

XLTEST - Excel spreadsheet quality check

XLTest helps you to check the integrity of your spreadsheets far more quickly than with tedious cell-by-cell inspection. The full documentation explains it comprehensively. This is simply a set of screen shots.

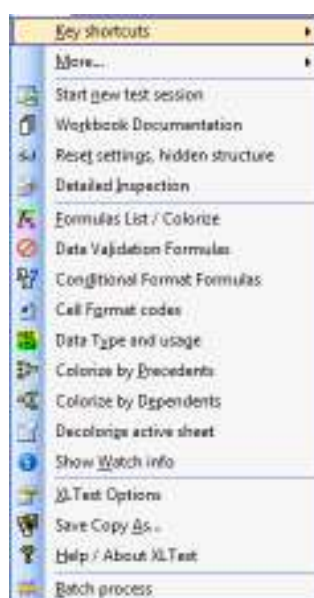
The XLTest menu and toolbar

The XLtest toolbar provides a one-click access to the main menu options



XLTest Menu

Shortcut to actions on active cell
 More menu options
 Open workbook for testing
 Create \$DOC sheet
 Reset settings, hidden objects
 Create \$INF error-checking sheets
 List / Colour cells distinct formula
 List / Colour Data Validation
 List / Colour Conditional Formats
 Colour by Number Format codes
 Colour by data type, input/output
 Colour by Precedents location
 Colour by Dependents location
 Remove interior fill colours
 Show info window on selection
 Options for what to search for
 Save a copy of active workbook
 Help on colours, License info
 Auto-process a file



Key Shortcuts menu

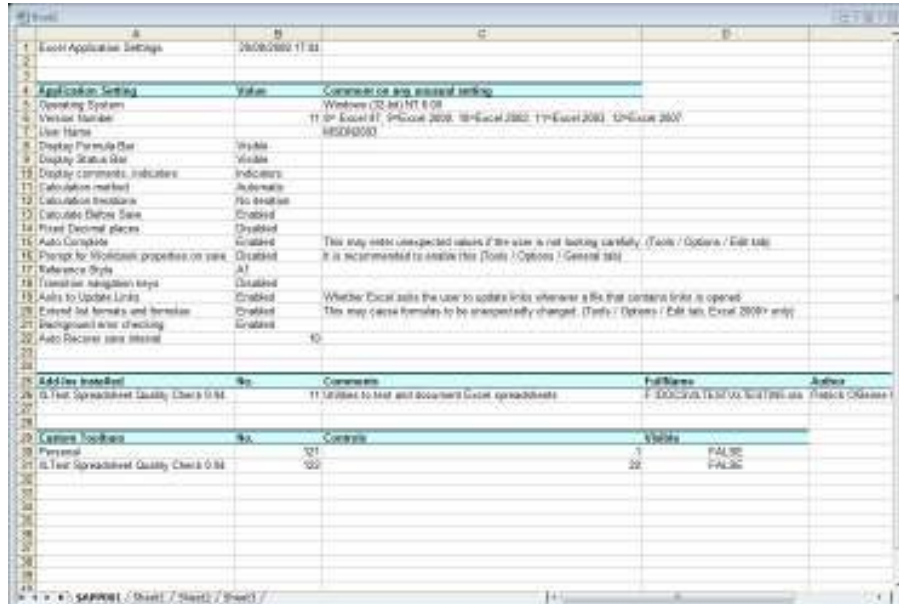
	1 Copy Formula	Ctrl+Alt+1
	2 Copy Text	Ctrl+Alt+2
	3 Operate on selection	Ctrl+Alt+3
	5 Go To Reference	Ctrl+Alt+5
	6 Flag active cell	Ctrl+Alt+6
	7 Select from Active Cell	Ctrl+Alt+7
	8 Select Formula region	Ctrl+Alt+8
	Q Jump to bottom right	Ctrl+Alt+0

More... menu

	New test case workbook
	Run test cases
	Tests to Scenarios
	Scenarios to Tests
	Compare worksheets
	Compare workbooks
	Add supporting sheets
	Reset Text To Columns settings
	Unprotect sheet
	Delete Custom Styles
	Delete Unused Number Formats

