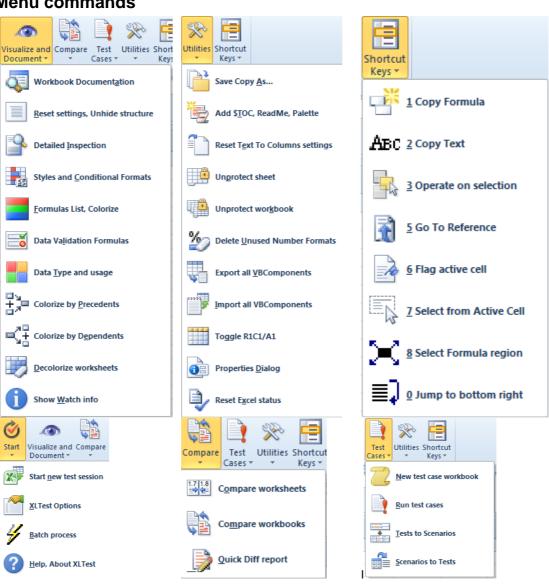
# XLTEST - Excel spreadsheet quality check

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 brochure is simply a set of screen shots.

### The XLTest menu

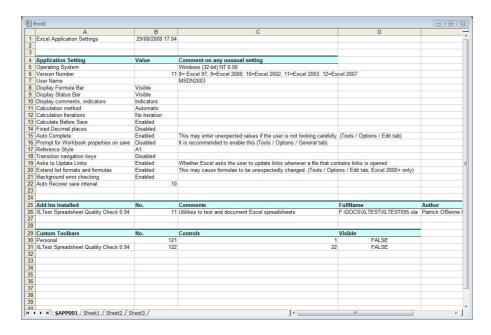


### Menu commands

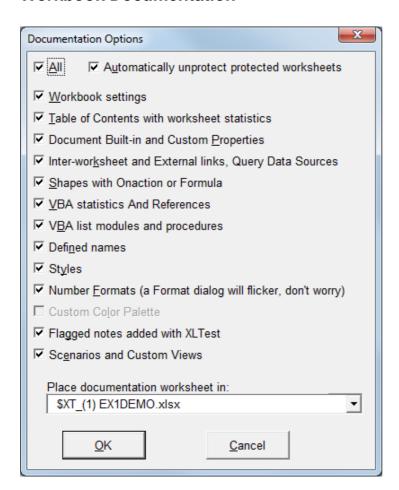


# Sample screen shots

# **Excel Application settings**



### **Workbook Documentation**



# Workbook summary documentation

2 V	05-Dec-11 olume Vorkbook	17:33					
2 V/3 W	olume		3:59 EX1DEMO.XLS				
3 W							
i i	romboom	Excel 97-2003 Workhook (xls) [	Com F:\DOCS\XLTest2007\Ex1demo\E)	(1DEMO XLS			
5		Executor Ecoo Homocon (MD) [	John L. DOGGOGLEGGEGGEGEGE	Maximum Iterations: 1, maximum			
5		Calc Version 14.5621	Automatic	change: 0.001	(from XLTEST_LOG)		
3		Calculate before Save	Disabled	change, e.ee i	(IIOIII/AE/IEO/_EOO/		
		Settings	1 Custom Document Properties ,				
		Centrys	1 Odstoni Bocament i Toperaes ,				
3							
	roperty	Туре	Name	Value	_		
, P	торенц	Туре	Name	Examples for XLTest	-		
0		Built-In	Title	demonstration with VBA			
1		Built-in Built-in	Subject				
2		Built-In Built-In		Spreadsheet User Self-checking Patrick O'Beirne			
			Author	Patrick O'Beime			
3		Built-In	Manager				
4		Built-In	Company	Systems Modelling Ltd.			
5		Built-In	Category				
6	- 1	Built-In	Keywords				
7	8	Built-In	Comments	Spreadsheet Quality Test Demonstration			
8		Built-In	Template				
9		Built-In	Last Author	MSDN2003			
0		Built-In	Revision Number	MODINESSO			
1		Built-In	Last Save Time	15/09/2008 21:42:58			
2	13	Dullelli	Last Gave Tillle	13/03/2000 21:42:30			
3	4	Custom	Checked by	The Tester			
4		Guotom	Officerior by	THE TESTER			
	heet	Type, Codename	Sheet Tab Name	Settings	First Entry	Last Cell	Real
		Type, coachaine		Unprotected by "", Hidden,		Last son	
6	1	Worksheet Sheet1	Data	AutoFilter mode, 1 Query tables	A1[Client]	073	073
					· · · (onon)		
7	2	Worksheet Sheet5	Errors		A1[A compendium of error values]	E30	E30
	•			2 Hidden rows.1 Narrow rows.1		1.534	
8	3	Worksheet Sheet9	Budget08	Hidden columns	A1[Budget for 2008]	N70	070
9		Worksheet Sheet2	Transfer	Very Hidden,	A1[November 2008]	B69	B69
0							500
1 Li	ink	Source	Status				
2 E		.\s3errors.xls	Missing File				
3			miconig i no				
	LE/DDE	None					

	A	В	C	D	E
1	First reference by each sheet named across the page to external files and sheet names down the page	Count	Data	Errors	Budget08
2	.\s3errors.xls	1		B15=VLOOKUP(B3, 'F:\DOCS\XLTEST\Ex1Demo\[s3errors.x	
3	Budget08	1		E20=Budget08!N70+'F:\DOCS\XLTEST\Ex1Demo\[s3errors.	
4	Transfer	1			L5=Transfer!B5
5			100011		
6	Link / sheet		Used by		
7	.\s3errors.xls		Errors!B15=VLOOKUP(B3,'F:\DOCS\XLTEST\Ex1Demo\[s3e		
8	Budget08	Sheet	Errors!E20=Budget08!N70+'F:\DOCS\XLTEST\Ex1Demo\[s3e	errors.xls]lnsRow!\$E\$5+B20	
9	Transfer	Sheet	Budget08lL5=TransferlB5		

