

# UNIXTIMEFORMAT Function

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Formats a set of Unix timestamps according to a specified date formatting string.

Source values can be a reference to a column containing Unix timestamp values.

**NOTE:** Date values must be converted to Unix timestamps before applying this function. Unix time measures the number of milliseconds that have elapsed since January 1, 1970 00:00:00 (UTC). See *UNIXTIME Function*.

Supported format strings for this function are the same as the supported format strings for the *DATEFORMAT* function.

- For more information on formatting Unix or standard date formats, see *DATEFORMAT Function*.
- For more information on formatting numeric types, see *NUMFORMAT Function*.

**Wrangle vs. SQL:** This function is part of Wrangle , a proprietary data transformation language. Wrangle is not SQL. For more information, see *Wrangle Language*.

## Basic Usage

```
unixtimeformat(MyUnixDate, 'yyyy-MM-dd')
```

**Output:** Returns the Unix timestamp values in the `MyUnixDate` column, converted to year-month-day format.

## Syntax and Arguments

```
unixtimeformat(unixtime_col, date_format_string)
```

Argument	Required?	Data Type	Description
unixtime_col	Y	datetime	Name of column whose Unix timestamp values are to be formatted
date_format_string	Y	string	String literal identifying the date format to apply to the value

For more information on syntax standards, see *Language Documentation Syntax Notes*.

### **unixtime\_col**

Name of the column whose Unix time data is to be formatted.

- Missing values for this function in the source data result in missing values in the output.

- Multiple columns and wildcards are not supported.

### Usage Notes:

Required?	Data Type	Example Value
Yes	Datetime (formatted as Unix time integer values)	myDate

### date\_format\_string

String value indicating the date format to apply to the input values.

**NOTE:** If the platform cannot recognize the date format string, the generated result is written as a string value.

For more information on the supported formatting strings, see below.

- Missing values for this function in the source data result in missing values in the output.
- Multiple columns and wildcards are not supported.

### Usage Notes:

Required?	Data Type	Example Value
Yes	String	'MM/dd/yyyy'

### Examples

**Tip:** For additional examples, see *Common Tasks*.

### Example - Unix timestamp formatting variations

Description	unixTimestamp column	Transform	newUnixTimestamp column								
Numeric date, year first	1454946120000	<table border="1"> <tr> <td>Transformation Name</td> <td>New formula</td> </tr> <tr> <td>Parameter: Formula type</td> <td>Single row formula</td> </tr> <tr> <td>Parameter: Formula</td> <td>unixtimeformat (unixTimestamp, 'yyyy-MM-dd')</td> </tr> <tr> <td>Parameter: New column name</td> <td>'newUnixTimestamp'</td> </tr> </table>	Transformation Name	New formula	Parameter: Formula type	Single row formula	Parameter: Formula	unixtimeformat (unixTimestamp, 'yyyy-MM-dd')	Parameter: New column name	'newUnixTimestamp'	2016-02-08
	Transformation Name		New formula								
	Parameter: Formula type		Single row formula								
	Parameter: Formula		unixtimeformat (unixTimestamp, 'yyyy-MM-dd')								
Parameter: New column name	'newUnixTimestamp'										
1451433600000	2015-12-30										
1430032020000	2015-04-26										

