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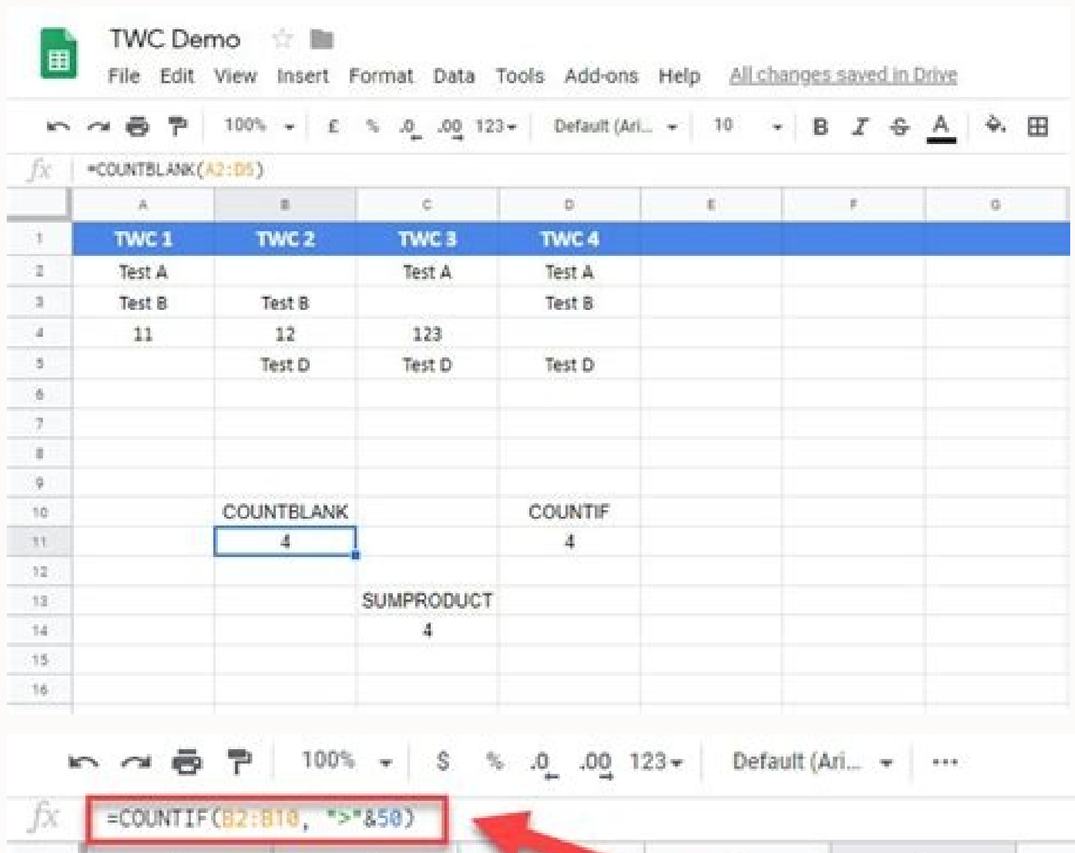
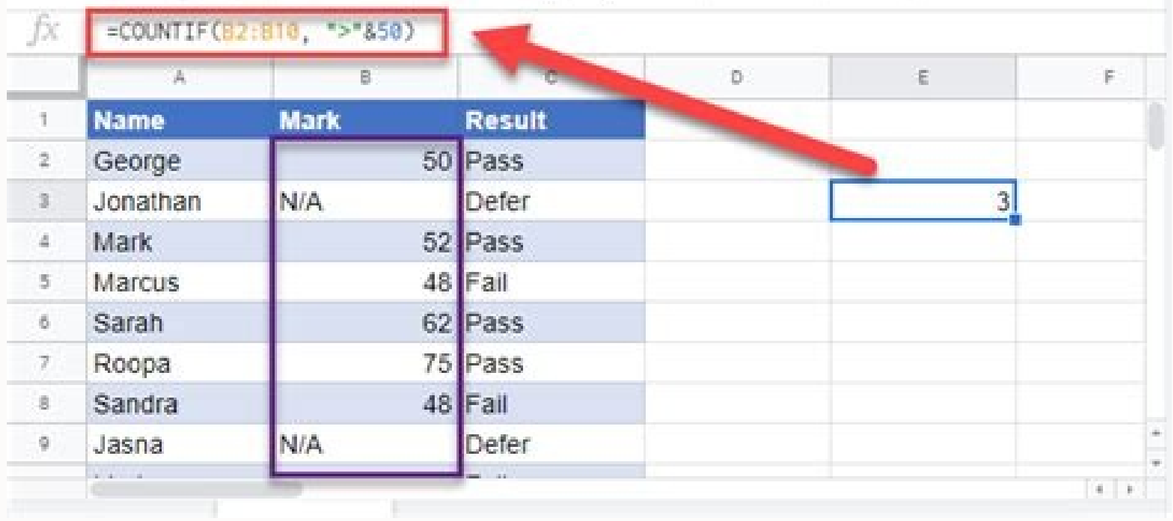
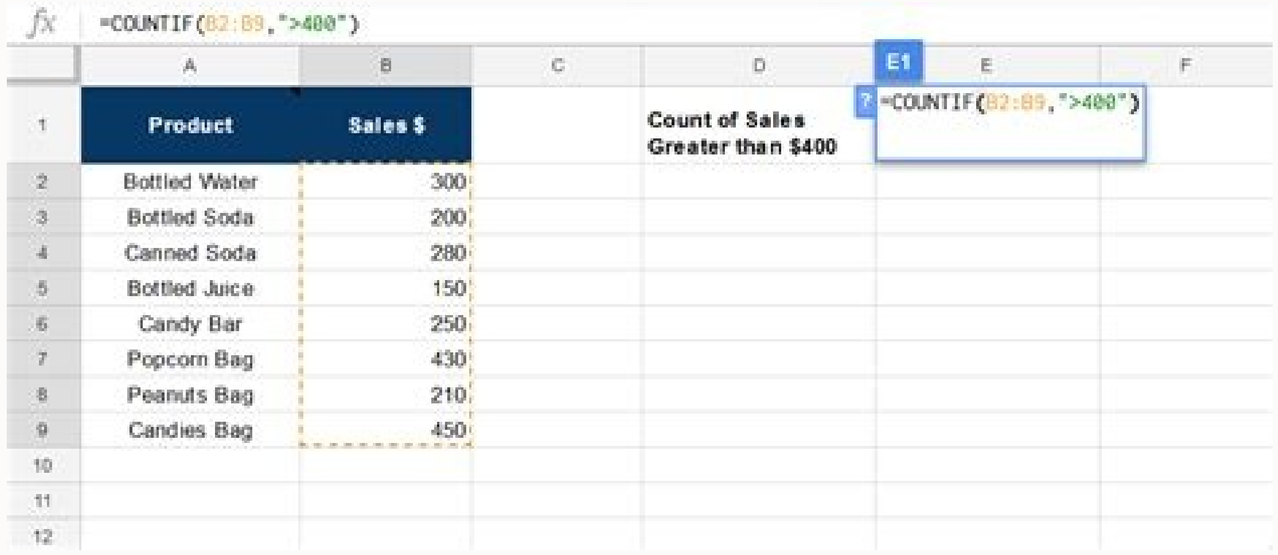
Count if cell not empty google sheets









Regard formulas that return nothing to be blank and space characters to also be blank The formula above in cell C16 counts only non-empty values, it considers formulas that return nothing to be blank and space characters to also be blank. Excel can also highlight empty cells using Conditional formatting. Column D shows what they actually contain and column E shows the character length of the content. ArrayFormula will resolve to the following range: {True,True,False,True,False}. Count not blank cells - COUNTA function The COUNTA function is even easier to use, you don't need to enter more than the cell range in one argument. The COUNTA function is designed to count non-empty cells. This is made possible by the TRIM function that removes leading and ending space characters. In other words, cells that are not empty. Back to top 4. C3:C13"" returns {TRUE; TRUE; FALSE; TRUE; TRUE; TRUE; FALSE; TRUE; TRUE; TRUE} Step 2 - Convert boolean values The SUMPRODUCT function can't sum boolean values, we need to multiply with one to create an array containing 0's (zero) and 1's. Array formulas are great but if possible avoid as much as you can. SUMPRODUCT((C3:C13"")*1) becomes SUMPRODUCT({1; 1; 0; 1; 1; 1; 0; 1; 1; 1}) and returns 9 in cell B16. So imagine we have this data and we want the Count of non-blanks in B2:B6: | | A | B | C | |---|---|---|---| | 1 | Description | Value | B1"" | | 2 | Text | H | TRUE | | 3 | Number | 1 | TRUE | | 4 | IF -> "" | | FALSE | | 5 | IF -> Text | h | TRUE | | 6 | Blank | | FALSE | If we relied on Column C, we could get the count of values in B like this: =COUNTIF(C2:C6,True) Step 2: Use FormulaArray to dynamically create Extra Column However, consideRatio's comment is a valid one - if you need an extra column, you can often accomplish the same goal with an ArrayFormula which can create a column in memory without eating up sheet space. The SUMPRODUCT function can perform calculations in the arguments without the need to enter the formula as an array formula. Count not blank cells - SUMPRODUCT function The following formula counts all non-empty values in cell range C3:C13 except formulas that return nothing. The less than and the greater than characters are logical operators, the result are always boolean