

Convert Time to Text in Excel (With Example)

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Understanding Time Values and Text Strings in Excel

Microsoft Excel treats time fundamentally as a numerical value--a fractional portion of a day--which is essential for accurate calculations such as determining duration or elapsed time. However, this numerical storage creates limitations when data needs to be exported, integrated into non-Excel systems, or combined with other textual content. When you encounter these scenarios, converting the numerical time value into a static text string becomes necessary to ensure its appearance is fixed and immutable.

The critical distinction lies in how the data is handled internally. A numerical time value (e.g., 0.5 for 12:00 PM) can change its visible format based on cell formatting rules or regional settings. Conversely, a text string (e.g., "12:00 PM") is treated as literal characters, guaranteeing consistent representation regardless of the environment. This conversion process leverages a powerful built-in function to transform the dynamic numerical representation into a static textual output.

You can use the following formula to convert a numerical time value to a text string in Excel:

```
=TEXT(A2,"h:mm AM/PM")
```

This particular formula converts the time residing in cell **A2** to a text string, formatted specifically using the 12-hour clock system, including the minutes and the meridian indicator (AM/PM). Understanding the format code ("h:mm AM/PM") is key to mastering this function.

The following comprehensive example shows how to use this formula in practice, including verification steps to confirm the successful data type transformation.

The Core Function: Mastering the TEXT Formula Syntax

The primary tool for this conversion is the **TEXT function**, which allows the user to apply a specific format to a numerical value and output the result as text. The function requires two essential arguments: the original value and the desired format mask. The syntax is always `=TEXT(Value, Format_Text)`.

The first argument, `Value`, usually points to the cell containing the numerical time (e.g., **A2**). The second argument, `Format_Text`, is a text string enclosed in quotation marks that dictates the exact structure of the final output. For instance, "h:mm" yields hours and minutes, while "hh:mm:ss" includes seconds and ensures leading zeros for hours and minutes. The choice of format code directly impacts the resulting string.

It is crucial to recognize the consequence of using the **TEXT function**: the result is a text string, not a numerical value. If subsequent calculations involving time (such as subtraction to find

duration) are required, they must be performed on the original numerical column (Column A in our example). Once converted to text, the data loses its mathematical utility regarding date and time operations within Excel.

Step-by-Step Example Setup: Preparing the Time Data

For this demonstration, we assume a practical scenario where a column of raw time inputs needs to be converted into static text for reporting. Suppose we have the following column of times entered into Column A of our worksheet. These are currently stored using the default numerical time value format.

	A	B	C	D	E
1	Time				
2	1:15 AM				
3	5:30 AM				
4	9:43 AM				
5	10:12 AM				
6	12:30 PM				
7	1:12 PM				
8	4:55 PM				
9	7:56 PM				
10	8:13 PM				
11	9:02 PM				
12	11:56 PM				
13					
14					
15					

These visible times, despite their appearance, are not yet stored as true text strings. Although they look like 12-hour times, Excel maintains their numerical integrity. Our objective is to generate a new column where these values are fixed text, regardless of any future formatting changes applied to the spreadsheet.

Before applying the conversion, it is best practice to confirm the current data type, ensuring we clearly understand the state of the data before modification. This confirmation step uses the logical **ISTEXT** function.

