



Project: 703/ASW	HAMILTON Bonaduz AG	10.04.2013	Page 1 of 28
ASW Standard GUI	Doc. Name: Programmers Manual	Version:	1.0

# ASW Standard GUI

## Programmers Manual

Function	Name	Date	Signature
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Project: <b>703/ASW</b>	<b>HAMILTON Bonaduz AG</b>	<b>10.04.2013</b>	<b>Page 2 of 28</b>
<b>ASW Standard GUI</b>	Doc. Name: <b>Programmers Manual</b>	Version:	<b>1.0</b>

## Revision History

<b>Modification</b>	<b>Description</b>	<b>Author</b>	<b>Date</b>
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V 0.2	Restructuring of document	R. Sommer	2013-01-16
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# 1 Introduction

## 1.1 Purpose of this document

This document describes the use of the ASW Standard GUI Styles. The ASW Standard GUI primarily defines the standard theme for Hamilton ASW (overwritten default control layouts). The technology in behind is WPF (Avalon) from Microsoft .NET Framework 4.0. The used hierarchical surface description language is XAML. The mainly used architectural pattern is MVVM. It is intended for Application Developers.

## 1.2 Definitions and Abbreviations

Item	Description
XAML	eXtensible Application Markup Language
WPF	Windows Presentation Foundation
MVVM	Model View View-Model
CLR	Common Language Runtime
COM	Component Object Model (-based technology)

## 2 Requirements

### 2.1 System requirements

The Hamilton ASW GUI Templates requires:

- PC with Windows 7 or newer
- Microsoft .net Framework 4.0
- Visual Studio 2010

### 2.2 Installation of ASW Standard GUI package

The installation of all styles will be done by the installation wizard. For the installation you need local admin rights on the PC because of system wide registration of required assemblies.

#### 2.2.1 Installation of the template program

All recommendations and hints in this document refer to the template program delivered with the installer of the ASW Standard GUI. So it is highly recommended to have it installed within the setup.

#### 2.2.2 Folder structure after installation

The following folders will be created by the install wizard:

%ProgramFiles% or %ProgramFiles(x86)%

\Hamilton

\Library

\ASWStandardDialogs

*(This folder contains all the assemblies for GUI and application programming as well as method programming)*

#### 2.2.3 Assemblies

Column	Description
AttachedCommandBehavior.dll	Helper class for control bindings.
HamiltonASWGUI.Resources.dll	Resources / styles for the ASW Standard GUI.
Hamilton.AswGui.StandardGui.dll	Wrapper class to use the ASW dialogs with c# (see <a href="#">Predefined Dialogs</a> )
Hamilton.Toolbox.WPF.dll	General helper library for developing applications with WPF. For example an easy integration of icons out of the ASW Standard Icon set.
OS.Toolbox.Application.dll	General non-HAMILTON-related Application helper library.
OS.Toolbox.WPF.dll	General non-HAMILTON-related WPF helper library.

Column	Description
HamiltonASWGUI.Dialogs.dll	ASW dialogs COM class. This library is not needed in application development.
Hamilton.AswStatusDialog.dll	Status dialog library that has only to be used while MED programming. This library is not needed in application development.

## 2.3 Installation of ASW Standard Icon Set

Download the latest tagged version for the ASW Standard Icon Set from SVN and copy the folder ASWIconSet to the ASWStandardDialogs folder in the library section of the HAMILTON directory. After the copy operation the file hierarchy should look like this.

```
%ProgramFiles% or %ProgramFiles(x86)%
```

```
    \Hamilton
```

```
        \Library
```

```
            \ASWStandardDialogs
```

```
                \ASWIconSet
```

*(This folder contains the standard icon set in various sizes)*

## 3 Inside Visual Studio

### 3.1 Template

For an MVVM template start the template solution "mvvmtemplate.sln" in the following destination:

```
%ProgramFiles% or %ProgramFiles(x86)%
    \Hamilton
        \Library
            \ASWStandardDialogs
                \Templates
                    \MvvmTemplate
                        \mvvmtemplate
```

Attention: Make sure to open this solution in VS2010 only!

### 3.2 References

At least the following assemblies are needed to be able to use the ASW Standard GUI style with the corresponding icons in an easy way. All additional references could be used according the description in section 2.2.3.

Column	Description
AttachedCommandBehavior.dll	Helper class for control bindings.
HamiltonASWGUI.Resources.dll	Resources / styles for the ASW Standard GUI.
Hamilton.Toolbox.WPF.dll	General helper library for developing applications with WPF. For example an easy integration of icons out of the ASW Standard Icon set.