# **Detailed Inspection**

# **Errors and warning checks**

<b>Description of check</b> Error value	The cell contains an error value, one of #DIV/0!, #N/A, #NAME?, #NULL!, #NUM!, #REF!, #VALUE!
Text two digit year	a text date with 2 digit years
Number stored as text	a number stored as text
Inconsistent formula	an inconsistent formula for a region
Omits cells in region	a formula omitting a cell for a region
Unlocked formula cell	a formula and is unlocked
Refers to empty cell	a formula referring to empty cells
List validation error	data in the list contains a validation error
Inconsistent list	an inconsistent formula for a list
Fails data validation	a validation error
Overflow error	an overflow error
Number in formula	an embedded ('hard coded') numeric constant
Format hides value	number format obscures real value
Format Font Fill colour	font colour same as cell fill colour
Conditional Format Font	font conditional colour same as cell fill colour
Formula too long	formula exceeds 1024 characters

Formula starts with minus Formula with double minus

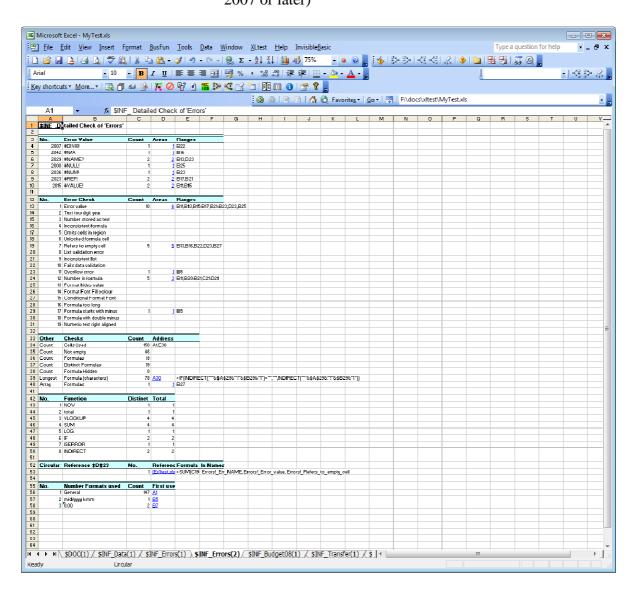
formula begins =formula contains --

Numeric text right aligned Range\_Lookup check params

numeric text aligned to look like a number a lookup function missing the range\_lookup parameter

FormulaLabel property

used by 'Accept labels in formulas' (not present in Excel 2007 or later)



# Formulas List / Colorize

		Α	В	С	D	E
	1	Distinct Fo	Formula R1C1 in 'Budget08'	Count	First use	Formula A1
	2	1	=Transfer!RC[-10]	47	<u>L5</u>	=Transfer!B5
3	3	2	=SUM(RC[-13]:RC[-1])	9	<u>N5</u>	=SUM(A5:M5)
4	4	3	=SUM(R[-6]C:R[-1]C)	13	<u>B11</u>	=SUM(B5:B10)
!	5	4	=SUM(R[-6]C[-13]:R[-2]C[-2])	1	<u>011</u>	=SUM(B5:M9)
(	6	5	=R[-3]C+R[-2]C+R[-1]C	12	<u>B17</u>	=B14+B15+B16
7	7	6	=SUM(R[-3]C:R[-1]C)	1	<u>N17</u>	=SUM(N14:N16)
8	3	7	=SUM(R[-3]C[-13]:R[-1]C[-1])	1	<u>017</u>	=SUM(B14:N16)
9	9		=SUM(RC[-12]:RC[-1])	39	N20	=SUM(B20:M20)
1	0	9	=SUM(R[-7]C:R[-1]C)	25	<u>B27</u>	=SUM(B20:B26)
1	1	10	=SUM(R[-7]C[-13]:R[-1]C[-2])	1	<u>O27</u>	=SUM(B20:M26)
1	2	11	=SUM(R[-6]C[-13]:R[-1]C[-2])	1	<u>O37</u>	=SUM(B31:M36)
1	3	12	=SUM(R[-8]C:R[-1]C)	11	B48	=SUM(B40:B47)
1	4	13	=SUM(R[-8]C:R[-2]C)	1	M48	=SUM(M40:M46)
1	5	14	=SUM(R[-8]C[-13]:R[-1]C[-1])	1	O48	=SUM(B40:N47)
1	6	15	=SUM(R[-16]C:R[-1]C)	12	<u>B67</u>	=SUM(B51:B66)
1	7	16	=SUM(R[-16]C[-13]:R[-1]C[-1])	1	<u>O67</u>	=SUM(B51:N66)
			=R[-58]C+R[-52]C+R[-42]C+R[-			
1	8	17	32]C+R[-21]C+R[-2]C	13	B69	=B11+B17+B27+B37+B48+B67
1	9	18	=SUM(R[-1]C[-12]:R[-1]C[-1])	1	<u>N70</u>	=SUM(B69:M69)
2	0		=SUM(R[-67]C[-13]:R[-3]C[-1])/2	1	<u>070</u>	=SUM(B3:N67)/2
2	1					

The colour map makes formula inconsistencies jump out to the eye.

