LaTeXcel Package

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Introduction

This package provides an environment which mimics the appearance of a spreadsheet. It is modeled after the Google Sheets interface, but is also very similar to that of Excel. It is best seen with an example (alignment in the source code is purely for readability):

```
\begin{latexcel}[
       selected cell = \{1,4\},
       header cell style = \color{white}\textbf,
       header row color = SheetsCornflowerBlue,
       odd row color = SheetsLightCornflowerBlue3,
      Name
                  & Age & City
                                     //
   % |-----|
8
      John Smith
                   8 28 8 New York \\
      Alice Johnson & 35 & Los Angeles \\
10
      Bob Anderson & 22 & Chicago
11
      Eva Williams & 30 & San Francisco \\
       David Brown & 25 & Miami
    \end{latexcel}
```

B5	▼			
А	В	С	D	Е
1				
2	Name	Age	City	1
3	John Smith	28	New York	
4	Alice Johnson	35	Los Angeles	
5	Bob Anderson	22	Chicago	
6	Eva Williams	30	San Francisco	
7	David Brown	25	Miami	1
8				

The package is loaded as normal with \usepackage{latexcel}. It relies on the following packages:

- tikz for all graphical elements
- xcolor for colours

- · environ for the environment
- LTFX3 syntax, for all options and content processing

Note that, since the graphics are rendered by ETEX, the font used will significantly impact the appearance of the tables. Of particular note, the "fx" in the formula bar may appear strange in certain fonts. In this document, the Fira Sans and Fira Mono fonts are used, which are freely available on CTAN. The Helvetica font is also a very close match to the Arial font used by default in Google Sheets.

Environments, Macros and Colours

The package provides a single environment, latexcel, which takes one optional argument; a comma-separated list of key-value pairs. These are detailed in the next section. The contents of the environment should follow the same syntax as a tabular environment: lines delimited by a double backslash (\\\), and columns delimited by an ampersand (a). The final line should not be terminated with a double backslash.

The package also provides a single macro, \formula, which takes one argument; the formula to be parsed and coloured. This is detailed in the section below.

In addition to the latexcel environment, the package provides a number of colours which mimic those used in Google Sheets. These are shown in Table 1.

Name	Example	Alias
FormulaOrange	A1:B3	Formula1
FormulaPurple	A1:B3	Formula2
FormulaCyan	A1:B3	Formula3
FormulaMaroon	A1:B3	Formula4
FormulaBlue	A1:B3	Formula5
FormulaYellow	A1:B3	Formula6
FormulaGreen	A1:B3	Formula7
FormulaBrown	A1:B3	Formula8
FormulaNumber	12, TRUE	-
FormulaString	"str"	-
FormulaText	SUM	_

Table 1: The colours provided by the latexcel package. These are in the same order in which Google sheets will apply them to cell ranges in formulae.

Additionally, all colours available in the Google Sheets colour palette are provided, following the same naming convention. For example, the colour , which is known in Google Sheets as "cornflower blue", is available as SheetsCornflowerBlue in ETEX. Its variant, known in Google Sheets as "light cornflower blue 2", is available in ETEX as SheetsLightCornflowerBlue2. The full list of colours can be found in the appendix.

The \formula Macro

The \formula macro is provided to format formulae in the same way as Google Sheets. It takes one argument, which is the formula to be formatted. It applies colours to cell addresses, strings, and booleans in the same way as Google Sheets. The example below shows the output of the \formula macro for a number of different formulae. Unfortunately, due to the lack of lookahead and lookbehind capabilities of the regex parsing in \text{MEX3}, it is not possible to automatically colour numbers, so this will be visibly different to Google Sheets.

```
\notomono % Enable the noto mono font, a very close match to the font used in Google Sheets formulae
\formula{= LINEST($I$2:$I$12, J2:J12, TRUE, FALSE)} \\
\formula{= "$R^2 = " & L2 & "$"} \\
\formula{= IF(COUNTBLANK(A2) = 0, A2, B2)} \\
\formula{= ('Main Sheet'!A1 + Sheet2!A1) / (Sheet2!A1 - 'Main Sheet'!A1)}
```

```
= LINEST($I$2:$I$12, J2:J12, TRUE, FALSE)
= "$R^2 = " & L2 & "$"
= IF(COUNTBLANK(A2) = 0, A2, B2)
= ('Main Sheet'!A1 + Sheet2!A1) / (Sheet2!A1 - 'Main Sheet'!A1)
```

