

# TSC-Material-Theme

Antidoc v3.1.0, Daniel Coons

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# Chapter 1. Project description

No description found (add content in project description)

# Chapter 2. Libraries

This section describes the libraries contained in the project.

## 2.1. TSC Material Theme.lvlib

**Responsibility:** Implement the Google Material Theme coloring to LabVIEW

<https://m3.material.io/>

**Version:** 1.0.0.0

*Table 1. Nested libraries*

Name	Type
Material Theme.lvclass	LVClass
Material-Palette.lvclass	LVClass
Material-Scheme.lvclass	LVClass

### 2.1.1. Functions

This library has no functions set to non private scope.

### 2.1.2. Library Constant VIs

**NOTE** No Constant VIs Found

# Chapter 3. Classes

This section describes the classes contained in the project.

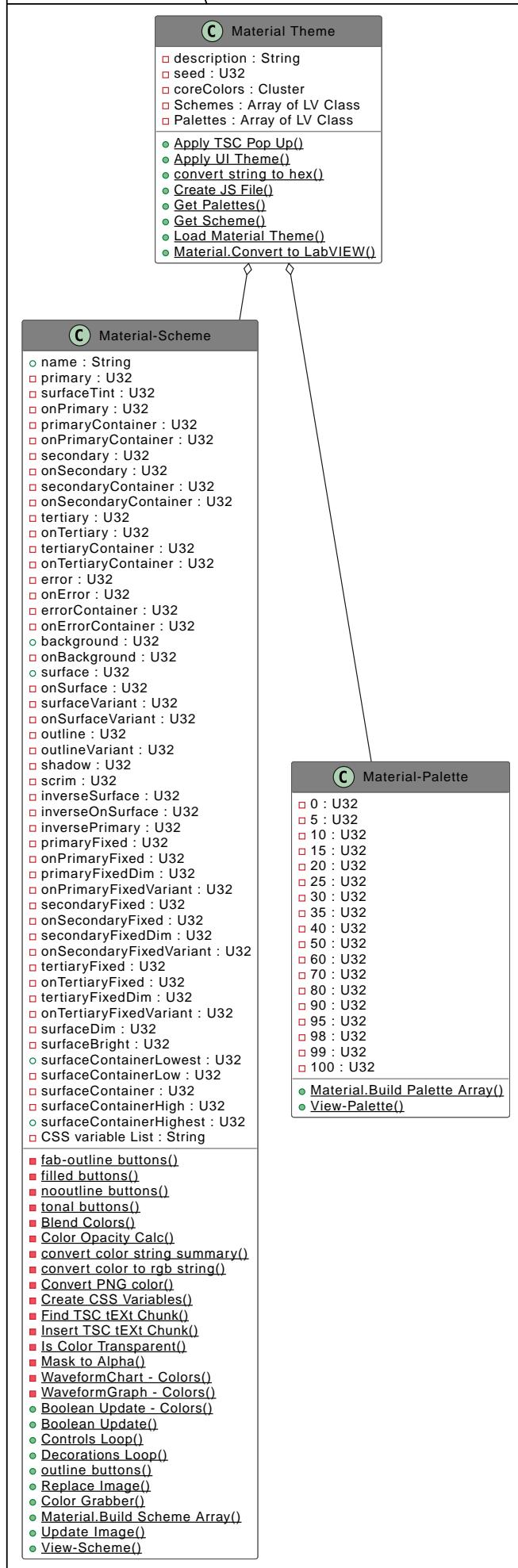
## 3.1. Classes overview

This project contains 3 classes and 0 interface.

