The Special Uses of Go To Special in Excel- By Joseph Helstrom, CPA

Hidden on the Home ribbon in Microsoft Excel, within the Find & Select Button, is an Excel feature that has some very special and generally unknown uses for the CPA. The feature is Go To Special. It's the fourth option on the list when the Find & Select button is clicked.



When you click Go To Special, there are a myriad of options presented. These options permit you to easily find and select cells that contain specific types of data or find and select cells that meet specific criteria. Only the most useful of these options to the CPA will be covered in this article. However, you may wish to explore the other options as well.

Identifying Errors in a Worksheet

When working with large Excel worksheets, there are times when you quickly want to find certain things. One of those is errors. Go To Special allows you to identify error values in cells very quickly.

Assume the following data in an Excel worksheet. The results in column C are simply dividing cells in column B by the corresponding cells in column A. There are two errors in the data since the formula is attempting to divide by zero.

	٨	P	C
	A	D	<u> </u>
1	0	1	#DIV/0!
2	1	2	2
3	2	3	1.5
4	3	4	1.33333333
5	0	5	#DIV/0!
6	1	6	6
7	2	7	3.5
8	3	8	2.66666667
9			

To find these errors, select the range A1:C8 and on the Home ribbon, click the button for Find & Select, then click Go To Special.

Go To Special	? ×		
Select			
Comments	○ Ro <u>w</u> differences		
Constants	Column differences		
O <u>F</u> ormulas	<u>Precedents</u>		
Numbers	Dependents		
🗹 Text	Oirect only		
Logicals	All levels		
Errors	🔘 La <u>s</u> t cell		
🔘 Blan <u>k</u> s	Visible cells only		
Current region	Conditional formats		
Current <u>a</u> rray	O Data validation		
Objects	IIA (
	Same		
	OK Cancel		

Click the radio button for Formulas and uncheck everything except Errors as shown below.

Go To Special	? ×
Select	
O Comments	Row differences
Constants	Column differences
Eormulas	<u>Precedents</u>
N <u>u</u> mbers	Dependents
Te <u>x</u> t	Direct only
Logicals	 All levels
Errors	🔿 La <u>s</u> t cell
🔘 Blan <u>k</u> s	○ Visible cells only
O Current region	Conditional formats
Current <u>a</u> rray	O Data validation
Objects	IIA 🔘
	Same
	OK Cancel

Now, the two error values are highlighted with a box. Use the Tab key to toggle through the list of error values. This is especially important in a large worksheet. The Tab key will cycle through all the errors until you click on a cell within the worksheet.

	А	В	С
1	0	1	#DIV/0!
2	1	2	2
3	2	3	1.5
4	3	4	1.33333333
5	0	5	#DIV/0!
6	1	6	6
7	2	7	3.5
8	3	8	2.66666667

Finding Blank Cells

When working with large worksheets or importing data to an Excel worksheet, it's useful to know where there are blanks in cells. Go To Special is also useful in identifying blanks. Using the data below, Go To Special may be used to identify blank cells in the same manner as described above.

	А	В	С	D	E	F	
1	1	2		3		4	

First, select the area to be searched. In this case, select A1:F1. Then, click on Find & Select, then Go To Special.

Go To Special	? ×
Select	
O Comments	O Ro <u>w</u> differences
Constants	Column differences
O <u>F</u> ormulas	Precedents
✓ Numbers	Dependents
🗹 Text	Direct only
Logicals	All levels
Errors	O La <u>s</u> t cell
Blanks	○ Visible cells only
Current <u>r</u> egion	Conditional formats
Current <u>a</u> rray	O Data validation
O <u>Obj</u> ects	All
	Same
	OK Cancel

Select the radio button for Blanks and click OK.

The two blank cells in the worksheet are now highlighted and you may use the Tab key once again to toggle through them.

	Α	В	С	D	E	F
1	1	2		3		4

This is a much easier and more exact method of identifying blanks in the worksheet than scanning the data. To exit, select any cell in the worksheet.

Finding Cells that Contain Formulas

Similar to the above examples, you can also use Go To Special to find those cells that contain formulas. This is especially useful if you are auditing a worksheet created by someone else. You can specify the type of formula that you wish to locate. The options are numbers, text, logical or error. We have already used the error option to locate those formulas that only contain an error. Other options identify those formulas that are numeric (=A1*B1), text (=len(A1)), or logical (=if(A1>0,"True", "False")).

Using the example, below, the focus will be on simply identifying all cells that contain a formula. The example multiplies the results in column A by the results in column B using column C, then sums the products obtained in column C. Multiplication formulas exist in C1:C3 and there is a Sum formula in C4.

	А	В	С
1	1	10	10
2	2	20	40
3	3	30	90
4			140

Using Go To Special, let's identify all the formulas in this worksheet for further review.

First, select the area to be searched. In this case, select A1:C4. Then, click on Find & Select, then Go To Special. Click on the Formulas radio button and leave all option boxes checked.

