



If function

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Why



If is one of the most used functions in any programming language and PowerApps is not the exception.



Test for a specific condition. You can use the If function to execute a single condition.



Common examples include:

- To test if an argument is TRUE or FALSE
- To output a NUMBER
- To output some TEXT
- To output some CALCULATION

Overview

The If function tests if the first condition is met and returns the result. You can define an optional value when all conditions are false.

So an IF statement can have two results. The first result is if your comparison is True, the second if your comparison is False.

Nested If - It's called **nested** because you're basically putting an **If** Statement inside another IF Statement and possibly repeating that process multiple times.

The Traffic Light: An Everyday IF Statement					
The frame Light fur Everyady in Statement					
	IF light is red , THEN stop!				
	IF light is yellow, THEN what???				
	IF light is green , THEN go!				

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PowerApps If Function Syntax

If(logical_test, value_if_true, [value_if_false])

There are 3 parts (arguments) to the If function:

- **logical_test** something, such as the value in a label or field.
- Specify what should happen if the test result is **true**.
- Specify what should happen if the test result is **false**.

Logical_test

Required. The value that you want to test. Formula(s) to test for true. Such formulas commonly contain comparison operators (such as <, >, and =) and test functions such as IsBlank and IsEmpty.

When using the IF function to construct a test, we can use the following logical operators:

Operator	Description
=	Equal To
<>	Not Equal To
>	Greater Than
<	Less Than
>=	Greater Than or Equal To
<=	Less Than or Equal To

value_if_true

Required. It is the value that is returned if *condition* evaluates to TRUE. The corresponding value to return for a condition that evaluates to true.

The **Value If True** argument can contain just about anything:

• A number



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- Text wrapped in double quotes "hello"
- A reference to another label or field Label# or DataCardValue#
- A formula with another IF function.
- A formula with any other combination of functions.

value_if_false

Optional. It is the value that is returned if *condition* evaluates to FALSE. The value to return if no condition evaluates to true. If you don't specify this argument, a blank is returned.



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2. Add a Label control, Click Insert, Select Text and Choose Text input.



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The IF function in Excel can be nested, when you have multiple conditions to meet. The FALSE value is being replaced by another IF function to make a further test.

You can only nest 50 If statements. Once you reach this limit, think if you're overcomplicating the overall formula. Re-evaluate the conditions and combine validations into smaller chunks.

The first common use case scenario is to determine where an input value sits within a set of ranges, or bandings. When nesting IF functions, be sure to put the maximum tests first, or the results could be incorrect.



Grades are assigned as follows:

- A Score greater than 85
- B Score between 84 and 75
- C Score between 74 and 65
- D Score between 64 and 50
- **F** Score < 50

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The English language version of your code reads something like this:

- 1. If the score is greater then 85 award an A,
- 2. If not: If the score is [not greater than 85 and] more than 75 award a B
- 3. If not: If the score is [not greater than 75 and] more than 65 award a C
- 4. If not: If the score is [not greater than 65 and] more than 50 award a D
- 5. Otherwise: award an F [Only scores less than 50 should be left]



How?

- 10. From Previous Exercise you have added a Text input control, and name it Text1.
- 11. Add a Label control, Click Insert, Select Text and Choose Text input.



If function



- 12. Set its Text property to this formula:
- 13. If(Value(Text1.Text) >=85, "A", If(Value(Text1.Text) >=75,"B", If(Value(Text1.Text) >=65,"C", If(Value(Text1.Text) >=50,"D","F"))))

	Text		~ =	$fx \vee$	If(Value(Text1 Text) >= 85
Ξ	=	Tree view		×		"A", If(
		Screens Components				Value(<u>Text1</u> .Text) >= 75,
⊗	>	✓ Search				If(
	+	Π.				Value(<i>Text1</i> .Text) >= 65,
		H App		- 11		Tf(
1	9	> BrowseScreen1		- 11		Value(<i>Text1</i> .Text) >= 50,
Ş		> DetailScreen1		- 11		"D",
	5	> EditScreen1)
	Îŧ	∨ □ Screen1		- 11		
		🗹 Label8)	,

14. Click Preview the App or pressF5 on keyboard and test out values



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