11	e coloui								cies,			to tii			
1	A	В	С	D	Е	F	G	Н	1	J	К	L	М	N	0
2	Automatic test, s.	aves copy file	es												
3	AutoTest 200909			84	A	64	lu-	lad.	A	C	0.4	Man	D	Takal	Charle
	p \$DF_Budget08(1)		Feb	Mar	Apr	Mag	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	Check
5	Abrasives	411	668	760	484	367	849	575	233	977	135	<b>11111111111111111</b>	407	6807	
6	Accounting	427	544	331	548	880	635	114	662	184	914	676	670	6579	
7		381	967	239	340	574	703	84	564	390	387	964	437	5690	
8	Actuators	828	540	233	179	740	546	748	942	969	976		485	7408	
9	Adhesives	494	567	191	700	325	343	748 758	374	900	648	465	485 811	7408 6556	
0	Advertising Air brakes	115	95	288	816	578	920	102	936	725	64		369	5263	
1	Total	2656	3381	2050	2727	3464	3996	2381	3711	4145	3124	3489	3179	38303	
2	TOtal	2000	3301	2000	2121	3404	3336	2301	ərii	4140	3124	3403	3113	30303	200
	Dept B												_		
4		394	608	392	76	77	268	753	616	240	871	//////////////////////////////////////	408	4703	
5	Bags Barcodes	352	644	714	982	692	239	711	894	377	616	324	457		
8	Batteries	931	593	485	149	862	358	279	993	342	464	104	237	5693	
					1207			1743		959	1951	581	4100	17074	341
	Total	1677	1845	1591	1207	1631	865	1743	2503	959	1951	981	1102	17074	34
3	D 0														
	Dept C	000	470	474	004	000	040	400	040	404	OFO	annanan.	989		
0	Cables	398	172 861	471 550	924 581	803	242 28	422 616	219 234	431 251	859 476	164	000	6114 Fene	
	Capacitors	0				547						500	982 428	5626	
2	Cassettes	348	543	697	94 E14	320	189	353	75 793	350	259	996	928	4150	
3	Ceramics	555 527	618 456	622 259	514 927	971 933	573	976 856	792 93	115 294	223		306 586	7191 6553	
4 5	Chemical agent	927	456 150	259 853	927 160		892 868	104	399	294 642	409 553	264	586 162	5849	
6	Chipboard	927 46	328	853 805	150	767 174	109	104	399	642 419	923		162 79	3939	
	Computer supplic												73	20422	201
7	Total	2801	3128	4257	3350	4515	2901	3453	2118	2502	3702	3163	3532	39422	394
8	D . D														
	Dept D	-										mmmm.			
0	Div	70	FFO	F40	470	000	000	040	050	400	045	771	070		
1	Dies	70	558	518	179	690	636	340	353	196	815	987	676	5718	
2	Diggers	952	277	768 787	861 949	866	139 785	424	612	152 870	686	976 981	64 71	6771 6946	
3	Discs Doors	779 824	311 989	984	949 648	738 363	430	657 140	247 301	237	61 349	693	344	6202	
4													697	6202	
5	Drums	428	696	39	724	778	167	165	419	291	743	412	903	5259	
6	Dust covers	422	384	952	849	101	175	507	430	297	475	111111111111111111111111111111111111111	2847	6131	0.70
7	Total	4120	3338	4566	4236	4432	2522	2455	3283	2894	3616	4460	2847	42769	371
8	D F														
9	Dept E Electric fencing	614	815	760	836	37	415	683	14	823	337	111111111111111111111111111111111111111	161	5773	
			960											5042	
2	Electric switching Electronic media	371 810	966	517 603	95 909	575 462	622 262	420 554	322 174	463 137	298 625	196 231	206 753	6486	
3		469	374	921	890	968	791	230	663	923	718	426	753 516	7889	
4	Engines	925	292	289	40	536	561	787	467	771	388	603	489	5948	
5	Environmental	859	46	600	214		378	268	655	354	946		192	5295	
6	Events	203	949	497	964	88 660	378	268 586	660	354 64	687		311	5295 8867	
	Expenses	203		497 215	964 536				660 5		952		436		
7	Extractors Total	4502	871 5273	4402	4484	162 3488	234 3281	574 4102	2960	46 3581	4951	2864	2628	4402	935
.9	rotal	4002	9273	4402	4464	3466	3281	4102	2360	3081	4301	2064	2028		
	Dept F												_		
1		755	116	680	408	128	458	622	336	827	202	1004	349	5287	
2	Factory cleaning	755 254	205	459		128 565	123	764	786	827 325	166	278	349 627	5287 4865	
	Fast food				312								827 820	7200	
3	Fastenings	559	698 407	423	723 287	262 870	351 848	696 378	405 673	603	767 990	amminia	820 654	7203 5893	
4 5	Fibre optics	192		104					673 470	181	***	309 736	792	5893	
	Fish bait	395	222	663	342 500	862	512	53		701 E0	422 E04	THIIIIII.	792 597	6169 E201	
6 7	Flags	685	484	701	506 744	961	140	7	177	50	594	459	597 323	5361	
	Flavourings	461	690	190	223	255	788	664	826	765	990		323 320	7432 5832	
8	Floor polish	147	878	494		666	376	788	546	478	660	256	320 452	5832	
9	Flowers	893 704	135 968	244 272	986 638	117 890	268 295	449 29	633 610	685 680	696 899		452 81	5569 6697	
0	Fluid mixing		968 801						610 821	199		631	81 13	6697 4792	
1	Foam plastic	515		694	49	386	66	240			966		13	4792	_
2	Footwear	436	796	632	507	680	616	171	24	261	954	659	939	6571	
3	Fortune telling	71	386	187	630	752	368	565	541	96	452		203	4332	
4	Franking	686	254	430	977	366	375	336	621	264	979	2.4	132	6051	_
5	Fuel	91	88	615	156	148	466	128	550 500	434	349		444		
8	Furnishings	333	742	198	242	558	900	750	569	526	888	111111111111111111111111111111111111111	930	7438	
7	Total	7177		6986	7730	8466	6950	6640	8588	7075	10974	6914	7676	93046	1860
0															
9	Grand total	22933	16965	23852	23734	25996	20515	20774	23163	21156	28318	21471	20964	230614	

# **Data Validation Formulas**

	Α	В	С	D
1	Data Valid	in 'Budget08'	Count	First use
2	1	Stop Decimal > 0	99	<u>B5</u>
3	2	Stop Decimal Between 0 1000	33	<u>B14</u>
4	3	Invalid: Stop Decimal > 0	3	L14
5	4	Stop Decimal Between 0 980	400	B20
		Invalid: Stop Decimal Between 0		
6	5	980	7	M20
7				

The colour map makes inconsistencies in validation formulas jump out to the eye.