## 4 Main window

### 4.1 Overview

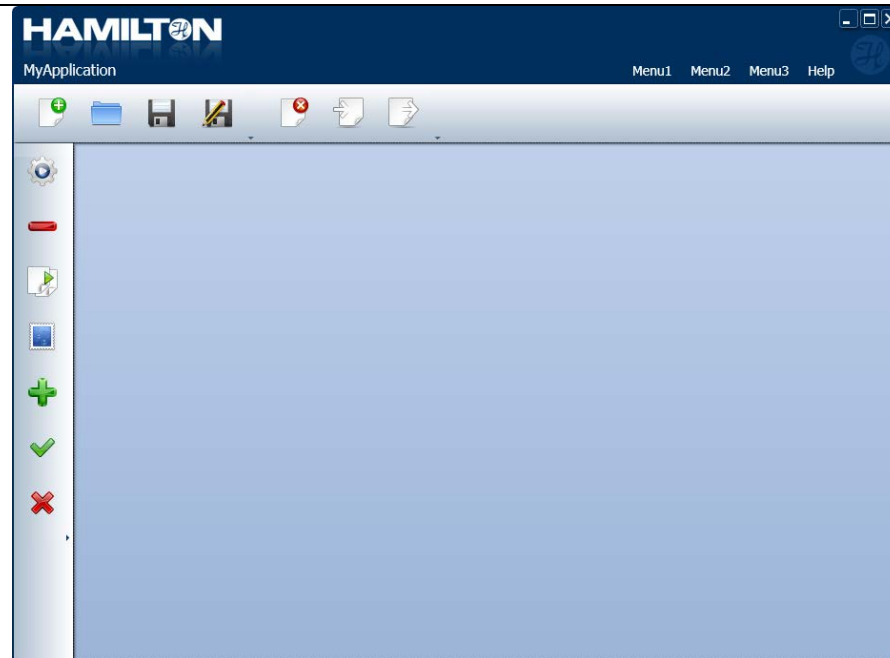
The main window is a borderless window.

To ensure Windows compatibility, take the `MainWindowView` class of the `MainWindowView.code.cs` File, which already handles some Events to ensure correctness, and extend it to your needs.

#### XAML

```
<Window x:Class="Hamilton.AswGui.MvvmTemplate.MainWindowView"
        xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"
        xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"
        Title="{Binding Path=DisplayName, Mode=OneWay}"
        Style="{DynamicResource HamiltonMainWindow}"
        ResizeMode="CanResizeWithGrip"
        ShowInTaskbar="True"
        MinWidth="600"
        MinHeight="500"
        Left="{Binding Path=ViewLeft, Mode=TwoWay}"
        Top="{Binding Path=ViewTop, Mode=TwoWay}"
        Width="{Binding Path=ViewWidth, Mode=TwoWay}"
        Height="{Binding Path=ViewHeight, Mode=TwoWay}"
        WindowState="{Binding Path=ViewState, Mode=TwoWay}">
```

#### Screenshot





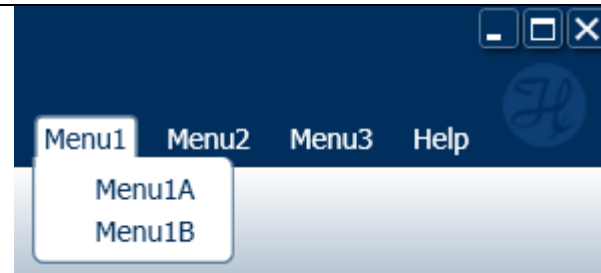
## 4.2 Menu

The predefined Menu is the Menu for the Main window and its Position is always on the Top Right of it.

### XAML

```
<Menu Margin="0,-30,60,0"
  DockPanel.Dock="Top"
  IsTabStop="True"
  VerticalAlignment="Center"
  HorizontalAlignment="Right">
  <Popup PlacementTarget="{Binding ElementName=ParentDockPanel}" />
  <MenuItem Header="Menu1">
    <MenuItem Header="Menu1A" />
    <MenuItem Header="Menu1B" />
  </MenuItem>
  <MenuItem Header="Menu2">
    <MenuItem Header="Menu2A" />
    <MenuItem Header="Menu2B" />
  </MenuItem>
  <MenuItem Header="Menu3">
    <MenuItem Header="Menu3A" />
    <MenuItem Header="Menu31B" />
  </MenuItem>
  <MenuItem Header="Help">
    <MenuItem Header="{Binding AboutDialogCommandDisplayName}"
      Command="{Binding AboutDialogCommand}" />
  </MenuItem>
</Menu>
```

### Screenshot



### 4.3 Toolbar

The predefined Toolbar is the Toolbar for the Main window and its Position is always on the Top Left Side of it.

#### XAML


```
<ToolBarTray DockPanel.Dock="Top"
    IsLocked="True">
    <ToolBar BandIndex="1">
        <Button Command="{Binding OpenFileCommand}">
            <Image Height="32"
                Width="32"
                Source="{Binding MyToolBarButton1ImageSource}" />
        </Button>
        <Button>
            <Image Height="32"
                Width="32"
                Source="{Binding MyToolBarButton2ImageSource}" />
        </Button>
        <Button>
            <Image Height="32"
                Width="32"
                Source="{Binding MyToolBarButton3ImageSource}" />
        </Button>
        <Button>
            <Image Height="32"
                Width="32"
                Source="{Binding MyToolBarButton4ImageSource}" />
        </Button>
    </ToolBar>
    <ToolBar BandIndex="2">
        <Button>
            <Image Height="32"
                Width="32"
                Source="{Binding MyToolBarButton5ImageSource}" />
        </Button>
        <Button>
            <Image Height="32"
                Width="32"
                Source="{Binding MyToolBarButton6ImageSource}" />
        </Button>
        <Button>
            <Image Height="32"
                Width="32"
                Source="{Binding MyToolBarButton7ImageSource}" />
        </Button>
    </ToolBar>
</ToolBarTray>
```

#### Screenshot



## 4.4 Workflowbar

The predefined Workflowbar is the Workflowbar for the Main window and its Position is always on the Left Side of it.