Cell addresses are coloured in order, repeating colours for repeated cell addresses (as in the third example for A2, and fourth for both cell addresses). Booleans are coloured with the colour FormulaNumber, which is the same colour as numbers in Google Sheets. Strings are coloured with the colour FormulaString, which is the same colour as strings in Google Sheets. Note that the formula passed to the \formula macro is not expanded in the same way as normal \text{MEX}, and so dollar signs, ampersands, and most other special characters do not need to be escaped. However, including braces ({, }) may cause unexpected behaviour, and will very likely throw an (potentially cryptic) error. This also means that \text{MEX} macros cannot be used in formulae.

As with everything else, whilst this is modelled on Google Sheets, it is also extremely similar to the appearance of Excel formulae, with the only major difference being the colours and their order. If it is important to emulate Excel specifically, simply redefine the colours in table 1 to match those used in Excel.

Options

The latexcel environment takes a number of options, which are described below. These options are passed as a set of comma-separated key-value pairs to the latexcel environment. The option is given on the left, below which is the default (the value used if the option is not specified), and the initial value (if any) is given in brackets; this is the value used if the option is specified but no value is given.

Note: all options which use colours use the US spelling "color" rather than the UK spelling "colour" which is used in the *text* of this documentation.

row height

Accepts any float, which is interpreted as a height in centimetres. This sets the height of all cells in the table, including headers. It is not possible to set the height of individual rows.

padding rows

Accepts any non-negative integer. This sets the number of additional rows rendered before and after the table. Be sure that this and the starting row option are set appropriately to avoid unexpected row numbering – they are **not** checked for consistency.

padding row height 0.65 Accepts any float, which is interpreted as a height in centimetres. This sets the height of the padding rows.

starting row

Accepts any positive integer. This sets the number of the first row in the table (the header row). This is absolute, so padding row numbering is calculated relative to this value. If the number of padding rows is greater than or equal to this value, some padding rows will be rendered with row numbers less than 1.

column width

Accepts any float, which is interpreted as a width in centimetres. This sets the width of all columns in the table. It is not possible to set the width of individual columns.

padding columns

Accepts any non-negative integer. This sets the number of additional columns rendered before and after the table. Be sure that this and the starting column option are set appropriately to avoid unexpected column numbering – they are not checked for consistency.

padding column width

Accepts any float, which is interpreted as a width in centimetres. This sets the width of the padding columns.

starting column

Accepts any positive integer. This sets the index of the first column in the table (the leftmost column). Column indices are rendered as letters (in the style of Excel or Google Sheets), with 1 corresponding to A. This is absolute, so padding column numbering is calculated relative to this value. If the number of padding columns is greater than or equal to this value, some padding columns will be rendered with column indices less than 1. This will result in unexpected characters being rendered as part of the table. It is vital to avoid this.

cell style | Accepts a comma-separated list of commands to apply to the non-header cell content, cell ⊕ by cell. This can be empty, a single value, or multiple values. If the number of styles is less. than the number of columns, the styles are repeated, allowing for (for example) alternating styles. The final token in each style may take the content of the cell as an argument, for example \textbf is acceptable.

every cell style | Accepts any commands (not a list of commands), to be applied to every non-header cell, ⊕ after any cell-specific styles specified in cell style. The final token in every cell style may take the cell contents as an argument, after any cell-specific styles have been applied. In effect, the order is \everycellstyle{\cellstyle{cell contents}}. This allows for styling specified in cell style to overwrite the styling specified in every cell style.

header cell style | Accepts a comma-separated list of commands to apply to the header cell content, cell by cell. This can be empty, a single value, or multiple values. If the number of styles is less than the number of columns, the styles are repeated, allowing for (for example) alternating styles. The final token in each style may take the content of the header as an argument, for example \textbf is acceptable.

every header cell style

Accepts any commands (not a list of commands), to be applied to every header cell, after any cell-specific styles specified in header cell style. The final to-🚯 ken in every header cell style may take the header cell contents as an argument, after any cell-specific styles have been applied. In effect, the order is \everyheadercellstyle{\headercellstyle{header cell contents}}. This allows for styling specified in header cell style to overwrite the styling specified in every header cell style.