*Table 2. Classes list*

Classes	Interfaces
Material.Theme.lvclass	
Material-Palette.lvclass	
Material-Scheme.lvclass	

### TSC Material Theme.lvlib

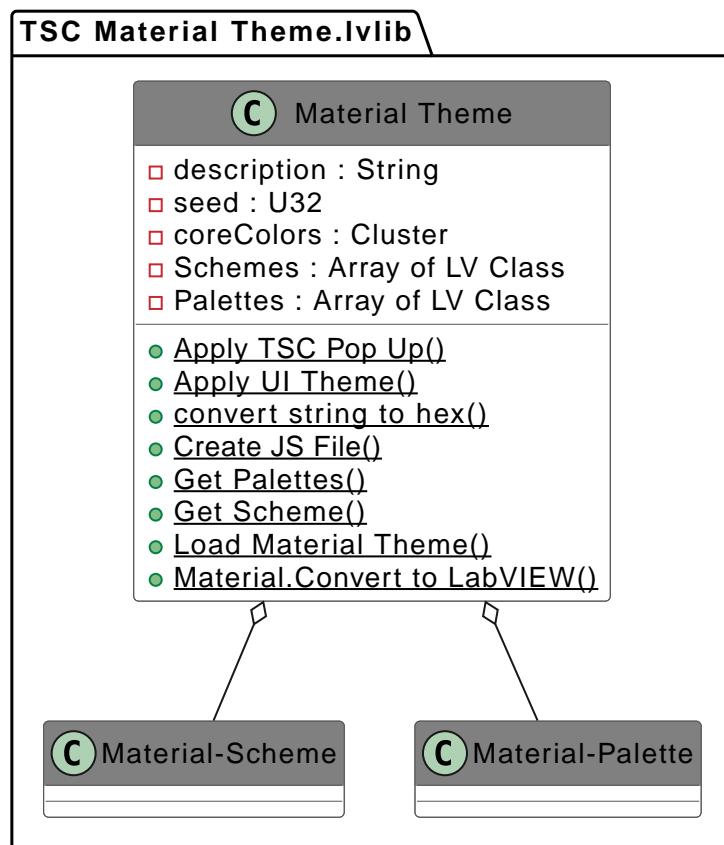


## 3.2. Material Theme.lvclass

**Responsibility:** No description found (add content in lvclass description)

**Version:** 1.0.0.3

### 3.2.1. Diagram



### 3.2.2. Methods

Table 3. Functions (non private scope only)

Name	Connector pane	Description	S.	R.	I.
Apply TSC Pop Up		<p>Apply a loaded theme to the TSC Pop Up Library</p> <p><b>Code Developed By:</b> Technology Service Corporation 1983 S Liberty Drive Bloomington, IN 47403 Phone: 812 558-7100 <a href="http://www.tsc.com/atcs">www.tsc.com/atcs</a></p> <p>Developer: Daniel Coons</p>			

Name	Connector pane	Description	S.	R.	I.
Apply UI Theme	<b>Material Theme</b> [11]  [3] Material Theme out Theme [10]  [0] error out error in (no error) [8]  save? [6]  close ref? [4]	Apply a loaded theme to a VI - will update the panel and the controls/indicators  <b>Code Developed By:</b> Technology Service Corporation 1983 S Liberty Drive Bloomington, IN 47403 Phone: 812 558-7100 <a href="http://www.tsc.com/atcs">www.tsc.com/atcs</a>  Developer: Daniel Coons			
convert string to hex	string [1]  [0] hex	convert an ARGB text string to the equivalent hex value  <b>Code Developed By:</b> Technology Service Corporation 1983 S Liberty Drive Bloomington, IN 47403 Phone: 812 558-7100 <a href="http://www.tsc.com/atcs">www.tsc.com/atcs</a>  Developer: Daniel Coons			
Create JS File	<b>Material Theme</b> [11]  [3] Material Theme out error in (no error) [8]  [0] error out	I have no recollection of why I made this or what it's purpose is. I am just going to leave it in case it is important.....  <b>Code Developed By:</b> Technology Service Corporation 1983 S Liberty Drive Bloomington, IN 47403 <a href="http://www.tsc.com/atcs">www.tsc.com/atcs</a>  Developer: Daniel Coons			
Get Palettes	<b>Material Theme</b> [11]  [3] Material Theme out error in (no error) [8]  [2] Material-Scheme  [0] error out	Get the defined scheme from the loaded theme  <b>Code Developed By:</b> Technology Service Corporation 1983 S Liberty Drive Bloomington, IN 47403 Phone: 812 558-7100 <a href="http://www.tsc.com/atcs">www.tsc.com/atcs</a>  Developer: Daniel Coons			