XAML	Screenshot
<pre> &lt;ToolBarTray Style="{StaticResource ToolBarTrayVertical}"               DockPanel.Dock="Left"               Margin="0,1,0,0"&gt;   &lt;ToolBar BandIndex="1"&gt;     &lt;Button&gt;       &lt;Image Height="32"               Width="32"               Source="{Binding MyWorkflowBarButton1ImageSource}" /&gt;     &lt;/Button&gt;     &lt;Button&gt;       &lt;Image Height="32"               Width="32"               Source="{Binding MyWorkflowBarButton2ImageSource}" /&gt;     &lt;/Button&gt;     &lt;Button&gt;       &lt;Image Height="32"               Width="32"               Source="{Binding MyWorkflowBarButton3ImageSource}" /&gt;     &lt;/Button&gt;     &lt;Button&gt;       &lt;Image Height="32"               Width="32"               Source="{Binding MyWorkflowBarButton4ImageSource}" /&gt;     &lt;/Button&gt;     &lt;Button&gt;       &lt;Image Height="32"               Width="32"               Source="{Binding MyWorkflowBarButton5ImageSource}" /&gt;     &lt;/Button&gt;     &lt;Button&gt;       &lt;Image Height="32"               Width="32"               Source="{Binding MyWorkflowBarButton6ImageSource}" /&gt;     &lt;/Button&gt;     &lt;Button&gt;       &lt;Image Height="32"               Width="32"               Source="{Binding MyWorkflowBarButton7ImageSource}" /&gt;     &lt;/Button&gt;   &lt;/ToolBar&gt; &lt;/ToolBarTray&gt; </pre>	

## 5 Predefined Dialogs

The Hamilton.AswGui.StandardGui.dll provides access to the Dialogs from the ASWGUI Dialogs framework. The following dialogs are included.

### 5.1 Declaration / Initialisation and Show

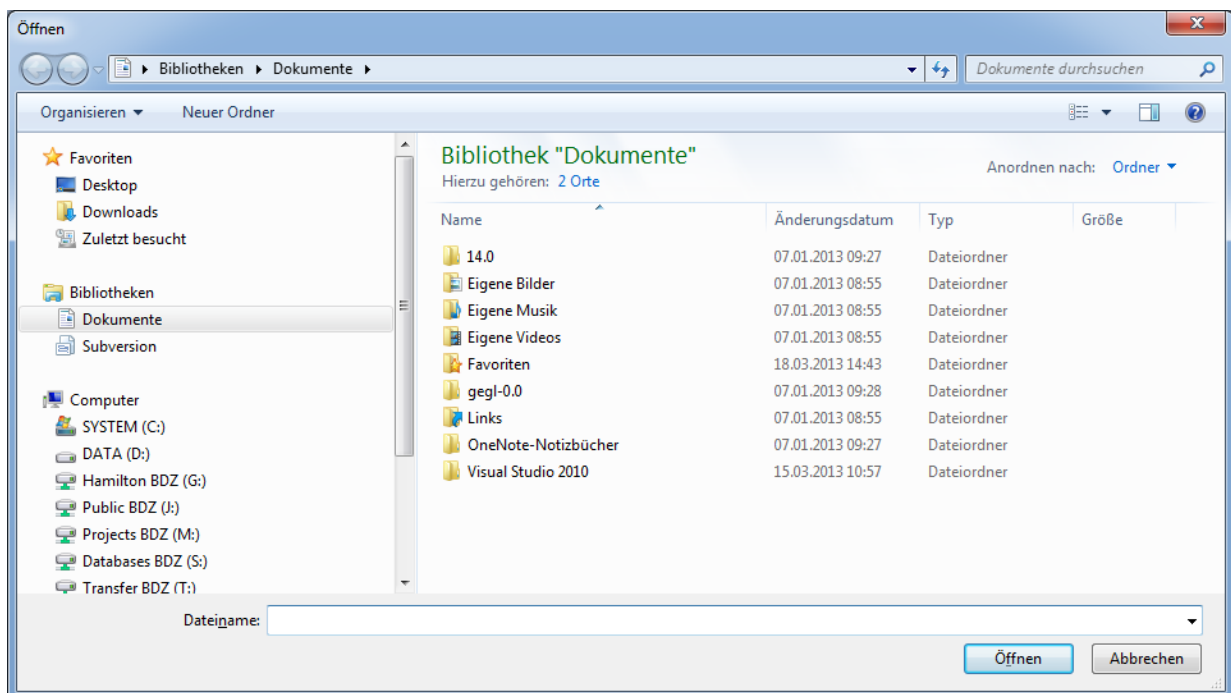
```
var testDialog = new Hamilton.AswGui.StandardGui.CommonDialogs(mainWindowView,
IOManager.ApplicationIconDirectory, out commonDialogsInitializationStatus);
```

```
testDialog.Show[Dialog]([specific Parameters])
```