Verifying Data Type Before Conversion using ISTEXT

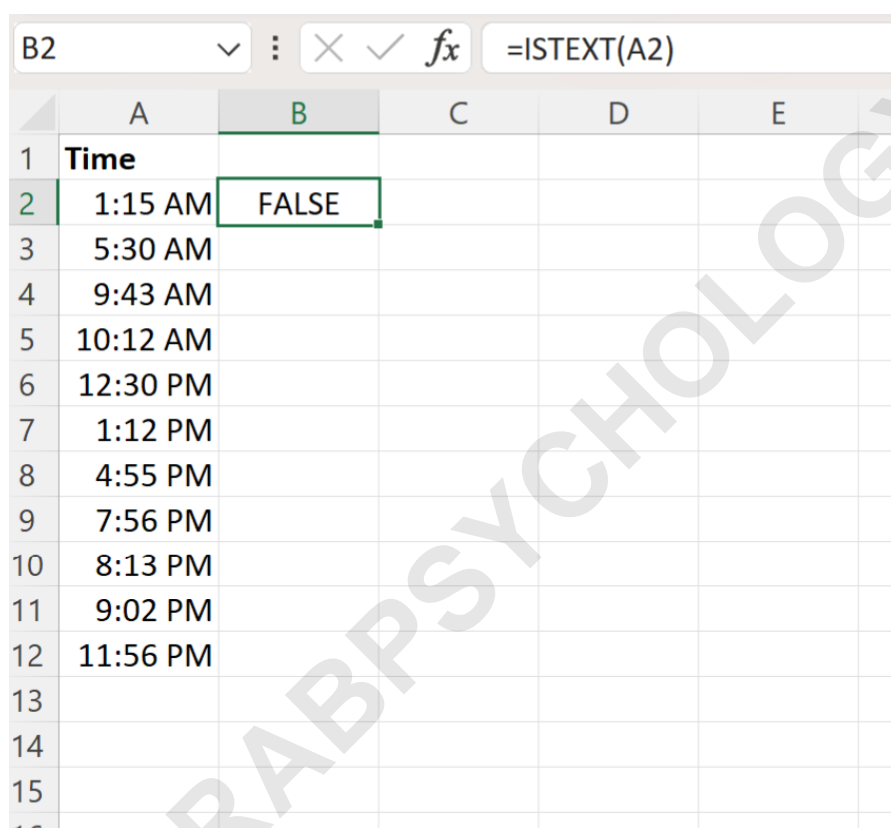
The **ISTEXT** function serves as a reliable diagnostic tool to check if a cell's content is recognized

as text. It returns **TRUE** only if the content is purely text, and **FALSE** if it is numerical, a formula result, or empty. Since our initial time data is numerical, we expect the function to return **FALSE**.

We verify this by typing the following formula into cell **B2** and dragging it down the column:

=ISTEXT(A2)

This formula returns **FALSE** for every time entry in column A, which confirms that the underlying time value is not currently recognized as text but rather as a number. This initial state validates the need for the text conversion step.



	A	B	C	D	E
1	Time				
2	1:15 AM	FALSE			
3	5:30 AM				
4	9:43 AM				
5	10:12 AM				
6	12:30 PM				
7	1:12 PM				
8	4:55 PM				
9	7:56 PM				
10	8:13 PM				
11	9:02 PM				
12	11:56 PM				
13					
14					
15					

Implementing the Time to Text Conversion

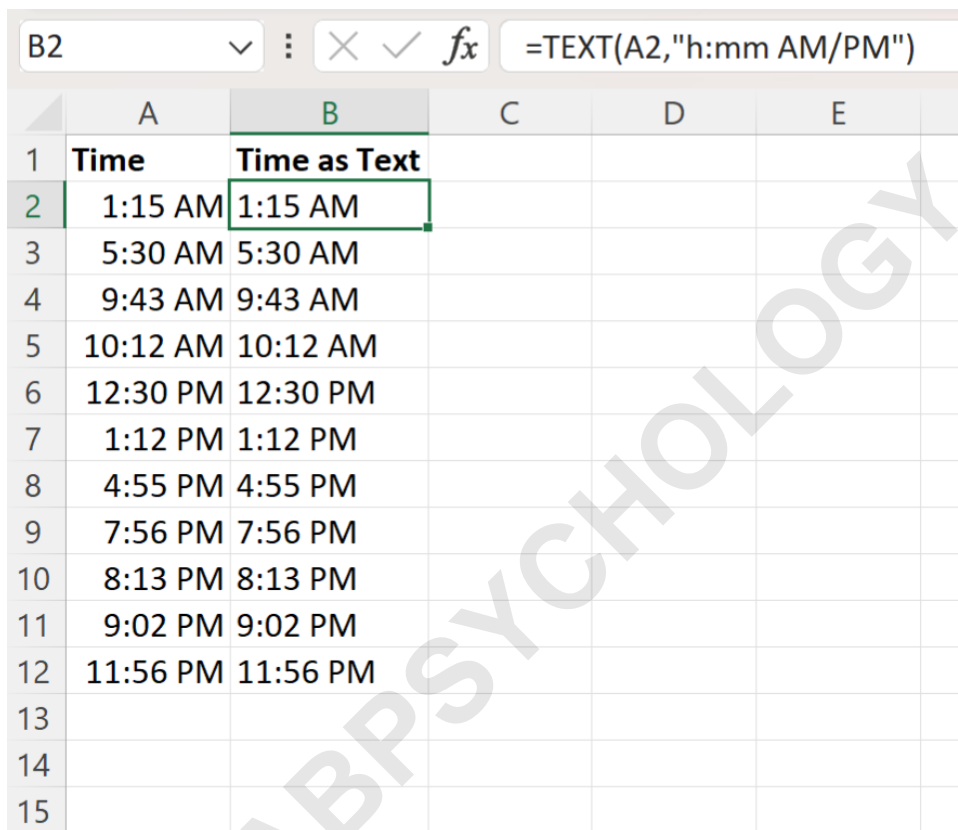
Now that we have confirmed the numerical nature of the data in Column A, we proceed with the conversion. Our objective is to generate text strings in Column B that match the time display format we have chosen (12-hour clock with AM/PM).

