Sage 300 Web Screens SDK

Html Helpers

October 2021

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1. Introduction

The Sage 300 web screens use HTML Helpers in the ASP.NET MVC razor views.

Always use helpers instead of writing HTML tags manually.

Sage provides numerous extensions to the HTML Helper class and the usages and interfaces are explained in this document.

1. Composite Extensions

This section will describe the various composite extensions that are available in the Sage 300 Web Screens.

A composite extension is one that creates multiple controls or widgets.

For example, here is an existing snippet that creates a Label, a Numeric Textbox, and a Validation Message:

@Html.SageLabelFor(model => model.Data.Quantity, new { @id = "lblQuantity", @class = "" })

@Html.KoSageNumericBoxFor(model => model.Data.Quantity, new { @value = "Data.Quantity", @sagevalue = "Data.Quantity", @sagedisable = "IsQuantityDisabled" }, new { @id = "nbrQuantity", @class = "numeric default" })

@Html.ValidationMessageFor(model => model.Data.Quantity, null, new { @class = "" })

The three lines above can be replaced with a single composite extension as follows:

@Html.SgNumericFor(model => model.Data.Quantity, new { sagevalue = "Data.Quantity", sagedisable = " IsQuantityDisabled " })

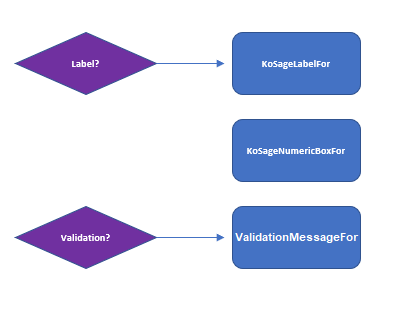
The purpose of the composite extensions is to:

* Create additional controls if specified while creating the main control.
* Internally implement functionality for the developer instead of requiring some information to be passed to the helper.
* Name controls based upon standards while allowing this convention to be overridden.
* Simplification!
  1. SgNumericFor

The ***SgNumericFor*** helper will create a numeric textbox, an optional label, and an optional validation.

The interface requires a minimal number of parameters to be specified for default behaviour:

* The default is that a label will be created.
  + It will be named “lbl” + propertyName.
  + It can be overridden with the “id” html attribute.
* The default is that a validation message will be created.
* The default is that the size will default to ‘default’.
* The default is that the numeric textbox will be named “Data\_” + propertyName.
  + It can be overridden with the “id” html attribute.
* The @visible/@sagevisible attribute specified on the numeric textbox will be assigned to the label if one is specified or the labelDataAttributes property can be used.
  + 1. Flow



* + 1. Interface

/// <summary>

/// Returns an optional label, a numeric textbox, and an optional validation

/// </summary>

/// <typeparam name="TModel">The type of the model</typeparam>

/// <typeparam name="TProperty">The type of the property</typeparam>

/// <param name="htmlHelper">The HTML helper instance that this method extends</param>

/// <param name="expression">An expression that identifies the properties to render.</param>

/// <param name="dataAttrs">Data attributes for the textbox</param>

/// <param name="htmlAttrs">HTML attributes (i.e., id, class) for the textbox, otherwise null</param>

/// <param name="format">Format for the input otherwise empty</param>

/// <param name="size">The size of the numeric textbox otherwise 'default'</param>

/// <param name="includeLabel">True to add label otherwise false (no label)</param>

/// <param name="labelText">Label text (non-bound) otherwise null</param>

/// <param name="labelDataAttrs">Data attributes for the label, otherwise null</param>

/// <param name="labelHtmlAttrs">HTML attributes (i.e., id, class) for the label, otherwise null</param>

/// <param name="includeValidation">True to add validation otherwise false (no validation)</param>

/// <param name="validationText">Validation override message otherwise null</param>

/// <param name="validationHtmlAttrs">HTML attributes for the validation, otherwise null</param>

/// <param name="hasCustomBinding">Generate custom data-bind attributes</param>

/// <returns>HTML input elements for a textbox and other optional controls (label, validation)</returns>

public static MvcHtmlString SgNumericFor<TModel, TProperty>(this HtmlHelper<TModel> htmlHelper,

Expression<Func<TModel, TProperty>> expression, object dataAttrs,

object htmlAttrs = null, string format = "", string size = "default",

bool includeLabel = true, string labelText = null, object labelDataAttrs = null,

object labelHtmlAttrs = null, bool includeValidation = true, string validationText = null,

object validationHtmlAttrs = null, bool hasCustomBinding = true)

* + 1. Parameters

|  |  |  |
| --- | --- | --- |
| parameter | Description | Example |
| expression | ***Required***. The expression. | model => model.Data.Quantity |
| dataAttrs | ***Required***. The knockout data attributes for the textbox specified in an anonymous object or a RouteValueDictionary.   * sagedisable, sageenable, sageDataPicker, sagetext, sagevalue, SagekendoGrid, Amount, sagechecked, sagevisible, ­sageoverridden, value, valueUpdate, visible­, disable | new { sagevalue = "Quantity", sagedisable = "IsQuantityDisabled" }  Note: If specified, the sagevalue will be copied to the value attribute.  Note: If specified, the sagedisable attribute will be copied to the disable attribute.  Note: if specified, the visible/sagevisible attribute will be copied to the visible/sagevisible attribute of the label. |
| htmlAttrs | ***Optional***. The html attributes for the textbox specified in an anonymous object or a RouteValueDictionary.   * “id” can be specified when the default of “Data\_”+property requires overriding. * “@class” will internally assign “numeric {size}” and therefore does not need to be assigned externally. | htmlAttrs: new { id = "nbrQuantity", @class = "data-nav" } |
| format | ***Optional****.* The format for the input if required to be different from default masking | format: “0” |
| size | ***Optional.*** The size for the numeric textbox. Defaults to “default”.   * default, small, smaller, xsmall, large, larger, xlarge, medium, mediumlarge | size: “small” |
| includeLabel | ***Optional.*** True to add label otherwise no label will be added. Defaults to true. | includeLabel: false |
| labelText | ***Optional.*** If a label is included, the label text will be assigned from the expression’s property unless being overridden by this parameter | labelText: ReceiptResx.Quantity |
| labelDataAttrs | ***Optional***. The knockout data attributes for the label specified in an anonymous object or a RouteValueDictionary. See dataAttrs for value possibilities. | htmlAttrs: new { sagedisable = "IsQuantityDisabled" } |
| labelHtmlAttrs | ***Optional***. The html attributes for the label specified in an anonymous object or a RouteValueDictionary.   * “id” can be specified when the default of “lbl”+property requires overriding. | labelHtmlAttrs: new { id = "Line\_Number", @class = “required” } |
| includeValidation | ***Optional.*** True to add validation otherwise no validation will be added. Defaults to true. | includeValidation: false |
| validationText | ***Optional.*** If a validation is included, the validation text will be assigned from the attribute of the expression’s property unless being overridden by this parameter | validationText: ReceiptResx.ValidCurrency |
| validationHtmlAttrs | ***Optional***. The html attributes for the validation specified in an anonymous object or a RouteValueDictionary. | validationHtmlAttrs: new { @class = “vlidation-bottom” } |
| hasCustomBinding | ***Optional:*** True to generate custom binding attributes (i.e., sagedisable, sagevalue, etc.) otherwise false to only generate native Kendo bindings. Default value is true. | hasCustomBinding: false |

* + 1. Individual Helpers Example

<div class="numeric-group">

@Html.SageLabel("lblUnitWeight",ICCommonResx.UnitWeight)

@Html.KoSageNumericBoxFor(m => m.Data.UnitWeight,

new { @sagevalue = "Data.UnitWeight"},

new { @id = "txtUnitWeight", @class = "numeric default" })

</div>

* + 1. New Composite Helper Example

<div class="numeric-group">

@Html.SgNumericFor(m => m.Data.UnitWeight,

new { sagevalue = "Data.UnitWeight" },

new { id = "txtUnitWeight" },

labelText: ICCommonResx.UnitWeight, includeValidation: false)

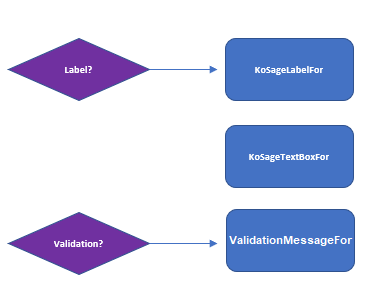
</div>

* Do not need to specify label id attribute as helper defaults to these values.
* Do not need to specify **numeric** or **default** values for class attribute as helper defaults to these values.
* Need to specify no to validation message as helper defaults to including validation message.
  1. SgTextFor

The ***SgTextFor*** helper will create a text textbox, an optional label, and an optional validation.