### 5.2 FileDialog

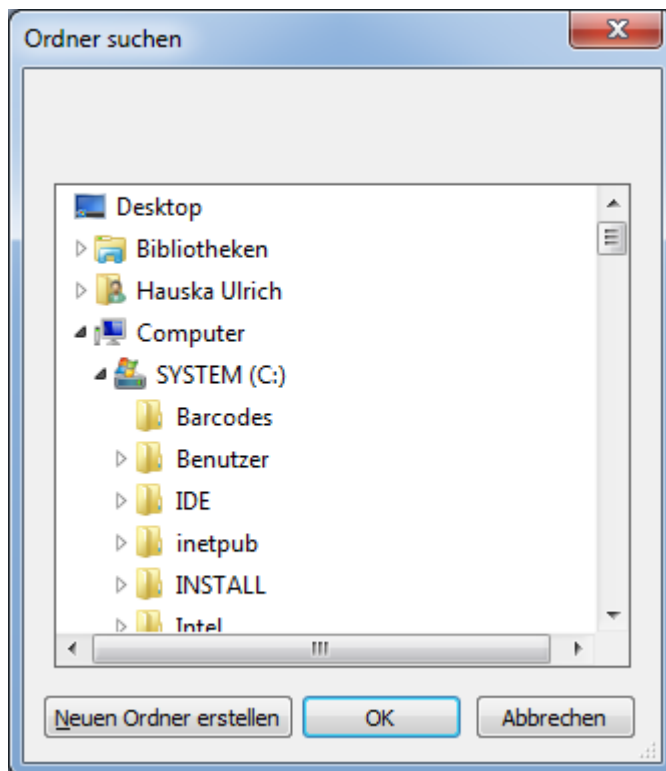
Opens a file open dialog to select a file.

Return Value: Full File Name. [string]



### 5.3 FolderBrowser

Return Value: Full Folder Name. [string]



### 5.4 ListSelectDialog

Return Value: Enum of the Exit Button. [AswMessageDialogResult]



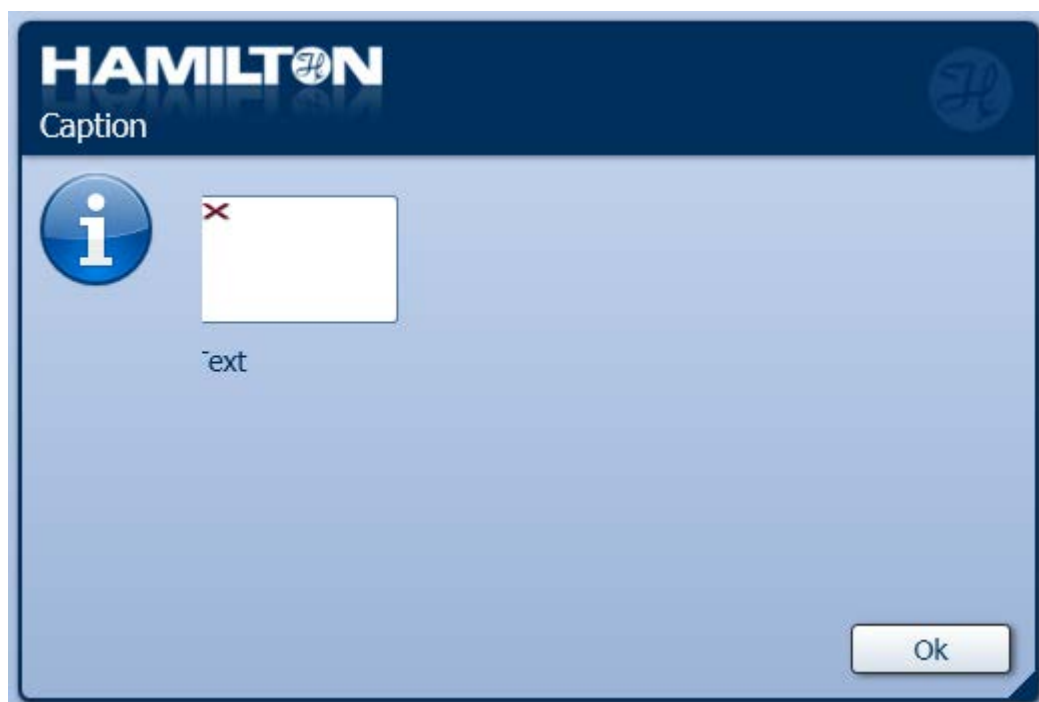
## 5.5 MessageDialog

Return Value: Enum of the Exit Button. [AswMessageDialogResult]



