Results'}", "searchImpressions") %></pre>

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Membership and community

Method	Parameters	Description and examples
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GetAge	<ul style="list-style-type: none"> object dateOfBirth string unknownAge 	<p>Returns age calculated according to the date of birth given in the first parameter. If the date of birth is not available, the method returns the string specified in the second parameter.</p> <pre><%# GetAge(Eval("UserDateOfBirth"),"Unknown age") %></pre>
GetBadgeImage	<ul style="list-style-type: none"> int badgeId 	<p>Returns an image tag that displays the specified user badge.</p> <pre><%# GetBadgeImage(Eval<int>("UserBadgeID")) %></pre>
GetBadgeName	<ul style="list-style-type: none"> int badgeId 	<p>Returns the display name of the specified badge.</p> <pre><%# GetBadgeName(Eval<int>("UserBadgeID")) %></pre>
GetGender	<ul style="list-style-type: none"> object genderObj 	<p>Returns the gender of users according to the value specified in the parameter. Load the value from the user's gender field.</p> <ul style="list-style-type: none"> 1 = Male 2 = Female unspecified (0) = N/A <pre><%# GetGender(Eval("UserGender")) %></pre>
GetGroupAvatarImage	<ul style="list-style-type: none"> <i>object avatarId</i> int maxSideSize <i>int width</i> <i>int height</i> object alt 	<p>Returns an image tag that displays the avatar of a group. The group is either identified automatically using the <i>AvatarGuid</i> field of the transformed group, or you can optionally specify an identifier value using the first parameter.</p> <pre><%# GetGroupAvatarImage(200, "Alternate text") %> <%# GetGroupAvatarImage(Eval("GroupAvatarID"), 200, "Alternate text") %> <%# GetGroupAvatarImage(Eval("GroupAvatarID"), 200, 150, 150, "Alternate text") %></pre>
GetGroupProfileUrl	<ul style="list-style-type: none"> object groupNameObj <i>string siteName</i> 	<p>Returns the URL of the specified group's profile page.</p> <pre><%# GetGroupProfileUrl(Eval("GroupName")) %></pre>
GetMemberProfileUrl	<ul style="list-style-type: none"> object memberNameObj <i>string siteName</i> 	<p>Returns the URL of the user profile page for the specified group member.</p> <pre><%# GetMemberProfileUrl(Eval("UserName")) %></pre>



GetUserAvatarImage	<ul style="list-style-type: none"> • <i>object avatarId</i> • <i>object userId</i> • <i>int maxSideSize</i> • <i>int width</i> • <i>int height</i> • <i>object alt</i> 	<p>Returns an image tag that displays the avatar of a user. The user is either identified automatically using the <i>AvatarGuid</i> field of the transformed user, or you can specify either an avatar identifier or user identifier.</p> <pre><%# GetUserAvatarImage(200, "Alternate text") %> <%# GetUserAvatarImage(Eval("UserID"), 200, 150, 150, "Alternate text") %> <%# GetUserAvatarImage(Eval("UserAvatarID"), Eval("UserID"), 200, "Alternate text") %> <%# GetUserAvatarImage(Eval("UserAvatarID"), Eval("UserID"), 200, 150, 150, "Alt") %></pre>
GetUserAvatarImageUrl	<ul style="list-style-type: none"> • <i>object avatarId</i> • <i>object userId</i> • <i>string userEmail</i> • <i>int maxSideSize</i> • <i>int width</i> • <i>int height</i> 	<p>Returns the URL of the specified user's avatar image. If the user does not have an avatar, the method returns the URL of the default avatar image.</p> <pre><%# GetUserAvatarImageUrl(Eval("UserAvatarID"), Eval("UserID"), 200, 150, 150) %></pre>
GetUserFullName	<ul style="list-style-type: none"> • <i>int userId</i> 	<p>Returns the full name of the specified user.</p> <pre><%# GetUserFullName(Eval<int>("UserID")) %></pre>
GetUserProfileUrl	<ul style="list-style-type: none"> • <i>object userNameObj</i> • <i>string siteName</i> 	<p>Returns the URL of the user profile page for the specified user.</p> <pre><%# GetUserProfileURL(Eval("UserName")) %></pre>
TrimSitePrefix	<ul style="list-style-type: none"> • <i>object userName</i> 	<p>Removes the site prefix from user names (if site prefixes are enabled in Settings -> Security & Membership -> Use site prefix for user names).</p>

