

NAME

HTMLUtil

SYNOPSIS

use HTMLUtil;

use HTMLUtil qw(:all);

DESCRIPTION

HTMLUtil module provides the following functions:

InsertHTMLTags, SetupHTMLAlignmentBegin, SetupHTMLAlignmentEnd, SetupHTMLButtonRef, SetupHTMLDivBegin, SetupHTMLDivEnd, SetupHTMLEmptyLines, SetupHTMLHRef, SetupHTMLPageEnd, SetupHTMLPageHeader, SetupHTMLPageTitle, SetupHTMLStyleSheetTags, SetupHTMLTableColumnEnd, SetupHTMLTableColumnHeader, SetupHTMLTableEnd, SetupHTMLTableHeader, SetupHTMLTableRowDataValue, SetupHTMLTableRowEnd, SetupHTMLTableRowHeader, SetupHTMLTableRowHeaderValue, SetupJavaScriptCmds, SetupStrViewerAccelrysActiveX, SetupStrViewerChem3DActiveX, SetupStrViewerChemDrawActiveX, SetupStrViewerChemDrawPlugIn, SetupStrViewerChimePlugIn, SetupStrViewerJMEApplet, SetupStrViewerJSInitCmd, SetupStrViewerJmolApplet, SetupStrViewerMarvinViewApplet

FUNCTIONS

InsertHTMLTags

```
$NewTag = InsertHTMLTags($Tag, @TagsNameValue);
```

Inserts tag name and value pair from *TagsNameValue* into a existing *Tag* as *TagName* = "*TagValue*" and returns *NewTag* string.

SetupHTMLAlignmentBegin

```
$AlignmentTag = SetupHTMLAlignmentBegin([$Alignment]);
```

Returns an alignment begin tag string. Possible *Alignment* values: *left*, *center*, or *right*. Default: *left*.

SetupHTMLAlignmentEnd

```
$AlignmentTag = SetupHTMLAlignmentBegin([$Alignment]);
```

Returns an alignment end tag string.

SetupHTMLButtonRef

```
$ButtonTag = SetupHTMLButtonRef($ButtonLabel, $FileName);
```

Returns a button tag string for associating onClick button event of a button with label *ButtonLabel* to open a file *FileName*.

SetupHTMLDivBegin

```
$DivTag = SetupHTMLDivBegin($ID);
```

Returns a div begin tag string for div *ID*.

SetupHTMLDivEnd

```
$DivTag = SetupHTMLDivEnd();
```

Returns a div end tag string.

SetupHTMLTableEnd

```
$TableEndTag = SetupHTMLTableEnd();
```

Returns a table end tag string.

SetupHTMLEmptyLines

```
$EmptyLineTags = SetupHTMLEmptyLines([$LineCount]);
```

Returns an empty lines tag string for empty *LineCount*. Default line count: 1.

SetupHTMLPageHeader

```
$PageHeaderTag = SetupHTMLPageHeader($HeaderTitle, [$Stylesheet,  
$JavaScript]);
```

Returns a page header tag string using *HeaderTitle* and using optionally specified values for *Stylesheet* and *JavaScript*.

SetupHTMLHRef

```
$HRef = SetupHTMLHRef($Label, $URL, [$Title]);
```

Returns a HRef tag string for setting up a URL with *Label* and *URL* with optional *Title*.

SetupHTMLPageEnd

```
$PageEndTag = SetupHTMLPageEnd([$FooterMsg]);
```

Returns a page end tag string conating optional *FooterMsg*.

SetupHTMLPageTitle

```
$PageTitleTag = SetupHTMLPageTitle($Title, [$Alignment]);
```

Returns a page title tag string with optional alignment. Valid alignment value: *left*, *center*, *right* Default alignment: *center*.

SetupHTMLStyleSheetTags

```
$StyleSheetTags = SetupHTMLStyleSheetTags();
```

Returns a default style sheet tag string to be used for HTML files generated by MayaChemTools.

SetupHTMLTableHeader

```
$TableHeaderTags = SetupHTMLTableHeader([$BorderWidth,  
$CellPadding, $CellSpacing, $Width, $Height]);
```

Returns a table header tag string containing specified values for *BorderWidth*, *CellPadding*, *CellSpacing*, *Width*, and *Height*. Default values: *BorderWidth* = 1; *CellPadding* = 2; *CellSpacing* = 0; *Width* = NotUsed; *Height* = NotUsed.

<SetupHTMLTableEnd>

```
$TableEndTag = SetupHTMLTableEnd();
```

Returns a table end tag string.

SetupHTMLTableColumnHeader

```
$ColumnHeaderTag = SetupHTMLTableColumnHeader([$BgColor, $Width]);
```

Returns a table column header tag string containing specified values for *BgColor*, *Width*. Default values: *BgColor* = NotUsed; *Width* = NotUsed.

SetupHTMLTableColumnEnd

```
$ColumnEndTag = SetupHTMLTableColumnEnd();
```

Returns a table column end tag string.

SetupHTMLTableRowHeader

```
$RowHeaderTag = SetupHTMLTableRowHeader([$HAlignment, $BgColor,  
$VAlignment]);
```

Returns a table row header tag string containing specified values for *HAlignment*, *BgColor*, and *VAlignment*. Default values: *HAlignment* = center; *BgColor* = NotUsed; *VAlignment* = top.