## 5.6 MessageDialogWithImage

Return Value: Enum of the Exit Button. [AswMessageDialogResult]



## 5.7 MessageDialogWithList



Return Value: Enum of the Exit Button. [AswMessageDialogResult]



## 6 Overview Window Styles

### 6.1 Standard window


Location: HamiltonWindow.xaml

Style	Effect on Control	Screenshot
HamiltonSplashWindow	Window with SplashWindow design	 <p>The screenshot shows a window titled 'HamiltonSplashWindow' with a dark blue header bar containing the 'HAMILTON' logo and 'HiddenFeaturesWindow' text. The main content area is a light blue gradient with the text 'HamiltonSplashWindow' centered.</p>
HamiltonWindow	Window with HamiltonWindow design	 <p>The screenshot shows a window titled 'HamiltonWindow' with a dark blue header bar containing the text 'HiddenFeaturesWindow' and a small icon. The main content area is a light blue gradient with the text 'HamiltonWindow' centered.</p>




## 6.2 Main window

Location: HamiltonWindow.xaml

HamiltonMainWindow	Window with HamiltonWindow design	
--------------------	-----------------------------------	--

## 6.3 About window


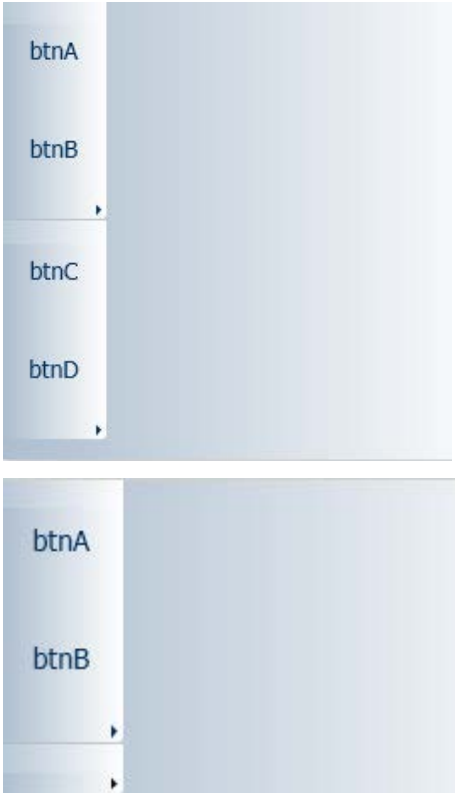
Location: HamiltonWindow.xaml

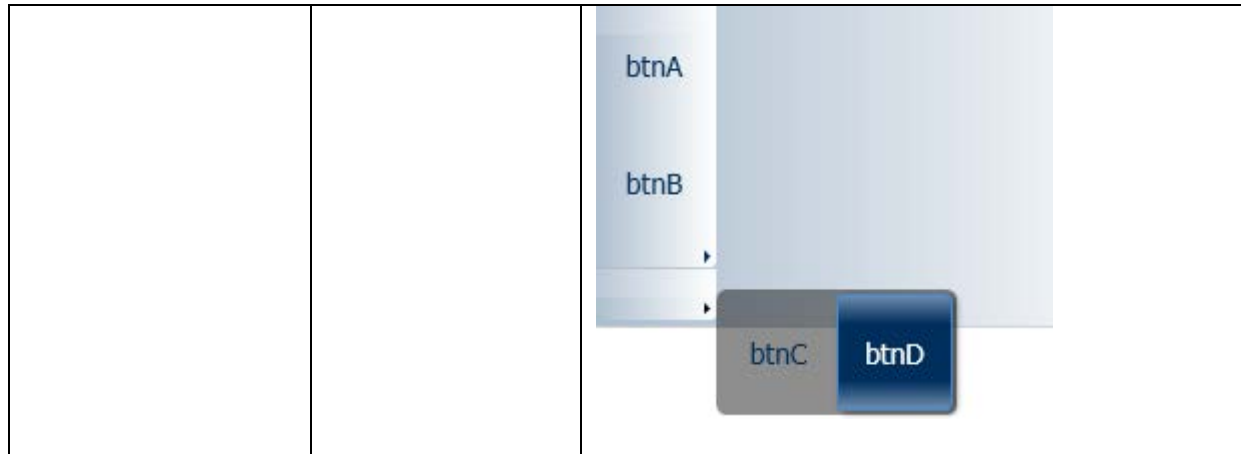
HamiltonAboutWindow	Window with AboutWindow design	
---------------------	--------------------------------	--

## 7 Overview Control styles

### 7.1 ToolBar

Location: HamiltonTheme.xaml

Style	Effect on Control	Screenshot
ToolBarTray: no Style, default	<p>Example: 1x ToolBarTray with 2x ToolBars with 2 Buttons each</p> <p>Each ToolBarTray can be dragged with mouse</p>	
ToolBarTray: ToolBarTrayVertical	<p>ToolBars vertically positioned</p> <p>ToolBars cannot be dragged (Positions not changeable)</p>	