header row color white

Accepts any colour, including colour combinations such as blue!50!white. This sets the background colour of the header cells.

even row color white

Accepts any colour, including colour combinations such as blue!50!white. This sets the background colour of the even-numbered rows.

odd row color white

Accepts any colour, including colour combinations such as blue!50!white. This sets the background colour of the odd-numbered rows.

borders true (true)

Boolean. If true, borders are rendered around the table and between columns and rows according to row borders and column borders. If false, no borders are rendered, overwriting the values of row borders and column borders.

row borders

Boolean. If true, borders are rendered between rows. If false, no borders are rendered false (true) between rows, except for the header row. Borders are always rendered on the outside of the table, unless borders = false

column borders

Boolean. If true, borders are rendered between columns. If false, no borders are rendered true (true) | between columns. Borders are always rendered on the outside of the table, unless borders

border style

Accepts any valid tikz style, such as "dashed, draw = red". This sets the style of the bor- ⊕ I ders, appended to a default style of "line width = <width>, black", where <width> is specified by the border width option.

border width 0.75pt

Accepts any MFX dimension, such as 1mm or 0.5pt. This sets the line width of the borders.

selected cell | Accepts a comma-separated pair of integers, which specify the row and column of the 🚯 | selected cell within the table; i.e. such that the first header is {1,1}. Padding cells can be selected, but setting this value to a cell which is not rendered (i.e, not within the table and not within the padding rows or columns) will throw an error. This is not checked internally. The selected cell will be highlighted, and its contents displayed in the formula bar if formula is not set.

formula | Accepts a token list (i.e, standard ETFX syntax) to be displayed in the formula bar. This is If this is not set, the contents of the selected cell are displayed instead, without the use of the \formula macro.

auto formula

Boolean. If true, the formula will be passed to the \formula macro, which will format it true (true) in the same way as Google Sheets. If false, the formula will simply be rendered in the \ttfamily font, allowing for manual formatting.

show formula bar

Boolean. If true, the formula bar is rendered, including the formula. If false, the entire true (true) | formula bar is not rendered, and the picture stops at the top of the column labels.

scale

Accepts any float. This scales the entire picture by the given factor using a scalebox.

Examples

Default

With no options specified, the table is rendered as follows:

B2	▼ fx			
А	В	С	D	E
1				
2	Name	Age	City	
3	John Smith	28	New York	
4	Alice Johnson	35	Los Angeles	
5	Bob Anderson	22	Chicago	
6	Eva Williams	30	San Francisco	
7	David Brown	25	Miami	
8				

Background Colours

Background colours can be specified for the header row, and for odd and even rows separately. The example below uses the colours from the Rosé Pine Dawn palette, which can be found here: https://rosepinetheme.com. The option header cell style is also used to set the header text to an appropriate colour.

```
\begin{latexcel}[
       header cell style = \color{BackgroundColour}\textbf,
       cell style = \color{ForegroundColour},
       header row color = Blue,
       even row color = BackgroundColour,
       odd row color = Surface5
                  & Age & City
                                  \\
       Name
   % |-----|
9
                   & 28 & New York
       John Smith
10
       Alice Johnson & 35 & Los Angeles \\
       Bob Anderson & 22 & Chicago
                                     //
12
       Eva Williams & 30 & San Francisco \\
13
       David Brown & 25 & Miami
    \end{latexcel}
15
```

B2	√ f x			
А	В	С	D	Е
1				
2	Name	Age	City	
3	John Smith	28	New York	
4	Alice Johnson	35	Los Angeles	
5	Bob Anderson	22	Chicago	
6	Eva Williams	30	San Francisco	
7	David Brown	25	Miami	
8				