	А	В	С	D	E	F	G	Н
1	1	10	10	Go To S	pecial			? X
2	2	20	40					
3	3	30	90	Select				
4			140	() <u>C</u> or	nments	0	Ro <u>w</u> differe	nces
5				○ C <u>o</u> r	nstants	0	Colu <u>m</u> n diff	erences
6				Eor	mulas	0	Precedents	
7					N <u>u</u> mbers	0	Dependent:	5
8					Te <u>x</u> t		Oirect or	nly
0					Lo <u>q</u> icals		O All levels	;
10					<u>E</u> rrors	0	La <u>s</u> t cell	
10				🚽 🔿 Blai	n <u>k</u> s	0	Visible cells	only
11				Cur	rent <u>r</u> egion	0	Condi <u>t</u> ional	formats
12				Cur	rent <u>a</u> rray	0	Data <u>v</u> alidat	tion
13				O <u>obj</u>	ects		IIA 🔘	
14							Same	
15								
16						(DK	Cancel
17								

Click OK.

C1	L	• :	×	* =+A1	*B1
	А	В	С	D	E
1	1	10	10		
2	2	20	40		
3	3	30	90		
4			140		

C1:C4 is highlighted which identifies the cells that contain a formula. You know which cells may require further review.

Finding Formula Precedents and Dependents

What's a formula precedent? These are the cells that are used by the formula to arrive at the result. Seeing the cells that are used in formulas is a handy review tool. In complex spreadsheets, cell references may be off by just one cell, which will certainly alter the resulting calculations.

As an example, we know that the formulas in cells C1:C3 are simply =A1*B1, =A2*B2 and =A3*B3. Select cell C1 and use Go To Special to identify the cell precedents.

C1		• : :	$\times \checkmark f_x$	=+A1*B1	
	А	В	С	D E	F G H
1	1	10	10	Go To Special	? ×
2	2	20	40	Select	
3	3	30	90	Comments	O Powr differencer
4			140	Constants	Column differences
5				O Formulas	Precedents
6				Numbers	
7				✓ Text	Direct only
8				Logicals	○ All <u>l</u> evels
9				Errors	C Last cell
10				🔿 Blan <u>k</u> s	○ Visible cells only
11				Current <u>r</u> egion	Conditional formats
12				 Current <u>a</u>rray 	O Data <u>v</u> alidation
13				O <u>D</u> jects	III (
14					🔘 Same
15					
16					OK Cancel
17					

Note that, in this case, we're only searching for the Direct precedents. That is evident by the radio button two steps down that says "Direct only". The radio buttons for "Direct only" and "All levels" relate to both identifying precedents and dependents (It's a little confusing). Click OK.

	Α	В	С
1	1	10	10
2	2	20	10
3	3	30	90
4			140

The cells that are used by the formula, A1 and B1 are now identified and highlighted as the direct precedents of the formula in cell C1.

C4		· ÷ ×	$\checkmark f_x$	=SUM(C1:C3)	
	A	в	С	D E	F G H
1	1	10	10	Go To Special	? ×
2	2	20	40	Salact	
3	3	30	90	O Commonto	
4			140	Comments	Column differences
5				Constants	Column differences
6				Numbers	
7				Numbers	Direct only
8					
9					
10				O Blanks	\bigcirc Visible cells only
11				Current region	Conditional formats
12				Current array	O Data validation
13				O Objects	
14					◯ Same
15					
16					OK Cancel
4.7					

Choose cell C4. This cell sums the results of C1:C3. Find the direct precedents.

Click OK.

	А	В	С
1	1	10	10
2	2	20	40
3	3	30	90
4			140

Cells C1:C3 are identified as the direct precedents. These are the cells that are in the sum formula.

Select cell C4 again. Use Go To Special to find the formula precedents. However, this time, select the radio button for "All levels".

	А	В	С	D E	F G H
1	1	10	10	Go To Special	? ×
2 3	2	20 30	40 90	Select	
4			140	Constants	Column differences
5				O Formulas	Precedents
6				✓ Numbers	O Dependents
7				🗹 Text	O Direct only
8				Logicals	All levels
9				Errors	◯ La <u>s</u> t cell
10				O Blan <u>k</u> s	○ Visible cells only
11				Current region	Conditional formats
12				Current <u>a</u> rray	O Data <u>v</u> alidation
13				Objects	 All
14					⊖ Same
15					OK Cancel
16					Cancer

	А	В	С
1	1	10	10
2	2	20	40
3	3	30	90
4			140

It selected all the cells, since they feed into the sum calculation. The calculation is the result of a formula in column C in which column A is multiplied by column B. All amounts are indirectly used by the sum formula.

The identification of formula precedents is an important aspect of reviewing your own worksheets and those created by others. It affords you the ability to visually identify the cells that are used by a formula, both directly and indirectly, and easily review whether they make sense.

Now that we've covered precedents, what's a dependent? It's the formula that uses the particular piece of data. Here's an example using the same data.

Click on cell A1. Use Go To Special and select the Dependents radio button. Leave the radio button beneath it on "Direct only".