## 7.2 Border

Location: HamiltonTheme.xaml

Style	Effect on Control	Screenshot
GroupingBorder	No frame, border background with white opacity, round edges	

## 7.3 Button

Location: HamiltonTheme.xaml

Style	Effect on Control	Screenshot
No Style, default	<p>MouseOver: Background changes to dark blue and Foreground to white</p> <p>ButtonClicked: button gets blue border</p>	

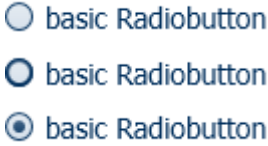

## 7.4 CheckBox

Location: HamiltonTheme.xaml

Style	Effect on Control	Screenshot
No Style, default	<p>MouseOver: Border of CheckBox becomes bold</p>	<input type="checkbox"/> basic CheckBox <input type="checkbox"/> basic CheckBox <input checked="" type="checkbox"/> basic CheckBox

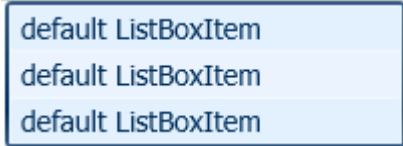
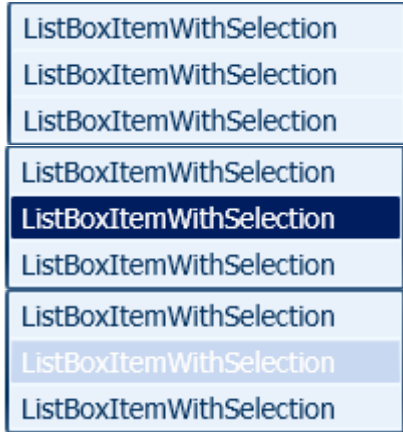
## 7.5 RadioButton

Location: HamiltonTheme.xaml

Style	Effect on Control	Screenshot
No Style, default	<p>MouseOver: Border of RadioButton becomes bold</p> <p>After MouseClick: RadioButton is checked</p>	
ImageRadioButton	<p>MouseOver: ImageRadioButton becomes bold</p> <p>After MouseClick: ImageRadioButton is checked</p>	

## 7.6 ListBox


Location: HamiltonTheme.xaml

Style	Effect on Control	Screenshot
No Style, default	<p>ListBoxItems are just listed,</p> <p>No other effects detected</p>	
ListBoxItemWithSelection	<p>Item selection is visible in ListBox</p> <p>MouseOver: Item gets dark blue background</p> <p>MousePressed: Item gets clear blue background</p> <p>After MouseClick: Item has clear blue background, black</p>	

	foreground	<div> <div>ListBoxItemWithSelection</div> <div>ListBoxItemWithSelection</div> <div>ListBoxItemWithSelection</div> </div>
ListBoxWithAlternatingBackground	ListBoxItems are just listed, No other effects detected	<div> <div>ListBoxItemAlternatingBackground</div> <div>ListBoxItemAlternatingBackground</div> <div>ListBoxItemAlternatingBackground</div> </div>
ListBoxWithAlternatingBackgroundAndSelection	Item selection is visible in ListBox  MouseOver: Item gets dark blue background  MousePressed: Item gets clear blue background  After MouseClick: Item has clear blue background, black foreground	<div> <div>ListBoxItemWithSelection</div> <div>ListBoxItemWithSelection</div> <div>ListBoxItemWithSelection</div> <div>ListBoxItemWithSelection</div> <div>ListBoxItemWithSelection</div> <div>ListBoxItemWithSelection</div> <div>ListBoxItemWithSelection</div> <div>ListBoxItemWithSelection</div> <div>ListBoxItemWithSelection</div> <div>ListBoxItemWithSelection</div> <div>ListBoxItemWithSelection</div> </div>

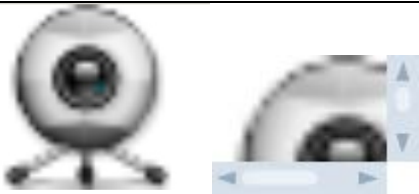
## 7.7 ScrollBar

Location: HamiltonTheme.xaml

Style	Effect on Control	Screenshot
No Style, default	Orientation vertical/horizontal, Clear blue color	

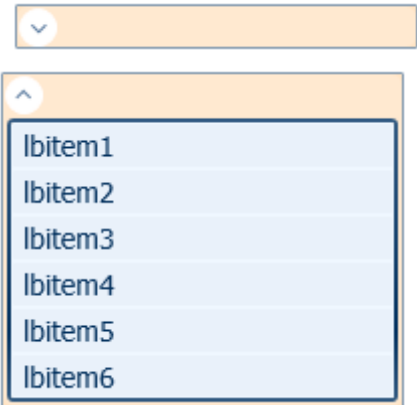
## 7.8 ScrollViewer

Location: HamiltonTheme.xaml

Style	Effect on Control	Screenshot
No Style, default	Orientation vertical/horizontal, Clear blue color	