The interface requires a minimal number of parameters to be specified for default behaviour:

* The default is that a label will be created.
  + It will be named “lbl” + propertyName.
  + It can be overridden with the “id” html attribute.
* The default is that a validation message will be created.
* The default is that the size will default to ‘default’.
* The default is that the textbox will be named “Data\_” + propertyName.
  + It can be overridden with the “id” html attribute.
* The @visible/@sagevisible attribute specified on the textbox will be assigned to the label if one is specified or the labelDataAttributes property can be used.
  + 1. Flow



* + 1. Interface

/// <summary>

/// Returns an optional label, a text textbox, and an optional validation

/// </summary>

/// <typeparam name="TModel">The type of the model</typeparam>

/// <typeparam name="TProperty">The type of the property</typeparam>

/// <param name="htmlHelper">The HTML helper instance that this method extends</param>

/// <param name="expression">An expression that identifies the properties to render.</param>

/// <param name="dataAttrs">Data attributes for the textbox</param>

/// <param name="htmlAttrs">HTML attributes (i.e., id, class) for the textbox, otherwise null</param>

/// <param name="size">The size of the numeric textbox otherwise 'default'</param>

/// <param name="includeLabel">True to add label otherwise false (no label)</param>

/// <param name="labelText">Label text (non-bound) otherwise null</param>

/// <param name="labelDataAttrs">Data attributes for the label, otherwise null</param>

/// <param name="labelHtmlAttrs">HTML attributes (i.e., id, class) for the label, otherwise null</param>

/// <param name="includeValidation">True to add validation otherwise false (no validation)</param>

/// <param name="validationText">Validation override message otherwise null</param>

/// <param name="validationHtmlAttrs">HTML attributes for the validation, otherwise null</param>

/// <param name="hasCustomBinding">Generate custom data-bind attributes</param>

/// <returns>HTML input elements for a textbox and other optional controls (label, validation)</returns>

public static MvcHtmlString SgTextFor<TModel, TProperty>(this HtmlHelper<TModel> htmlHelper,

Expression<Func<TModel, TProperty>> expression, object dataAttrs,

object htmlAttrs = null, string size = "default",

bool includeLabel = true, string labelText = null, object labelDataAttrs = null,

object labelHtmlAttrs = null, bool includeValidation = true, string validationText = null,

object validationHtmlAttrs = null, bool hasCustomBinding = true)

* + 1. Parameters

|  |  |  |
| --- | --- | --- |
| parameter | Description | Example |
| expression | ***Required***. The expression. | model => model.Data.Description |
| dataAttrs | ***Required***. The knockout data attributes for the textbox specified in an anonymous object or a RouteValueDictionary.   * sagedisable, sageenable, sageDataPicker, sagetext, sagevalue, SagekendoGrid, Amount, sagechecked, sagevisible, sageoverridden, value, valueUpdate, visible­, disable | new { sagevalue = "Data.Description", sagedisable = "IsDescriptionDisabled" }  Note: If specified, the sagevalue will be copied to the value attribute.  Note: If specified, the sagedisable attribute will be copied to the disable attribute.  Note: valueUpdate will default to “’input’” and does not need to be specified unless another value for valueUpdate is required.  Note: if specified, the visible/sagevisible attribute will be copied to the visible/sagevisible attribute of the label. |
| htmlAttrs | ***Optional***. The html attributes for the textbox specified in an anonymous object or a RouteValueDictionary.   * “id” can be specified when the default of “Data\_”+property requires overriding. * “@class” will internally assign “ {size}” and therefore does not need to be assigned externally. | htmlAttrs: new { id = "txtDescription"} |
| size | ***Optional.*** The size for the textbox. Defaults to “default”.   * default, small, smaller, xsmall, large, larger, xlarge, medium, mediumlarge | size: “large” |
| includeLabel | ***Optional.*** True to add label otherwise no label will be added. Defaults to true. | includeLabel: false |
| labelText | ***Optional.*** If a label is included, the label text will be assigned from the expression’s property unless being overridden by this parameter | labelText: ReceiptResx.Currency |
| labelDataAttrs | ***Optional***. The knockout data attributes for the label specified in an anonymous object or a RouteValueDictionary. See dataAttrs for value possibilities. | htmlAttrs: new { sagedisable = "IsDescriptionDisabled" } |
| labelHtmlAttrs | ***Optional***. The html attributes for the label specified in an anonymous object or a RouteValueDictionary.   * “id” can be specified when the default of “lbl”+property requires overriding. | labelHtmlAttrs: new { id = "lblDescription", @class = “required” } |
| includeValidation | ***Optional.*** True to add validation otherwise no validation will be added. Defaults to true. | includeValidation: false |
| validationText | ***Optional.*** If a validation is included, the validation text will be assigned from the attribute of the expression’s property unless being overridden by this parameter | validationText: ReceiptResx.ValidCurrency |
| validationHtmlAttrs | ***Optional***. The html attributes for the validation specified in an anonymous object or a RouteValueDictionary. | validationHtmlAttrs: new { @class = “vlidation-bottom” } |
| hasCustomBinding | ***Optional:*** True to generate custom binding attributes (i.e., sagedisable, sagevalue, etc.) otherwise false to only generate native Kendo bindings. Default value is true. | hasCustomBinding: false |

* + 1. Individual Helpers Example

<div class="input-group">

@Html.SageLabel("Address\_ShortName", VendorResx.ShortName)

@Html.KoSageTextBoxFor(m => m.Data.ShortName,

new { @sagevalue = "Data.ShortName", @valueUpdate = "'input'" },

new { @id = "txtShortName", @maxlength = "10", @class = "default" })

</div>

* + 1. New Composite Helper Example

<div class="input-group">

@Html.SgTextFor(m => m.Data.ShortName,

new { @sagevalue = "Data.ShortName" }, new { @id = "txtShortName", @maxlength = "10" },

labelHtmlAttrs: new { @id = "Address\_ShortName" }, labelText: VendorResx.ShortName,

includeValidation: false)

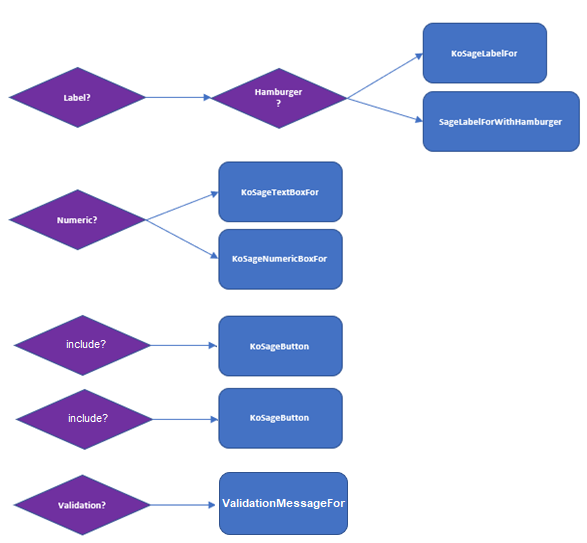
</div>

* Need to specify label id attribute to override helper default.
* Do not need to specify **default** value for class attribute and **‘input’** for valueUpdate attribute as helper defaults to these values.
* Need to specify no to validation message as helper defaults to including validation message.
  1. SgFinderFor

The ***SgFinderFor*** helper will create a numeric or text textbox, an optional label or hamburger label, a “go” button, a ‘finder” button, and an optional validation.

The interface requires a minimal number of parameters to be specified for default behaviour:

* The default is that a label will be created.
  + It will be named “lbl” + propertyName.
  + It can be overridden with the “id” html attribute.
* The default is that a hamburger label will not be created.
  + If will be named “lnk” + propertyName
  + It can be overridden with the “id” html attribute.
* The default is that the textbox will be for text.
  + It can be made to be numeric by specifying the isNumeric parameter.
* The default is that a validation message will be created.
* The default is that the size will default to ‘default’.
* The default is that the textbox will be named “Data\_” + propertyName.
  + It can be overridden with the “id” html attribute.
* The default is that the Go button will be named “btnLoad” + propertyName.
  + It can be overridden by specifying the goButtonId parameter.
* The default is that the Find button will be named “btnFinder” + propertyName.
  + It can be overridden by specifying the findButtonId parameter.
* The @visible/@sagevisible attribute specified on the textbox will be assigned to the label if one is specified or the labelDataAttributes property can be used.
  + 1. Flow



* + 1. Interface

/// <summary>

/// Returns an optional label, a finder (textbox, go button, finder button), and an optional validation

/// </summary>

/// <typeparam name="TModel">The type of the model</typeparam>

/// <typeparam name="TProperty">The type of the property</typeparam>

/// <param name="htmlHelper">The HTML helper instance that this method extends</param>

/// <param name="expression">An expression that identifies the properties to render.</param>

/// <param name="dataAttrs">Data attributes for the textbox</param>

/// <param name="htmlAttrs">HTML attributes (i.e., id, class) for the textbox, otherwise null</param>

/// <param name="size">The size of the numeric textbox otherwise 'default'</param>

/// <param name="isNumeric">True if finder is numeric otherwise false (text)</param>

/// <param name="goButtonId">Go button id otherwise defaults to btnLoad... </param>

/// <param name="findButtonId">Find button id otherwise defaults to btnFinder...</param>

/// <param name="includeLabel">True to add label otherwise false (no label)</param>

/// <param name="labelText">Label text (non-bound) otherwise null</param>

/// <param name="labelDataAttrs">Data attributes for the label, otherwise null</param>

/// <param name="labelHtmlAttrs">HTML attributes (i.e., id, class) for the label, otherwise null</param>

/// <param name="labelWithHamburger">True to add a hamburger to the label otherwise false</param>

/// <param name="hamburgerUrl">The text to use for the hamburger menu's HREF (NOT USED)</param>

/// <param name="hamburgerValue">The inner text of the hamburger menu</param>

/// <param name="buttonDataAttrs">Data attributes for the button, otherwise null</param>

/// <param name="includeValidation">True to add validation otherwise false (no validation)</param>

/// <param name="validationText">Validation override message otherwise null</param>

/// <param name="validationHtmlAttrs">HTML attributes for the validation, otherwise null</param>

/// <param name="includeNavigationButtons">True for navigation, otherwise false</param>

/// <param name="includeAddButton">True to add new button, otherwise false</param>

/// <param name="navGroupIndex">Zero for main navigation and non-zero for minor entities</param>

/// <param name="includeGoButton">True to add Go Button otherwise false (no Go button)</param>

/// <param name="includeFinderButton">True to add Finder Button otherwise false (no button)</param>

/// <param name="hasCustomBinding">Generate custom data-bind attributes</param>

/// <returns>HTML input elements for a finder and other optional controls (label, validation)</returns>

public static MvcHtmlString SgFinderFor<TModel, TProperty>(this HtmlHelper<TModel> htmlHelper,

Expression<Func<TModel, TProperty>> expression, object dataAttrs,

object htmlAttrs = null, string size = "default", bool isNumeric = false,

string goButtonId = null, string findButtonId = null,

bool includeLabel = true, string labelText = null,

object labelDataAttrs = null, object labelHtmlAttrs = null,

bool labelWithHamburger = false, string hamburgerUrl = null, string hamburgerValue = null,

object buttonDataAttrs = null,

bool includeValidation = true, string validationText = null, object validationHtmlAttrs = null,

bool includeNavigationButtons = false, bool includeAddButton = false, int navGroupIndex = 0,

bool includeGoButton = false, bool includeFinderButton = true, bool hasCustomBinding = true)

