API Reference Button ContentView FlowList Frame Group **Image** InputField Label List Mask Panel Region Slider View ViewSwitcher Button Inherits from Frame Description Clickable region with text. Can be set to toggle and can have content. **Fields** Text Button text. string Disabled hool Boolean indicating if button is disabled. IsToggleButton bool Boolean indicating if button is a toggle-button that can be toggled on/off. ToggleValue bool Boolean indicating if button is toggled on (True) or off (False). Boolean indicating if button can be toggled on by the user (used if CanToggleOn bool IsToggleButton=True). Boolean indicating if button can be toggled off by the user (used if CanToggleOff bool IsToggleButton=True). Font Font Button text font. FontStyle FontStyle Button text font-style. FontSize int Button text font-size. FontColor Color Button text font-color. TextAlignment Alignment Button text alignment. ShadowColor Color Button text shadow color. ShadowDistance Vector2 Button text shadow distance. OutlineColor Color Button text outline color. OutlineDistance Vector2 Button text outline distance. HighlightedColor Color Highlighted button color. PressedColor Color Pressed button color. DisabledColor Disabled button color Color Highlighted button image. HighlightedImage Sprite PressedImage Sprite Pressed button image. DisabledImage Disabled button image. Sprite **Actions** Click Triggered when user clicks on the button. Triggered when pointer enters the button. MouseEnter MouseExit Triggered when the mouse exits the button. MouseDown Triggered on mouse down. MouseUp Triggered on mouse up. **XML** Embedded XMI <ContentContainer />
<ViewAnimation Id="HighlightImageAnimation">
 <Animate Field="BackgroundImage" To="{HighlightedImage}" /> </ViewAnimation> <ViewAnimation Id="PressedImageAnimation">
 <Animate Field="BackgroundImage" To="{PressedImage}" /> </ViewAnimation> </Button> ContentView Inherits from View Description View that allows content to be set. Has no additional logic of its own. **FlowList** Inherits from ContentView Description A content view that arranges its content into items that flow in a direction (horizontally or vertically). Items that doesn't fit on a row wraps around to the next row. It also provides logic for selecting items. **Fields** SelectedIndex string Comma-separated list of indexes of items that should be selected by default. CanDeselect bool Boolean indicating if items can be deselected. CanMultiSelect Boolean indicating if multiple items can be selected. bool CanSelect bool Boolean indicating if user can select items. Generic List List of items to be arranged by the FlowList. Items ItemColor Color Item color. ItemImage Sprite Item image. ItemImageType Image.Type Item image type. SelectedItemColor Color Selected item color. SelectedItemImage Sprite Selected item image. HighlightedItemColor Color Highlighted item color. HighlightedItemImage Sprite ContentMargin Margin Margin of content. Orientation Orientation Flow-direction of items Spacing ElementSize Spacing between items. Overrides horizontal/vertical spacing if set. HorizontalSpacing ElementSize Horizontal spacing between items. ElementSize Vertical spacing between items. VerticalSpacing Actions SelectionChanged Triggered when item-selection changes. Methods /// Selects item in list. /// /// /// /// /// /// /// /// /// /// /// /// /// /// /// /// /// /// /// /// /// /// /// /// /// /// /// /// /// /// /// /// /// // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // **XML** <FlowList Orientation="Horizontal"> </FlowList> Frame Inherits from ContentView Description A content view that resizes itself to its content. Used to frame content. **Fields** ResizeToContent Boolean indicating if content view should resize to its content. bool ContentMargin Margin Margin of content. **XML** Embedded XML <Frame ResizeToContent="True" ContentMargin="0"> <ContentContainer Id="Content" Margin="{ContentMargin}" ResizeToContent="{ResizeToContent}" /> </Frame> Group Inherits from ContentView Description A content view that arranges its content vertically or horizontally with a set spacing between. The content can be aligned Top/Bottom (if arranged Horizontally) or Left/Right (if arranged Vertically). **Fields** Orientation Orientation Orientation to arrange content. Spacing ElementSize Spacing between items. Determines how content is to be aligned. Content can be aligned Top/Bottom (if ContentAlignment Alignment arranged horizontally) or Left/Right (if arranged vertically) **XML** Embedded XML <Group