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Date & time

Method	Parameters	Description and examples
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FormatDate	<ul style="list-style-type: none"> object dateTime 	<p>Displays the specified date without the time component. The method automatically formats the date according to the current culture.</p> <pre><%# FormatDate(DateTime.Now) %></pre>
FormatDateTime	<ul style="list-style-type: none"> object dateTime string format 	<p>Displays the date and time value according to a format string. The method formats the date and time according to the current culture.</p> <pre><%# FormatDateTime(DateTime.Now, "MM/dd/yyyy HH:mm") %></pre>
GetDate	<ul style="list-style-type: none"> string dateTimeField 	<p>Loads a date value from the specified field of the transformed object's data.</p> <pre><%# GetDate("NewsReleaseDate") %></pre>
GetDateTime	<ul style="list-style-type: none"> string dateTimeField OR object dateTime OR DateTime dateTime <i>string format</i> 	<p>Loads a date and time value from the specified field of the transformed object's data. The value uses the time zone set for the server.</p> <p>Optionally, you can format the date and time value according to a format string.</p> <pre><%# GetDateTime("NewsReleaseDate") %></pre>
GetCustomDateTime	<ul style="list-style-type: none"> object dateTime string timeZoneName 	<p>Converts a date and time value to the specified time zone.</p> <pre><%# GetCustomDateTime(DateTime.Now, "GreenwichMeanTime") %></pre>
GetDateTimeString	<ul style="list-style-type: none"> object dateTime bool showTooltip 	<p>Converts the specified date and time value to the time zone set for the server. The second parameter determines whether the displayed date and time has a tooltip.</p> <pre><%# GetDateTimeString("NewsReleaseDate", true) %></pre>
GetSiteDateTime	<ul style="list-style-type: none"> object dateTime 	<p>Converts the specified date and time value to the current site's time zone.</p> <pre><%# GetSiteDateTime(Eval("NewsReleaseDate")) %></pre>
GetUserDateTime	<ul style="list-style-type: none"> object dateTime 	<p>Converts the specified date and time value to the time zone set for the user viewing the page.</p> <pre><%# GetUserDateTime(Eval("NewsReleaseDate")) %></pre>

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Smart search

 See [Setting up search on your website](#) for more information.

Method	Parameters	Description and examples
SearchResultUrl	<ul style="list-style-type: none"> <i>bool absolute</i> <i>bool addLangParameter</i> 	<p>Returns the URL of the page containing the details of the search result.</p> <ul style="list-style-type: none"> The optional 'absolute' parameter indicates if the returned URL is absolute. <ul style="list-style-type: none"> False by default. The optional 'addLangParameter' indicates if a culture specific query should be added to the URL. <ul style="list-style-type: none"> True by default. Note that clicking a link leading to a different culture changes the visitor's site culture. <pre><%# SearchResultUrl(true, false) %></pre> <p>Note: The SearchResultUrl method does not return valid URLs for search results produced by general indexes, since the indexed objects are not pages and there is no default page to display the object details. You need to write and use a custom transformation method to generate the correct URL of a custom page displaying the appropriate information.</p> <p>Combine with default culture</p> <p>When the Combine with default culture setting is enabled, visitors will see pages in the default culture if they aren't translated to their current culture.</p> <ul style="list-style-type: none"> If the <i>addLangParameter</i> is set to false, the site culture will NOT change once visitors click the link leading to the page in the default culture. That is, they keep on browsing the site in the culture they made the search in. If the <i>addLangParameter</i> is set to true, the site culture will change once visitors click the link leading to the page in the default culture. That is, they keep on browsing the site in the default culture afterwards.
SearchHighlight	<ul style="list-style-type: none"> <i>string text</i> <i>string startTag</i> <i>string endTag</i> 	<p>Wraps the text of the first parameter into the tags specified by the other two parameters.</p> <pre><%# SearchHighlight(SearchResultUrl(),"","")%></pre>
GetSearchImageUrl	<ul style="list-style-type: none"> <i>string noImageUrl</i> <i>int maxSideSize</i> 	<p>Returns the URL of the current search result's image.</p> <p>The first parameter specifies the URL used if no image is found – enter either the full relative path starting from the application root (~), or a partial path starting from the ~/App_Themes /<skin_folder>/Images/ directory. The second parameter specifies the maximum side size to which the method resizes the image.</p> <pre><%# GetSearchImageUrl("~/App_Themes/Default/Images/CMSModules/CMS_SmartSearch/no_image.gif", 90) %></pre> <pre><%# GetSearchImageUrl("/CMSModules/CMS_SmartSearch/no_image.gif", 90) %></pre>

GetSearchValue	<ul style="list-style-type: none"> string column Name 	<p>Returns the value of the specified field for the current search result. Allows you to access both the general fields of the given objects type (page, custom table etc.) and any other fields included in the search index.</p> <pre><%# GetSearchValue("DocumentName") %></pre>
GetSearchedContent	<ul style="list-style-type: none"> string content 	<p>Parses the searched content as XML if required, and removes dynamic controls and macro expressions.</p>