* + 1. Parameters

|  |  |  |
| --- | --- | --- |
| parameter | Description | Example |
| expression | ***Required***. The expression. | model => model.Data.Project |
| dataAttrs | ***Required***. The knockout data attributes for the textbox specified in an anonymous object or a RouteValueDictionary.   * sagedisable, sageenable, sageDataPicker, sagetext, sagevalue, SagekendoGrid, Amount, sagechecked, sagevisible, sageoverridden, value, valueUpdate, visible­, disable | new { sagevalue = "Data.Project", sagedisable = "IsProjectDisabled" }  Note: If specified, the sagevalue will be copied to the value attribute.  Note: If specified, the sagedisable attribute will be copied to the disable attribute.  Note: For text texboxes only, valueUpdate will default to “’input’” and does not need to be specified unless another value for valueUpdate is required.  Note: if specified, the visible/sagevisible attribute will be copied to the visible/sagevisible attribute of the label. |
| htmlAttrs | ***Optional***. The html attributes for the textbox specified in an anonymous object or a RouteValueDictionary.   * “id” can be specified when the default of “Data\_”+property requires overriding. * “@class” will internally assign “ {size}” or “numeric {size}” and therefore does not need to be assigned externally. | htmlAttrs: new { id = "txtProject"} |
| size | ***Optional.*** The size for the textbox. Defaults to “default”.   * default, small, smaller, xsmall, large, larger, xlarge, medium, mediumlarge | size: “small” |
| isNumeric | ***Optional.*** True for a numeric textbox otherwise false for a text textbox. Defaults to false. | isNumeric: true |
| goButtonId | ***Optional.*** The name of the Go Button. Defaults to null and will be created internally as “btnLoad” + propertyName. | goButtonId: “btnGo” |
| findButtonId | ***Optional.*** The name of the Finder Button. Defaults to null and will be created internally as “btnFinder” + propertyName | findButtonId: “btnFinder” |
| includeLabel | ***Optional.*** True to add label otherwise no label will be added. Defaults to true. | includeLabel: false |
| labelText | ***Optional.*** If a label is included, the label text will be assigned from the expression’s property unless being overridden by this parameter | labelText: ReceiptResx.Currency |
| labelDataAttrs | ***Optional***. The knockout data attributes for the label specified in an anonymous object or a RouteValueDictionary. See dataAttrs for value possibilities. | htmlAttrs: new { sagedisable = "IsProjectDisabled" } |
| labelHtmlAttrs | ***Optional***. The html attributes for the label specified in an anonymous object or a RouteValueDictionary.   * “id” can be specified when the default of “lbl”+property requires overriding. * If labelWithHamburger is true,   + The “id” attribute can be used when the default of “lnk” + propertyName requires overriding.   + The “title” attribute may be specified to provide a title for the hamburger menu | labelHtmlAttrs: new { id = "lblProject", @class = “required” }  labelHtmlAttrs: new { id = "lnkProject", @class = “required”, @title = APCommonResx.Details } |
| labelWithHamburger | ***Optional.*** True to add a hamburger to the label otherwise false. Defaults to false.  Note: If specifying a hamburger, the labelHtmlAttrs parameter to be used to specify an id, title and other attributes. | labelWithHamburger: true |
| hamburgerUrl | ***Optional.*** The text to use for the hamburger’s HREF.  Note: Not used at present time |  |
| hamburgerValue | ***Optional.*** The inner text of the hamburger menu. |  |
| ­­buttonDataAttrs | ***Optional***. The knockout data attributes for the buttons specified in an anonymous object or a RouteValueDictionary.   * sagedisable, sageenable, sageDataPicker, sagetext, sagevalue, SagekendoGrid, Amount, sagechecked, sagevisible, sageoverridden, value, valueUpdate, visible­, disable   Note: Separate attributes maybe required for scenarios where the buttons may or may not be disabled like the textbox. This allows the developer to set these attributes independently for the textbox and the buttons | buttonDataAttrs: new { sagedisable = "IsProjectDisabled" } |
| includeValidation | ***Optional.*** True to add validation otherwise no validation will be added. Defaults to true. | includeValidation: false |
| validationText | ***Optional.*** If a validation is included, the validation text will be assigned from the attribute of the expression’s property unless being overridden by this parameter | validationText: ReceiptResx.ValidCurrency |
| validationHtmlAttrs | ***Optional***. The html attributes for the validation specified in an anonymous object or a RouteValueDictionary. | validationHtmlAttrs: new { @class = “vlidation-bottom” } |
| includeNavigationButtons | ***Optional.*** True for navigation buttons otherwise no navigation buttons will be added | includeNavigationButtons: true |
| includeAddButton | ***Optional.*** True to add new button otherwise no add button will be added | includeAddButton: true |
| navGroupIndex | ***Optional.*** Zero for main navigation and non-zero for minor entities | NavGroupIndex: 1 |
| includeGoButton | ***Optional:*** True to add Go (Load) button otherwise no Go (Load) button will be added. Default is false | includeGoButton: true |
| includeFinderButton | ***Optional:*** True to add Finder button otherwise no Finder button will be added. Default is true. | includeFinderButton: false |
| hasCustomBinding | ***Optional:*** True to generate custom binding attributes (i.e., sagedisable, sagevalue, etc.) otherwise false to only generate native Kendo bindings. Default value is true. | hasCustomBinding: false |

* + 1. Individual Helpers Example

<div class="search-group">

@Html.SageLabel("TermsCode", APCommonResx.TermsCode, new { @class = "required" })

@Html.KoSageTextBoxFor(m => m.Data.TermsCode, new { @value = "Data.TermsCode",

@valueUpdate = "'input'" }, new { @maxlength = "6", @class = "txt-upper default",

@formatTextbox = "alphaNumeric" })

@Html.KoSageButton("btnLoadTermsCode",

new { @value = "Data.TermsCode", @disable = "false" },

new { @id = "btnLoadTermsCode", @tabindex = -1, @class = "icon btn-go" })

@Html.KoSageButton("btnTermsFinder", new { },

new { @class = "icon btn-search positionTM1", @id = "btnTermsFinder", @tabindex = -1 })

@Html.ValidationMessageFor(m => m.Data.TermsCode)

</div>

* + 1. New Composite Helper Example

<div class="search-group">

@Html.SgFinderFor(m => m.Data.TermsCode,

new { @value = "Data.TermsCode" },

new { @maxlength = "6", @class = "txt-upper", @formatTextbox = "alphaNumeric" },

findButtonId: "btnTermsFinder",

labelHtmlAttrs: new { @id = "TermsCode", @class = "required" },

labelText: APCommonResx.TermsCode)

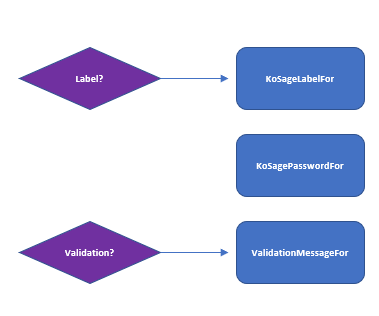
</div>

* Need to specify label id attribute to override helper default.
* Need to specify **labelText** value since an override is requested.
* Need to specify button name to override helper default.
* Do not need to specify **icon**, **btn-go**, **btn-search**, and **default** for class attributes as helper defaults these values.
* Do not need to specify **tabindex** attribute as helper defaults this value
  1. SgPasswordFor

The ***SgPasswordFor*** helper will create a password textbox, an optional label, and an optional validation.

The interface requires a minimal number of parameters to be specified for default behaviour:

* The default is that a label will be created.
  + It will be named “lbl” + propertyName.
  + It can be overridden with the “id” html attribute.
* The default is that a validation message will be created.
* The default is that the size will default to ‘default’.
* The default is that the textbox will be named “Data\_” + propertyName.
  + It can be overridden with the “id” html attribute.
* The @visible/@sagevisible attribute specified on the textbox will be assigned to the label if one is specified or the labelDataAttributes property can be used.
  + 1. Flow



* + 1. Interface

/// <summary>

/// Returns an optional label, a password textbox, and an optional validation

/// </summary>

/// <typeparam name="TModel">The type of the model</typeparam>

/// <typeparam name="TProperty">The type of the property</typeparam>

/// <param name="htmlHelper">The HTML helper instance that this method extends</param>

/// <param name="expression">An expression that identifies the properties to render.</param>

/// <param name="dataAttrs">Data attributes for the textbox</param>

/// <param name="htmlAttrs">HTML attributes (i.e., id, class) for the textbox, otherwise null</param>

/// <param name="size">The size of the numeric textbox otherwise 'default'</param>

/// <param name="includeLabel">True to add label otherwise false (no label)</param>

/// <param name="labelText">Label text (non-bound) otherwise null</param>

/// <param name="labelDataAttrs">Data attributes for the label, otherwise null</param>

/// <param name="labelHtmlAttrs">HTML attributes (i.e., id, class) for the label, otherwise null</param>

/// <param name="includeValidation">True to add validation otherwise false (no validation)</param>

/// <param name="validationText">Validation override message otherwise null</param>

/// <param name="validationHtmlAttrs">HTML attributes for the validation, otherwise null</param>

/// <param name="hasCustomBinding">Generate custom data-bind attributes</param>

/// <returns>HTML input elements for a textbox and other optional controls (label, validation)</returns>

public static MvcHtmlString SgPasswordFor<TModel, TProperty>(this HtmlHelper<TModel> htmlHelper,

Expression<Func<TModel, TProperty>> expression, object dataAttrs,

object htmlAttrs = null, string size = "default",

bool includeLabel = true, string labelText = null, object labelDataAttrs = null,

object labelHtmlAttrs = null, bool includeValidation = true, string validationText = null,

object validationHtmlAttrs = null, bool hasCustomBinding = true)