Spacing="0" Orientation="Vertical" /> Image Inherits from View Description Used to display images. Adds the shorthands for setting background image and color. **Fields** Background color overlay or tint of the view. Color values can be specified by name or hexcode Color Color (#aarrggbb or #rrggbb). Path Sprite The background image of the view. The value is the path to the sprite asset. Type Image. Type The image type of the background image: Simple, Sliced, Tiled or Filled. **XML** Embedded XML InputField Inherits from ContentView Description Input field where the user can type text. Supports single-/multi-line input and different input types (names, passwords, etc.). It allows for content that will be shown when the text is empty. **Fields** Text Text in the input field. string TextMargin Margin of text in the input field. Margin Font Font Text font. FontStyle FontStyle Text font-style. FontSize Text font-size. LineSpacing float Text line spacing. FontColor Color Text font-color. CharacterLimit Character limit. int ContentType InputField.ContentType Type of input content. LineType InputField.LineType SingleLine, MultiLineSubmit or MultiLineNewline. CaretBlinkRate float Blink rate of caret. Default rate is 0.7. TextSelectionColor Color Background color of selected text. Boolean indicating if value should be set upon end edit or SetValueOnEndEdit bool immediately while being typed. Actions EndEdit Triggered when user stops editing text in the input field. **XML** Embedded XML <InputField BackgroundColor="White" TextMargin="9,9,9,9" FontStyle="Normal" FontSize="18"
 LineSpacing="1" FontColor="Black" Width="8em" Height="1em" CaretBlinkRate="1.7"
 Text="" CharacterLimit="0" ContentType="Standard" LineType="SingleLine" TextSelectionColor="#aaaaaaa"> <ContentContainer Id="InputFieldPlaceholder" /> <Label Id="InputText" Margin="(TextMargin)" Text="{Text}" RichText="False" TextAlignment="TopLeft'
Width="100%" Height="100%" Font="{Font}" FontStyle="{FontStyle}" FontSize="{FontSize}"</pre> LineSpacing="{LineSpacing}" FontColor="{FontColor}"/> </InputField> Label Inherits from View Description Displays text. Can adjust its size to text width or height. **Fields** Text string Label text. AdjustToText Adjustes view size to text according to value: None, Width or Height. AdjustToText Font Text font. FontStyle FontStyle Text font-style FontSize Text font-size. LineSpacing float Text line spacing. RichText Boolean indicating if label has rich text content. bool TextAlignment Alignment Alignment of text. FontColor Color Text font-color. ShadowColor Color Text shadow color. ShadowDistance Vector2 Text shadow distance. Text outline color. OutlineColor Color OutlineDistance Vector2 Text outline distance. **XML** Embedded XML List Inherits from Group Description Expands on the Group view and adds selection-logic for selecting content. It's similar to the FlowList but doesn't wrap content and the selection mode is enabled by default. **Fields** SelectedIndex Comma-separated list of indexes of items that should be selected by default. string Boolean indicating if items can be deselected. CanDeselect CanMultiSelect Boolean indicating if multiple items can be selected. bool CanSelect bool Boolean indicating if user can select items. Items Generic List List of items to be arranged by the FlowList. ItemColor Color Item color. ItemImage Sprite Item image. ItemImageType Image.Type Item image type. SelectedItemColor Color Selected item color Selected item image. SelectedItemImage Sprite HighlightedItemColor Color Highlighted item color. HighlightedItemImage Sprite Highlighted item image. Actions SelectionChanged Triggered when item-selection changes. Methods /// Selects item in list. /// <param name="objSource">Item to be selected</param: /// <param name="userTriggered">Boolean indicating if user triggered this action</param> public void SelectItem(object objSource, bool userTriggered = false); **XML** Embedded XML <List Spacing="0" Orientation="Vertical" CanDeselect="False" > Mask Inherits from ContentView Description Content view that masks its content using its background image. **XML** Embedded XML <Mask BackgroundColor="#03ffffff" /> Panel Inherits from ContentView Description Content view that provides functionality for scrolling content. Scrollable content can be aligned using the ContentAlignment field. **Fields** ScrollVertical bool Boolean indicating if content can be scrolled vertically. ScrollHorizontal Boolean indicating if content can be scrolled horizontally. bool ContentAlignment