Name	Connector pane	Description	S.	R.	I.
Get Scheme		<p>Get the defined scheme from the loaded theme</p> <p><b>Code Developed By:</b> Technology Service Corporation 1983 S Liberty Drive Bloomington, IN 47403 Phone: 812 558-7100 <a href="http://www.tsc.com/atcs">www.tsc.com/atcs</a></p> <p>Developer: Daniel Coons</p>			
Load Material Theme		<p>load a material theme from disk</p> <p><b>Code Developed By:</b> Technology Service Corporation 1983 S Liberty Drive Bloomington, IN 47403 Phone: 812 558-7100 <a href="http://www.tsc.com/atcs">www.tsc.com/atcs</a></p> <p>Developer: Daniel Coons</p>			
Material.Convert to LabVIEW		<p>populate the material theme from the original Material JSON that was exported</p> <p><b>Code Developed By:</b> Technology Service Corporation 1983 S Liberty Drive Bloomington, IN 47403 Phone: 812 558-7100 <a href="http://www.tsc.com/atcs">www.tsc.com/atcs</a></p> <p>Developer: Daniel Coons</p>			

Scope:  → Protected |  → Community

Reentrancy:  → Preallocated reentrancy |  → Shared reentrancy

Inlining:  → Inlined

### 3.2.3. Class Constant VIs

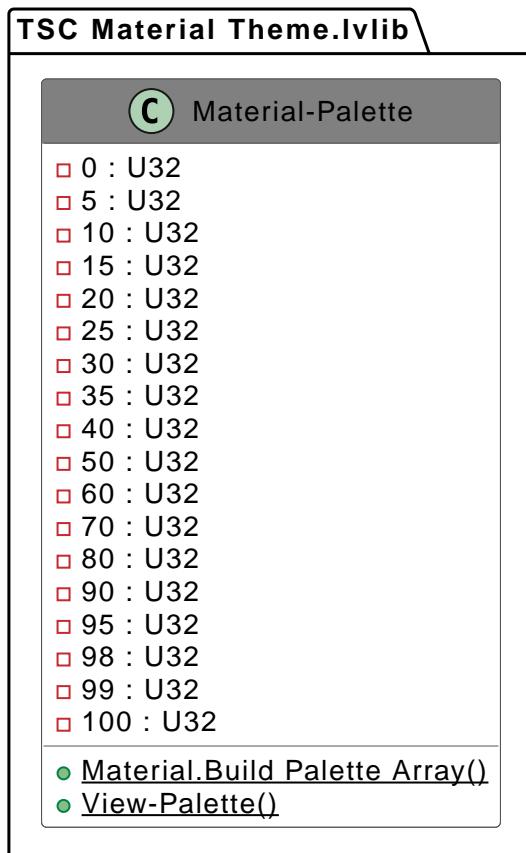
**NOTE** No Constant VIs Found

## 3.3. Material-Palette.lvclass

**Responsibility:** The Material-Palette class defines the gradients of colors

**Version:** 1.0.0.0

### 3.3.1. Diagram



### 3.3.2. Methods

Table 4. Functions (non private scope only)

Name	Connector pane	Description	S.	R.	I.
Material.Buil d Palette Array	palettes [11]	<p>Convert the json representation of the palette colors into array of class palettes.</p> <p><b>Code Developed By:</b> Technology Service Corporation 1983 S Liberty Drive Bloomington, IN 47403 <a href="http://www.tsc.com/atcs">www.tsc.com/atcs</a></p> <p>Developer: Daniel Coons</p>			
View-Palette	Array [11]	<p>read material palette data</p> <p><b>Code Developed By:</b> Technology Service Corporation 1983 S Liberty Drive Bloomington, IN 47403 <a href="http://www.tsc.com/atcs">www.tsc.com/atcs</a></p> <p>Developer: Daniel Coons</p>			

