



## xCELLCOLOR USER'S GUIDE

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## 1. INTRODUCTION

This document describes how to install and use xCELLcolor software for use with Microsoft® Office Excel® 2007, Excel® 2010, Excel® 2013, and Excel® 2016 32-bit and 64-bit versions.

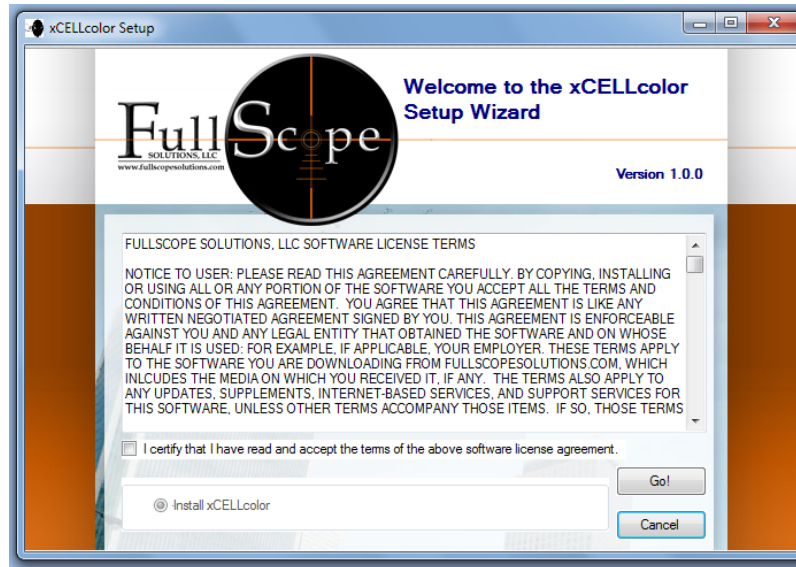
xCELLcolor is an Add-In that allows users to sum and count selected data stored in Microsoft® Office Excel® workbooks by cell background and/or font color. xCELLcolor can also perform sum and count by background color and/or font color on conditionally formatted cells. In addition, functions are included for counting unique items. Users may find these functions beneficial if their definition of unique differs from Microsoft's.

This software has been successfully tested on the Microsoft® Windows® XP SP3, Windows® 7, Windows® 8, and Windows® 10 (32-bit and 64-bit versions) operating systems.

## 2. INSTALLATION

- a) Download the xCELLcolor Setup program from the FullScope Solutions website (<http://www.fullscopesolutions.com/software/>) or from one of the approved distributors (e.g. CNET®, Softpedia®, etc.)
- b) Close all instances of Microsoft® Office Excel® and uninstall any previous versions of xCELLcolor.
- c) Unzip and Run 'xcSetup.exe'. *Note that if User Account Control is enabled on your computer (default setting on Microsoft® Windows Vista, Windows 7, Windows 8, and Windows 10), you will be prompted to allow the Setup program to execute, and may need to enter an administrator level password to complete installation of the software.*
- d) Check the box to certify that you have read and agree to the Software License Terms and click the "Go" button to complete installation (*Figure 2-1*). If Setup does not encounter any errors, you will be presented with a message box indicating that xCELLcolor has been successfully installed. *Note that Microsoft® Windows 7, 8, and 10 may question whether the program completed installation successfully; you should select that it has completed successfully unless you were advised of an error by the Setup program.*
- e) Should you encounter issues during setup, you will be presented with an error message and code that can assist our support team with isolating your problem. Additionally, a file named 'INSTALL\_LOG.txt' will be generated and, depending on your computer configuration, can be located in the 'c:\programdata\FSS' folder on Windows 7, Windows 8, and Windows 10 systems or the 'c:\Documents and Settings\All Users\Application