Sample screen shots

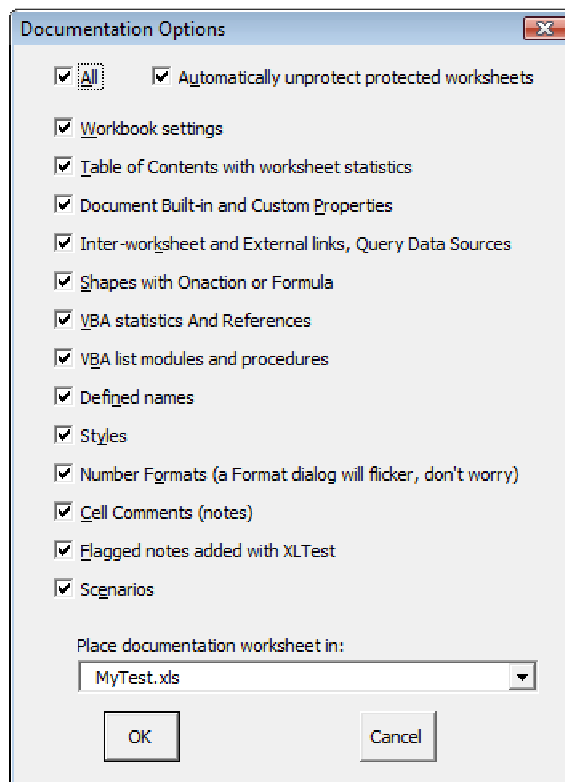
Excel Application settings



Application Setting	Value	Comments or any related setting		
Operating System	Windows (32-bit) NT 6.0.6			
Version Number	11.0.7.5002 (Office 2010, 10-Excel,2010, 11-Excel,2010, 12-Excel,2010, MSOP6500)			
User Name				
Display Formula Bar	Visible			
Display Status Bar	Visible			
Display comments, indicators	Indicators			
Calculation method	Automatic			
Calculation iterations	No iteration			
Calculate Before Save	Enabled			
Print Decimal places	Disabled			
Auto Complete	Enabled	This may enter unexpected values if the user is not looking carefully. (Tools / Options / Edit tab)		
Prompt for Worksheet properties on save	Disabled	It is recommended to enable this (Tools / Options / General tab)		
Reference Style	A1			
Transfer navigation keys	Disabled			
Alerts to Update Links	Enabled	Whether Excel asks the user to update links whenever a file that contains links is opened.		
Extend cell formats and formulas	Enabled	This may cause formulas to be unexpectedly changed. (Tools / Options / Edit tab, Excel 2007+ only)		
Background error checking	Enabled			
Auto Recover save interval	10			
Address Resolution	No	Comments	Full Name	Author
10 Year Spreadsheet Quality Check 0.94	11	Unable to find and document Excel spreadsheets	F:\DOCS\TEST\00_Suit\ppl\aa	Frank O'Grady
Custom Location	No	Comments	Value	
Personal	101		1	FALSE
10 Year Spreadsheet Quality Check 0.94	102		22	FALSE



Workbook Documentation



Documentation Options

- All
- Automatically unprotect protected worksheets
- Workbook settings
- Table of Contents with worksheet statistics
- Document Built-in and Custom Properties
- Inter-worksheet and External links, Query Data Sources
- Shapes with Onaction or Formula
- VBA statistics And References
- VBA list modules and procedures
- Defined names
- Styles
- Number Formats (a Format dialog will flicker, don't worry)
- Cell Comments (notes)
- Jagged notes added with XLTest
- Scenarios

Place documentation worksheet in:

MyTest.xls

OK Cancel



Reset Settings, Hidden structure

Reset workbook settings, hidden rows, columns, sheets

Reset hidden rows, columns, sheets, views

Reset Calculation to Automatic, no Iteration

Unhide sheets, rows, columns, merges, shapes

Shade tabs, rows, columns if were unhidden

Iteration should be off to detect circular references

Place documentation worksheet in:

MyTest.xls

OK Cancel



Detailed Inspection

Create \$INF sheets of detailed cell inspections

Inspect All 4 Worksheets (Could be lengthy)

Create names for ranges of cells with errors

Report found ranges in separate areas

Place documentation worksheet in:

MyTest.xls

OK Cancel

Microsoft Excel - MyTest.xls

File Edit View Insert Format BusFun Tools Data Window Xltest Help InvisibleBasic

Type a question for help

Arial 10 B I U

Key shortcuts More...

F:\docs\ltest\MyTest.xls

A1 \$INF_Detailed Check of Errors'

No.	Error Value	Count	Areas	Ranges
1	2007 #DIV/0!	1	J	B22
4	2042 #N/A	1	J	B16
6	2029 #NAME?	2	D	B13,D23
7	2000 #NULL!	1	J	B25
8	2036 #NUM!	1	J	B23
9	2023 #REF!	2	D	B17,B21
10	2015 #VALUE!	2	D	B11,B15
No.	Error Check	Count	Areas	Ranges
1	Error value	10	B	B11:B13;B15;B17;B21;B23;D23;B25
2	Text too long			
3	Number stored as text			
4	Inconsistent formula			
5	Omits cells in region			
6	Unlocked formula cell			
7	Refers to empty cell	5	B	B13;B16;B22;D23;B27
8	List validation error			
9	Inconsistent formula			
10	Falls data validation			
11	Overflow error	1	J	B5
12	Number in formula	5	B	B11;B20;B21;C21;D21
13	Format hides value			
14	Format Font Fill colour			
15	Conditional format font			
16	Formula too long			
17	Formula starts with minus	1	J	B5
18	Formula with double minus			
19	Numeric text right aligned			
Other Checks	Count	Address		
Count Cells Used	150	A1:C50		
Count Not empty	46			
Count Formulas	19			
Count Distinct Formulas	19			
Count Formula hidden	0			
Longest Formula (characters)	78	A20 =IF(INDIRECT("'"&A4&2%'"&B23%T")<"";INDIRECT("'"&A4&2%'"&B23%T"))		
Array Formulas	1	J B27		
No.	Function	Distinct	Total	
1	NDV	1	1	
2	total	1	1	
3	VLOOKUP	4	4	
4	SUM	4	4	
5	LLUa	1	1	
6	IF	2	2	
7	ISEERROR	1	1	
8	INDIRECT	2	2	
9				
10				
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Ready Circular