Alignment Content alignment. Determines initial scroll position. ContentMargin Margin of scrollable content. Margin HorizontalScrollBarlmage Sprite Background image of horizontal scroll-bar. VerticalScrollBarlmage Background image of vertical scroll-bar. Sprite HorizontalScrollBarlmageType Sprite Background image type of horizontal scroll-bar. VerticalScrollBarlmageType Background image type of vertical scroll-bar. Sprite Horizontal Scroll Bar Handle ImageSprite Background image of horizontal scroll-bar handle. VerticalScrollBarHandleImage Sprite Background image of vertical scroll-bar handle. Horizontal Scroll Bar Handle Image TypeBackground image type of horizontal scroll-bar handle. VerticalScrollBarHandleImageType Sprite Background image type of vertical scroll-bar handle. HorizontalScrollBarColor Color Background color of horizontal scroll-bar. VerticalScrollBarColor Color Background color of vertical scroll-bar. HorizontalScrollBarHandleColor Color Background color of horizontal scroll-bar handle. VerticalScrollBarHandleColor Color Background color of vertical scroll-bar handle. ShowHorizontalScrollBar bool Boolean indicating if horizontal scroll-bar should be shown. ShowVerticalScrollBar bool Boolean indicating if vertical scroll-bar should be shown. **XML** Embedded XML </ScrollRect> </Mask> Margin="0,0,0,20" /> </Region> </Panel> Region Inherits from ContentView **Description** Content view used to spacially arrange views. **XML** Embedded XML <Region /> Slider Inherits from View **Description** Slider with a handle that can be moved with the mouse. Can be oriented horizontally or vertically. **Fields** SliderHandleLength ElementSize Length of slider handle. SliderHandleBreadth ElementSize Breadth of slider handle. Set Value On Drag Endedbool Boolean indicating if value is set on drag end or while dragging. Length ElementSize Length of slider. ElementSize Breadth of slider. Breadth Orientation Orientation Orientation of slider. Sliderlmage Sprite Background image of slider. SliderColor SliderImageType Image.Type Background image type of slider. SliderFillImage Sprite Background image of slider fill. SliderFillColor Color Background color of slider fill. SliderHandlelmage Sprite Background image of slider handle. SliderHandleColor Color Background color of slider handle. SliderHandleImageType Image.Type Background image type of slider handle. SliderFillMargin Margin of fill image. Margin Min float Min value of slider. Max float Max value of slider. Value float Slider value. **Actions** ValueChanged  $Triggered \ when \ slider \ value \ changes. \ Triggered \ on \ end \ edit \ if \ SetValueOnEndEdit \ is \ True.$ BeginDrag Triggered when user begins to drag the slider. Triggered when user ends to dragging the slider. EndDrag Triggered when user drags the slider. Drag InitializePotentialDrag Triggered when user initializes a potential drag. **XML** Embedded XML <Slider Length="4em" Breadth="1em" Orientation="Horizontal" Drag="SliderDrag" BeginDrag="SliderBeginDrag"
EndDrag="SliderEndDrag" InitializePotentialDrag="SliderInitializePotentialDrag"
SliderHandleLength="20px" SliderHandleBreadth="100%" Min="0" Max="100" SliderFillMargin="0"> <Region Id="SSlideRegion"> </Region> </Slider> View Description Base class for all views. **Fields** Width of the view. Can be specified in pixels, percentage or elements. Width ElementSize Default value: "100%" Height of the view. Can be specified in pixels, percentage or elements. Height ElementSize Default value: "100%". Alignment of the view: TopLeft, Top, TopRight, Left, Center, Right, Alignment Alignment BottomLeft, Bottom, BottomRight. Default value: "Center". Specifies the view's margin from left, top, right and bottom. Default value: Margin Margin Specifies the view's offset from left, top, right and bottom. Default value: Offset Margin "0.0.0.0" OffsetFromParent Margin Offset manipulated by parent views. Background color overlay or tint of the view. Color values can be specified BackgroundColor Color by name or hexcode (#aarrggbb or #rrggbb). Default value: (not set). The background image of the view. The value is the path to the sprite asset. BackgroundImage Sprite The image type of the background image: Simple, Sliced, Tiled or Filled. BackgroundImageType Image.Type Default value: "Simple". Boolean indicating if RectTransform should be updated upon view update. UpdateRectTransform True by default. Boolean indicating if background image/color should be updated upon view **UpdateBackground** bool update. True by default.