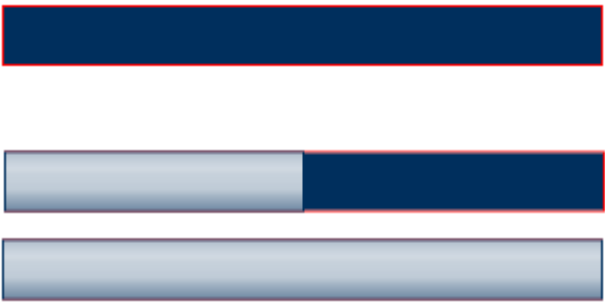
## 7.9 Expander

Location: HamiltonTheme.xaml

Style	Effect on Control	Screenshot
No Style, default (Expander within Border Expander contains ListBox, no fix height)	MouseClick: Expander changes direction and all contained elements are shown	



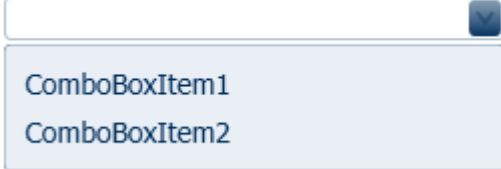
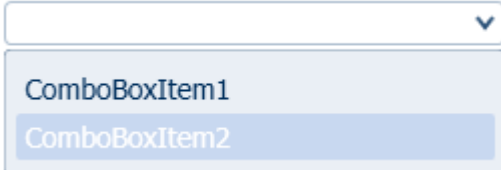

## 7.10 ProgressBar

Location: HamiltonTheme.xaml

Style	Effect on Control	Screenshot
No Style, default	Background dark blue, red border  Filling from left to right, replacing red border by clear blue ProgressBar	

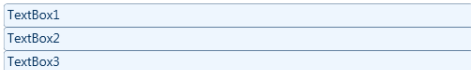
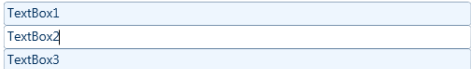
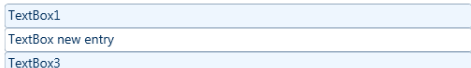
## 7.11 ComboBox

Location: HamiltonTheme.xaml

Style	Effect on Control	Screenshot
No Style, default	<p>Transparent ComboBox</p> <p>MouseOver: ToggleButton dark blue</p> <p>MouseClicked: ComboBoxItems are shown with blue Foreground and clear blue Background</p> <p>MouseOver ComboBoxItem: Item Foreground becomes white, background clear blue</p> <p>ComboBoxItem was clicked: Selected item is shown in ComboBox</p>	    

## 7.12 TextBox

Location: HamiltonTheme.xaml

Style	Effect on Control	Screenshot
No Style, default	<p>TextBoxClicked: Background becomes white, Value can be changed/set</p>	  

		<div> <div>TextBox1</div> <div>TextBox new entry</div> <div>TextBox3</div> </div>
--	--	---

## 7.13 TextBlock

Location: `HamiltonTheme.xaml`

Style	Effect on Control	Screenshot
No Style, default	transparent background, blue foreground	<div>TextBlock</div> <div>TextBlock</div>

## 7.14 PasswordBox

Location: `HamiltonTheme.xaml`

Style	Effect on Control	Screenshot
No Style, default	Background clear blue  PasswordBox clicked: Background white, Input replaced by dots	<div></div> <div></div> <div>•••• </div>

## 7.15 RichTextBox

Location: `HamiltonTheme.xaml`


Style	Effect on Control	Screenshot
No Style, default	Blue bold border, Foreground white and must be set explicitly in order to be visibly	<div> </div> <div> </div>



		<div> <div>RichTextBox</div> <div>with a long text and many new lines</div> </div>
--	--	--


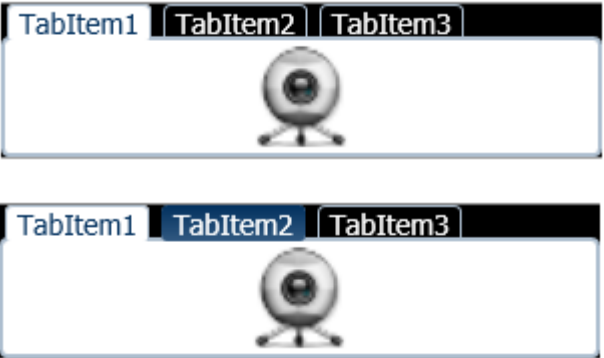
## 7.16 Label

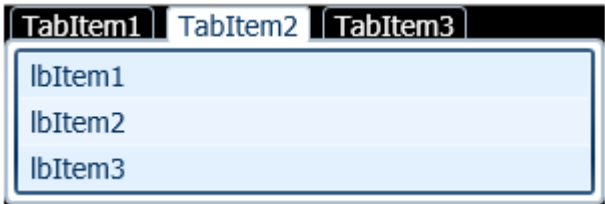
Location: HamiltonTheme.xaml

Style	Effect on Control	Screenshot
No Style, default	Background transparent, Foreground blue	