Conditional Format Formulas

	A	B	C	D
1	Conditional in 'Data'		Count	First use
2	1	> 300 Interior.ColorIndex=46(Orange)	72	D2
3	2	< 14611 Interior.ColorIndex=45(Light Orange) > 36526 Interior.ColorIndex=4(Bright Green)	66	I2
4	3	< 14611 Interior.ColorIndex=45(Light Orange) > 43831 Interior.ColorIndex=4(Bright Green)	1	I8
5	4	< 3654 Interior.ColorIndex=45(Light Orange) > 36526 Interior.ColorIndex=4(Bright Green)	5	I11

	D	E	F	G	H	I	J
tTyp	BenefitAmou	Vendor	City	Coun	Poverty	DOB	Se
	285	50081	GARY	2	0.215688318	15.01.1965 00:00	F
	240	50081	GARY	2	0	06.02.1973 00:00	F
	240	50081	GARY	2	0.59633702	20.04.1967 00:00	F
	210	50081	LAKE STATION	2	1.120073318	14.12.1958 00:00	F
	240	50081	GARY	2	0.54635942	24.09.1962 00:00	M
	270	50081	GARY	2	0.649216592	11.04.1951 00:00	F
	225	50081	GARY	2	0.873540401	08.06.2018 00:00	F
	255	50081	GARY	2	0.670783401	03.01.1956 00:00	F
	270	50081	GARY	2	0.557811558	13.08.1960 00:00	F
	255	50081	GARY	2	0.918260872	30.11.1918 00:00	F
	270	50081	GARY	2	0.722981393	30.09.1931 00:00	F
	270	50081	GARY	2	0.737888217	11.02.1939 00:00	M
	225	50081	GARY	2	0.787204981	03.02.1966 00:00	M
	255	50081	GARY	2	0.761739135	16.01.1927 00:00	F
	200	50081	GARY	2	0.517142832	04.12.1970 00:00	F
	100	50081	GARY	2	0.615896106	17.12.1958 00:00	F
	200	50081	GARY	2	0.673347712	04.06.1955 00:00	F