	A Control (or 200	В	С	D	E	F	G	Н		J	К	L	М	N	0
1_	Rudget for 288 Automatic test, s														
2	A Automatic test	aves coop no	Gar.												
3	A August and Const	, saves copy	ines	Mar	Apr	Mag	Jun	Jul	Aug	Sep	Oot	Nov	Dec	Total	Check
4	a AutoTest 2009	0321102044.2													
5	A \$DV_Budget0	2(1)	668	760	484	367	849	575	233	977	135	941	407	6807	
6	Accounting	427	544	331	548	880	635	114	662	184	914	670	670	6579	
7	Actuators	381	967	239		574	703	84	564	390	387	964	437	5690	
8	Adhesives	828	540	241	179	740	546	748	942	969	976	214	485	7408	
9	Advertising	494	567	191	700	325	343	758	374	900	648	445	811	6556	
10	Air brakes	115	95	288	816	578	920	102	936	725	64	255	369	5263	
11	Total	2656	3381	2050	2727	3464	3996	2381	3711	4145	3124	3489	3179	38303	3304
12	TOTAL	2000	0001	2000	2121	0404		2001	0111	*140	0.24	0100	0110	00000	
13	Dept B														
14		394	608	392	76	77	268	753	616	240	871	153	408	4703	
5	Bags Barcodes	352	644	714	982	692	239	711	894	377	616	324	457	6678	
16	Batteries	931	593	485	149	862	358	279	993	342	464	104	237	5693	
17	Total	1677	1845	1591	1207	1631	865	1743	2503	959	1951	581	1102	17074	341
18															
19	Dept C														
20	Cables	398	172	471	924	803	242	422	219	431	859	184	989	6114	
21	Capacitors	0	861	550	581	547	28	616	234	251	476	500	982	5626	
22	Cassettes	348	543	697	94	320	189	353	75	350	259	494	428	4150	
23	Ceramics	555	618	622	514	971	573	976	792	115	223	926	306	7191	
24	Chemical agent	527	456	259	927	933	892	856	93	294	409	321	586	6553	
25	Chipboard	927	150	853	160	767	868	104	399	642	553	264	162	5849	
26	Computer supplie	46	328	805	150	174	109	126	306	419	923	474	79	3939	
27	Total	2801	3128	4257	3350	4515	2901	3453	2118	2502	3702	3163	3532	39422	394
28		2001	0420	4231	5550	4010	2001	5455	2110	LOOL	0102	0100	3332	-0422	
29	Dept D														
30	Берсь											771	_		
											815				
31	Dies	70	558	518	179	690	636	340	353	196		687	676	5718	
32	Diggers	952	277	768	861	866	139	424	612	152	686	970	64	6771	
33	Discs	779	311	787	949	738	785	657	247	870	61	691	71	6946	
34	Doors	824	989	984	648	363	430	140	301	237	349	593	344	6202	
35	Drums	428	696	39	724	778	167	165	419	291	743	112	697	5259	
36	Dust covers	422	384	952	849	101	175	507	430	297	475	636	903	6131	
37	Total	4120	3338	4566	4236	4432	2522	2455	3283	2894	3616	4460	2847	42769	370
38															
39	Dept E														
40	Electric fencing	614	815	760	836	37	415	683	14	823	337	278	161	5773	
41	Electric switching	371	960	517	95	575	622	420	322	463	298	193	206	5042	
42	Electronic media	810	966	603	909	462	262	554	174	137	625	231	753	6486	
43	Engines	469	374	921	890	968	791	230	663	923	718	426	516	7889	
44	Environmental	925	292	289	40	536	561	787	467	771	388	403	489	5948	
45	Events	859	46	600	214	88	378	268	655	354	946	695	192	5295	
		203	949	497	964	660		586	660	64	687	468	311	6067	
46 47	Expenses Extractors	203 251	949 871	215	536	162	18 234	574	5	46	952	468 170	436	4452	
														4452	000
48	Total	4502	5273	4402	4484	3488	3281	4102	2960	3581	4951	2864	2628		939
49															
50	Dept F														
51	Factory cleaning	766	116	680	408	128	458	622	336	827	202	406	349	5287	
52	Fast food	254	205	459	312	565	123	764	786	325	166	279	627	4865	
53	Fastenings	559	698	423	723	262	351	696	405	603	767	896	820	7203	
54	Fibre optics	192	407	104	287	870	848	378	673	181	990	309	654	5893	
55	Fish bait	395	222	663	342	862	512	53	470	701	422	735	792	6169	
56	Flags	685	484	701	506	961	140	7	177	50	594	459	597	5361	
57	Flavourings	461	690	190	744	255	788	664	826	765	990	736	323	7432	
58	Floor polish	147	878	494	223	666	376	788	546	478	660	256	320	5832	
59	Flowers	893	135	244	986	117	268	449	633	685	696	11	452	5569	
60	Fluid missing	704	968	272	638	890	295	29	610	680	899	631	81	6697	
60 61	Foam plastic	515	801	694	49	386	230	240	821	199	966	42	13	4792	
		515 436	801 796	632	507	386 680	66 616	240		199	966 954	42 555	939	6792 6571	
32	Footvear								24						
63	Fortune telling	71	386	187	630	752	368	565	541	96	452	81	203	4332	
64	Franking	686	254	430	977	366	375	336	621	264	979	631	132	6051	
65	Fuel	91	88	615	156	148	466	128	550	434	349	85	444	3554	
66	Furnishings	333	742	198	242	558	900	750	569	526	888	802	930	7438	
	Total	7177		6986	7730	8466	6950	6640	8588	7075	10974	6914	7676	93046	1860
37															
67 68 69	Grand total	22933	16965	23852	23734	25996	20515	20774	23163	21156	28318	21471	20964	230614	