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Syndication (RSS, Atom, XML)



See also: [Setting up syndication feeds](#)

Method	Parameters	Description and examples
GetAtomDateTime	<ul style="list-style-type: none"> object dateTime 	<p>Returns the specified date and time value in a format suitable for Atom feeds (according to RFC 3339).</p> <pre><%# GetAtomDateTime(Eval("DocumentCreatedWhen")) %></pre>
GetRSSDateTime	<ul style="list-style-type: none"> object dateTime 	<p>Returns the specified date and time value in a format suitable for RSS feeds (according to RFC 882).</p> <pre><%# GetRSSDateTime(Eval("DocumentCreatedWhen")) %></pre>
GetBlogCommentUrlForFeed	<ul style="list-style-type: none"> object documentIdObj 	<p>Returns the URL of the comments added to the blog post specified by a page identifier. Includes the feed query string parameter in the URL.</p> <pre><%# GetBlogCommentUrlForFeed(Eval("DocumentID")) %></pre>
GetDocumentUrlForFeed	-	<p>Returns the URL of the transformed document with the feed query string parameter in the URL. The method takes the feed name from the Feed name property of the syndication web part used to generate the feed.</p> <p>Note: Since the method adds the feed query string parameter, please use a different parameter name in the Feed querystring key property of the syndication web part.</p> <pre><%# GetDocumentUrlForFeed() %></pre>
GetForumPostUrlForFeed	<ul style="list-style-type: none"> object postIdPath object forumId 	<p>Returns the URL of the forum post specified by the path in the first parameter and the forum identifier in the second parameter. Includes the feed query string parameter in the URL.</p> <pre><%# GetForumPostUrlForFeed(Eval("PostIDPath"), Eval("PostForumID")) %></pre>

GetMediaFileUrlForFeed	<ul style="list-style-type: none"> object fileGUID object fileName 	Returns the URL of the media file specified by the GUID in the first parameter and the file name in the second parameter. Includes the feed query string parameter in the URL. <%# GetMediaFileUrlForFeed(Eval("FileGUID"), Eval("FileName")) %>
GetMessageBoardUrlForFeed	<ul style="list-style-type: none"> object documentIdObj 	Returns the URL of the message board specified by the identifier of the page containing the message board. Includes the feed query string parameter in the URL. <%# GetMessageBoardUrlForFeed("DocumentIdObj") %>

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Microsoft SharePoint

 See also: [Displaying SharePoint data in Kentico](#)

Method	Parameters	Description and examples
GetSharePointFileUrl	<ul style="list-style-type: none"> <i>string</i> fileRefColumnName <i>int</i> cacheMinutes <i>int</i> cacheFileSize <i>int</i> width <i>int</i> height <i>int</i> maxSize 	Returns the URL of a file from a SharePoint server. The first parameter sets the name of the data column containing the name of the file (<i>FileRef</i> by default). Has optional parameters for specifying file caching and image dimensions. <%# GetSharePointFileUrl("NameOfColumnContainingPathToFile", 5, 1024) %>
GetSharePointImageUrl	<ul style="list-style-type: none"> <i>string</i> fileRefColumnName <i>int</i> width <i>int</i> height <i>int</i> maxSize 	Returns the URL of an image file from a SharePoint server. The first parameter sets the name of the data column containing the name of the file (<i>FileRef</i> by default). Has optional parameters for specifying image dimensions. <%# GetSharePointImageUrl("NameOfColumnContainingPathToFile", null, null, 300) %>

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Placeholders for sublevels in hierarchical data

If you are writing transformations for items from a hierarchical data source (for example page data from the *Universal viewer* web part), you can add a placeholder that sets the position of sublevels:

For **ASCX** transformations:

```
<cms:SubLevelPlaceholder runat="server" ID="plcSub" />
```

For **Text** transformations:

```
{^SubLevelPlaceholder^}
```

When displaying items that have descendants in the hierarchy, the placeholder is replaced by the child level under the given item. If you do not add the sublevel placeholder, the system automatically renders child levels after the code of parent items.

You can use the sublevel placeholder in [hierarchical transformations](#), as well as standard transformations applied to hierarchical data.



Note: The sublevel placeholder only works if the **Hierarchical display mode** property of the viewer web part is set to **Inner**.

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Editing buttons for pages displayed by listing web parts

You can configure listing web parts (such as the *Repeater*) to display special buttons in editing mode (on the **Page** tab of the **Pages** application). The buttons allow users to edit or delete individual items displayed in the list.

To set the exact position of the editing buttons, add the following expression into the code of **ASCX** item transformations:

```
##editbuttons##
```

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