Text Formatting

The formatting for the text in cells can be specified using cell style and every cell style for non-header cells, and header cell style and every header cell style for header cells. The "every" variant is applied to each cell, while the non-"every" variant can be used to specify formatting for each column individually, and overrides the "every" variant. The example below makes use of the siunitx package to format the numbers in the table with units.

```
% Declare a new SI unit for year
    \DeclareSIUnit{\year}{yr}
    \newcommand{\formatAge}[1]{
        \SI{#1}{\year}
    \begin{latexcel}[
8
        header cell style = \textbf,
        every cell style = \color{blue},
        cell style
                          = {{}, {\formatAge}, \ttfamily},
12
                                              \\
        Name
                       & Age
                               & City
14
                                              \\
        John Smith
                       & 28
                               & New York
15
        Alice Johnson & 35 & Los Angeles
                                              11
        Bob Anderson
                       & 22
                             & Chicago
17
                       8 30 8 San Francisco \\
        Eva Williams
        David Brown
                       & 25
                               & Miami
    \end{latexcel}
```

,	А В	С	D
1			
2	Name	Age	City
3	John Smith	28 yr	New York
4	Alice Johnson	$35\mathrm{yr}$	Los Angeles
5	Bob Anderson	$22\mathrm{yr}$	Chicago
6	Eva Williams	$30\mathrm{yr}$	San Francisco
7	David Brown	$25\mathrm{yr}$	Miami

Padding and Cell Addresses

The padding rows and padding columns options can be used specify the number of additional rows and columns to render before and after the table. Setting this to at least 1 helps to sell the rendered picture as a genuine extract from Google Sheets, but it is not necessary. The example below includes no padding rows or columns, with the table starting at the cell A1.

```
\begin{latexcel}[
       padding rows = 0,
       padding columns = 0,
       starting row = 1,
       starting column = 1,
                      & Age & City
       John Smith
                      8 28 & New York
                                           \\
       Alice Johnson & 35 & Los Angeles \\
       Bob Anderson
                      8 22 & Chicago
                                          \\
11
       Eva Williams
                      & 30 & San Francisco \\
12
       David Brown
                     8 25 & Miami
13
    \end{latexcel}
14
```

A1	▼ fx		
	А	В	С
1	Name	Age	City
2	John Smith	28	New York
3	Alice Johnson	35	Los Angeles
4	Bob Anderson	22	Chicago
5	Eva Williams	30	San Francisco
6	David Brown	25	Miami

In the example below, the table starts at F3, with 2 padding columns and 1 padding row. Note that the row and column numbering is absolute, so the padding rows and columns are numbered relative to the starting row and column. This means that the labelled columns start at D and the labelled rows start at 2.

```
\begin{latexcel}[
      padding columns = 2,
       starting row = 3,
       starting column = 6
   ]
                   & Age & City \\
6
   % |-----|
      John Smith
                   & 28
                       & New York
8
      Alice Johnson & 35 & Los Angeles \\
      Bob Anderson & 22 & Chicago
                                    \\
10
       Eva Williams & 30 & San Francisco \\
11
      David Brown & 25 & Miami
    \end{latexcel}
13
```

D	E F	G	Н	1
2				
3	Name	Age	City	
4	John Smith	28	New York	
5	Alice Johnson	35	Los Angeles	
6	Bob Anderson	22	Chicago	
7	Eva Williams	30	San Francisco	
8	David Brown	25	Miami	

Cell Sizing

Cell sizes can be specified for the table cells and the padding cells separately, always in cenitmetres. The example below uses a smaller row height than the default for the table cells, and a wider column width for the padding cells. The scale option can also be used to scale the entire picture; here, it is used to shrink the picture to 80% of its original size.

```
\begin{latexcel}[
        row height = 0.65,
        padding column width = 1,
        scale = 0.8,
                      & Age & City
                                            11
       John Smith
                      & 28 & New York
       Alice Johnson & 35 & Los Angeles \\
                      8 22 & Chicago
                                            11
       Bob Anderson
        Eva Williams
                      & 30 & San Francisco \\
        David Brown
                              & Miami
                      & 25
12
    \end{latexcel}
```

B2	•	fx fx			
	А	В	С	D	E
1					
2		Name	Age	City	
3		John Smith	28	New York	
4		Alice Johnson	35	Los Angeles	
5		Bob Anderson	22	Chicago	
6		Eva Williams	30	San Francisco	
7		David Brown	25	Miami	
8					