Scope: → Protected | → Community

Reentrancy: → Preallocated reentrancy | → Shared reentrancy

Inlining: → Inlined

### 3.3.3. Class Constant VIs

**NOTE** No Constant VIs Found

## 3.4. Material-Scheme.lvclass

**Responsibility:** The Material-Scheme class defines the coloring categories for a given theme

**Version:** 1.0.0.4

### 3.4.1. Diagram

## TSC Material Theme.lvlib

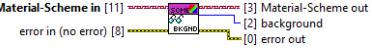
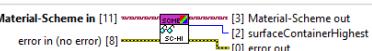
**C** Material-Scheme

- o name : String
- o primary : U32
- o surfaceTint : U32
- o onPrimary : U32
- o primaryContainer : U32
- o onPrimaryContainer : U32
- o secondary : U32
- o onSecondary : U32
- o secondaryContainer : U32
- o onSecondaryContainer : U32
- o tertiary : U32
- o onTertiary : U32
- o tertiaryContainer : U32
- o onTertiaryContainer : U32
- o error : U32
- o onError : U32
- o errorContainer : U32
- o onErrorContainer : U32
- o background : U32
- o onBackground : U32
- o surface : U32
- o onSurface : U32
- o surfaceVariant : U32
- o onSurfaceVariant : U32
- o outline : U32
- o outlineVariant : U32
- o shadow : U32
- o scrim : U32
- o inverseSurface : U32
- o inverseOnSurface : U32
- o inversePrimary : U32
- o primaryFixed : U32
- o onPrimaryFixed : U32
- o primaryFixedDim : U32
- o onPrimaryFixedVariant : U32
- o secondaryFixed : U32
- o onSecondaryFixed : U32
- o secondaryFixedDim : U32
- o onSecondaryFixedVariant : U32
- o tertiaryFixed : U32
- o onTertiaryFixed : U32
- o tertiaryFixedDim : U32
- o onTertiaryFixedVariant : U32
- o surfaceDim : U32
- o surfaceBright : U32
- o surfaceContainerLowest : U32
- o surfaceContainerLow : U32
- o surfaceContainer : U32
- o surfaceContainerHigh : U32
- o surfaceContainerHighest : U32
- o CSS variable List : String

■ [fab-outline buttons\(\)](#)  
■ [filled buttons\(\)](#)  
■ [nooutline buttons\(\)](#)  
■ [tonal buttons\(\)](#)  
■ [Blend Colors\(\)](#)  
■ [Color Opacity Calc\(\)](#)  
■ [convert color string summary\(\)](#)  
■ [convert color to rgb string\(\)](#)  
■ [Convert PNG color\(\)](#)  
■ [Create CSS Variables\(\)](#)  
■ [Find TSC tEXT Chunk\(\)](#)  
■ [Insert TSC tEXT Chunk\(\)](#)  
■ [Is Color Transparent\(\)](#)  
■ [Mask to Alpha\(\)](#)  
■ [WaveformChart - Colors\(\)](#)  
■ [WaveformGraph - Colors\(\)](#)  
■ [Boolean Update - Colors\(\)](#)  
■ [Boolean Update\(\)](#)  
■ [Controls Loop\(\)](#)  
■ [Decorations Loop\(\)](#)  
■ [outline buttons\(\)](#)  
■ [Replace Image\(\)](#)  
■ [Color Grabber\(\)](#)  
■ [Material.Build Scheme Array\(\)](#)  
■ [Update Image\(\)](#)  
■ [View-Scheme\(\)](#)