* + 1. Parameters

|  |  |  |
| --- | --- | --- |
| parameter | Description | Example |
| expression | ***Required***. The expression. | model => model.Data.Password |
| dataAttrs | ***Required***. The knockout data attributes for the textbox specified in an anonymous object or a RouteValueDictionary.   * sagedisable, sageenable, sageDataPicker, sagetext, sagevalue, SagekendoGrid, Amount, sagechecked, sagevisible, sageoverridden, value, valueUpdate, visible­, disable | new { sagevalue = "Data.Password", sagedisable = "IsPasswordDisabled" }  Note: If specified, the sagevalue will be copied to the value attribute.  Note: If specified, the sagedisable attribute will be copied to the disable attribute.  Note: valueUpdate will default to “’input’” and does not need to be specified unless another value for valueUpdate is required.  Note: if specified, the visible/sagevisible attribute will be copied to the visible/sagevisible attribute of the label. |
| htmlAttrs | ***Optional***. The html attributes for the textbox specified in an anonymous object or a RouteValueDictionary.   * “id” can be specified when the default of “Data\_”+property requires overriding. * “@class” will internally assign “ login {size}” and therefore does not need to be assigned externally. | htmlAttrs: new { id = "txtPassword"}  Note: autocomplete will default to “off” and does not need to be specified unless another value for autocomplete is required.  Note: data\_val will default to “true” and does not need to be specified unless another value for data\_val is required.  Note: placeholder will default to “” and does not need to be specified unless another value for placeholder is required. |
| size | ***Optional.*** The size for the textbox. Defaults to “default”.   * default, small, smaller, xsmall, large, larger, xlarge, medium, mediumlarge | size: “large” |
| includeLabel | ***Optional.*** True to add label otherwise no label will be added. Defaults to true. | includeLabel: false |
| labelText | ***Optional.*** If a label is included, the label text will be assigned from the expression’s property unless being overridden by this parameter | labelText: ReceiptResx.Currency |
| labelDataAttrs | ***Optional***. The knockout data attributes for the label specified in an anonymous object or a RouteValueDictionary. See dataAttrs for value possibilities. | htmlAttrs: new { sagedisable = "IsPasswordDisabled" } |
| labelHtmlAttrs | ***Optional***. The html attributes for the label specified in an anonymous object or a RouteValueDictionary.   * “id” can be specified when the default of “lbl”+property requires overriding. | labelHtmlAttrs: new { id = "lblDescription", @class = “required” } |
| includeValidation | ***Optional.*** True to add validation otherwise no validation will be added. Defaults to true. | includeValidation: false |
| validationText | ***Optional.*** If a validation is included, the validation text will be assigned from the attribute of the expression’s property unless being overridden by this parameter | validationText: UserResx.Password |
| validationHtmlAttrs | ***Optional***. The html attributes for the validation specified in an anonymous object or a RouteValueDictionary. | validationHtmlAttrs: new { @class = “vlidation-bottom” } |
| hasCustomBinding | ***Optional:*** True to generate custom binding attributes (i.e., sagedisable, sagevalue, etc.) otherwise false to only generate native Kendo bindings. Default value is true. | hasCustomBinding: false |

* + 1. Individual Helpers Example

<div class="input-group">

@Html.SageLabel("CompanyEmail\_Password", CompanyProfileResx.Password)

@Html.KoSagePasswordFor(m => m.Data.CompanyProfileEmail.Password,

new { @value = "Data.CompanyProfileEmail.Password", @valueUpdate = "'input'" },

new { @class = "medium" })

</div>

* + 1. New Composite Helper Example

<div class="input-group">

@Html.SgPasswordFor(m => m.Data.CompanyProfileEmail.Password,

new { @value = "Data.CompanyProfileEmail.Password" }, size: "medium",

labelHtmlAttrs: new { @id = " CompanyEmail\_Password " },

labelText: CompanyProfileResx.Password, includeValidation: false)

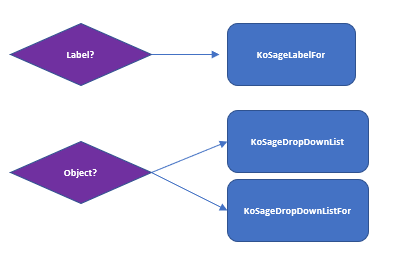
</div>

* Need to specify label id attribute to override helper default.
* Need to specify **labelText** value since an override is requested.
* Do not need to specify the **valueUpdate** attribute as the helper defaults this value.
* Do not need to specify **medium** for class attribute.
* Need to specify **size** parameter to override helper default.
* Need to specify **includeValidation** to override helper default.
  1. SgDropdownFor

The ***SgDropdownFor*** helper will create a dropdown list and an optional label.

The interface requires a minimal number of parameters to be specified for default behaviour:

* The default is that a label will be created.
  + It will be named “lbl” + propertyName.
  + It can be overridden with the “id” html attribute.
* The default is that the size will default to ‘default’.
* The default is that the dropdown will be named “Data\_” + propertyName.
  + It can be overridden with the “id” html attribute.
* The @visible/@sagevisible attribute specified on the dropdown will be assigned to the label if one is specified or the labelDataAttributes property can be used.
  + 1. Flow



* + 1. Interface

/// <summary>

/// Returns an optional label and a dropdown list

/// </summary>

/// <typeparam name="TModel">The type of the model</typeparam>

/// <typeparam name="TProperty">The type of the property</typeparam>

/// <param name="htmlHelper">The HTML helper instance that this method extends</param>

/// <param name="expression">An expression that identifies the properties to render.</param>

/// <param name="dataAttrs">Data attributes for the dropdown</param>

/// <param name="htmlAttrs">HTML attributes (i.e., id, class), otherwise null</param>

/// <param name="selectList">A collection of objects, otherwise null /> </param>

/// <param name="optionLabel">The text for a default empty item, otherwise null</param>

/// <param name="size">The size of the dropdown otherwise 'default'</param>

/// <param name="includeLabel">True to add label otherwise false (no label)</param>

/// <param name="labelText">Label text (non-bound) otherwise null</param>

/// <param name="labelDataAttrs">Data attributes for the label, otherwise null</param>

/// <param name="labelHtmlAttrs">HTML attributes (i.e., id, class), otherwise null</param>

/// <param name="hasCustomBinding">Generate custom data-bind attributes</param>

/// <returns>HTML input elements for a dropdown and optional control (label)</returns>

public static MvcHtmlString SgDropdownFor<TModel, TProperty>(this HtmlHelper<TModel> htmlHelper,

Expression<Func<TModel, TProperty>> expression, object dataAttrs,

object htmlAttrs = null, IEnumerable<CustomSelectList> selectList = null,

string optionLabel = null, string size = "default",

bool includeLabel = true, string labelText = null, object labelDataAttrs = null,

object labelHtmlAttrs = null, bool hasCustomBinding = true)

* + 1. Parameters

|  |  |  |
| --- | --- | --- |
| parameter | Description | Example |
| expression | ***Required***. The expression. | model => model.Data.JobRoles |
| dataAttrs | ***Required***. The knockout data attributes for the dropdown specified in an anonymous object or a RouteValueDictionary.   * sagedisable, sageenable, sageDataPicker, sagetext, sagevalue, SagekendoGrid, Amount, sagechecked, sagevisible, sageoverridden, value, valueUpdate, visible­, disable | new { @options = "JobRoles", @value = "Data.JobRole", @sagedisable = "IsJobRoleDisabled" }  Note: **options** is required to specify a method name to populate the dropdown otherwise **selectList** will be specified and **options** can be omitted.  Note: If specified, the sagedisable attribute will be copied to the disable attribute.  Note: If specified, the sagevalue attribute will be copied to the value attribute.  Note: optionsText will default to “’Text’” and does not need to be specified unless another value for valueUpdate is required.  Note: if specified, the visible/sagevisible attribute will be copied to the visible/sagevisible attribute of the label.  Note: optionsValue will default to “’Value’” and does not need to be specified unless another value for valueUpdate is required. |
| htmlAttrs | ***Optional***. The html attributes for the dropdown specified in an anonymous object or a RouteValueDictionary.   * “id” can be specified when the default of “Data\_”+property requires overriding. * “@class” will internally assign “ {size}” and therefore does not need to be assigned externally. | new { @id = "Data\_JobRole", @class = "single-select" }  Note: Specify single-select when single select behavior is required |
| selectList | ***Optional:*** A collection of CustomSelectList objects to be used to populate the dropdown | selectList: Model.GetRoles  Note: **selectList** is required when **options** is omitted from the dataAttrs parameter. |
| optionLabel | ***Optional:*** the text for a default empty item | optionLabel: “None” |
| size | ***Optional.*** The size for the textbox. Defaults to “default”.   * default, small, smaller, xsmall, large, larger, xlarge, medium, mediumlarge | size: “large” |
| includeLabel | ***Optional.*** True to add label otherwise no label will be added. Defaults to true. | includeLabel: false |
| labelText | ***Optional.*** If a label is included, the label text will be assigned from the expression’s property unless being overridden by this parameter | labelText: ReceiptResx.Currency |
| labelDataAttrs | ***Optional***. The knockout data attributes for the label specified in an anonymous object or a RouteValueDictionary. See dataAttrs for value possibilities. | htmlAttrs: new { sagedisable = "IsPasswordDisabled" } |
| labelHtmlAttrs | ***Optional***. The html attributes for the label specified in an anonymous object or a RouteValueDictionary.   * “id” can be specified when the default of “lbl”+property requires overriding. | labelHtmlAttrs: new { id = "lblDescription", @class = “required” } |
| hasCustomBinding | ***Optional:*** True to generate custom binding attributes (i.e., sagedisable, sagevalue, etc.) otherwise false to only generate native Kendo bindings. Default value is true. | hasCustomBinding: false |

* + 1. Individual Helpers Example

<div class="dropdown-group">

@Html.SageLabelFor(m => m.Data.AgedByTypes)

@Html.KoSageDropDownList("Data\_DueDateOrInvoiceDate",

new { @options = "AgedBys", @value = "Data.AgedByTypes",

@optionsText = "'Text'", @optionsValue = "'Value'" },

new { @id = "Data\_DueDateOrInvoiceDate", @class="small" })