Borders

By default, the table will include a border around the entire table, as well as between the columns and to separate the header row from the table body. Passing **borders** = false will remove all borders, overriding all other border options. This is shown below, with some background colours.

```
\begin{latexcel}[
        borders
                           = false,
        header row color
                           = Blue,
        header cell style = \color{BackgroundColour}\textbf,
        cell style
                           = \color{ForegroundColour},
                           = BackgroundColour,
        even row color
        odd row color
                           = Surface5
     ]
        Name
                       & Age & City
                                              \\
10
        John Smith
                             & New York
                                              11
                       & 28
                       8 35 & Los Angeles \\
        Alice Johnson
12
                                              \\
        Bob Anderson
                       & 22 & Chicago
        Eva Williams
                       & 30 & San Francisco \\
        David Brown
                               & Miami
                       & 25
15
     \end{latexcel}
```

B2	√ fx			
А	В	С	D	Е
1				
2	Name	Age	City	
3	John Smith	28	New York	
4	Alice Johnson	35	Los Angeles	
5	Bob Anderson	22	Chicago	
6	Eva Williams	30	San Francisco	
7	David Brown	25	Miami	
8				

Row borders and column borders can be enabled or disabled separately. The example below shows both in their non-default state.

```
\begin{latexcel}[
       column borders = false,
row borders = true,
3
       header row color = Blue,
       header cell style = \color{BackgroundColour}\textbf,
       cell style = \color{ForegroundColour},
6
       even row color = Backgroun
odd row color = Surface5
                       = BackgroundColour,
9
       Name
               & Age & City \\
10
    % |-----|
11
       John Smith & 28 & New York \\
       Alice Johnson & 35 & Los Angeles \\
13
       Bob Anderson & 22 & Chicago \\
14
       Eva Williams & 30 & San Francisco \\
15
       David Brown & 25 & Miami
16
    \end{latexcel}
```

А	В	С	D
2	Name	Age	City
3	John Smith	28	New York
4	Alice Johnson	35	Los Angeles
5	Bob Anderson	22	Chicago
6	Eva Williams	30	San Francisco
7	David Brown	25	Miami
8			

The border styling can be specified with the border style option. This option is passed to the tikz draw command, so any valid tikz styling can be used. It is appended to "line width = <width>, black" (where <width> is specified with the border width option), so it can override these options if desired. The example below uses a dashed line of a different colour. Additionally, the option border width is used to increase the width of the borders.

```
\begin{latexcel}[
        header row color = Blue,
        header cell style = \color{BackgroundColour}\textbf,
        cell style
                           = \color{ForegroundColour},
                          = BackgroundColour,
        even row color
        odd row color
                           = Surface5,
6
        border style
                           = {densely dashed, Red},
        border width
                           = 1mm,
9
                       & Age
        Name
                               & City
                                              //
10
11
                                              //
        John Smith
                       & 28
                               & New York
        Alice Johnson & 35 & Los Angeles
                                             //
13
        Bob Anderson
                       & 22 & Chicago
14
        Eva Williams
                       & 30 & San Francisco \\
15
                               & Miami
        David Brown
                       & 25
16
    \end{latexcel}
```

1 A	В	С	D
2	Name	Age	City
3	John Smith	28	New York
4	Alice Johnson	35	Los Angeles
5	Bob Anderson	22	Chicago
6	Eva Williams	30	San Francisco
7	David Brown	25	Miami

Highlighting a Cell

The selected cell option can be used to highlight a cell, and display its contents in the formula bar. The example below highlights the cell D3, which is in the 3rd column and 2nd row of the table. The coordinates are 1-indexed, starting from the top-left cell of the table (i.e, the first header cell). Note that the cell contents are displayed in the formula bar, as well as the selected cell address in the top left.

```
\begin{latexcel}[
  selected cell = \{3, 2\}
]
                              \\
              & Age
                    & City
  Name
% |-----|
  John Smith
              & 28 & New York
                               //
  Alice Johnson & 35 & Los Angeles \\
  Bob Anderson
              & 22 & Chicago
                               \\
  Eva Williams
              David Brown
                    & Miami
              & 25
\end{latexcel}
```

D3	▼ fx New York			
А	В	С	D	Е
1				
2	Name	Age	City	
3	John Smith	28	New York	
4	Alice Johnson	35	Los Angeles	
5	Bob Anderson	22	Chicago	
6	Eva Williams	30	San Francisco	
7	David Brown	25	Miami	
8				