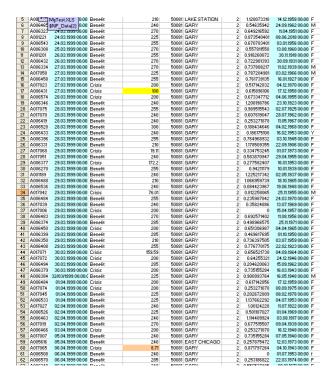
# **Conditional Format Formulas**

	Α	В	С	D
1	Conditional	in 'Data'	Count	First use
2	1	1) > 300 Interior.ColorIndex=46(Orange)	72	<u>D2</u>
		1) < 14611 Interior.ColorIndex=45(Light Orange)		
3	2	2) > 36526 Interior.ColorIndex=4(Bright Green)	66	<u>12</u>
		1) < 14611 Interior.ColorIndex=45(Light Orange)		
4	3	2) > 43831 Interior.ColorIndex=4(Bright Green)	1	<u>18</u>
		1) < 3654 Interior.ColorIndex=45(Light Orange)		
5	4	2) > 36526 Interior.ColorIndex=4(Bright Green)	5	<u>111</u>
_				

The colour map makes inconsistencies in condition formulas jump out to the eye.

	D	Е	F	G	Н	I	J	
tTyr	BenefitAmou	Vendor	City -	Coun ▼	Poverty -	DOB -	S€▼	Marit
	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**



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

_				
	Α	В	С	D
1	Number F	in 'Data'	Count	First use
2	1	m/d/yyyy h:mm	144	<u>B2</u>
3	2	O	1	<u>D17</u>
4	3	#.00,	1	<u>D60</u>
5				

# **Colour Data Type and Usage**

The colour map makes data type inconsistencies jump out to the eye. You can see blank input cells or text where there should be numbers.