Cell Format Codes

5	A006449	MyTest.XLS	000	Benefit	210	50081	LAKE STATION	2	1120073318	H.12.1958	0000	F
6	A006449	\$NF_Data(2)	000	Benefit	240	50081	GARY	2	054635942	24.03.1962	0000	M
7	A006523	24.03.1989	00.00	Benefit	270	50081	GARY	2	064626552	10.04.1951	0000	F
8	A001221	24.03.1989	00.00	Benefit	225	50081	GARY	2	0873540401	08.06.2018	0000	F
9	A006543	24.03.1989	00.00	Benefit	255	50081	GARY	2	0670783401	03.01.1958	0000	F
10	A006308	25.03.1989	00.00	Benefit	270	50081	GARY	2	055781958	13.08.1960	0000	F
11	A001201	28.03.1989	00.00	Benefit	255	50081	GARY	2	096260972	30.11.1916	0000	F
12	A006432	28.03.1989	00.00	Benefit	270	50081	GARY	2	0722981393	30.09.1931	0000	F
13	A006334	27.03.1989	00.00	Benefit	270	50081	GARY	2	0737888217	11.02.1939	0000	M
14	A017085	27.03.1989	00.00	Benefit	225	50081	GARY	2	0787204981	03.02.1966	0000	M
15	A006490	27.03.1989	00.00	Benefit	255	50081	GARY	2	0761737075	18.01.1927	0000	F
16	A017023	27.03.1989	00.00	Crisis	200	50081	GARY	2	051742832	04.12.1970	0000	F
17	A006431	27.03.1989	00.00	Crisis	100	50081	GARY	2	0618589306	17.12.1958	0000	F
18	A006574	28.03.1989	00.00	Crisis	200	50081	GARY	2	0672347712	04.06.1955	0000	F
19	A006346	28.03.1989	00.00	Benefit	240	50081	GARY	2	1208198798	23.10.1923	0000	F
20	A017075	28.03.1989	00.00	Benefit	255	50081	GARY	2	098958543	02.07.1925	0000	F
21	A017070	28.03.1989	00.00	Benefit	240	50081	GARY	2	0607819047	28.07.1962	0000	F
22	A006419	28.03.1989	00.00	Benefit	240	50081	GARY	2	025227878	11.05.1967	0000	F
23	A006520	28.03.1989	00.00	Benefit	300	50081	GARY	2	0193434646	04.02.1968	0000	F
24	A006433	28.03.1989	00.00	Benefit	240	50081	GARY	2	0188175108	16.02.1953	0000	Y
25	A006398	28.03.1989	00.00	Benefit	255	50081	GARY	2	0764988932	03.10.1945	0000	F
26	A006531	28.03.1989	00.00	Benefit	210	50081	GARY	2	1178509255	22.09.1906	0000	F
27	A017068	28.03.1989	00.00	Crisis	18.11	50081	GARY	2	0334762245	01.07.1973	0000	F
28	A017051	28.03.1989	00.00	Benefit	240	50081	GARY	2	0583870847	23.04.1955	0000	F
29	A006377	28.03.1989	00.00	Crisis	172.2	50081	GARY	2	0277582407	18.01.1963	0000	F
30	A006270	28.03.1989	00.00	Benefit	255	50081	GARY	2	034241079	10.01.1939	0000	F
31	A010189	28.03.1989	00.00	Benefit	240	50081	GARY	2	1225217342	02.08.1937	0000	F
32	A006468	28.03.1989	00.00	Benefit	210	50081	GARY	2	1066895739	18.10.1965	0000	F
33	A006536	28.03.1989	00.00	Benefit	240	50081	GARY	2	0084423867	19.06.1948	0000	F
34	A010142	28.03.1989	00.00	Crisis	76.01	50081	GARY	2	0812260805	25.11.1955	0000	M
35	A006484	28.03.1989	00.00	Benefit	255	50081	GARY	2	0238987942	24.03.1970	0000	F
36	A017038	28.03.1989	00.00	Benefit	240	50081	GARY	2	035824886	13.07.1969	0000	F
37	A017006	28.03.1989	00.00	Crisis	200	50081	GARY	2	0	15.04.1967	0000	F
38	A006463	28.03.1989	00.00	Benefit	270	50081	GARY	2	0682871402	10.08.1956	0000	F
39	A006374	28.03.1989	00.00	Benefit	285	50081	GARY	2	0498966575	25.11.1971	0000	F
40	A006450	28.03.1989	00.00	Crisis	200	50081	GARY	2	0691308987	04.04.1965	0000	F
41	A006399	28.03.1989	00.00	Benefit	285	50081	GARY	2	0488617695	01.10.1950	0000	F
42	A006350	28.03.1989	00.00	Benefit	210	50081	GARY	2	0736297805	03.07.1953	0000	F
43	A006400	28.03.1989	00.00	Benefit	255	50081	GARY	2	0776770175	22.02.1923	0000	F
44	A017071	30.03.1989	00.00	Crisis	159.59	50081	GARY	2	0656821738	04.03.1964	0000	F
45	A017072	30.03.1989	00.00	Crisis	200	50081	GARY	2	064295321	24.12.1946	0000	F
46	A006494	30.03.1989	00.00	Benefit	255	50081	GARY	2	0204202963	15.03.1962	0000	F
47	A006379	30.03.1989	00.00	Crisis	200	50081	GARY	2	0735165284	16.03.1943	0000	F
48	A006384	32/03/1989	00.00	C	225	50081	GARY	2	0900993764	16.05.1948	0000	M
49	A006494	01.04.1989	00.00	Crisis	200	50081	GARY	2	0617142856	17.12.1958	0000	F
50	A010174	01.04.1989	00.00	Crisis	200	50081	GARY	2	025327878	08.09.1978	0000	F
51	A017045	01.04.1989	00.00	Benefit	225	50081	GARY	2	0202672809	08.02.1978	0000	F
52	A006533	01.04.1989	00.00	Benefit	225	50081	GARY	2	1137662282	04.07.1953	0000	F
53	A017027	02.04.1989	00.00	Benefit	240	50081	GARY	2	100124229	11.07.1922	0000	F
54	A006526	02.04.1989	00.00	Benefit	225	50081	GARY	2	050107027	01.04.1963	0000	F
55	A006463	02.04.1989	00.00	Benefit	240	50081	GARY	2	1114405924	03.08.1917	0000	F
56	A017019	02.04.1989	00.00	Benefit	270	50081	GARY	2	0677585507	09.04.1939	0000	F
57	A006466	03.04.1989	00.00	Crisis	200	50081	GARY	2	025227878	16.12.1948	0000	F
58	A017007	05.04.1989	00.00	Benefit	240	50081	GARY	2	073955224	07.09.1940	0000	F
59	A006516	05.04.1989	00.00	Benefit	240	50081	EAST CHICAGO	2	0257875472	12.03.1973	0000	F
60	A017065	06.04.1989	00.00	Crisis	8.71	50081	GARY	2	0871797264	04.10.1943	0000	F
61	A006508	06.04.1989	00.00	Benefit	240	50081	GARY	2	0	01.07.1953	0000	F
62	A006570	06.04.1989	00.00	Benefit	285	50081	GARY	2	0253198822	22.03.1974	0000	F
63	A006510	06.04.1989	00.00	Crisis	110	50081	GARY	2	0658571168	06.04.1978	0000	F

The sheet \$NF_Data(1) shows the codes and formats:

	A	B	C	D
1	Number F	in 'Data'	Count	First use
2	1	m/d/yyyy h:mm	144	B2
3	2	0	1	D17
4	3	#.00,	1	D60
5				



Colour Data Type and Usage

Data Type Color

	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	Check
Dept A	Total: 2678, 2881, 2858, 2727, 2464, 2806, 2385, 2078, 1445, 2624, 2469, 3278, 32027, 32448											
Dept B	Total: 877, 845, 858, 807, 838, 862, 841, 2803, 859, 889, 854, 802, 11874, 3448											
Dept C	Total: 2864, 3028, 4257, 3883, 4188, 2907, 2454, 2148, 2802, 3202, 3612, 2812, 32422, 32422											
Dept D	Total: 402, 228, 486, 428, 442, 262, 248, 200, 294, 248, 442, 2847, 4229, 3782											
Dept E	Total: 802, 827, 802, 844, 848, 704, 832, 284, 867, 897, 284, 828, 828											
Dept F	Total: 712, 686, 738, 744, 688, 644, 644, 608, 578, 504, 644, 644, 6884, 6884											
Grand total	22813, 24682, 24852, 22754, 25838, 30838, 20774, 12462, 1286, 2428, 1471, 20864, 20864, 20864											