</div>

<div class="dropdown-group">

@Html.SageLabel("CalculateBaseforDiscountwithTax", TermCodeResx.CalcBaseforDiscountwithTax,

new { @class = "" })

@Html.KoSageDropDownListFor(m => m.Data.CalcBaseforDiscountwithTax,

Model.BaseForDiscountWithTax, null,

new { @optionsText = "'Text'", @optionsValue = "'Value'" }, new { @class = "default" })

</div>

* + 1. New Composite Helper Example

<div class="dropdown-group">

@Html.SgDropdownFor(m => m.Data.AgedByTypes,

new { @options = "AgedBys", @value = "Data.AgedByTypes" },

new { @id = "Data\_DueDateOrInvoiceDate"}, size: "small" )

</div>

<div class="dropdown-group">

@Html.SgDropdownFor(m => m.Data.CalcBaseforDiscountwithTax,

new { @value = "Data.CalcBaseforDiscountwithTax" },

labelHtmlAttrs: new { @id = " CalculateBaseforDiscountwithTax" },

labelText: TermCodeResx.CalcBaseforDiscountwithTax, selectList: Model.BaseForDiscountWithTax)

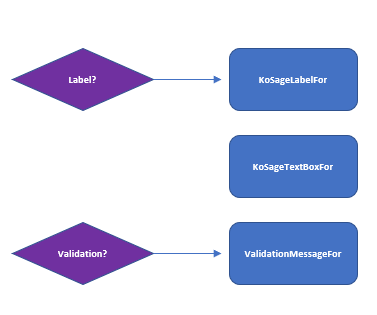
</div>

* Do not need to specify the **optionsText** or **optionsValue** attributes as the helper defaults these values.
* Do not need to specify **small** or **default** for class attribute as helper defaults to **default.**
* Need to specify **size** parameter (for **small**) to override helper default.
* Need to specify **id** attribute to override label default.
* Need to specify **labelText** parameter to override helper default.
* Need to specify **selectList** parameter for list to use to populate dropdown.
  1. SgDatepickerFor

The ***SgDatepickerFor*** helper will create a date picker, an optional label, and an optional validation.

The interface requires a minimal number of parameters to be specified for default behaviour:

* The default is that a label will be created.
  + It will be named “lbl” + propertyName.
  + It can be overridden with the “id” html attribute.
* The default is that a validation message will be created.
* The default is that the size will default to ‘small’.
* The default is that the datepicker will be named “Data\_” + propertyName.
  + It can be overridden with the “id” html attribute.
* The @visible/@sagevisible attribute specified on the datepicker will be assigned to the label if one is specified or the labelDataAttributes property can be used.
  + 1. Flow



* + 1. Interface

/// <summary>

/// Returns an optional label, a date picker, and an optional validation

/// </summary>

/// <typeparam name="TModel">The type of the model</typeparam>

/// <typeparam name="TProperty">The type of the property</typeparam>

/// <param name="htmlHelper">The HTML helper instance that this method extends</param>

/// <param name="expression">An expression that identifies the properties to render.</param>

/// <param name="dataAttrs">Data attributes for the date</param>

/// <param name="htmlAttrs">HTML attributes (i.e., id, class) for date, otherwise null</param>

/// <param name="size">The size of the date otherwise 'small'</param>

/// <param name="includeLabel">True to add label otherwise false (no label)</param>

/// <param name="labelText">Label text (non-bound) otherwise null</param>

/// <param name="labelDataAttrs">Data attributes for the label, otherwise null</param>

/// <param name="labelHtmlAttrs">HTML attributes (i.e., id, class) for label, otherwise null</param>

/// <param name="includeValidation">True to add validation otherwise false </param>

/// <param name="validationText">Validation override message otherwise null</param>

/// <param name="validationHtmlAttrs">HTML attributes for the validation, otherwise null</param>

/// <param name="hasCustomBinding">Generate custom data-bind attributes</param>

/// <returns>HTML input elements for a date picker and optional label and validation</returns>

public static MvcHtmlString SgDatepickerFor<TModel, TProperty>(this HtmlHelper<TModel> htmlHelper,

Expression<Func<TModel, TProperty>> expression, object dataAttrs,

object htmlAttrs = null, string size = "small",

bool includeLabel = true, string labelText = null, object labelDataAttrs = null,

object labelHtmlAttrs = null, bool includeValidation = true, string validationText = null,

object validationHtmlAttrs = null, bool hasCustomBinding = true)

* + 1. Parameters

|  |  |  |
| --- | --- | --- |
| parameter | Description | Example |
| expression | ***Required***. The expression. | model => model.Data.StartDate |
| dataAttrs | ***Required***. The knockout data attributes for the date specified in an anonymous object or a RouteValueDictionary.   * sagedisable, sageenable, sageDataPicker, sagetext, sagevalue, SagekendoGrid, Amount, sagechecked, sagevisible, sageoverridden, value, valueUpdate, visible­, disable | new { @sageDatePicker = "Data.StartDate" }  Note: If specified, the sagedisable attribute will be copied to the disable attribute.  Note: if specified, the visible/sagevisible attribute will be copied to the visible/sagevisible attribute of the label. |
| htmlAttrs | ***Optional***. The html attributes for the date specified in an anonymous object or a RouteValueDictionary.   * “id” can be specified when the default of “Data\_”+property requires overriding. * “@class” will internally assign “ datepicker {size}” and therefore does not need to be assigned externally. | htmlAttrs: new { id = "txtStartDate"} |
| size | ***Optional.*** The size for the dropdown. Defaults to “small”.   * default, small, smaller, xsmall, large, larger, xlarge, medium, mediumlarge | size: “default” |
| includeLabel | ***Optional.*** True to add label otherwise no label will be added. Defaults to true. | includeLabel: false |
| labelText | ***Optional.*** If a label is included, the label text will be assigned from the expression’s property unless being overridden by this parameter | labelText: ReceiptResx.Currency |
| labelDataAttrs | ***Optional***. The knockout data attributes for the label specified in an anonymous object or a RouteValueDictionary. See dataAttrs for value possibilities. | htmlAttrs: new { sagedisable = "IsDateDisabled" } |
| labelHtmlAttrs | ***Optional***. The html attributes for the label specified in an anonymous object or a RouteValueDictionary.   * “id” can be specified when the default of “lbl”+property requires overriding. | labelHtmlAttrs: new { id = "Address\_StartDate", @class = “required” } |
| includeValidation | ***Optional.*** True to add validation otherwise no validation will be added. Defaults to true. | includeValidation: false |
| validationText | ***Optional.*** If a validation is included, the validation text will be assigned from the attribute of the expression’s property unless being overridden by this parameter | validationText: ReceiptResx.ValidCurrency |
| validationHtmlAttrs | ***Optional***. The html attributes for the validation specified in an anonymous object or a RouteValueDictionary. | validationHtmlAttrs: new { @class = “vlidation-bottom” } |
| hasCustomBinding | ***Optional:*** True to generate custom binding attributes (i.e., sagedisable, sagevalue, etc.) otherwise false to only generate native Kendo bindings. Default value is true. | hasCustomBinding: false |

* + 1. Individual Helpers Example

<div class="datepicker-group">

@Html.SageLabelFor(m => m.Data.BatchDate)

@Html.KoSageTextBoxFor(m => m.Data.BatchDate,

new { @sageDatePicker = "Data.BatchDate", @sagedisable = "Data.IsDisableBatchHeader" },

new { @class = "datepicker default" })

@Html.ValidationMessageFor(m => m.Data.BatchDate

</div>

* + 1. New Composite Helper Example

<div class="datepicker-group">

@Html.SgDatepickerFor(m => m.Data.BatchDate,

new { @sageDatePicker = "Data.BatchDate", @sagedisable = "Data.IsDisableBatchHeader" },

size: "default"

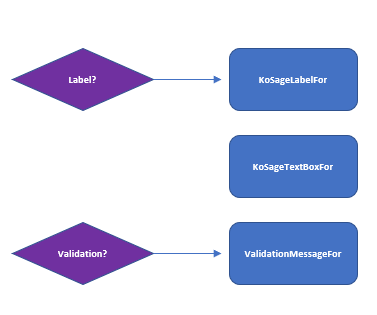
</div>

* Need to specify **size** parameter (for **default**) to override helper default.
* Do not need to specify **datapicker** for class attribute as helper defaults this value.
  1. SgTimepickerFor

The ***SgTimepickerFor*** helper will create a time picker, an optional label, and an optional validation.