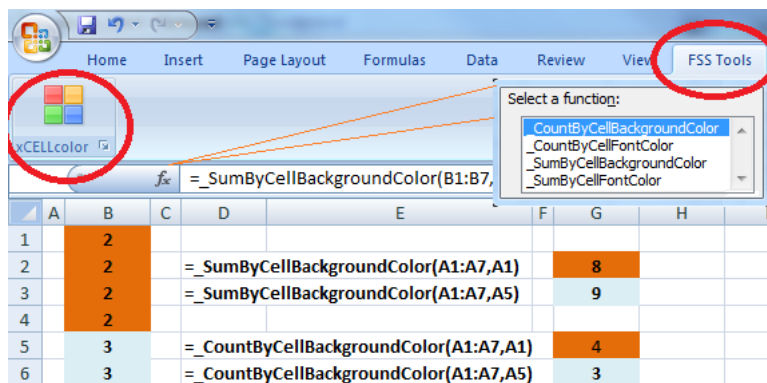
Data\FSS' folder on Windows XP systems. Please email this file along with your specific error message and code when requesting support.



*Figure 2-1 – xCELLcolor Setup*

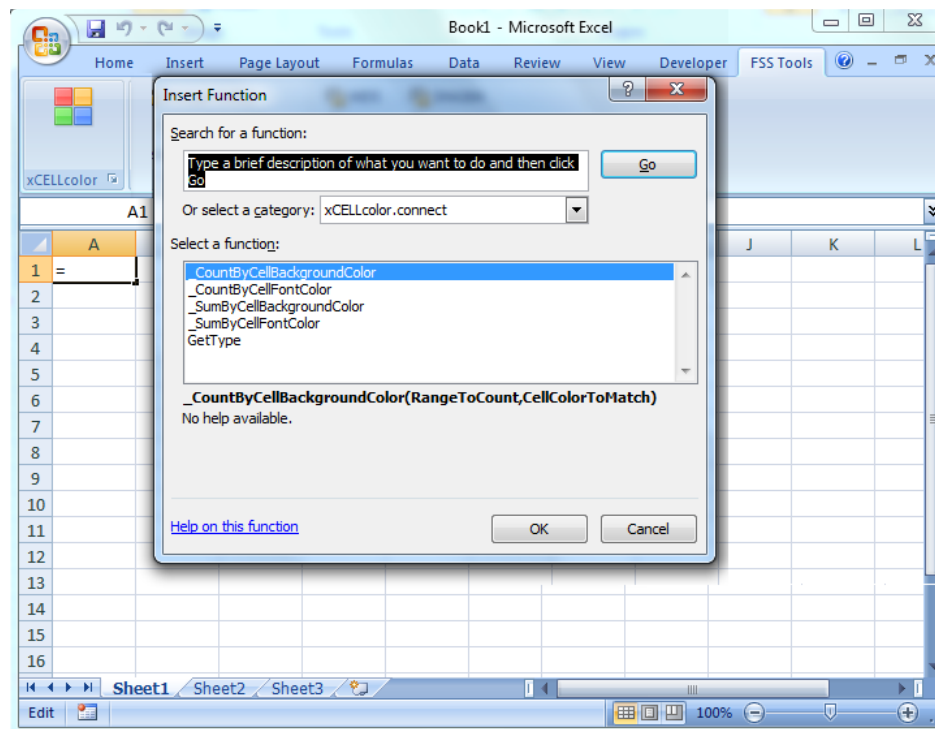
### 3. USAGE

After successful installation and upon opening Microsoft® Office Excel®, you will have a new Tab on the Ribbon entitled 'FSS Tools'. You will also be instructed to restart Excel® after initial installation (a one-time restart of Excel® is required on a per user basis to register the user functions). *Figure 3-1* depicts the Tab and user interface.



**Figure 3-1 – xCELLcolor Tab & UI**

You will have a new function category, *xCELLcolor.connect*, in your Insert Function dialog. This new category contains functions that allow you to perform the sum and/or count by color operations on cell data and function like other formulas in Excel® (e.g. entering the function =\_SumByCellBackgroundColor(A1:A9, B1) will sum the data contained in range A1:A9 only if the background color of the cells matches that found in cell B1). *Figure 3-2* shows the Insert Function Dialog with the new functions.

**Figure 3-2 – Insert Function Dialog**

### 3.1 Function Descriptions

#### 3.1.1 Traditionally Formatted Cell Functions

- **\_CountByCellBackgroundColor**

*Description:* Function will count all cells in a selected range that match a specific background/fill color.