values. COUNTIF(range, criteria) In this case, it is "" meaning not equal to and then nothing, so the COUNTIF function counts the number of cells that are not equal to nothing. It checks if the values in cell range C3:C13 are not equal to nothing. Back to top =SUMPRODUCT((TRIM(C3:C13)"")*1) Back to top 5.1 Explaining formula in cell B16 Step 1 - Remove space characters TRIM(C3:C13) returns {"Green"; "Blue"; ""; "Red"; "Cyan"; ""; ""; "Yellow"; "Orange"; ""; "Brown"} Step 2 - Identify not blank cells TRIM(C3:C13)"" becomes {"Green"; "Blue"; ""; "Red"; "Cyan"; ""; ""; "Yellow"; "Orange"; ""; "Brown"}"" and returns {TRUE; TRUE; FALSE; TRUE; TRUE; FALSE; FALSE; TRUE; TRUE; FALSE; TRUE} Step 3 - Multiply with 1 TRIM(C3:C13)"")*1 becomes {TRUE; TRUE; FALSE; TRUE; TRUE; FALSE; FALSE; TRUE; TRUE; FALSE; TRUE}*1 and returns {1; 1; 0; 1; 1; 0; 0; 1; 1; 0; 1} Step 4 - Sum numbers in array SUMPRODUCT((TRIM(C3:C13)"")*1) becomes SUMPRODUCT({1; 1; 0; 1; 1; 0; 0; 1; 1; 0; 1}) and returns 7. I will discuss and demonstrate the limitations of using the COUNTIF function and other equivalent functions that you also can use. =CountIf(ArrayFormula(range""),TRUE) The answer by eniacAvenger will yield the correct solution without worrying about edge cases as =A1"" seems to arrive at the correct truthy/falsy value based on how we intuitively think of blank cells, either virgin blanks or created blanks. Count not blank cells - COUNTIF function Column B above has a few blank cells, they are in fact completely empty. There are blank cells in column C, shown in the picture above, that look empty but they are not. Cell C5 and C9 contain a formula that returns a blank, both the COUNTIF and the COUNTA function count those cells as non-empty. COUNTIF and COUNTA function return unexpected results There are, however, situations where the COUNTIF and COUNTA function return unexpected results if you are not aware of how they work. Back to top 5. So we can wrap CountIf around the values produced by ArrayFormula like this: =CountIf(ArrayFormula(B2:B6""),TRUE) Further Reading The other solutions in this thread are either overly complex, or fail in particular edge cases that I've enumerated in this test sheet: Google Spreadsheet - CountA Test - Demo For why CountA works the wonky way it does, see my answer here Author: Oscar Cronquist Article last updated on September 02, 2021 The COUNTIF function is very capable of counting non-empty values, I will show you how in this article. Formula in cell B16: =SUMPRODUCT((C3:C13"")*1) Back to top 4.1 Explaining formula in cell B16 Step 1 - Check if cells are not empty In this case, the logical expression counts cells that contain space characters but not formulas that return nothing. Excel 365 users don't have this problem, dynamic array formulas are entered as regular formulas. 