Usage \ Type	Number	Date	Text	Logical
Unused Constant	White	White	White	White
Input Constant	Light Green	Light Turquoise	Pale yellow	Pale lavender
Input Formula	Sea Green	Sky Blue	Tan	Lilac
Intermediate Formula	Lime	Pale Blue	Light Orange	Lavender
Output Formula	Bright Green	Turquoise	Yellow	Pink
Empty input cell	Rose	Error	Red	



Colorize by Dependents

Colour by Dependents location or count

Key to Prec/Depd	954	555	939	6571	
This sheet only	452	81	203	4332	
This workbook only	979	631	132	6051	
This sheet + book	349	85	444	3554	
External workbook	888	802	930	7438	
This sheet + Ext.	10974	6914	7676	93046	186092
This book + Ext.					
Sheet, book, Ext.	28318	21471	20964	230614	
	Grand total check			269841	527793.5

	A	B	C	D	E	F	G
1	Type	Name	Count	Areas	Ranges		
2		AllInputs	859	30	A1:O4,A5:K10,M5:M10,O5:		
3	0	BlankInputs	267	27	B1:O1,A2:O2,A3,B4:O4,E7:		
4	5	NumericInputs	516	15	B5:K6,F7:K7,B7:D10,E8:K1		
5	8	TextInputs	76	10	A1,B3:O3,A4:A11,A13:A17,		
6							

No.	Dependents in 'Budget08'	Count	First use	External
1		185	B3	0
2		523	B5	0
3		87	B5	0
4		72	B10	0

Type	Name	Count	Areas	Ranges
	AllInputs	859	30	A1:O4,A5:K10,M5:M10,O5:
0	BlankInputs	267	27	B1:O1,A2:O2,A3,B4:O4,E7:
5	NumericInputs	516	15	B5:K6,F7:K7,B7:D10,E8:K1
8	TextInputs	76	10	A1,B3:O3,A4:A11,A13:A17,

DOORWAYS Sheet (tbl)

Dept	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	Check
ESFP - Budgets														
Accounting	107	109	115	100	100	100	100	100	100	100	100	100	1200	1200
Admission	100	100	100	100	100	100	100	100	100	100	100	100	1200	1200
Arts & Activities	100	100	100	100	100	100	100	100	100	100	100	100	1200	1200
ESFP - Total	100	100	100	100	100	100	100	100	100	100	100	100	1200	1200
Dept B														
Dept C														
Dept D														
Dept E														
Dept F														
Dept G														
Dept H														
Dept I														
Dept J														
Dept K														
Dept L														
Dept M														
Dept N														
Dept O														
Dept P														
Dept Q														
Dept R														
Dept S														
Dept T														
Grand Total	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	14400	14400



Show Watch info

Information on current selection

Property	Value
Formula	length 13 =SUM(B30:M30)
Numeric	length
Format	Not aligned
Protection	
Font Color	Automatic
Interior Color	Pale yellow
Interior Pattern	1
Borders	Linestyle -4142 -4142
Precedents	12 12 on this sheet
Dependents	2 1 on this sheet 1 on other sheets
Conditional Format	
Validation	
In defined Name	Budget08!_Format_hides_value, Budget08!_Unlocked_formula_cell, Budget08!
Error Checks	Unlocked formula cell Format hides value
Comment	
Other information	
Sum	
Average	
Minimum	
Maximum	

Copy to Clipboard Close

It gives you a convenient summary of the cell without having to dig through menus to find all the settings that apply to it.

The button 'Copy to Clipboard' copies the text shown in the dialog to the clipboard so you can paste it into any audit record document that you are working on.



Options

Options saved for use in XLTest sessions



Save Copy As...

Save a copy of the workbook

This saves a copy of the active workbook under another name, without changing the name of the workbook in memory.

It is useful in keeping copies of a file for documentation purposes while still keeping the current file name which might be linked to from XLTest documentation sheets.



Help / About XLTest

Help on colours and keyboard shortcuts

Help

The Spreadsheet Quality Check & Control Toolkit Copyright (c) 2009 Patrick O'Beirne All Rights Reserved

Colours for Data Types

Usage \ type	Number	Date	Text	Logical
Unused Constant	White	White	White	White
Unused Const Formula	White	White	White	White
Input Constant	Light Green	Light Turquoise	Pale yellow	Pala lavender
Input Formula	Sea Green	Sky Blue	Tan	Libra
Intermediate Formula	Lime	Pale Blue	Light Orange	Lavender
Output Formula	Bright Green	Turquoise	Yellow	Pink
Empty input cell	Rose	Error	Red	

Colours for counting occurrences

0	1	2	3	4	5
6	7	8	9	10	11
12	13	14	15	16	17
18	19	20	21	22	23
24	25	26	27	28	29
30	31	32	33	34	35

Microsoft (R) Excel (TM) Keyboard Shortcuts

F5 Go To (cell, or special selections)

Ctrl+arrow key Move to the edge of the current data region.

Ctrl+End Move to the last cell on the worksheet

Ctrl+Shift+I* Select the current data region around the active cell.