Formulae and the Formula Bar

The entire formula bar can be hidden with the show formula bar option. This is shown below; a cell is still selected, but its contents and address are not displayed.

```
\begin{latexcel}[
       selected cell
                        = {3, 4},
       show formula bar
                        = false
    ]
                                       \\
       Name
                    & Age & City
       John Smith
                    & 28
                          & New York
                                       \\
       Alice Johnson
                    & 35 & Los Angeles \\
       Bob Anderson
                    & 22 & Chicago
       Eva Williams
                    David Brown
                    & 25
                          & Miami
10
    \end{latexcel}
```

	А	В	С	D E
1				
2		Name	Age	City
3		John Smith	28	New York
4		Alice Johnson	35	Los Angeles
5		Bob Anderson	22	Chicago
6		Eva Williams	30	San Francisco
7		David Brown	25	Miami
8				

By default, if a cell is selected then its contents will be shown in the formula bar. However, this can be overridden by providing the formula option with a value. This value will be displayed in the formula bar, preceded by an equals sign. The example below shows the same table as above, but with the formula =AVERAGE(C3:C7) displayed in the formula bar. The colouring is applied automatically via the \formula macro. To disable this, set auto formula = false.

```
\begin{latexcel}[
        selected cell = \{2, 7\},
        formula = {AVERAGE($C$3:$C$7)}
    ]
        Name
                                                   //
                             & Age & City
        John Smith
                             & 28
                                   & New York
                                                   \\
        Alice Johnson
                             & 35 & Los Angeles \\
        Bob Anderson
                             & 22 & Chicago
                                                   \\
        Eva Williams
                             გ 30
                                   & San Francisco \\
        David Brown
                             & 25
                                   & Miami
                                                   //
10
        \bfseries Average Age & 26
11
    \end{latexcel}
12
```

А	В	С	D	E
1				
2	Name	Age	City	
3	John Smith	28	New York	
4	Alice Johnson	35	Los Angeles	
5	Bob Anderson	22	Chicago	
6	Eva Williams	30	San Francisco	
7	David Brown	25	Miami	
8	Average Age	26		

With auto formula = true, the value passed to the formula option is accepted without expansion in the usual manner, and so most special characters such as dollar signs and ampersands do not need to be escaped. With auto formula = false, the value is treated as a normal token list (i.e., normal ETEX), and so special characters must be escaped. This does allow for the use of ETEX macros. The example below shows the same table as above, but with the formula formatted manually.

```
\begin{latexcel}[
        selected cell = \{2, 7\},
                       = {\color{FormulaText}AVERAGE(\textcolor{Formula1}{\$C\$3:\$C\$7})},
        formula
        auto formula
                       = false
    ]
                                                     //
        Name
                               & Age & City
6
                                                     //
        John Smith
                              & 28 & New York
                              8 35 & Los Angeles \\
        Alice Johnson
8
        Bob Anderson
                              & 22 & Chicago
                                                     //
                              & 30 & San Francisco \\
        Eva Williams
10
        David Brown
                               & 25
                                    & Miami
11
        \bfseries Average Age & 26
12
    \end{latexcel}
13
```

А	В	С	D	E
1				
2	Name	Age	City	
3	John Smith	28	New York	
4	Alice Johnson	35	Los Angeles	
5	Bob Anderson	22	Chicago	
6	Eva Williams	30	San Francisco	
7	David Brown	25	Miami	
8	Average Age	26		

Colours

The additional colours provided by the latexcel package which are not included in section 2 are shown below.