	А	В	С	D	E	F	G	Н
1	1	10	10	Go To Sp	ecial	-	?	×
2	2	20	40					
3	3	30	90	Select				
4			140	0 <u>C</u> om	ments	0	Ro <u>w</u> differen	ices
5				Con:	stants	\bigcirc	Colu <u>m</u> n diffe	rences
6				O <u>F</u> orm	nulas	0	Precedents	
7				N	lumbers	\odot	<u>D</u> ependents	
8				🗹 Т	ext		Direct on	ly
o o				🗹 L	ogicals.		All <u>levels</u>	
10				🗹 E	Errors	\bigcirc	La <u>s</u> t cell	
10				🔵 Blan	<u>k</u> s	\bigcirc	Visible cells o	only
11				O Curr	ent <u>r</u> egion	\bigcirc	Condi <u>t</u> ional f	formats
12				O Curr	ent <u>a</u> rray	0	Data <u>v</u> alidati	on
13				O Obje	ects		IIA 🔘	
14							Same	
15								
16						0	К	Cancel
17								

C1		•	\times	√ _ f;	r.	=+A1	*B1
	А	В		С		D	E
1	1	1	10	10			
2	2		20	40			
3	3	:	30	90			
4				140			

So, cell A1 is directly used by a formula in cell C1. That formula is =A1*B1.

Where is it used indirectly?

Select A1 again. Use Go To Special. This time, select Dependents and select the radio button for "All levels" beneath it.

Click OK.

	А	В	С
1	1	10	10
2	2	20	40
3	3	30	90
4			140

Cell A1 is used directly in cell C1, but is also used indirectly by cell C4 because it is a part of the overall summation of the data.

Like formula precedents, the ability to visually identify which formulas are utilized by specific cells is an important review tool. You can also select ranges of cells to identify which formula(s) is/are used by the selected range.

Finding Constants

I import a lot of data into Excel. As a result, my data is not always neatly organized into one column. Sometimes, it's in multiple columns separated by lots and lots of blank cells. My task is to copy the data into one column and eliminate the blanks as efficiently as possible.

Go To Special works for this task.

Us the following data.

	А	В	С
1	Α	E	
2	В		G
3	С	F	
4	D		Н
5			

The goal is to have all the data organized in column A. How can Go To Special help?

Select B1:B4. Use Go To Special and select the radio button for constants.

	А	В	с	D	E	F	G	н
1 A	۹.	E		Go To Spec	cial		?	×
2 E	3		G					
3 0	2	F		Select		_		
4 0)		н	Comm	ents		w difference	es
5				Constant	ants	○ Co	lu <u>m</u> n differe	nces
6				O <u>F</u> ormu	las	0 <u>P</u> re	ecedents	
7				<mark>∕ N</mark> u	mbers	0 <u>D</u> e	pendents	
8				🗹 Te <u>x</u>	<u>a</u> t	۲	Direct only	
0				🗹 Log	gicals	0	All levels	
10				<mark>∕ E</mark> rr	ors	🔿 Lag	<u>s</u> t cell	
10				◯ Blan <u>k</u> s	;	🔘 Vis	sible cells on	ly
11				O Currer	nt <u>r</u> egion	○ Co	ndi <u>t</u> ional fo	rmats
12				O Currer	nt <u>a</u> rray	🔵 Da	ita <u>v</u> alidation	n
13				O <u>O bj</u> ect	ts	۲	All	
14						0	Same	
15								
16						OK	c	ancel
17								

	А	В	С
1	Α	E	
2	В		G
3	С	F	
4	D		Н

Only the cells with data, B1 and B3 have been selected. Hover over either B1 or B3, right click and select Copy. It is important to hover over one of these cells. If you don't, another cell will be selected and negate the operation.

3	C	F					
4	D D		Ж	Cu <u>t</u>			
-+ 5	0		Ē	Сору		-	
6			÷.	Paste Ontions		-	
7				(A)		-	
· ·						-	
8				Paste Special			
9				Paste <u>Special</u>			



	А	В	С
1	Α	E	
2	В		G
3	С	F	
4	D		Н
5	E		
6	F		

The results in column B are now pasted into column A without blanks. This may be repeated for column C to have all the data in one column without copying the blanks.

When you are faced with a great deal of data, this technique can save a lot of time.

Another great use of the Constants feature of Go To Special is the ability to delete data from the worksheet while keeping the formulas. Constants are any non-formula in a worksheet. So, you can select the entire worksheet, select Go To Special, then click the radio button for Constants. Now, all of the data (non-formula cells) have been selected. Simply press delete. All the data has been deleted and all formulas have been preserved. The worksheet may now be repurposed for another use.

Visible Cells Only

Some worksheets have hidden rows and columns. What happens if you want to copy and paste worksheet contents and don't want the hidden rows and columns? You can copy and paste it, then delete that which was hidden. There's also another way.

Select the area that you want to copy. Then select Go To Special and select the option for Visible cells only.

After clicking OK, copy the selection and paste it to another worksheet or workbook. Only the visible portion of the worksheet will be copied.

<u>Summary</u>

Go To Special allows the CPA to easily find and select cells that contain specific types of data or find and select cells that meet specific criteria. Just some of its uses are detailed in this article. When working with large worksheets, many of these tools are essential not only for productivity, but also to properly review the worksheet to ensure that it is functioning as designed.