1. The COUNTIF and the COUNTA function count those cells as non-empty as well. CountIf just takes in any range and in this case can count the number of True values. COUNTA(value1, [value2], ...) Formula in cell D4: =COUNTA(B3:B13) Back to top 3. Formula in cell D3: =COUNTIF(B3:B13,"") The first argument in the COUNTIF function is the cell range where you want to count matching cells to a specific value, the second argument is the value you want to count. Cell C8 has two space characters and cell C12 has one space character, column E reveals their existence by counting character length. They are their numerical equivalents: True = 1 FALSE = 0 (zero) (C3:C13"")*1 becomes {TRUE; TRUE; FALSE; TRUE; TRUE; TRUE; FALSE; TRUE; TRUE; TRUE}*1 and returns {1; 1; 0; 1; 1; 1; 0; 1; 1; 1} Step 3 - Sum numbers Why use the SUMPRODUCT function and not the SUM function? So if we want to create C dynamically, we can use an array formula like this: =ArrayFormula(B2:B6"") If we simply put it in C2, it would create the vertical array with a single stroke of the pen: | | A | B | C | |---|---|---|---| | 1 | Description | Value | =ArrayFormula(B2:B6"") | | 2 | Text | H | TRUE | | 3 | Number | 1 | TRUE | | 4 | IF -> "" | | FALSE | | 5 | IF -> Text | h | TRUE | | 6 | Blank | | FALSE | Step 3: Count Values in Dynamic Column But with that solved, we no longer need the column to merely display the values. Back to top 2.

Count characters in cell/range with formulas. If only count the length of all characters in a cell, you can select a blank cell, and type this formula =LEN(A1) (A1 stands the cell you want to count letters, you can change it as you need), then press Enter button on the keyboard, the length of the letters in the cell has been counted. See screenshot: 19/10/2017 · Let's imagine that one cell in Google Sheets contains both, date and time. You want to set them apart: extract only the date to one cell and only time to another. In order to display date or time in one cell on your screen or to print it, just select the original cell, go to Format > Number and choose Date or Time .

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