The function requires the following inputs:

- RangeToCount: A range of cells with one or more background/fill colors
- CellColorToMatch: A single cell with a background/fill color

- **\_CountByCellFontColor**

*Description:* Function will count all cells in a selected range that match a specific font color.

The function requires the following inputs:

- RangeToCount: A range of cells with one or more font colors
- FontColorToMatch: A single cell with a font color

- **\_SumByCellBackgroundColor**

*Description:* Function will sum all cells in a selected range that match a specific background/fill color.

The function requires the following inputs:

- RangeToSum: A range of cells with one or more background/fill colors
- CellColorToMatch: A single cell with a background/fill color

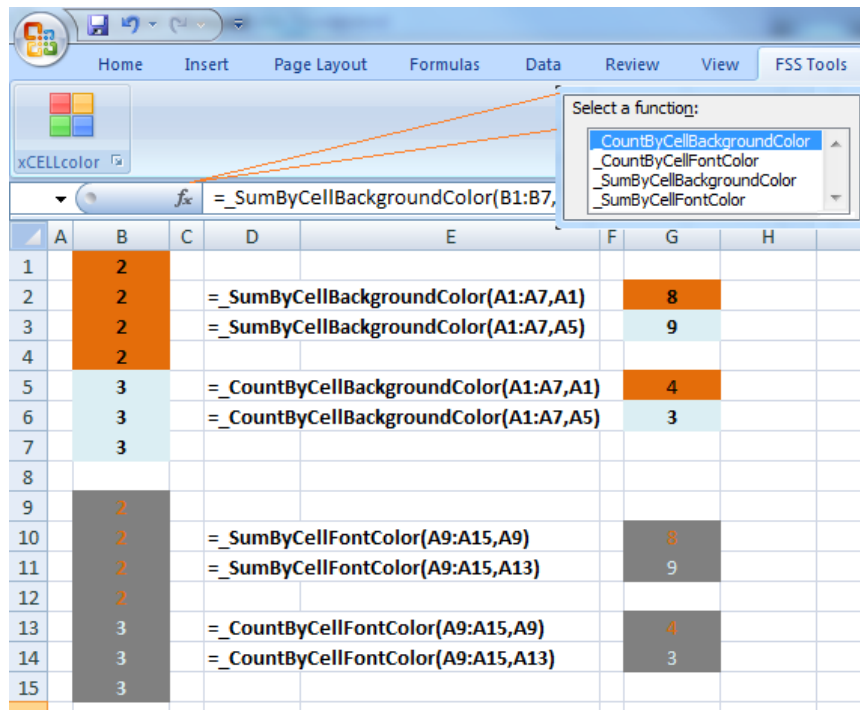
- **\_SumByCellFontColor**

*Description:* Function will sum all cells in a selected range that match a specific font color.

The function requires the following inputs:

- RangeToSum: A range of cells with one or more font colors
- FontColorToMatch: A single cell with a font color

*Figure 3-3* shows an example of xCELLcolor utilized in connection with traditionally formatted cells.



**Figure 3-3 – xCELLcolor Example**

### 3.1.2 Conditionally Formatted Cell Functions

Conditionally formatted cells are those that change the background/fill color and/or font color if the data contained within a cell matches a specific condition (e.g. greater than 3, less than 10, etc.). Conditionally formatted cells do not set the same color properties as traditional cells and as such require some additional steps and special formulas to sum and count by background and/or font color.

xCELLcolor supports the standard conditional formatting offered by Excel. Specifically, the supported conditional functions are: Between, Not Between, Equal To, Not Equal To, Greater Than, Less Than, Greater Than or Equal To, and Less Than or Equal To.

The recommended use of the conditionally formatted cell functions is the following:

1. Apply all conditional formatting rules to the data you wish to analyze.
2. Ensure that some subset of the data satisfies all conditions so that all possible background/fill colors and font colors are displayed.

3. Use the `_GetConditionalCellBackgroundColor` and `_GetConditionalFontColor` functions to determine the Red, Green, Blue (RGB) values and color index of each possible background/fill color and font color.
4. Build a 'key' of colored cells and/or fonts using the RGB values obtained in Step 3. When you fill a cell or change a font color in your key, select the 'More Colors' option within Excel and choose 'Custom' to enter the RGB value.