The interface requires a minimal number of parameters to be specified for default behaviour:

* The default is that a label will be created.
  + It will be named “lbl” + propertyName.
  + It can be overridden with the “id” html attribute.
* The default is that a validation message will be created.
* The default is that the size will default to ‘small’.
* The default is that the timepicker will be named “Data\_” + propertyName.
  + It can be overridden with the “id” html attribute.
* The @visible/@sagevisible attribute specified on the timepicker will be assigned to the label if one is specified or the labelDataAttributes property can be used.
  + 1. Flow



* + 1. Interface

/// <summary>

/// Returns an optional label, a time picker, and an optional validation

/// </summary>

/// <typeparam name="TModel">The type of the model</typeparam>

/// <typeparam name="TProperty">The type of the property</typeparam>

/// <param name="htmlHelper">The HTML helper instance that this method extends</param>

/// <param name="expression">An expression that identifies the properties to render.</param>

/// <param name="dataAttrs">Data attributes for the time</param>

/// <param name="htmlAttrs">HTML attributes (i.e., id, class) for the time, otherwise null</param>

/// <param name="size">The size of the time otherwise 'small'</param>

/// <param name="includeLabel">True to add label otherwise false (no label)</param>

/// <param name="labelText">Label text (non-bound) otherwise null</param>

/// <param name="labelDataAttrs">Data attributes for the label, otherwise null</param>

/// <param name="labelHtmlAttrs">HTML attributes (i.e., id, class) for label, otherwise null</param>

/// <param name="includeValidation">True to add validation otherwise false (no validation)</param>

/// <param name="validationText">Validation override message otherwise null</param>

/// <param name="validationHtmlAttrs">HTML attributes for the validation, otherwise null</param>

/// <param name="hasCustomBinding">Generate custom data-bind attributes</param>

/// <returns>HTML input elements for a time picker and optional controls (label, validation)</returns>

public static MvcHtmlString SgTimepickerFor<TModel, TProperty>(this HtmlHelper<TModel> htmlHelper,

Expression<Func<TModel, TProperty>> expression, object dataAttrs,

object htmlAttrs = null, string size = "small",

bool includeLabel = true, string labelText = null, object labelDataAttrs = null,

object labelHtmlAttrs = null, bool includeValidation = true, string validationText = null,

object validationHtmlAttrs = null, bool hasCustomBinding = true)

* + 1. Parameters

|  |  |  |
| --- | --- | --- |
| parameter | Description | Example |
| expression | ***Required***. The expression. | model => model.Data.TimeBegin |
| dataAttrs | ***Required***. The knockout data attributes for the time specified in an anonymous object or a RouteValueDictionary.   * sagedisable, sageenable, sageDataPicker, sagetext, sagevalue, SagekendoGrid, Amount, sagechecked, sagevisible, sageoverridden, value, valueUpdate, visible­, disable | new { @sagevalue = "Data.TimeBeginTimeSpan", @sagedisable = "ValidTimesSectionDisabled" }  Note: If specified, the sagedisable attribute will be copied to the disable attribute.  Note: valueUpdate will default to “’input’” and does not need to be specified unless another value for valueUpdate is required.  Note: if specified, the visible/sagevisible attribute will be copied to the visible/sagevisible attribute of the label. |
| htmlAttrs | ***Optional***. The html attributes for the time specified in an anonymous object or a RouteValueDictionary.   * “id” can be specified when the default of “Data\_”+property requires overriding. * “@class” will internally assign “ timepicker {size}” and therefore does not need to be assigned externally. | htmlAttrs: new { id = "txtTimeBegin"} |
| size | ***Optional.*** The size for the dropdown. Defaults to “small”.   * default, small, smaller, xsmall, large, larger, xlarge, medium, mediumlarge | size: “default” |
| includeLabel | ***Optional.*** True to add label otherwise no label will be added. Defaults to true. | includeLabel: false |
| labelText | ***Optional.*** If a label is included, the label text will be assigned from the expression’s property unless being overridden by this parameter | labelText: ReceiptResx.Currency |
| labelDataAttrs | ***Optional***. The knockout data attributes for the label specified in an anonymous object or a RouteValueDictionary. See dataAttrs for value possibilities. | htmlAttrs: new { sagedisable = "IsTimeDisabled" } |
| labelHtmlAttrs | ***Optional***. The html attributes for the label specified in an anonymous object or a RouteValueDictionary.   * “id” can be specified when the default of “lbl”+property requires overriding. | labelHtmlAttrs: new { id = "Address\_StartTime", @class = “required” } |
| includeValidation | ***Optional.*** True to add validation otherwise no validation will be added. Defaults to true. | includeValidation: false |
| validationText | ***Optional.*** If a validation is included, the validation text will be assigned from the attribute of the expression’s property unless being overridden by this parameter | validationText: ReceiptResx.ValidCurrency |
| validationHtmlAttrs | ***Optional***. The html attributes for the validation specified in an anonymous object or a RouteValueDictionary. | validationHtmlAttrs: new { @class = “vlidation-bottom” } |
| hasCustomBinding | ***Optional:*** True to generate custom binding attributes (i.e., sagedisable, sagevalue, etc.) otherwise false to only generate native Kendo bindings. Default value is true. | hasCustomBinding: false |

* + 1. Individual Helpers Example

<div class="timepicker-group">

@Html.KoSagetextBoxFor(m => m.Data.TimeBegin,

new { @sagevalue = "Data.TimeBeginTimeSpan", @valueUpdate = "'input'",

@sagedisable = "ValidTimesSectionDisabled" },

new { @id = "txtTimeBegin", @class = "timepicker small" })

@Html.ValidationMessageFor(m => m.Data.TimeBegin)

</div>

* + 1. New Composite Helper Example

<div class="timepicker-group">

@Html.SgTimepickerFor(m => m.Data.TimeBegin,

new { @sagevalue = "Data.TimeBeginTimeSpan", @sagedisable = "ValidTimesSectionDisabled" },

new { @id = "txtTimeBegin" }, includeLabel: false)

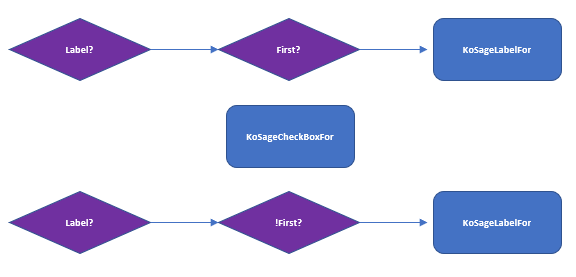
</div>

* Do not need to **small** for class attribute as helper defaults to this value in the size parameter.
* Do not need to specify **timepicker** for class attribute as helper defaults this value.
* Do not need to specify valueUpdate attribute as helper defaults this value.
* Need to specify **includeLabel** parameter to override default value of helper.
  1. SgCheckboxFor – Bound Label and Bound Checkbox

The ***SgCheckboxFor*** helper will create a checkbox and an optional label.

The interface requires a minimal number of parameters to be specified for default behaviour:

* The default is that a label will be created.
  + It will be named “lbl” + propertyName.
  + It can be overridden with the “id” html attribute.
* The default is that the checkbox will be named “Data\_” + propertyName.
  + It can be overridden with the “id” html attribute.
* The default is that the label will be displayed after the checkbox.
* The @visible/@sagevisible attribute specified on the checkbox will be assigned to the label if one is specified or the labelDataAttributes property can be used.
* The @disable/@sagedisable and @enable/@sageenable attributes specified on the checkbox will be assigned to the label if one is specified or the labelDataAttributes property can be used.
* The @disabled attribute specified on the checkbox will be assigned to the label if one is specified or the labelHtmlAttributes property can be used.
  + 1. Flow



* + 1. Interface

/// <summary>

/// Returns an optional label and a checkbox

/// </summary>

/// <typeparam name="TModel">The type of the model</typeparam>

/// <param name="htmlHelper">The HTML helper instance that this method extends</param>

/// <param name="expression">An expression that identifies the properties to render.</param>

/// <param name="dataAttrs">Data attributes for the checkbox</param>

/// <param name="htmlAttrs">HTML attributes (i.e., id, class) for the checkbox, otherwise null</param>

/// <param name="includeLabel">True to add label otherwise false (no label)</param>

/// <param name="labelText">Label text (non-bound) otherwise null</param>

/// <param name="labelDataAttrs">Data attributes for the label, otherwise null</param>

/// <param name="labelHtmlAttrs">HTML attributes (i.e., id, class) for label, otherwise null</param>

/// <param name="labelFirst">True to display label first otherwise display last</param>

/// <param name="hasCustomBinding">Generate custom data-bind attributes</param>

/// <returns>HTML input elements for a dropdown and optional control (label)</returns>

public static MvcHtmlString SgCheckboxFor<TModel>(this HtmlHelper<TModel> htmlHelper,

Expression<Func<TModel, bool>> expression, object dataAttrs,

object htmlAttrs = null, bool includeLabel = true, string labelText = null,

object labelDataAttrs = null, object labelHtmlAttrs = null, bool labelFirst = false,

bool hasCustomBinding = true)

* + 1. Parameters

|  |  |  |
| --- | --- | --- |
| parameter | Description | Example |
| expression | ***Required***. The expression. | model => model.Data.Sunday |
| dataAttrs | ***Required***. The knockout data attributes for the checkbox specified in an anonymous object or a RouteValueDictionary.   * sagedisable, sageenable, sageDataPicker, sagetext, sagevalue, SagekendoGrid, Amount, sagechecked, sagevisible, sageoverridden, value, valueUpdate, visible­, disable | new { @sagechecked = "Data.Sunday", @sagedisable = "ValidTimesSectionDisabled" }  Note: If specified, the sagedisable attribute will be copied to the disable attribute.  Note: if specified, the visible/sagevisible attribute will be copied to the visible/sagevisible attribute of the label.  Note: if specified, the disable/sagedisable and enable/sageenable attributes will be copied to the disable/sagedisable and enable/sageenable attributes of the label. |
| htmlAttrs | ***Optional***. The html attributes for the checkbox specified in an anonymous object or a RouteValueDictionary.   * “id” can be specified when the default of “Data\_”+property requires overriding. | new { @id = "chkSunday" }  Note: name will default to the id of the checkbox and does not need to be specified unless another value for name is required.  Note: if specified, the disabled attribute will be copied to the disabled attribute of the label. |
| includeLabel | ***Optional.*** True to add label otherwise no label will be added. Defaults to true. | includeLabel: false |
| labelText | ***Optional.*** If a label is included, the label text will be assigned from the expression’s property unless being overridden by this parameter | labelText: ReceiptResx.Currency |
| labelDataAttrs | ***Optional***. The knockout data attributes for the label specified in an anonymous object or a RouteValueDictionary. See dataAttrs for value possibilities. | htmlAttrs: new { @sagedisable = "ValidTimesSectionDisabled" } |
| labelHtmlAttrs | ***Optional***. The html attributes for the label specified in an anonymous object or a RouteValueDictionary.   * “id” can be specified when the default of “lbl”+property requires overriding. | labelHtmlAttrs: new { id = "lblDescription", @class = “required” } |
| labelFirst | ***Optional.*** True to add label before checkbox otherwise adds label after checkbox. Defaults to false. | labelFirst: true |
| hasCustomBinding | ***Optional:*** True to generate custom binding attributes (i.e., sagedisable, sagevalue, etc.) otherwise false to only generate native Kendo bindings. Default value is true. | hasCustomBinding: false |