### 3.4.2. Methods

Table 5. Functions

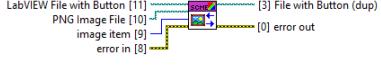
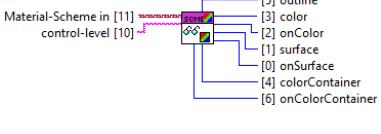
Name	Connector pane	Description	S.	R.	I.
Read background		No description found (add content in vi description)			
Read CSS Variables		No description found (add content in vi description)			
Read name		No description found (add content in vi description)			
Read surfaceContainerHighest		No description found (add content in vi description)			
Read surfaceContainerLowest		No description found (add content in vi description)			
Read surface		No description found (add content in vi description)			
fab-outline buttons		application of the floating action button (FAB) buttons coloring rules  <a href="https://m3.material.io/components/floating-action-button/specs">https://m3.material.io/components/floating-action-button/specs</a>  <b>Code Developed By:</b> Technology Service Corporation 1983 S Liberty Drive Bloomington, IN 47403 www.tsc.com/atcs  Developer: Daniel Coons			
filled buttons		application of the FILLED buttons coloring rules  <a href="https://m3.material.io/components/buttons/specs#7b9ba06e-d393-491b-830e-ae3fe0816d4b">https://m3.material.io/components/buttons/specs#7b9ba06e-d393-491b-830e-ae3fe0816d4b</a>  <b>Code Developed By:</b> Technology Service Corporation 1983 S Liberty Drive Bloomington, IN 47403 www.tsc.com/atcs  Developer: Daniel Coons			

Name	Connector pane	Description	S.	R.	I.
nooutline buttons		<p>application of the NO OUTLINE buttons coloring rules</p> <p><a href="https://m3.material.io/components/buttons/specs#9c12a1a1-9a74-499c-8139-5cff551afe4f">https://m3.material.io/components/buttons/specs#9c12a1a1-9a74-499c-8139-5cff551afe4f</a></p> <p><b>Code Developed By:</b> Technology Service Corporation 1983 S Liberty Drive Bloomington, IN 47403 www.tsc.com/atcs</p> <p>Developer: Daniel Coons</p>			
tonal buttons		<p>application of the TONAL buttons coloring rules</p> <p><a href="https://m3.material.io/components/buttons/specs#31a04913-d070-49c5-9c36-41d551f20096">https://m3.material.io/components/buttons/specs#31a04913-d070-49c5-9c36-41d551f20096</a></p> <p><b>Code Developed By:</b> Technology Service Corporation 1983 S Liberty Drive Bloomington, IN 47403 www.tsc.com/atcs</p> <p>Developer: Daniel Coons</p>			
Blend Colors		<p>blend the colors together with a blend ratio</p> <p><b>Code Developed By:</b> Technology Service Corporation 1983 S Liberty Drive Bloomington, IN 47403 www.tsc.com/atcs</p> <p>Developer: Daniel Coons</p>			
Color Opacity Calc		<p>apply an opacity percentage to a color</p> <p><b>Note:</b> opacity input expected to be decimal of the percentage</p> <p><b>Code Developed By:</b> Technology Service Corporation 1983 S Liberty Drive Bloomington, IN 47403 www.tsc.com/atcs</p> <p>Developer: Daniel Coons</p>			