Ctrl+Period Move clockwise to the next corner of the selected range.

Shift+Space Select Row

Ctrl+I In a selected row, select the cells that don't match the value in the active cell.

Ctrl+Space Select Column

Ctrl+Shift+I In a selected column, select the cells that don't match the value in the active cell.

Ctrl+I Select all cells directly referenced by formulas in the selection.

Ctrl+Shift+I Select all cells directly or indirectly referenced by formulas in the selection.

Ctrl+I Select cells that directly reference the active cell.

Ctrl+Shift+I Select cells that directly or indirectly reference the active cell.

XLTest add in functions

ColorName(Colorindex)

USTDate(date)

EUTDate(date)

TextToDate(text, format)

IsLike(text, pattern)

Alphas(text)

Numerics(text)

TextToValue(text, [minus], [decimal])

GetFormula(cell)

JoinValues(range, delimiter)

SumN(range)

FileSize(filename)

DateModified(filename)

DirFile(fileno, dirname, [attrib])

To select cells by content, use Ctrl+F to Find
e.g. to find sheet links, enter ! into the Find What box. To find external links enter [or .xls
In the Look in box, select Formulas. Click Find All. Press Ctrl+A to select all the cells.
Close the Find dialog and you can tab around the select cells.

Support, Updates, FAQs:
<http://www.sysmod.com>
Systeme Modelling Ltd

F: |DOCS|XLTEST\XLTest109a.xls

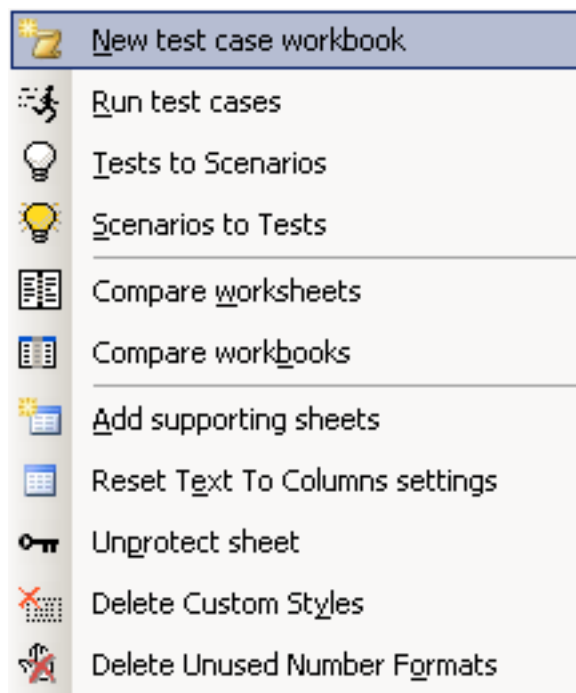
The box on the right shows the functions in XLTest that are available for you to use in your own formulas, as long as the XLTest addin is installed.

Batch autotest process

This starts a new audit, shows the Open File dialog and runs all the tests. It saves some effort clicking each option in turn but cannot save you the effort of actually reading the results! It saves a copy of the workbook under test for each colour map with a name created from the test and the current date and time, eg “Conditional Formats 200909201234.xls”

More menu items

The More... item in the XLTest menu has these options:



Test Cases

XLTest can execute a set of test cases on a target workbook and stores the result of each test. You can use this for regression testing to verify that a new version performs the same as before, except of course for what you expect to have changed.

New Test Case Workbook

Test Case	Comment	Test Sheet	Test Cells	Test	Test Value
TestCase1	General comment	ActiveSheet			
TestCase1	Set range B1:B3 to value 2		B1:B3	: Value Only	2
TestCase1	Set A4 to 3 and format shown		A4	@ Value and Format	3.00
TestCase1	Test whether C21=21		C21	= Equals	21
TestCase1	Show value of expression, no test		=SUM(D1:D3)	No test	

Before change	Test Result	Type test	Format test	Value test	Errors

Run test cases in a worksheet ✕

Open a workbook...

Workbook with test cases:

Worksheet with test cases:

Workbook to run tests on:

Default worksheet if not specified:

Tests to Scenarios

Convert XLTest cases worksheet to Scenarios

Scenarios to Tests

Convert Excel Scenarios to XLTest case worksheet



Compare worksheets

Compare two worksheets

As an exercise, open the files EX1Demo.xls and EX2Demo.xls.

Compare Worksheets

Open...

Left file: EX1DEMO.XLS
Left sheet: Budget08
Right file: ex2DEMO.XLS
Right sheet: Budget08

Compare formulas
 Compare values
 Compare data validation
 Compare cell comments

Maximum no. of differences to report (max 999): 100

The result of the comparison will be placed in a new workbook

Compare Cancel

It creates a new workbook with a sheet named \$WSC that shows the differences:

	A	B	C	D	E
1					
2	Worksheet	Address	Difference	EX1DEMO.XLS	ex2DEMO.XLS
38	Budget08	L16	Value	104	104
39	Budget08	L16	Valid	False	True
40	Budget08	N16	Value	5693	5797
41	Budget08	B17	Formula	=B14+B15+B16	=SUM(B14:B16)
42	Budget08	C17	Formula	=C14+C15+C16	=SUM(C14:C16)
43	Budget08	D17	Formula	=D14+D15+D16	=SUM(D14:D16)
44	Budget08	E17	Formula	=E14+E15+E16	=SUM(E14:E16)
45	Budget08	F17	Formula	=F14+F15+F16	=SUM(F14:F16)
46	Budget08	G17	Formula	=G14+G15+G16	=SUM(G14:G16)
47	Budget08	H17	Formula	=H14+H15+H16	=SUM(H14:H16)
48	Budget08	I17	Formula	=I14+I15+I16	=SUM(I14:I16)
49	Budget08	J17	Formula	=J14+J15+J16	=SUM(J14:J16)
50	Budget08	K17	Formula	=K14+K15+K16	=SUM(K14:K16)
51	Budget08	L17	Formula	=L14+L15+L16	=SUM(L14:L16)
52	Budget08	M17	Formula	=M14+M15+M16	=SUM(M14:M16)
53	Budget08	N17	Value	17074	17655
54	Budget08	O17	Value	34148	35310
55	Budget08	M20	Valid	False	True
56	Budget08	M20	Validation Formula	Between '0' .. '980'	Between '0' .. '1000'
57	Budget08	B21	Value	0	9
58	Budget08	M21	Valid	False	True
59	Budget08	M21	Validation Formula	Between '0' .. '980'	Between '0' .. '1000'
60	Budget08	N21	Value	5626	5635



Compare workbooks

Compare two workbooks (same named sheets)

This compares all the worksheets in the two open workbooks selected.
It also compares VBA code.

Name	Type	Difference	EX10EMO.XLS
Data	Worksheet Unprotected by ""		
Errors	Worksheet		
Errors		Formulas	
Errors		Used Range	A1:E30
Budget08	Worksheet		
Budget08		Formulas	
Transfer	Worksheet	Sheet#4 is not in right file	Transfer
		Sheet#4 is not in left file	
frmAddARecord	Form	First diff at line 4	Option Explicit
Module1	Module	First diff at line 1	Option Explicit
Module7	Module	First diff at line 67	Let MortPynt1 = (Slap1 - DnPynt1) * ((Rate1 / 12) ^ ((1 + Rate1 / 12) * (Time1 * 12))) / ((Rate1 / 12 + 1) * (Time1 * 12
Sheet	Address	124 Differences found	EX10EMO.XLS
Errors	C7	Value	1234-5678-9012-3456
Errors	B15	Formula	=VLOOKUP(R[-12]C, F:\docs\lctest\s3\errors.xls)Displays R3C2:R10C3,0)
Errors	B16	Formula	=VLOOKUP(R[-12]C, F:\docs\lctest\s3\errors.xls)Displays R3C2:R10C3,2)
Errors	B17	Formula	=VLOOKUP(R[-14]C, F:\docs\lctest\s3\errors.xls)Displays R3C2:R10C3,3)
Errors	E19	Value	Total
Errors	B20	Formula	=VLOOKUP("Belt", F:\docs\lctest\s3\errors.xls)PriceList,2,FALSE)*100
Errors	B20	Value	1099
Errors	C20	Formula	=SUM(F:\docs\lctest\s3\errors.xls)Inputs!R(18))
Errors	C20	Value	58860
Errors	D20	Formula	=F:\docs\lctest\s3\errors.xls)nsRow!R5C5
Errors	D20	Value	1839
Errors	E20	Formula	=Budget08!R(50)C(9)+F:\docs\lctest\s3\errors.xls)nsRow!R5C5+RC(-3)
Errors	E20	Value	272779
Errors	C21	Value	439.6
Errors	D21	Value	735.6
Errors			POB:
Errors	B27	Comment	This array function was entered using Ctrl+Shift+Enter
Errors	A29	Value	Budget08
Errors	B29	Value	A
Errors	A30	Formula	=IF(INDIRECT(""&R29C1&"T"&R(-1)C2&"1")="" &INDIRECT(""&R29C1&"T"&R(-1)C2&"1"))
Errors	A30	Value	Budget for 2008
Sheet	Address	Difference	EX10EMO.XLS
Budget08	L5	Formula	=Transfer!RC[-10]
Budget08	L6	Formula	=Transfer!RC[-10]
Budget08	E7	Value	
Budget08	L7	Formula	=Transfer!RC[-10]
Budget08	N7	Value	5690
Budget08	L8	Formula	=Transfer!RC[-10]
Budget08	L9	Formula	=Transfer!RC[-10]
Budget08	L10	Formula	=Transfer!RC[-10]
Budget08	L10	Validation Type	Decimal
Budget08	L10	Validation Formula	> 0
Budget08	B14	Formula	=B14*B14*B14



Add supporting sheets

Add \$Readme, Palette, Table of Contents sheets

	A	B	C	D	E	F
1	Read me first to understand this spreadsheet					
2	Purpose					
3	Requirements					
4		Version no.	Date	By whom	Comments / filename etc	
5	Current release and version					
6	Previous versions (insert lines for future versions here)					
7						
8	Properties					
9	Notes on any unusual features, eg settings, functions, features, hidden structure, macros...					
10	Instructions for regular usage					
11	Calculation methods, units of measure, currencies, references to source documents					
12	Conventions on the meaning of formatting and styles					
13		input number	output number			
14						
15	How to find your way around this workbook					
16	Name of person who maintains list of authorised passwords for sheet and VBAProject access					
17	Name of sheet that contains definitions of constants and assumptions					
18	List of automated data sources (text files, workbooks, data queried)					
19	Verified that the spreadsheet conforms to guidelines of data validation and self-checking formulas by, and when:					
20	Reviewed for formula accuracy by, and when:					
21	Source data verified as accurate and complete by, and when:					
22	Output data and chart results last tested and verified by, and when:					
23	Date last printed and circulated to...					
24	Statement of regulatory compliance					
25						
26						
27						
28						
29						
30						
31						