* + 1. Individual Helpers Example

<div class="ctrl-group">

<div class="child">

@Html.KoSageCheckBoxFor(m => m.Data.SortByTransactionType,

new { @sagechecked = "Data.SortByTransactionType",

@sagedisable = "HideShowOptionsSortByTransactionTypeChk" },

new { @id = "Data\_SortByTransactionType", @autofocus = "autofocus" })

@Html.SageLabelFor(m => m.Data.SortByTransactionType, new { @class = "" })

</div>

</div>

* + 1. New Composite Helper Example

<div class="ctrl-group">

<div class="child">

@Html.SgCheckboxFor(m => m.Data.SortByTransactionType,

new { @sagechecked = "Data.SortByTransactionType",

@sagedisable = "HideShowOptionsSortByTransactionTypeChk" })

</div>

</div>

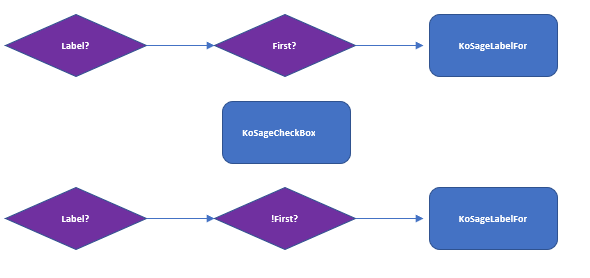
* Do not need to **id** for as helper defaults to this value.
* Note: autofocus properly is widely overused for checkboxes and in most cases is not required, but if it is required, it can be specified in the html attributes
  1. SgCheckboxFor – Bound Label and Unbound Checkbox

The ***SgCheckboxFor*** helper will create an unbound checkbox and an optional bound label.

This interface has a Boolean property for the checkbox value as it is not bound to a data property in the model.

The interface requires a minimal number of parameters to be specified for default behaviour:

* The default is that a label will be created.
  + It will be named “lbl” + propertyName.
  + It can be overridden with the “id” html attribute.
* The “id” html attribute MUST be specified for the checkbox.
* The default is that the label will be displayed after the checkbox.
* The @disable/@sagedisable and @enable/@sageenable attributes specified on the checkbox will be assigned to the label if one is specified or the labelDataAttributes property can be used.
* The @disabled attribute specified on the checkbox will be assigned to the label if one is specified or the labelHtmlAttributes property can be used.
  + 1. Flow



* + 1. Interface

/// <summary>

/// Returns an optional label (bound) and a checkbox (unbound)

/// </summary>

/// <typeparam name="TModel">The type of the model</typeparam>

/// <typeparam name="TProperty">The type of the property</typeparam>

/// <param name="htmlHelper">The HTML helper instance that this method extends</param>

/// <param name="expression">An expression that identifies the properties to render.</param>

/// <param name="isChecked">True if checked otherwise false</param>

/// <param name="dataAttrs">Data attributes for the checkbox</param>

/// <param name="htmlAttrs">HTML attributes (i.e., id, class) for the checkbox, otherwise null</param>

/// <param name="includeLabel">True to add label otherwise false (no label)</param>

/// <param name="labelText">Label text (non-bound) otherwise null</param>

/// <param name="labelDataAttrs">Data attributes for the label, otherwise null</param>

/// <param name="labelHtmlAttrs">HTML attributes (i.e., id, class) for label, otherwise null</param>

/// <param name="labelFirst">True to display label first otherwise display last</param>

/// <param name="hasCustomBinding">Generate custom data-bind attributes</param>

/// <returns>HTML input elements for a dropdown and optional control (label)</returns>

/// <remarks>@id MUST be specified in htmlAttrs</remarks>

public static MvcHtmlString SgCheckboxFor<TModel, TProperty>(this HtmlHelper<TModel> htmlHelper,

Expression<Func<TModel, bool>> expression, bool isChecked, object dataAttrs,

object htmlAttrs = null, bool includeLabel = true, string labelText = null,

object labelDataAttrs = null, object labelHtmlAttrs = null, bool labelFirst = false,

bool hasCustomBinding = true)

* + 1. Parameters

|  |  |  |
| --- | --- | --- |
| parameter | Description | Example |
| expression | ***Required***. The expression. | model => model.Data.Sunday |
| isChecked | ***Required.*** True if checked otherwise false | true or false |
| dataAttrs | ***Required***. The knockout data attributes for the checkbox specified in an anonymous object or a RouteValueDictionary.   * sagedisable, sageenable, sageDataPicker, sagetext, sagevalue, SagekendoGrid, Amount, sagechecked, sagevisible, sageoverridden, value, valueUpdate, visible­, disable | new { @sagechecked = "Data.Sunday", @sagedisable = "ValidTimesSectionDisabled" }  Note: If specified, the sagedisable attribute will be copied to the disable attribute.  Note: if specified, the visible/sagevisible attribute will be copied to the visible/sagevisible attribute of the label.  Note: if specified, the disable/sagedisable and enable/sageenable attributes will be copied to the disable/sagedisable and enable/sageenable attributes of the label. |
| htmlAttrs | ***Required***. The html attributes for the checkbox specified in an anonymous object or a RouteValueDictionary.   * “id” MUST be specified | new { @id = "chkSunday" }  Note: name will default to the id of the checkbox and does not need to be specified unless another value for name is required.  Note: if specified, the disabled attribute will be copied to the disabled attribute of the label. |
| includeLabel | ***Optional.*** True to add label otherwise no label will be added. Defaults to true. | includeLabel: false |
| labelText | ***Optional.*** If a label is included, the label text will be assigned from the expression’s property unless being overridden by this parameter | labelText: ReceiptResx.Currency |
| labelDataAttrs | ***Optional***. The knockout data attributes for the label specified in an anonymous object or a RouteValueDictionary. See dataAttrs for value possibilities. | htmlAttrs: new { @sagedisable = "ValidTimesSectionDisabled" } |
| labelHtmlAttrs | ***Optional***. The html attributes for the label specified in an anonymous object or a RouteValueDictionary.   * “id” can be specified when the default of “lbl”+property requires overriding. | labelHtmlAttrs: new { id = "lblDescription", @class = “required” } |
| labelFirst | ***Optional.*** True to add label before checkbox otherwise adds label after checkbox. Defaults to false. | labelFirst: true |
| hasCustomBinding | ***Optional:*** True to generate custom binding attributes (i.e., sagedisable, sagevalue, etc.) otherwise false to only generate native Kendo bindings. Default value is true. | hasCustomBinding: false |

* + 1. Individual Helpers Example

<div class="ctrl-group">

<div class="child">

@Html.KoSageCheckBoxFor(m => m.Data.SortByTransactionType, false,

new { @sagechecked = "Data.SortByTransactionType",

@sagedisable = "HideShowOptionsSortByTransactionTypeChk" },

new { @id = "Data\_SortByTransactionType", @autofocus = "autofocus" })

@Html.SageLabelFor(m => m.Data.SortByTransactionType, new { @class = "" })

</div>

</div>

* + 1. New Composite Helper Example

<div class="ctrl-group">

<div class="child">

@Html.SgCheckboxFor(m => m.Data.SortByTransactionType, false,

new { @sagechecked = "Data.SortByTransactionType",

@sagedisable = "HideShowOptionsSortByTransactionTypeChk" },

new { @id = "chkSortByTranType")

</div>

</div>

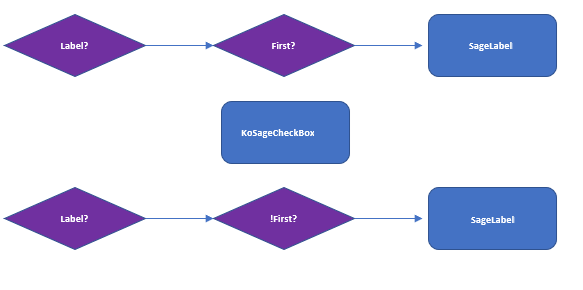
* Do not need to **id** for as helper defaults to this value.
* Note: autofocus properly is widely overused for checkboxes and in most cases is not required, but if it is required, it can be specified in the html attributes
  1. SgCheckbox – Unbound Label and Unbound Checkbox

The ***SgCheckbox*** helper will create an unbound checkbox and an optional unbound label.

This interface has a Boolean property for the checkbox value as it is not bound to a data property in the model.

The interface requires a minimal number of parameters to be specified for default behaviour:

* The default is that a label will be created.
  + The “id html label attribute MUST be specified.
* The “id” html attribute for the checkbox MUST be specified.
* The default is that the label will be displayed after the checkbox.
* The @disabled attribute specified on the checkbox will be assigned to the label if one is specified or the labelHtmlAttributes property can be used.
  + 1. Flow



* + 1. Interface

/// <summary>

/// Returns an optional label (unbound) and a checkbox (unbound)

/// </summary>

/// <param name="htmlHelper">The HTML helper instance that this method extends</param>

/// <param name="isChecked">True if checked otherwise false</param>

/// <param name="dataAttrs">Data attributes for the checkbox</param>

/// <param name="htmlAttrs">HTML attributes (i.e., id, class) for the checkbox, otherwise null</param>

/// <param name="includeLabel">True to add label otherwise false (no label)</param>

/// <param name="labelText">Label text (non-bound) otherwise null</param>

/// <param name="labelDataAttrs">Data attributes for the label, otherwise null</param>

/// <param name="labelHtmlAttrs">HTML attributes (i.e., id, class) for label, otherwise null</param>

/// <param name="labelFirst">True to display label first otherwise display last</param>

/// <param name="hasCustomBinding">Generate custom data-bind attributes</param>

/// <returns>HTML input elements for a dropdown and optional control (label)</returns>

/// <remarks>@id MUST be specified in labelHtmlAttrs (for label) and htmlAttrs (for related)</remarks>

public static MvcHtmlString SgCheckbox(this HtmlHelper htmlHelper, bool isChecked, object dataAttrs,

object htmlAttrs = null, bool includeLabel = true, string labelText = null,

object labelDataAttrs = null, object labelHtmlAttrs = null, bool labelFirst = false,

bool hasCustomBinding = true)