Numeric date, American style	1454946120000 1451433600000 1430032020000	<table border="1"> <tr> <td><b>Transformation Name</b></td> <td>New formula</td> </tr> <tr> <td><b>Parameter: Formula type</b></td> <td>Single row formula</td> </tr> <tr> <td><b>Parameter: Formula</b></td> <td>unixtimeformat (unixTimestamp, 'M/d/yy')</td> </tr> <tr> <td><b>Parameter: New column name</b></td> <td>'newUnixTimestamp'</td> </tr> </table>	<b>Transformation Name</b>	New formula	<b>Parameter: Formula type</b>	Single row formula	<b>Parameter: Formula</b>	unixtimeformat (unixTimestamp, 'M/d/yy')	<b>Parameter: New column name</b>	'newUnixTimestamp'	2/8/16 12/30/15 4/26/15
<b>Transformation Name</b>	New formula										
<b>Parameter: Formula type</b>	Single row formula										
<b>Parameter: Formula</b>	unixtimeformat (unixTimestamp, 'M/d/yy')										
<b>Parameter: New column name</b>	'newUnixTimestamp'										
Full written date	1454946120000 1451433600000 1430032020000	<table border="1"> <tr> <td><b>Transformation Name</b></td> <td>New formula</td> </tr> <tr> <td><b>Parameter: Formula type</b></td> <td>Single row formula</td> </tr> <tr> <td><b>Parameter: Formula</b></td> <td>unixtimeformat (unixTimestamp, 'MMMM dd, yyyy')</td> </tr> <tr> <td><b>Parameter: New column name</b></td> <td>'newUnixTimestamp'</td> </tr> </table>	<b>Transformation Name</b>	New formula	<b>Parameter: Formula type</b>	Single row formula	<b>Parameter: Formula</b>	unixtimeformat (unixTimestamp, 'MMMM dd, yyyy')	<b>Parameter: New column name</b>	'newUnixTimestamp'	February 08, 2016 December 30, 2015 April 26, 2015
<b>Transformation Name</b>	New formula										
<b>Parameter: Formula type</b>	Single row formula										
<b>Parameter: Formula</b>	unixtimeformat (unixTimestamp, 'MMMM dd, yyyy')										
<b>Parameter: New column name</b>	'newUnixTimestamp'										
Abbreviated date, including abbreviated day of week	1454946120000 1451433600000 1430032020000	<table border="1"> <tr> <td><b>Transformation Name</b></td> <td>New formula</td> </tr> <tr> <td><b>Parameter: Formula type</b></td> <td>Single row formula</td> </tr> <tr> <td><b>Parameter: Formula</b></td> <td>unixtimeformat (unixTimestamp, 'EEE MMM dd, yyyy')</td> </tr> <tr> <td><b>Parameter: New column name</b></td> <td>'newUnixTimestamp'</td> </tr> </table>	<b>Transformation Name</b>	New formula	<b>Parameter: Formula type</b>	Single row formula	<b>Parameter: Formula</b>	unixtimeformat (unixTimestamp, 'EEE MMM dd, yyyy')	<b>Parameter: New column name</b>	'newUnixTimestamp'	Mon Feb 08, 2016 Wed Dec 30, 2015 Sun Apr 26, 2015
<b>Transformation Name</b>	New formula										
<b>Parameter: Formula type</b>	Single row formula										
<b>Parameter: Formula</b>	unixtimeformat (unixTimestamp, 'EEE MMM dd, yyyy')										
<b>Parameter: New column name</b>	'newUnixTimestamp'										
Full 24-hour time	1454946120000 1451433600000 1430032020000	<table border="1"> <tr> <td><b>Transformation Name</b></td> <td>New formula</td> </tr> <tr> <td><b>Parameter: Formula type</b></td> <td>Single row formula</td> </tr> <tr> <td><b>Parameter: Formula</b></td> <td>unixtimeformat (unixTimestamp, 'HH:mm:ss.SSS')</td> </tr> <tr> <td><b>Parameter: New column name</b></td> <td>'newUnixTimestamp'</td> </tr> </table>	<b>Transformation Name</b>	New formula	<b>Parameter: Formula type</b>	Single row formula	<b>Parameter: Formula</b>	unixtimeformat (unixTimestamp, 'HH:mm:ss.SSS')	<b>Parameter: New column name</b>	'newUnixTimestamp'	15:42:00.000 00:00:00.000 07:07:00.00
<b>Transformation Name</b>	New formula										
<b>Parameter: Formula type</b>	Single row formula										
<b>Parameter: Formula</b>	unixtimeformat (unixTimestamp, 'HH:mm:ss.SSS')										
<b>Parameter: New column name</b>	'newUnixTimestamp'										

<p>Twelve-hour time with AM/PM indicator</p>	<p>1454946120000 1451433600000 1430032020000</p>	<table border="1" data-bbox="634 159 1209 535"> <tr> <td data-bbox="634 159 837 237"><b>Transformation Name</b></td> <td data-bbox="837 159 1209 237">New formula</td> </tr> <tr> <td data-bbox="634 237 837 317"><b>Parameter: Formula type</b></td> <td data-bbox="837 237 1209 317">Single row formula</td> </tr> <tr> <td data-bbox="634 317 837 430"><b>Parameter: Formula</b></td> <td data-bbox="837 317 1209 430">unixtimeformat (unixTimestamp, 'h:mm:ss a')</td> </tr> <tr> <td data-bbox="634 430 837 535"><b>Parameter: New column name</b></td> <td data-bbox="837 430 1209 535">'newUnixTimestamp'</td> </tr> </table> <div data-bbox="565 558 1209 684" style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p><b>NOTE:</b> For this function, use of the lower-case hour indicator (h or hh) requires the use of an AM/PM indicator (a).</p> </div>	<b>Transformation Name</b>	New formula	<b>Parameter: Formula type</b>	Single row formula	<b>Parameter: Formula</b>	unixtimeformat (unixTimestamp, 'h:mm:ss a')	<b>Parameter: New column name</b>	'newUnixTimestamp'	<p>3:42:00 PM 12:00:00 AM 7:07:00 AM</p>
<b>Transformation Name</b>	New formula										
<b>Parameter: Formula type</b>	Single row formula										
<b>Parameter: Formula</b>	unixtimeformat (unixTimestamp, 'h:mm:ss a')										
<b>Parameter: New column name</b>	'newUnixTimestamp'										