*Note: The resultant fill or font color may not exactly match the color displayed in your conditionally formatted data upon visual inspection. It will; however, support xCELLcolor's functions properly. As a failsafe, we have provided the Optional Color Index input that can be used in the formulas in lieu of pointing to a specific cell.*

5. With your key built, you can now utilize the Count and Sum functions to analyze your conditionally formatted data.

Following are the exposed functions that pertain to conditional formatting:

- `_CountByConditionalCellBackgroundColor`

*Description:* Function will count all selected cells in a conditionally formatted range that match a specific background/fill color.

The function requires the following inputs:

- ConditionalRangeToCount: A range of conditionally formatted cells with one or more background/fill colors
- CellColorToMatch: A single cell with a background/fill color (e.g. your key)

The function accepts the following optional inputs:

- Optional\_CellColorIndex: A numerical value representing the color to match. Including this value will override the CellColorToMatch input.

- `_CountByConditionalFontColor`

*Description:* Function will count all selected cells in a conditionally formatted range that match a specific font color.

The function requires the following inputs:

- ConditionalRangeToCount: A range of conditionally formatted cells with one or more font colors
- FontColorToMatch: A single cell with a font color (e.g. your key)

The function accepts the following optional inputs:

- Optional FontColorIndex: A numerical value representing the color to match. Including this value will override the FontColorToMatch input.
- \_GetConditionalCellBackgroundColor  
*Description*: Function will determine the RGB value and Color Index of the background/fill color utilized in your conditionally formatted range.

The function requires the following inputs:

- ConditionalCell: A cell within your conditionally formatted range that has a background/fill color.
- \_GetConditionalFontColor  
*Description*: Function will determine the RGB value and Color Index of the font color utilized in your conditionally formatted range.

The function requires the following inputs:

- ConditionalCell: A cell within your conditionally formatted range that has a font color.
- \_SumByConditionalCellBackgroundColor  
*Description*: Function will sum all selected cells in a conditionally formatted range that match a specific background/fill color.

The function requires the following inputs:

- ConditionalRangeToSum: A range of conditionally formatted cells with one or more background/fill colors
- CellColorToMatch: A single cell with a background/fill color (e.g. your key)

The function accepts the following optional inputs:

- Optional CellColorIndex: A numerical value representing the color to match. Including this value will override the CellColorToMatch input.
- \_SumByConditionalFontColor  
*Description*: Function will sum all selected cells in a conditionally formatted range that match a specific background/fill color.

The function requires the following inputs:

- ConditionalRangeToSum: A range of conditionally formatted cells with one or more font colors
- FontColorToMatch: A single cell with a font color (e.g. your key)



The function accepts the following optional inputs:

- Optional FontColorIndex: A numerical value representing the color to match. Including this value will override the FontColorToMatch input.

### 3.1.3 Conditionally Formatted Cell Functions

Microsoft® Office Excel® does not provide a simple formula to count unique or duplicate values within a range. Users are therefore left to use filters, or a combination of formulas to achieve the same result. xCELLcolor fills the void by providing three useful functions for analyzing a range of data with unique and/or duplicate values.

For example, consider a range that has the following values: Tom, Tom, Bill, Harry, Harry, Harry, Paul.

xCELLcolor's *\_CountDuplicates* function will return a value of 5; representing the count of Tom, Tom, Harry, Harry, and Harry; representing the total number of values in the range that are duplicates.

xCELLcolor's *\_CountUnique* function will return a value of 3; representing the count of Tom, Bill, and Harry; representing the three unique values in the range.

xCELLcolor's *\_CountUniqueDuplicated* function will return a value of 2; representing the count of Tom and Harry; the two unique values that have been duplicated in the range.

- *\_CountDuplicates*

*Description*: Function will count all duplicate values in a selected range.

The function requires the following inputs:

- RangeToCheck: A range of values that may contain duplicate values
- IgnoreBlanks: TRUE or FALSE, formula should ignore blank cells in the selected range.

- *\_CountUnique*

*Description*: Function will count all unique values in a selected range.

The function requires the following inputs:

- RangeToCheck: A range of values that may contain unique values
- IgnoreBlanks: TRUE or FALSE, formula should ignore blank cells in the selected range.