* + 1. Parameters

|  |  |  |
| --- | --- | --- |
| parameter | Description | Example |
| isChecked | ***Required.*** True if checked otherwise false | true or false |
| dataAttrs | ***Required***. The knockout data attributes for the checkbox specified in an anonymous object or a RouteValueDictionary.   * sagedisable, sageenable, sageDataPicker, sagetext, sagevalue, SagekendoGrid, Amount, sagechecked, sagevisible, sageoverridden, value, valueUpdate, visible­, disable | new { @sagechecked = "Data.Sunday", @sagedisable = "ValidTimesSectionDisabled" }  Note: If specified, the sagedisable attribute will be copied to the disable attribute. |
| htmlAttrs | ***Required***. The html attributes for the checkbox specified in an anonymous object or a RouteValueDictionary.   * “id” MUST be specified | new { @id = "chkSunday" }  Note: name will default to the id of the checkbox and does not need to be specified unless another value for name is required.  Note: if specified, the disabled attribute will be copied to the disabled attribute of the label. |
| includeLabel | ***Optional.*** True to add label otherwise no label will be added. Defaults to true. | includeLabel: false |
| labelText | ***Optional.*** If a label is included, the label text will be assigned from the expression’s property unless being overridden by this parameter | labelText: ReceiptResx.Currency |
| labelDataAttrs | ***Optional***. The knockout data attributes for the label specified in an anonymous object or a RouteValueDictionary. See dataAttrs for value possibilities. | htmlAttrs: new { @sagedisable = "ValidTimesSectionDisabled" } |
| labelHtmlAttrs | ***Optional***. The html attributes for the label specified in an anonymous object or a RouteValueDictionary.   * “id” can be specified when the default of “lbl”+property requires overriding. | labelHtmlAttrs: new { id = "lblDescription", @class = “required” } |
| labelFirst | ***Optional.*** True to add label before checkbox otherwise adds label after checkbox. Defaults to false. | labelFirst: true |
| hasCustomBinding | ***Optional:*** True to generate custom binding attributes (i.e., sagedisable, sagevalue, etc.) otherwise false to only generate native Kendo bindings. Default value is true. | hasCustomBinding: false |

* + 1. Individual Helpers Example

<div class="ctrl-group">

<div class="child">

@Html.KoSageCheckBox("chkHasOptionalFields", false,

new { @sagechecked = "Data.HasoptionalFields" },

new { @id = "chkHasOptionalFields", @autofocus = "autofocus" })

@Html.SageLabel("lblHasOptionalFields"})

</div>

</div>

* + 1. New Composite Helper Example

<div class="ctrl-group">

<div class="child">

@Html.SgCheckbox(false,

new { @sagechecked = "Data.HasoptionalFields" },

new { @id = "chkHasOptionalFields" },

labelText: CommonResx.OptionalFields,

labelHtmlAttrs: new { @id = "chkSortByTranType" })

</div>

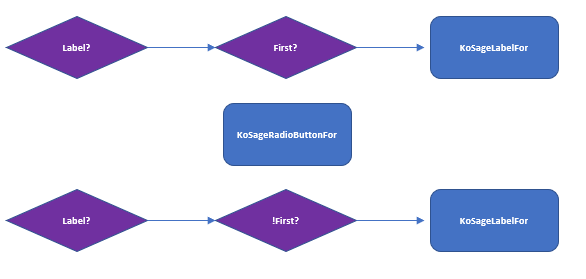
</div>

* Note: autofocus properly is widely overused for checkboxes and in most cases is not required, but if it is required, it can be specified in the html attributes
  1. SgRadioButtonFor

The ***SgRadioButtonFor*** helper will create a radio button and an optional label.

The interface requires a minimal number of parameters to be specified for default behaviour:

* The default is that a label will be created.
  + It will be named “lbl” + propertyName.
  + It can be overridden with the “id” html attribute.
* The default is that the radio button be named “Data\_” + propertyName.
  + It can be overridden with the “id” html attribute.
* The default is that the label will be displayed after the radio button.
* The @visible/@sagevisible attribute specified on the radio button will be assigned to the label if one is specified or the labelDataAttributes property can be used.
* The @disable/@sagedisable and @enable/@sageenable attributes specified on the radio button will be assigned to the label if one is specified or the labelDataAttributes property can be used.
  + 1. Flow



* + 1. Interface

/// <summary>

/// Returns an optional label and a radio button

/// </summary>

/// <typeparam name="TModel">The type of the model</typeparam>

/// <param name="htmlHelper">The HTML helper instance that this method extends</param>

/// <param name="expression">An expression that identifies the properties to render.</param>

/// <param name="value">The value of the selected radio button</param>

/// <param name="dataAttrs">Data attributes for the radio button</param>

/// <param name="htmlAttrs">HTML attributes (i.e., id, class) for button, otherwise null</param>

/// <param name="includeLabel">True to add label otherwise false (no label)</param>

/// <param name="labelText">Label text (non-bound) otherwise null</param>

/// <param name="labelDataAttrs">Data attributes for the label, otherwise null</param>

/// <param name="labelHtmlAttrs">HTML attributes (i.e., id, class) for label, otherwise null</param>

/// <param name="labelFirst">True to display label first otherwise display last</param>

/// <param name="hasCustomBinding">Generate custom data-bind attributes</param>

/// <returns>HTML input elements for a radio button and optional control (label)</returns>

public static MvcHtmlString SgRadioButtonFor<TModel>(this HtmlHelper<TModel> htmlHelper,

Expression<Func<TModel, object>> expression, object value, object dataAttrs,

object htmlAttrs = null, bool includeLabel = true, string labelText = null,

object labelDataAttrs = null, object labelHtmlAttrs = null, bool labelFirst = false,

bool hasCustomBinding = true)

* + 1. Parameters

|  |  |  |
| --- | --- | --- |
| parameter | Description | Example |
| expression | ***Required***. The expression. | model => model.Data.TransactionTypeChecked |
| dataAttrs | ***Required***. The knockout data attributes for the button specified in an anonymous object or a RouteValueDictionary.   * sagedisable, sageenable, sageDataPicker, sagetext, sagevalue, SagekendoGrid, Amount, sagechecked, sagevisible, sageoverridden, value, valueUpdate, visible­, disable | new { @sagechecked = "Data.TransactionTypeChecked" }  Note: If specified, the sagedisable attribute will be copied to the disable attribute.  Note: if specified, the visible/sagevisible attribute will be copied to the visible/sagevisible attribute of the label.  Note: if specified, the disable/sagedisable and enable/sageenable attributes will be copied to the disable/sagedisable and enable/sageenable attributes of the label. |
| Value | ***Required.*** The value of the selected radio button | 1 |
| htmlAttrs | ***Optional***. The html attributes for the checkbox specified in an anonymous object or a RouteValueDictionary.   * “id” can be specified when the default of “Data\_”+property requires overriding. | new { @id = " OptMaterialUsage " }  Note: name will default to the id of the radio button and does not need to be specified unless another value for name is required. |
| includeLabel | ***Optional.*** True to add label otherwise no label will be added. Defaults to true. | includeLabel: false |
| labelText | ***Optional.*** If a label is included, the label text will be assigned from the expression’s property unless being overridden by this parameter | labelText: ReceiptResx.Currency |
| labelDataAttrs | ***Optional***. The knockout data attributes for the label specified in an anonymous object or a RouteValueDictionary. See dataAttrs for value possibilities. | htmlAttrs: new { @sagedisable = "Data.IsMaterialUsageDisable" } |
| labelHtmlAttrs | ***Optional***. The html attributes for the label specified in an anonymous object or a RouteValueDictionary.   * “id” can be specified when the default of “lbl”+property requires overriding. | labelHtmlAttrs: new { id = "lblDescription", @class = “required” } |
| labelFirst | ***Optional.*** True to add label before checkbox otherwise adds label after checkbox. Defaults to false. | labelFirst: true |
| hasCustomBinding | ***Optional:*** True to generate custom binding attributes (i.e., sagedisable, sagevalue, etc.) otherwise false to only generate native Kendo bindings. Default value is true. | hasCustomBinding: false |

* + 1. Individual Helpers Example

<div class="child block">

@Html.KoSageRadioButtonFor(m => m.Data.BatchTypeSwitch, (int)PostBatchTypeSwitch.Invoice,

new { @sagechecked = "Data.BatchTypeSwitch", @sagedisable = "isInvoiceDisable" },

new { @id = "radInvoice" })

@Html.SageLabel("BatchListing\_Invoice1",APCommonResx.Invoice1,

new { @class = "", @for = "radInvoice" })

</div>

<div class="child block">

@Html.KoSageRadioButtonFor(m => m.Data.BatchTypeSwitch, (int)PostBatchTypeSwitch.Payment,

new { @sagechecked = "Data.BatchTypeSwitch", @sagedisable = "isPaymentDisable" },

new { @id = "repayment" })

@Html.SageLabel("BatchListing\_Payment",APCommonResx.Payment,

new { @class = "", @for = "radPayment" })

</div>

* + 1. New Composite Helper Example

<div class="child block">

@Html.SgRadioButtonFor(m => m.Data.BatchTypeSwitch, (int)PostBatchTypeSwitch.Invoice,

new { @sagechecked = "Data.BatchTypeSwitch", @sagedisable = "isInvoiceDisable" },

new { @id = "radInvoice" },

labelHtmlAttrs: new { @id = "BatchListing\_Invoice1" }, labelText: APCommonResx.Invoice1)

</div>

<div class="child block">

@Html.SgRadioButtonFor(m => m.Data.BatchTypeSwitch, (int)PostBatchTypeSwitch.Payment,

new { @sagechecked = "Data.BatchTypeSwitch", @sagedisable = " isPaymentDisable" },

new { @id = "repayment " },

labelHtmlAttrs: new { @id = “BatchListing\_Payment" }, labelText: APCommonResx.Payment)

</div>

* Need **id** for label and checkbox to override helper defaults.
* No need to specify for attribute as helper defaults this value.