A B C D E F G H	ataTypeCol		f <sub>x</sub>												
Part	A		С	D	Е	F	G	Н	ी	J	K	L	M	N	0
		M.													
Comparison   Com	M List / Colour o	distinct form	ulas (B1C1)		A		h	Lat.	A	0	0.1	Man	D.,	Tabel	Check
5 A	List / Colou	ır Data Valid	lation Formu	las <sup>viar</sup>	Apr	IVIay	Jun	Jul	Aug	Sep	Uct	Nov	Dec	Lotal	Check
	S India corrup			760	484	367	849	575	233	977	135	941	407	6807	
7		et08[1]													
9   Averaging   94   567   191   700   325   343   758   374   900   648   445   911   8255   10   711   10   10   10   10   10   1		381	967								387	964			
Output   Dept															
Total   2856   3381   2050   7277   3464   3986   2381   3771   4145   3124   3489   3178   33930															
Dept B     Dept B   Dept B     Dept B     Dept B     Dept B     Dept B     Dept B   Dept B     Dept B     Dept B     Dept B     Dept B     Dept B   Dept B     Dept B     Dept B     Dept B     Dept B     Dept B   Dept B     Dept B     Dept B     Dept B     Dept B     Dept B   Dept B     Dept B     Dept B     Dept B     Dept B     Dept B   Dept B     Dept B     Dept B     Dept B     Dept B     Dept B   Dept B     Dept B     Dept B     Dept B     Dept B     Dept B   Dept B     Dept B     Dept B     Dept B     Dept B     Dept B   Dept B     Dept B     Dept B     Dept B     Dept B     Dept B   Dept B     Dept B     Dept B     Dept B     Dept B     Dept B   Dept B     Dept B     Dept B     Dept B     Dept B     Dept B   Dept B     Dept B															3304
Dept B   Bags		2656	3381	2050	2/2/	3464	3996	2381	3711	4145	3124	3489	31/9	38303	33041
Bays   94   608   932   76   77   288   753   618   240   977   573   658   240   977   575   657   258   258   278   971   894   877   876   677   677   677   677   777															
Section   Sect		394	608	392	76	77	268	753	616	240	871	153	408	4703	
Total   1877   1845   1591   1207   1831   1865   1743   2503   959   1591   981   192   7074															
Dept C															
Dept C   C   Cabeles   398   172   471   524   803   242   422   218   431   859   184   885   518     Capashors   O   881   550   581   547   28   616   224   251   251   251   251   251     Capashors   O   881   550   581   547   28   616   224   251   251   251   251   251   251     Capashors   O   881   550   581   547   28   616   224   251   251   251   251   251   251     Capashors   O   881   550   581   547   28   616   224   251		1677	1845	1591	1207	1631	865	1743	2503	959	1951	581	1102	17074	3414
0 Cabeles 388 172 471 924 803 242 422 219 431 859 184 985 516 Capacitors 0 861 550 581 547 28 616 224 251 476 500 935 552 22 22 22 22 22 22 22 22 22 22 22 2															_
Capacitors   0   881   550   581   547   28   616   224   251   476   500   982   482   476		200	172	471	924	802	242	422	219	421	QEQ	19.4	999	6114	
2 Casarties 948 643 697 94 920 189 933 75 950 259 494 428 4750 201 645 6751 189 220 21 686 6751 189 221 686 6751 189 221 686 6755 189 622 514 971 573 976 792 115 223 268 905 791 675 675 675 686 104 399 642 555 264 189 221 586 6855 180 677 868 6104 399 642 556 264 189 221 577 10741 2860 1976 1976 198 126 306 419 923 474 79 78 3939 189 189 189 189 189 189 189 189 189 18															
2   Ceramics   555   518   622   514   971   573   976   792   115   223   228   306   779     Chamical agent   527   456   259   827   833   832   885   831   234   409   321   586   5855     Chiphoard   927   150   853   150   767   888   104   339   642   553   244   162   78846     Computer supil   46   328   805   150   174   109   126   306   418   823   474   79   3393     Total   2801   912   4257   3390   4515   2901   3453   2118   2502   3702   2183   3532   39422															
5 Chiphocard 927 150 883 160 767 988 104 339 642 553 264 162 8393 87   Computer suppli 46 328 805 150 174 109 126 306 419 923 474 79 3393 87   Total 2801 3128 4257 3350 4515 2301 3453 218 2502 3702 3163 3532 3342   Dept D Disc 70 558 518 173 680 636 340 353 196 915 687 676 5718   Cliscos 779 311 787 349 738 785 657 247 870 61 681 71 6846   Cliscos 779 311 787 349 738 785 657 247 870 61 681 71 6846   Cliscos 779 311 787 349 738 785 657 247 870 61 681 71 6846   Cliscos 779 311 787 349 738 785 657 247 870 61 681 71 6846   Cliscos 779 311 787 349 738 785 657 247 870 61 681 71 6846   Cliscos 779 31 787 349 738 785 657 247 870 61 681 71 6846   Cliscos 779 31 787 349 738 795 657 445 281 221 743 112 657 5239   Cliscos 779 31 787 349 738 795 657 185 419 231 743 112 657 5239   Cliscos 779 31 787 349 738 795 657 185 419 231 743 112 657 5239   Cliscos 779 31 787 349 778 185 185 419 231 743 112 657 5239   Cliscos 779 31 787 349 778 185 185 419 231 743 112 657 5239   Cliscos 779 31 787 349 952 6449 101 175 507 430 237 475 568 903 61 81   Cliscos 787 349 952 6449 101 175 507 430 237 475 568 903 61 81   Cliscos 787 349 952 6449 101 175 507 430 237 475 568 903 61 81   Cliscos 787 349 952 6449 101 175 507 430 237 475 568 903 61 81   Cliscos 787 349 952 6449 101 175 507 430 237 475 568 903 61 81   Cliscos 787 349 952 6449 101 175 607 430 237 475 658 903 61 81   Cliscos 787 349 952 6449 101 175 607 430 237 475 658 903 61 81   Cliscos 787 349 952 6449 101 175 607 430 237 475 658 903 161   Cliscos 787 349 952 6449 101 175 607 430 237 475 658 903 161   Cliscos 787 349 952 6449 101 175 607 430 237 477 658 958 958 958 958 958 958 958 958 958 9	3 Ceramics	555	618	622	514	971	573	976	792	115	223	926	306	7191	
Computer supplied   48   328   805   150   174   109   128   306   419   323   474   79   3333   3442   3474   3484   3															
Total															
Dept D   Dies   70   558   518   179   690   636   340   353   138   915   687   676   5719   2   10   10   10   10   10   12   15   10   10   10   10   12   15   10   10   10   10   12   10   10   10															3942
Section   Page		2801	3128	4207	3300	4515	2901	3453	2118	2502	3702	3163	3532	39422	3942
Dies   70   588   518   179   630   636   340   353   196   815   687   676   771   816   817   818   817   818															
Diggers   952   277   768   861   866   139   424   612   152   866   370   64   677												771		A.C.	
Discription   September   Se												687	676	5718	
Doors															
Second Part															
Oracle															
Dept E															3702
Semilor															
Head															-
Second Content	6 Expenses	203	949	497	964	660	18	586	660	64	687	468	311	6067	
Section   Pactor														4452	
Pater   Pate		4502	5273	4402	4484	3488	3281	4102	2960	3581	4951	2864	2628		9390
10															
22		755	116	680	408	100	459	622	336	827	202	406	349	5287	
September   Sept															
Injust Constant Light Green Light Turquois Pale yellow Pale Lineander   701   422   735   792   583	3 Fastenings		Us	sage \ Ty	ype Num	ber C		Text	Logical		767		820		
Files   File					tant Whi										
					tant Light G				ale lavende						
Floor polish   H7			term	input Form											
Second Columbia   Second Col															
Fluid mixing   704   988   272   638   890   295   23   610   680   893   631   81   6837     Foam plastic   515   801   694   49   386   66   240   821   199   966   42   13   4732     Footwear   436   796   632   507   680   616   171   24   261   954   555   939   6571     Foatwear   436   796   632   507   680   616   171   24   261   954   555   939   6571     Foatwear   436   796   632   507   680   616   171   24   261   954   655   939   6571     Franking   698   254   430   977   368   375   336   621   264   979   631   132   6051     Fuel   91   88   615   156   149   466   128   550   434   349   85   444   3554     Fumishing   333   742   198   242   558   900   750   569   526   898   802   930   7438     Fumishing   7177   7048   7177   7048   7077   7075   7075   7075   7075   7076   7076     Grand total   22933   16965   23952   23734   25996   20515   20774   23163   21156   2318   2477   20964   269841   7076   7076   7076   7076   7076   70776   70776   70776   70776   70776   70777			E												
Foamplastic   515 801 634 49 386 68 240 821 199 966 42 13 4782			968				295		610						
Fortune telling			801	694	49	386	66		821	199	966	42	13		
Franking 686 254 430 977 366 375 336 621 264 979 631 132 605   Fuel 91 88 615 156 149 466 128 550 434 349 85 444 3554 6 Furnishings 333 742 198 242 558 900 750 569 526 888 802 930 7438   7 Total 7177 6986 7730 8466 6890 858 7075 10374 6914 7676 93046   8 Grand total 2233 16965 2385 23734 25996 20515 20774 23163 21156 20318 2471 20864 236841 5   Grand total 64666   Grand total 646666   Grand total 6466666   Grand total 646666   Grand total 646666   Grand total 6466666   Grand total 646666   Grand total 646666   Grand total 6466666   Grand total 646666   Grand total 646666   Grand total 6466666   Grand total 646666   Grand total 6466															
Fuel   91   88   615   156   148   466   128   550   434   349   85   444   3554															
Bard															
77 Total 7177 6886 7730 8466 6950 6640 8588 7075 10974 6914 7676 93046 83 39 Grand total 22933 16965 23852 23734 25996 20515 20774 23163 21158 28318 2471 20964 230614 70 Grand total 6466 228881 5															
38 39 30 Grand total 22933 16965 23852 23734 25996 20515 20774 23163 21156 28319 21471 20964 230614 30 Grand total check 289841 5			142												
29 <b>Grand total</b> 22933 16965 23852 23734 25996 20515 20774 23163 21156 28318 21471 20964 230614 2006						0.00					10017	9911	,,,,,	30070	
	9 Grand total	22933	16965	23852	23734	25996	20515	20774	23163	21156	28318	21471	20964		
												Grand tota	check	269841	527793.