	A	B	C	D	E	F	G	H	I	J	K	L
1		Standard Excel Colour Palette					This workbook colour palette					
2	ColorIndex	Name	Color	Red	Green	Blue	Sample	Sample	Color	Red	Green	Blue
3	1	Black	0	0	0	0			0	0	0	0
4	2	White	16777215	255	255	255			16777215	255	255	255
5	3	Red	255	255	0	0			255	255	0	0
6	4	Bright Green	65280	0	255	0			65280	0	255	0
7	5	Blue	16711680	0	0	255			16711680	0	0	255
8	6	Yellow	65535	255	255	0			65535	255	255	0
9	7	Pink	16711935	255	0	255			16711935	255	0	255
10	8	Turquoise	16776960	0	255	255			16776960	0	255	255
11	9	Dark Red	128	128	0	0			128	128	0	0
12	10	Green	32768	0	128	0			32768	0	128	0
13	11	Dark Blue	8388608	0	0	128			8388608	0	0	128
14	12	Dark Yellow	32896	128	128	0			32896	128	128	0
15	13	Violet	8388736	128	0	128			8388736	128	0	128
16	14	Teal	8421376	0	128	128			8421376	0	128	128
17	15	Gray-25%	12632256	192	192	192			12632256	192	192	192
18	16	Gray-50%	8421504	128	128	128			8421504	128	128	128
19	17	Lilac	16751001	153	153	255			16751001	153	153	255
20	18	Plum	6697881	153	51	102			6697881	153	51	102
21	19	Pale yellow	13434879	255	255	204			13434879	255	255	204
22	20	Light Turquoise	16777164	204	255	255			16777164	204	255	255
23	21	Dark plum	6884774	102	0	102			6884774	102	0	102
24	22	RosyTan	8421631	255	128	128			8421631	255	128	128
25	23	Mid blue	13395456	0	102	204			13395456	0	102	204
26	24	Pale lavender	16764108	204	204	255			16764108	204	204	255
27	25	Dark Blue	8388608	0	0	128			8388608	0	0	128
28	26	Pink	16711935	255	0	255			16711935	255	0	255
29	27	Yellow	65535	255	255	0			65535	255	255	0
30	28	Turquoise	16776960	0	255	255			16776960	0	255	255
31	29	Violet	8388736	128	0	128			8388736	128	0	128

	A1	Sheet				
	A	B	C	D	E	F
1	Sheet	Type	Sheet Tab Name	Visibility	Contents	Sum Total
2	1	Worksheet	\$TOC(1)	Visible		
3	2	Worksheet	\$Readme	Visible	Read me first to understand this spreadsheet	0
4	3	Worksheet	Palette	Visible	Standard Excel Colour Palette	971441056
5	4	Worksheet	Data	Visible	Client	8097426.755
6	5	Worksheet	Errors	Visible	A compendium of error values	#VALUE!
7	6	Worksheet	Budget08	Visible	Budget for 2008	2777309.5
8	7	Worksheet	Transfer	Visible	November 2008	63832

Reset Text to Columns settings

Delete Custom Styles

Delete Unused Number Formats

Unprotect sheet

User defined Functions

XLTest provides these functions for use in your spreadsheets.

Function	Description	Example
ColorName(Colorindex)	Return color name from index	=ColorName(1)
USTDate(date)	Convert text mm/dd/yyyy or mm-dd-yyyy to a date	=USTDate("12/1/2008")
EUTDate(date)	Convert text dd/mm/yyyy or dd-mm-yyyy to a date	=EUTDate("12/1/2008")
TextToDate(text, format)	Convert text to date specifying order and delimiter	=TextToDate("08-02-09","mdy-")
IsLike(text, pattern)	True if Text matches Pattern regular expression	=IsLike("abc@def.ghi","*@*.???)
Alphas(text)	Returns alphabetic characters in Text	=Alphas(B5)
Numerics(text)	Returns numeric characters in Text	=Numerics(K5)
TextToValue(text, [minus], [decimal])	Converts text to number, optional negative and decimal symbols	=TexttoValue("12.3-")
GetFormula(cell)	Returns formula in a cell	=GetFormula(K9)
JoinValues(range, delimiter)	Concatenates range to a string list	=JoinValues(G2:G15,",")
SumN(range)	Sums non-formula numeric cells	=SumN(A1:K10)
FileSize(filename)	Returns size of a file given its name	=FileSize("test103.xls")
DateModified(filename)	Returns modified date of a file given its name	=DateModified("somefile.xls")
DirFile(fileno, dirname, [attrib])	Returns the file name in the given position a directory	=DirFile(1,"xl*.xla")

Spreadsheet Check and Control

47 key practices to detect and prevent errors

Patrick O'Beirne, 2005, ISBN 190540400X

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