## 7.17 TabControl


Location: HamiltonTheme.xaml

Style	Effect on Control	Screenshot
No Style, default	transparent TabItem Header, Foreground blue	
Background set to black for test	<p>many TabItems: 1<sup>st</sup> TabItem entry shown, other TabItems transparent, Foreground white</p> <p>MouseOver: TabItem marked dark blue</p> <p>MouseClicked: Selected TabItem background changes to white</p>	

	and entry is shown	
--	--------------------	--


## 7.18 Slider

Location: HamiltonTheme.xaml

Style	Effect on Control	Screenshot
No Style, default	Blue slider, transparent background, ToggleButton changes from clear blue to dark blue on MouseClick	


## 7.19 Image

Location: HamiltonTheme.xaml

Style	Effect on Control	Screenshot
No Style, default	Image fitted to window size	

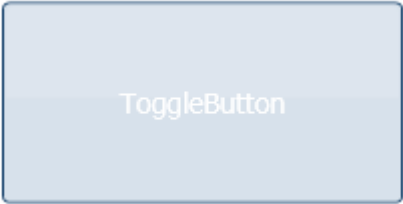
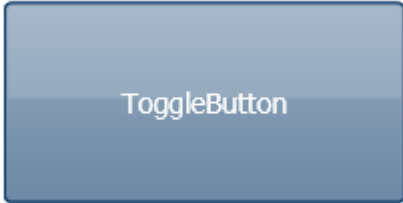

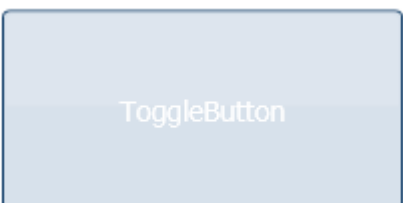
## 7.20 TreeView

Location: HamiltonTheme.xaml

Style	Effect on Control	Screenshot
No Style, default (Background black for testing)	TreeView with white background	

## 7.21 ToggleButton

Location: HamiltonTheme.xaml

Style	Effect on Control	Screenshot
No Style, default	Foreground: white Background: clear blue color	
	MouseOver: Background becomes darker blue	
	ToggleButton pressed: Foreground changes to black	
	After 2 <sup>nd</sup> click: ToggleButton as initial	

## 7.22 ListView

Location: `HamiltonTheme.xaml`

Style	Effect on Control	Screenshot																								
ListView: No Style, default With GridViewColumns and ListViewItems	Each column (GridViewColumn with HeaderX) is filled with all available ListViewItems  Simple List without further effects	<table><tr><th>Header1</th><th>Header2</th><th>Header3</th><th></th></tr><tr><td>listViewItem1</td><td>listViewItem1</td><td>listViewItem1</td><td></td></tr><tr><td>listViewItem2</td><td>listViewItem2</td><td>listViewItem2</td><td></td></tr><tr><td>listViewItem3</td><td>listViewItem3</td><td>listViewItem3</td><td></td></tr><tr><td>listViewItem4</td><td>listViewItem4</td><td>listViewItem4</td><td></td></tr><tr><td>listViewItem5</td><td>listViewItem5</td><td>listViewItem5</td><td></td></tr></table>	Header1	Header2	Header3		listViewItem1	listViewItem1	listViewItem1		listViewItem2	listViewItem2	listViewItem2		listViewItem3	listViewItem3	listViewItem3		listViewItem4	listViewItem4	listViewItem4		listViewItem5	listViewItem5	listViewItem5	
Header1	Header2	Header3																								
listViewItem1	listViewItem1	listViewItem1																								
listViewItem2	listViewItem2	listViewItem2																								
listViewItem3	listViewItem3	listViewItem3																								
listViewItem4	listViewItem4	listViewItem4																								
listViewItem5	listViewItem5	listViewItem5																								
ListViewWithAlternatingBackgr ound	No difference to style above	<table><tr><th>Header1</th><th>Header2</th><th>Header3</th><th></th></tr><tr><td>listViewItem1</td><td>listViewItem1</td><td>listViewItem1</td><td></td></tr><tr><td>listViewItem2</td><td>listViewItem2</td><td>listViewItem2</td><td></td></tr><tr><td>listViewItem3</td><td>listViewItem3</td><td>listViewItem3</td><td></td></tr><tr><td>listViewItem4</td><td>listViewItem4</td><td>listViewItem4</td><td></td></tr><tr><td>listViewItem5</td><td>listViewItem5</td><td>listViewItem5</td><td></td></tr></table>	Header1	Header2	Header3		listViewItem1	listViewItem1	listViewItem1		listViewItem2	listViewItem2	listViewItem2		listViewItem3	listViewItem3	listViewItem3		listViewItem4	listViewItem4	listViewItem4		listViewItem5	listViewItem5	listViewItem5	
Header1	Header2	Header3																								
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listViewItem3	listViewItem3	listViewItem3																								
listViewItem4	listViewItem4	listViewItem4																								
listViewItem5	listViewItem5	listViewItem5																								
ListViewItem: ListViewItemAlternatingBackgr oundWithSelection -> SelectionListView	ListViewItems with that style (listViewItem1/3) have a slightly different background   																									