Name	Connector pane	Description	S.	R.	I.
convert color string summary	primary [1] ————— [0] String	<p>Define the tip strip info for the Scheme → adds the hex and RGB info to the string</p> <p><b>Code Developed By:</b> Technology Service Corporation 1983 S Liberty Drive Bloomington, IN 47403 Phone: 812 558-7100 www.tsc.com/atcs</p> <p>Developer: Daniel Coons</p>	key	grid	more
convert color to rgb string	primary [1] ————— [0] String	<p>get the RGB string from the color box</p> <p><b>Code Developed By:</b> Technology Service Corporation 1983 S Liberty Drive Bloomington, IN 47403 Phone: 812 558-7100 www.tsc.com/atcs</p> <p>Developer: Daniel Coons</p>	key	grid	more
Convert PNG color	New Color [7] orig file [11] new file [10] error in [8]	<p>Change the colors of the png file using .net functions</p> <p><b>Note:</b> Assumes a single color PNG file - replace old primary with new primary</p> <p><b>Code Developed By:</b> Technology Service Corporation 1983 S Liberty Drive Bloomington, IN 47403 Phone: 812 558-7100 www.tsc.com/atcs</p> <p>Developer: Daniel Coons</p>	key		
Create CSS Variables	light [11] ————— [3] CSS	<p>for when new browser plugins get implemented, apply variables for CSS from the color scheme</p>	key		
Find TSC tEXT Chunk	file path (use dialog) [10] Save if not found? [6]	<p>Look to see if the TSC author tag has been embedded into the PNG</p> <p><b>Code Developed By:</b> Technology Service Corporation 1983 S Liberty Drive Bloomington, IN 47403 www.tsc.com/atcs</p> <p>Developer: Daniel Coons</p>	key		

Name	Connector pane	Description	S.	R.	I.
Insert TSC tExt Chunk		<p>embed the png author text chunk into the image</p> <p><b>Code Developed By:</b> Technology Service Corporation 1983 S Liberty Drive Bloomington, IN 47403 www.tsc.com/atcs</p> <p>Developer: Daniel Coons</p>			
Is Color Transparent		<p>check if original was transparent, if so, don't change it, if it isn't though, pass out the new color</p> <p><b>Code Developed By:</b> Technology Service Corporation 1983 S Liberty Drive Bloomington, IN 47403 www.tsc.com/atcs</p> <p>Developer: Daniel Coons</p>			
Mask to Alpha		<p>convert mask data to alpha layer</p> <p><b>Code Developed By:</b> Technology Service Corporation 1983 S Liberty Drive Bloomington, IN 47403 www.tsc.com/atcs</p> <p>Developer: Daniel Coons</p>			
PNG Write with Alpha		<p>Write png file with alpha layer</p> <p><b>Code Developed By:</b> Technology Service Corporation 1983 S Liberty Drive Bloomington, IN 47403 www.tsc.com/atcs</p> <p>Developer: Daniel Coons</p>			
WaveformChart - Colors		No description found (add content in vi description)			
WaveformGraph - Colors		No description found (add content in vi description)			
Boolean Update - Colors		<p>update boolean control colors</p> <p><b>Code Developed By:</b> Technology Service Corporation 1983 S Liberty Drive Bloomington, IN 47403 www.tsc.com/atcs</p> <p>Developer: Daniel Coons</p>			

Name	Connector pane	Description	S.	R.	I.
Boolean Update	Material-Scheme.lvclass [11] Control in [9]  UPDATE [TF] [0] error out error in (no error) [8]	<p>Set the boolean scheme - will be the most involved of the control types</p> <p><b>Code Developed By:</b> Technology Service Corporation 1983 S Liberty Drive Bloomington, IN 47403 <a href="http://www.tsc.com/atcs">www.tsc.com/atcs</a></p> <p>Developer: Daniel Coons</p>			
Controls Loop	Material-Scheme in [11] Controls[] [10]  THEME [0] error out error in [8]	<p>loop through all the controls on a panel in order to change the appearance</p> <p>-this is a re-entrant VI because it is called recursively when there is a tab control</p> <p><b>Code Developed By:</b> Technology Service Corporation 1983 S Liberty Drive Bloomington, IN 47403 <a href="http://www.tsc.com/atcs">www.tsc.com/atcs</a></p> <p>Developer: Daniel Coons</p>			
Decorations Loop	Material-Scheme in [11] Decos[] [9]  [0] error out error in (no error) [8]	<p>Change the coloring on decorations → If it is a text decoration, change the background color only when it wasn't transparent before AND change the text color; otherwise, normal decoration just change background/foreground</p> <p><b>Code Developed By:</b> Technology Service Corporation 1983 S Liberty Drive Bloomington, IN 47403 <a href="http://www.tsc.com/atcs">www.tsc.com/atcs</a></p> <p>Developer: Daniel Coons</p>			