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	·

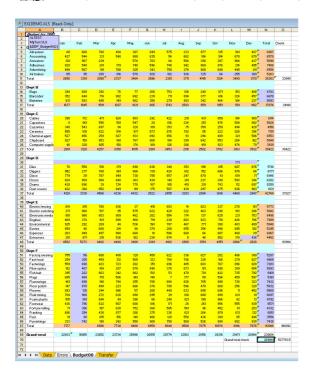
# **Colorize by Precedents / Dependents**

Key to Prec/Depd
This sheet only
This workbook only
This sheet + book
External workbook
This sheet + Ext.
This book + Ext.
Sheet, book, Ext.

954 452 979 349 888 10974	555 81 631 85 802 6914	939 203 132 444 930 7676	6051 3554 7438	186092
28318	21471	20964	230614	
	Grand tota	l check	269841	527793.5

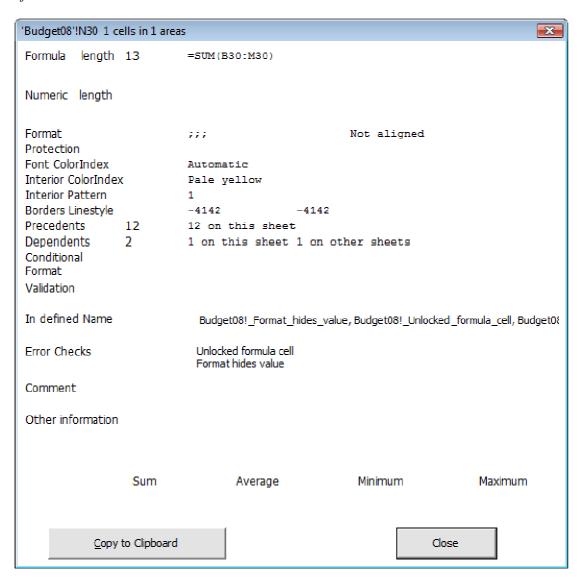
		Α	В	С	D	E	F	G
	1	Туре	Name	Count	Areas	Ranges		
	2		AllInputs	859	<u>30</u>	A1:O4,A5:	K10,M5:M1	10,O5:
	3	0	BlankInputs	267	<u>27</u>	B1:01,A2:	O2,A3,B4:0	04,E7
ı	4	5	NumericInputs	516	<u>15</u>	B5:K6,F7:I	K7,B7:D10,	E8:K1
ı	5	8	TextInputs	76	<u>10</u>	A1,B3:03,	A4:A11,A1	3:A17,
	6		•					

MyTest.XLS							
	Α	В	С	D	E	F	G
1	No.	Dependents in 'Budget08'	Count	First use	External		
2	1	1	185	<u>B3</u>	0		
3	2	4	523	<u>B5</u>	0		
4	3	2	87	<u>N5</u>	0		
5	4	3	72	B10	0		
6							
7	Туре	Name	Count	Areas	Ranges		
8		AllInputs	859	30	A1:04,A5	:K10,M5:M	10,05:
9	0	BlankInputs	267	<u>27</u>	B1:01,A2	:02,A3,B4:	O4,E7
10	5	NumericInputs	516	<u>15</u>	B5:K6,F7	:K7,B7:D10	,E8:K1
11	8	TextInputs	76	10	A1,B3:03	,A4:A11,A1	13:A17,
12		·					



# **Show Watch info**

Information on current selection

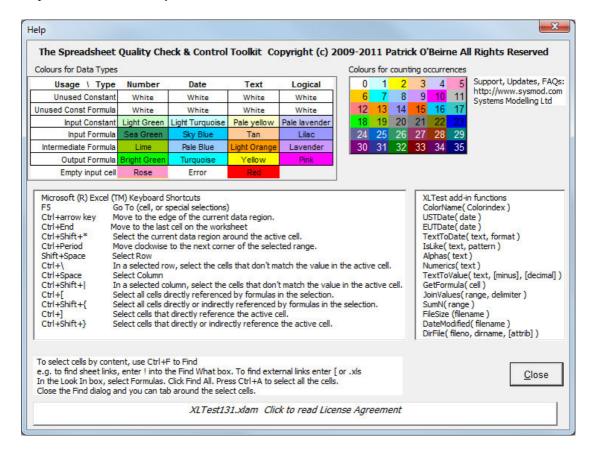


It gives you a convenient summary of the cell without having to dig through menus to find all the settings that apply to it.