SetupHTMLTableRowEnd

```
$RowEndTag = SetupHTMLTableRowEnd();
```

Returns a table row end tag string.

SetupHTMLTableRowHeaderValue

```
$HeaderValueTag = SetupHTMLTableRowHeaderValue([$Value]);
```

Returns a table header row tag string using specified *Value*. Default value: *EmptySpace*.

SetupHTMLTableRowDataValue

```
$RowValueTag = SetupHTMLTableRowDataValue([$Value, $BgColor,
                                           $FontColor, $FontBold]);
```

Returns a table row column value tag string using specified values for *Value*, *BgColor*, *FontColor*, and *FontBold*. Default values: *Value* = *EmptySpace*; *BgColor* = *NotUsed*; *FontColor* = *NotUsed*; *FontBold* = *NotUsed*.

SetupJavaScriptCmds

```
$JSTag = SetupJavaScriptCmds(@JSCmdList);
```

Returns a Java script tag string using java script commands specified in *JSCmdList*.

SetupStrViewerJSInitCmd

```
$JSTag = SetupStrViewerJSInitCmd($StrViewerType, $CodeBase);
```

Returns a Java script command tag string for initializing structure viewers with specified *CodeBase* location for viewers to be invoked as Java Applets. Supported values for *StrViewerType*: *Jmol*, *ChemDrawPlugIn*, *ChemDrawActiveX*, *Chem3DActiveX*.

SetupStrViewerJMEApplet

```
$JMEAppletTag = SetupStrViewerJMEApplet($MolString, $CodeBase,
                                         [{param => "value"}]);
```

Returns a JME tag string for displaying molecule using *MolString* along with valid optional applet parameters specified as name and value pairs. Default JME parameter values: *name* = *JME*; *id* = *JME*; *width* = 250; *height* = 170.

SetupStrViewerJmolApplet

```
$JmolAppletTag = SetupStrViewerJmolApplet($MolString, $CodeBase,
                                           [{param => "value"}]);
```

Returns a Jmol tag string for displaying molecule using *MolString* along with valid optional applet parameters specified as name and value pairs. Default Jmol parameter values: *name* = *Jmol*; *id* = *Jmol*; *width* = 250; *height* = 170; *progressbar* = *true*; *progresscolor* = 0000ff; *bgcolor* = 000000; *JmolScript* = *select **; *set frank* off; *wireframe* on; *spacefill* off.

SetupStrViewerMarvinViewApplet

```
$MarvinAppletTag = SetupStrViewerMarvinViewApplet($MolString,
                                                    $CodeBase, [{param => "value"}]);
```

Returns a MarvinView tag string for displaying molecule using *MolString* along with valid optional applet parameters specified as name and value pairs. Default MarvinView parameter values: *name* = *MView*; *id* = *MView*; *width* = 250; *height* = 170; *navmode* = *zoom*.

SetupStrViewerChimePlugIn

```
$ChimePlugInTag = SetupStrViewerChimePlugIn($MolFile,
                                              [{param => "value"}]);
```

Returns a MDL Chime tag string for displaying molecule using *MolFile* along with valid optional parameters specified as name and value pairs. Default Chime parameter values: *width* = 250; *height* = 170; *display2d* = *true*.

SetupStrViewerChem3DActiveX

```
$ChemDraw3DActiveXTags = SetupStrViewerChemDrawActiveX($MolFile,
```

```
[{param => "value"}]]);
```

Returns a CambridgeSoft Chem3D tag string for displaying molecule using *MolFile* along with valid optional parameters specified as name and value pairs. Default Chime parameter values: *width = 250; height = 170; displaytype = BallAndStick; rotationbars = false; moviecontroller = false*.

SetupStrViewerChemDrawActiveX

```
$ChemDrawActiveXTags = SetupStrViewerChem3DActiveX($MolFile,  
[ {param => "value"} ] );
```

Returns a CambridgeSoft ChemDraw ActiveX tag string for displaying molecule using *MolFile* along with valid optional parameters specified as name and value pairs. Default ChemDraw ActiveX parameter values: *width = 250; height = 170; ViewOnly = 1; ShrinkToFit = 1; ShowToolsWhenVisible = 1*.

SetupStrViewerChemDrawPlugIn

```
$ChemDrawPlugInTag = SetupStrViewerChemDrawPlugIn($MolFile,  
[ {param => "value"} ] );
```

Returns a CambridgeSoft ChemDraw PlugIn tag string for displaying molecule using *MolFile* along with valid optional parameters specified as name and value pairs. Default ChemDraw PlugIn parameter values: *width = 250; height = 170; ViewOnly = 1; ShrinkToFit = 1; ShowToolsWhenVisible = 1*.

SetupStrViewerAccelrysActiveX

```
$AccelrysActiveXTags = SetupStrViewerAccelrysActiveX($MolFile,  
[ {param => "value"} ] );
```

Returns a Accelrys ViewerActiveX tag string for displaying molecule using *MolFile* along with valid optional parameters specified as name and value pairs. Default ViewerActiveX parameter values: *width = 250; height = 170; Convert2Dto3D = 0; Mouse = 4*.

AUTHOR

Manish Sud <msud@san.rr.com>

COPYRIGHT

Copyright (C) 2020 Manish Sud. All rights reserved.

This file is part of MayaChemTools.

MayaChemTools is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 3 of the License, or (at your option) any later version.