Name	Connector pane	Description	S.	R.	I.
outline buttons		<p>application of the OUTLINE buttons coloring rules</p> <p>- → this VI is <i>public</i> because it is used in the Button Editor UI</p> <p><a href="https://m3.material.io/components/buttons/specs#6757c97e-0ae6-4802-a2d5-9e3b134a7231">https://m3.material.io/components/buttons/specs#6757c97e-0ae6-4802-a2d5-9e3b134a7231</a></p> <p><b>Code Developed By:</b> Technology Service Corporation 1983 S Liberty Drive Bloomington, IN 47403 www.tsc.com/atcs</p> <p>Developer: Daniel Coons</p>			
Replace Image		<p>This example VI was obtained from this post:</p> <p><a href="https://forums.ni.com/t5/LabVIEW-APIs-Discussions/Set-TRUE-FALSE-Image-of-a-boolean-control-automatically-using/m-p/3419083/highlight/true#M868">https://forums.ni.com/t5/LabVIEW-APIs-Discussions/Set-TRUE-FALSE-Image-of-a-boolean-control-automatically-using/m-p/3419083/highlight/true#M868</a></p> <p><b>WARNING</b> This VI uses a dll call to the resource file for a LabVIEW VI/CTL - it is searching the binary data for the PNG images that the VI or CTL contains</p> <p><b>Code Developed By:</b> Technology Service Corporation 1983 S Liberty Drive Bloomington, IN 47403 Phone: 812 558-7100 www.tsc.com/atcs</p> <p>Developer: Daniel Coons</p>			
Color Grabber		<p>get the colorset for the application and the color-level</p> <p><b>Code Developed By:</b> Technology Service Corporation 1983 S Liberty Drive Bloomington, IN 47403 www.tsc.com/atcs</p> <p>Developer: Daniel Coons</p>			

Name	Connector pane	Description	S.	R.	I.
Material.Build Scheme Array	schemes [11]  [2] scheme	<p>build the array of scheme objects from the original data</p> <p><b>Code Developed By:</b> Technology Service Corporation 1983 S Liberty Drive Bloomington, IN 47403 <a href="http://www.tsc.com/atcs">www.tsc.com/atcs</a></p> <p>Developer: Daniel Coons</p>			
Update Image	Material-Scheme.lvclass [11]  [3] Material-Scheme.lvclass out New Control [10] New Color [9] error in [8] Replace Image [6]	<p>Update the image of the buttons</p> <p><b>Code Developed By:</b> Technology Service Corporation 1983 S Liberty Drive Bloomington, IN 47403 <a href="http://www.tsc.com/atcs">www.tsc.com/atcs</a></p> <p>Developer: Daniel Coons</p>			
View-Scheme	Material-Scheme.lvclass [11]  SCHEME	<p>scheme view UI set up like the material theme display</p> <p><b>Code Developed By:</b> Technology Service Corporation 1983 S Liberty Drive Bloomington, IN 47403 <a href="http://www.tsc.com/atcs">www.tsc.com/atcs</a></p> <p>Developer: Daniel Coons</p>			

Scope:  → Protected |  → Community |  → Private

Reentrancy:  → Preallocated reentrancy |  → Shared reentrancy

Inlining:  → Inlined

### 3.4.3. Class Constant VIs

**NOTE** No Constant VIs Found

# Chapter 4. Legal Information

## 4.1. Document creation

This document has been generated using the following tools.

### 4.1.1. Antidoc

Project website: [Antidoc](#)

Maintainer website: [Wovalab](#)

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### 4.1.2. Asciidoc for LabVIEW™

Project website: [Asciidoc toolkit](#)

Maintainer website: [Wovalab](#)

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#### **4.1.3. *classy* Diagram Viewer**

Project website: [classy Diagram Viewer](#)

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## 4.2. Product used in the project

Antidoc hasn't been able to detect third party products in the project. This is the author's responsibility to list any of the missing product used.