- **\_CountUniqueDuplicated**

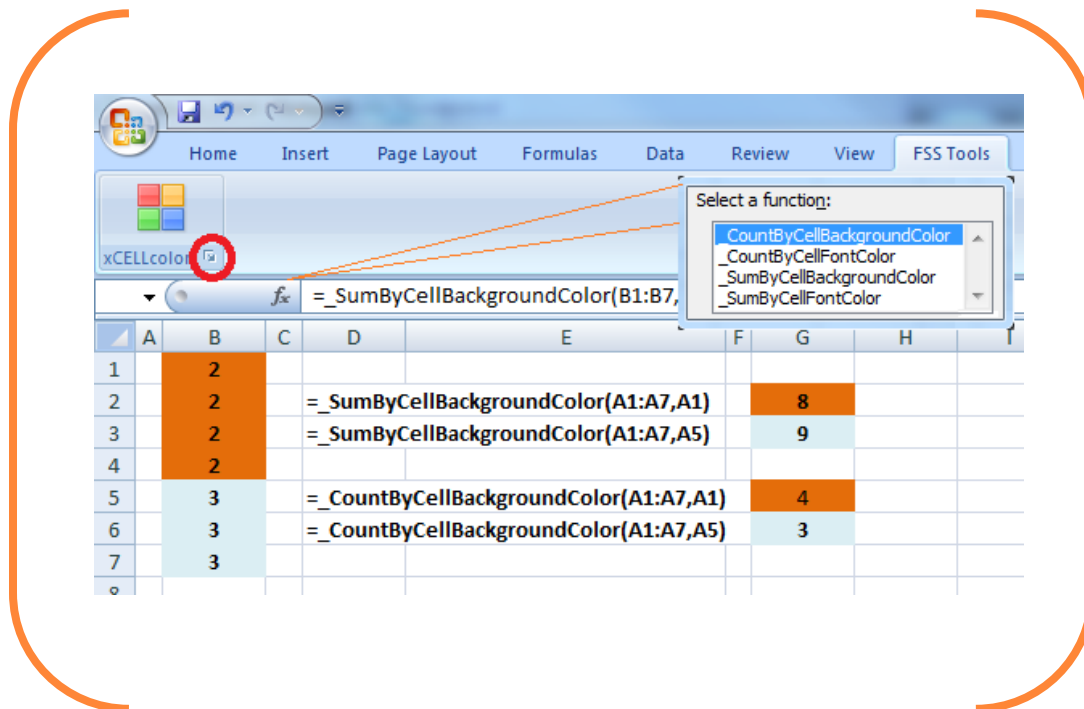
*Description:* Function will provide a count of unique values that are duplicated in a selected range.

The function requires the following inputs:

- RangeToCheck: A range of values that may contain unique duplicated values
- IgnoreBlanks: TRUE or FALSE, formula should ignore blank cells in the selected range.

#### 4. LICENSE PURCHASE/REGISTRATION & ACTIVATION

xCELLcolor offers a limited trial period whereby you can evaluate the product's performance over 15 sessions of Excel®. After the trial period has expired, you must purchase a license in order to continue to use the product.



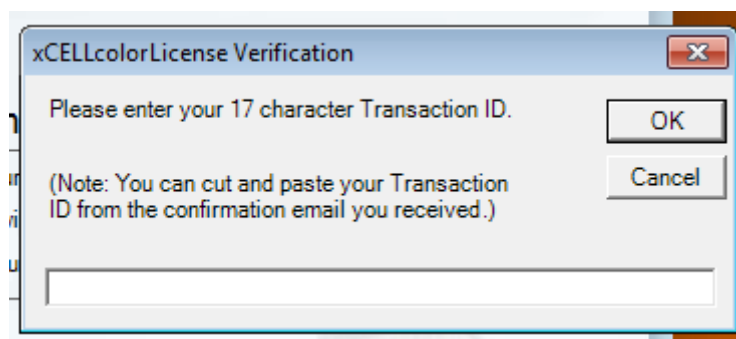
**Figure 4-1 – xCELLcolor Registration**

Follow the “Buy Now” link on our website (<http://www.FullScopeSolutions.com/products.html>), or click the “Buy Now” button on the “About xCELLcolor” dialog, *Figure 4-2*, to be taken directly to PayPal and purchase your license. Upon confirmation of payment from PayPal, we will email you a license file, typically within 30 minutes, and your Transaction ID. Use the “Save As” feature of your email program to save the license file to your computer.