We type the following formula into cell **B2**:

=TEXT(A2,"h:mm AM/PM")

The **TEXT function** executes the transformation, reading the numerical serial number in A2 and producing a formatted text result in B2. We can then click and drag this formula down using the fill handle to apply the conversion to each remaining cell in column B. This action efficiently populates the entire column with static time strings.

This resulting column (Column B) now contains text representations of the times. The formatting is permanently locked in, ensuring that the appearance remains consistent for any external reporting or display requirements.



The screenshot shows an Excel spreadsheet with the following data:

	A	B	C	D	E
1	Time	Time as Text			
2	1:15 AM	1:15 AM			
3	5:30 AM	5:30 AM			
4	9:43 AM	9:43 AM			
5	10:12 AM	10:12 AM			
6	12:30 PM	12:30 PM			
7	1:12 PM	1:12 PM			
8	4:55 PM	4:55 PM			
9	7:56 PM	7:56 PM			
10	8:13 PM	8:13 PM			
11	9:02 PM	9:02 PM			
12	11:56 PM	11:56 PM			
13					
14					
15					

The formula bar at the top shows the formula: `=TEXT(A2,"h:mm AM/PM")`

Post-Conversion Verification and Review

To finalize the process, we must confirm that the new values in Column B are definitively recognized as text. We achieve this by reapplying the **ISTEXT function** to the converted column. This step is vital to guarantee data integrity for subsequent operations involving text concatenation or parsing.

We verify the successful conversion by typing the following formula into cell **C2**, checking the content of cell B2:

=ISTEXT(B2)

We then click and drag this formula down to each remaining cell in column C. Since the **ISTEXT function** is checking the results of the **TEXT function**, we should see an immediate change in the logical outcome compared to our initial check.

	A	B	C	D	E
1	Time	Time as Text			
2	1:15 AM	1:15 AM	TRUE		
3	5:30 AM	5:30 AM	TRUE		
4	9:43 AM	9:43 AM	TRUE		
5	10:12 AM	10:12 AM	TRUE		
6	12:30 PM	12:30 PM	TRUE		
7	1:12 PM	1:12 PM	TRUE		
8	4:55 PM	4:55 PM	TRUE		
9	7:56 PM	7:56 PM	TRUE		
10	8:13 PM	8:13 PM	TRUE		
11	9:02 PM	9:02 PM	TRUE		
12	11:56 PM	11:56 PM	TRUE		
13					
14					

The formula returns **TRUE** for each row, which definitively indicates that each time value in column B is successfully stored as text. This outcome confirms the data is now suitable for applications requiring text strings, such as creating fixed reports or generating XML/JSON outputs.

Exploring Advanced Format Codes for Time

The power of the **TEXT function** lies in its versatility in handling date and time format codes. Users are not limited to the standard 12-hour display; various codes allow for specialized textual outputs. Choosing the correct format code is critical to aligning the output string with specific business or technical requirements.

Consider the following alternative format strings and their resulting output structures:

"hh:mm": Outputs time in 24-hour format, ensuring leading zeros for hours (e.g., 09:30 or 17:45).

"h:mm:ss": Includes seconds, using the 12-hour clock format without leading zeros for hours (e.g., 9:30:15 AM).

"h:mm AM/PM": Our standard example, displaying the time with the meridian indicator.

":mm": Used for converting durations that exceed 24 hours into a continuous text count of hours

(e.g., 50:30).

Mastering these [date and time format codes](#) allows for highly precise text string generation, essential when integrating [Excel](#) data with APIs or database fields that require strict text formats.

Note: You can find the complete documentation for the **TEXT** function in Excel [here](#), which includes a comprehensive guide to all available formatting codes.

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