Boolean indicating if view is enabled. Disabled views are hidden but still

Name of style. May be used by themes to do selective styling.

receive updates. True by default.

Alpha color channel of view (0-1).

X,Y,Z scale of the view.

X,Y,Z scale of the view.

Pivot position.

X,Y,Z rotation of the view (in degrees).

View identifier.

Enabled

ld

Style

Alpha

Scale

Scale

Pivot

Methods

/// </summarys

/// </summary>

public void UpdateView();

public void UpdateLayouts();

/// Updates the layout of the view. public virtual void UpdateLayout(); /// <summary>
/// Updates the behavior of the view. public virtual void UpdateBehavior();

/// Returns embedded XML for the view. public virtual void GetEmbeddedXml();

ViewSwitcher

Description

**Fields** 

StartView

TransitionIn

Methods

/// </summarv>

**XML** 

Embedded XML

</ViewSwitcher>;

<ViewSwitcher SwitchToDefault="True</pre>

<ContentContainer ResizeToContent="False" />

TransitionOut

/// Switches to a view.

/// <summary>
/// Switches to a view. /// </summary>

SwitchToDefault

Inherits from ContentView

Rotation

bool

string

string

float

Vector3

Vector3

Vector3

Vector2

/// Sets the value of a field utilizing the binding and change tracking system.

/// <typeparam name="TField">Type inferred from the field expression</typeparam>

public void SetValue<TField>(Expression<Func<TField>> field, object value);

 $^{\prime\prime\prime}$  Gets boolean indicating if a field value has changed since last frame.

/// Sets boolean indicating that a field value has changed since last frame.

/// 
/// <typeparam name="TField">Type inferred from the field expression</typeparam>
/// <param name="field">Field expression</param>

public bool HasChanged<TField>(Expression<Func<TField>> field);

public bool SetChanged<TField>(Expression<Func<TField>> field);

/// Updates the layout of the view and notifies parents of update.

Content view that provides functionality for switching its content.

string

bool

string

string

</p

"animate">Boolean indicating if switch should be animated</param>

/// /// /// /// /// /// /// /// /// /// /// /// /// /// /// /// /// /// /// /// /// /// /// /// /// /// /// /// /// /// /// /// /// /// /// // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // //

public void SwitchTo(View view, bool animate = true);

/// <param name="id">Id of view to be switched to</param>

/// <param name="index">Zero-based index of view to be switched to</param /// /// /// /// /// /// /// /// /// /// /// /// /// /// /// /// /// // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // <p

public void SwitchTo(string id, bool animate = true);

Id of view to be displayed by default.

Boolean indicating if first view should be displayed by default.

Id of view animation to apply on views transitioned to.

ld of view animation to apply on views transitioned from.

/// <summary>
/// Updates layout and behavior of the view.

/// /// /// /// /// /// // /// /// /// /// /// /// /// /// /// /// /// /// /// /// /// /// /// /// /// /// /// /// /// /// /// /// /// /// /// /// /// /// /// /// /// /// /// /// /// /// /// /// /// /// /// /// /// /// /// // /// // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // /

/// <param name="field">Field expression</param>
/// <param name="value">Value to set</param>

ValueChanged Triggered when text input changes. If SetValueOnEndEdit is True it's triggered only when edit ends.