Google Sheets Name	धт _Е Х Name	Example
black	SheetsBlack	#000000
dark grey 4	SheetsDarkGrey4	#434343
dark grey 3	SheetsDarkGrey3	#666666
dark grey 2	SheetsDarkGrey2	#999999
dark grey 1	SheetsDarkGrey1	#B7B7B7
light grey 1	SheetsLightGrey1	#D9D9D9
light grey 2	SheetsLightGrey2	#EFEFEF
light grey 3	SheetsLightGrey3	#F3F3F3
white	SheetsWhite	
berry red	SheetsBerryRed	#980000
light berry red 3	SheetsLightBerryRed3	#E6B8AF
light berry red 2	SheetsLightBerryRed2	#DD7E6B
light berry red 1	SheetsLightBerryRed1	#CC4125
dark berry red 1	SheetsDarkBerryRed1	#A61C00
dark berry red 2	SheetsDarkBerryRed2	#85200C
dark berry red 3	SheetsDarkBerryRed3	#5B0F00
red	SheetsRed	#FF0000
light red 3	SheetsLightRed3	#F4CCCC
light red 2	SheetsLightRed2	#EA9999
light red 1	SheetsLightRed1	#E06666
dark red 1	SheetsDarkRed1	#CC0000
dark red 2	SheetsDarkRed2	#990000
dark red 3	SheetsDarkRed3	#660000
orange	SheetsOrange	#FF9900
light orange 3	SheetsLightOrange3	#FCE5CD
light orange 2	SheetsLightOrange2	#F9CB9C
light orange 1	SheetsLightOrange1	#F6B26B
dark orange 1	SheetsDarkOrange1	#E69138
dark orange 2	SheetsDarkOrange2	#B45F06
dark orange 3	SheetsDarkOrange3	#783F04
yellow	SheetsYellow	#FFFF00
light yellow 3	SheetsLightYellow3	#FFF2CC
light yellow 2	SheetsLightYellow2	#FFE599
light yellow 1	SheetsLightYellow1	#FFD966
dark yellow 1	SheetsDarkYellow1	#F1C232
dark yellow 2	SheetsDarkYellow2	#BF9000
dark yellow 3	SheetsDarkYellow3	#7F6000
green	SheetsGreen	#00FF00
light green 3	SheetsLightGreen3	#D9EAD3
light green 2	SheetsLightGreen2	#B6D7A8

Google Sheets Name	tΤ _E X Name	Example
light green 1	SheetsLightGreen1	#93C47D
dark green 1	SheetsDarkGreen1	#6AA84F
dark green 2	SheetsDarkGreen2	#38761D
dark green 3	SheetsDarkGreen3	#274E13
cyan	SheetsCyan	#ooffff
light cyan 3	SheetsLightCyan3	#DoEoE3
light cyan 2	SheetsLightCyan2	#A2C4C9
light cyan 1	SheetsLightCyan1	#76A5AF
dark cyan 1	SheetsDarkCyan1	#45818E
dark cyan 2	SheetsDarkCyan2	#134F5C
dark cyan 3	SheetsDarkCyan3	#oC343D
cornflower blue	SheetsCornflowerBlue	#4A86E8
light cornflower blue 3	SheetsLightCornflowerBlue3	#C9DAF8
light cornflower blue 2	SheetsLightCornflowerBlue2	#A4C2F4
light cornflower blue 1	SheetsLightCornflowerBlue1	#6D9EEB
dark cornflower blue 1	SheetsDarkCornflowerBlue1	#3C78D8
dark cornflower blue 2	SheetsDarkCornflowerBlue2	#1155CC
dark cornflower blue 3	SheetsDarkCornflowerBlue3	#1C4587
blue	SheetsBlue	#0000FF
light blue 3	SheetsLightBlue3	#CFE2F3
light blue 2	SheetsLightBlue2	#9FC5E8
light blue 1	SheetsLightBlue1	#6FA8DC
dark blue 1	SheetsDarkBlue1	#3D85C6
dark blue 2	SheetsDarkBlue2	#oB5394
dark blue 3	SheetsDarkBlue3	#073763
purple	SheetsPurple	#9900FF
light purple 3	SheetsLightPurple3	#D9D2E9
light purple 2	SheetsLightPurple2	#B4A7D6
light purple 1	SheetsLightPurple1	#8E7CC3
dark purple 1	SheetsDarkPurple1	#674EA7
dark purple 2	SheetsDarkPurple2	#351C75
dark purple 3	SheetsDarkPurple3	#20124D
magenta	SheetsMagenta	#FF00FF
light magenta 3	SheetsLightMagenta3	#EAD1DC
light magenta 2	SheetsLightMagenta2	#D5A6BD
light magenta 1	SheetsLightMagenta1	#C27BA0
dark magenta 1	SheetsDarkMagenta1	#A64D79
dark magenta 2	SheetsDarkMagenta2	#741B47
dark magenta 3	SheetsDarkMagenta3	#4C1130