**Figure 4-2 – About xCELLcolor**

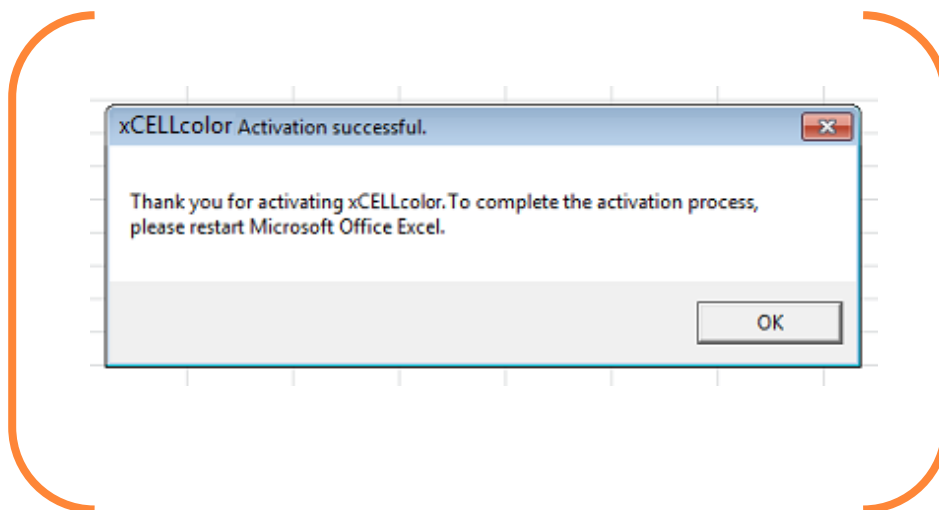
Open Microsoft® Office Excel® and with the “About xCELLcolor” dialog displayed, click the “Activate” button found in “Step 3” (Figure 4-2). A file browser will open up titled "Select License file." and you should browse to and select your license file. Once you have selected the file, click "Open". You will be asked to enter your 17 character Transaction ID, Figure 4-3, as the final step of the activation process.



**Figure 4-3 – xCELLcolor Activation**

Upon entering a valid Transaction ID a message box will display indicating successful activation of your software and you will be instructed to restart Excel®, Figure 4-4. If an

active Internet connection is found, xCELLcolor will register your installation with our company server. The only data that is provided to our server is an encrypted unique identifier and your encrypted Transaction ID



*Figure 4-4 – xCELLcolor Activation Success*



*Figure 4-5 – xCELLcolor Activated*

#### 4.1 - Automated Activation Instructions

Enterprise license holders or anyone wishing to automate the installation and activation process may do the following:

1. Place your valid license file in the same folder as the xCELLcolor Setup program (xcSetup.exe) and name the license file, "license.xml".
2. Use Notepad, or another text editor, to create a text file named "TID.txt" and enter your 17 character Transaction ID into this file. Save this file in the same folder as the Setup program (xcSetup.exe) and the license file (license.xml),
3. Run the Setup program and your software will install and automatically activate.

#### 5. REPAIR / UNINSTALL

If errors are encountered during the use of xCELLcolor you may attempt a repair by launching the Setup program and selecting "Repair/Re-install xCELLcolor".

Should you desire to uninstall the product, you may do so by launching the Setup program and selecting "Uninstall xCELLcolor".

A copy of the Setup program will be located in 'c:\programdata\FSS' on Windows Vista, 7, 8, and 10 systems and 'c:\Documents and Settings\All Users\Application Data\FSS' folder on Windows XP systems.

You may also use the Microsoft® Windows Control Panel to uninstall xCELLcolor.

After the uninstall process is completed, you may need to manually delete some files.

#### 6. SUPPORT

Please contact <[info@FullScopeSolutions.com](mailto:info@FullScopeSolutions.com)> with any support needs.