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.

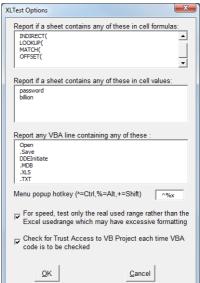
# Help / About XLTest

Help on colours and keyboard shortcuts



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.

**XLTest Options** allow you to specify what it looks for:



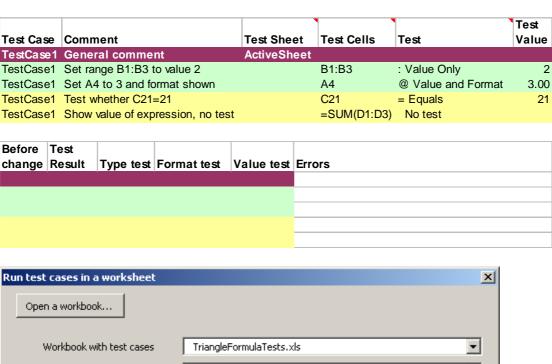
### **Batch Auto-test process**

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 file name.

### 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**



# Workbook with test cases Worksheet with test cases Workbook to run tests on Default worksheet if not specified OK TriangleFormulaTests.xls TriangleFormulaTests.xls TriangleFormulaTests.xls Cancel

### **Tests to Scenarios**

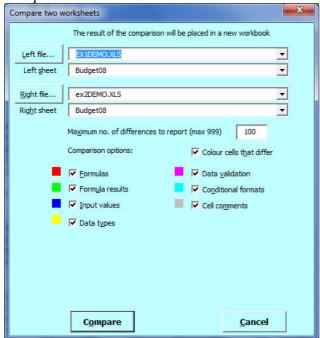
Convert XLTest cases worksheet to Scenarios

### **Scenarios to Tests**

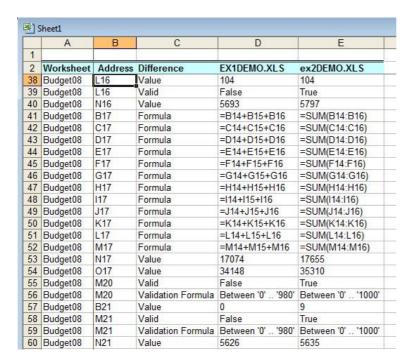
Convert Excel Scenarios to XLTest case worksheet

# **Compare worksheets**

Compare two worksheets

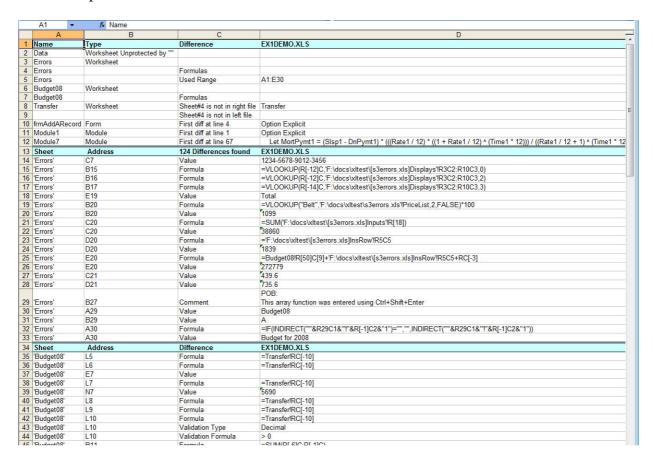


It creates a new workbook with a sheet named \$WSC that shows the differences:

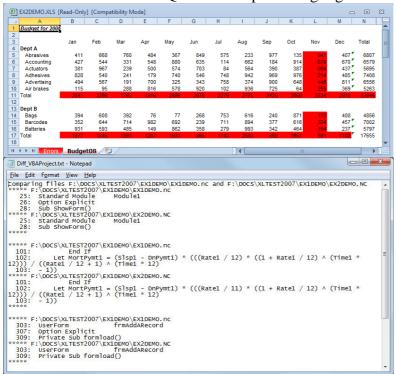


## **Compare workbooks**

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



In version 1.31 there is a Quick Diff report to highlight differences between versions:



The 'Utilities' menu has the options

- 1. Save Copy As...
- 2. Add \$TOC, ReadMe, Palette
- 3. Reset Text To Columns settings
- 4. Unprotect sheet
- 5. Unprotect workbook
- 6. Delete <u>Unused Number Formats</u>
- 7. Export all VBComponents
- 8. <u>Import all VBComponents</u>
- 9. Toggle R1C1/A1
- 10. Properties <u>D</u>ialog
- 11. Reset Excel status

Save Copy  $\underline{A}s...$  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.

Screenshot of \$TOC (Table of Contents) sheet:

	A1	▼ fx	Sheet			
	A B C		D	E	F	
1	Sheet	Туре	Sheet Tab Name	Visibility	Contents	Sum Total
2	1	Worksheet	\$TOC(1)	Visible		
					Read me first to understand this	
3	2	Worksheet	\$Readme	Visible	spreadsheet	0
4	3	Worksheet	Palette	Visible	Standard Excel Colour Palette	971441056
5	4	Worksheet	<u>Data</u>	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	<u>Transfer</u>	Visible	November 2008	63832
Q						

The 'Shortcut Keys' menu has the options:

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

Note that the numbers are actually the shortcut keys you can press with Ctrl+Alt, and currently 4 and 9 are not used. XLTest also adds the Key Shortcuts options to the end of the cell context pop-up menu that appears when you right-click on a cell.

# **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	=lsLike("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")	

# **Book: Spreadsheet Check and Control**

47 key practices to detect and prevent errors Patrick O'Beirne, 2005, ISBN 190540400X Systems Publishing, Tara Hill, Gorey, Co. Wexford, Ireland