

C# Examples

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String Format for DateTime [C#]

This example shows how to format [DateTime](#) using [String.Format](#) method. All formatting can be done also using [DateTime.ToString](#) method.

Custom DateTime Formatting

There are following custom format specifiers γ (year), M (month), d (day), h (hour 12), H (hour 24), m (minute), s (second), f (second fraction), F (second fraction, trailing zeroes are trimmed), t (P.M or A.M) and z (time zone).

Following examples demonstrate how are the format specifiers rewritten to the output.

[C#]

```
// create date time 2008-03-09 16:05:07.123
DateTime dt = new DateTime(2008, 3, 9, 16, 5, 7, 123);

String.Format("{0:y yy yyy yyyy}", dt); // "8 08 008 2008" year
String.Format("{0:M MM MMM MMMM}", dt); // "3 03 Mar March" month
String.Format("{0:d dd ddd dddd}", dt); // "9 09 Sun Sunday" day
String.Format("{0:h hh H HH}", dt); // "4 04 16 16" hour 12/24
String.Format("{0:m mm}", dt); // "5 05" minute
String.Format("{0:s ss}", dt); // "7 07" second
String.Format("{0:f ff fff ffff}", dt); // "1 12 123 1230" sec.fraction
String.Format("{0:F FF FFF FFFF}", dt); // "1 12 123 123" without zeroes
String.Format("{0:t tt}", dt); // "P PM" A.M. or P.M.
String.Format("{0:z zz zzz}", dt); // "-6 -06 -06:00" time zone
```

You can use also **date separator** / (slash) and **time separator** : (colon). These characters will be rewritten to characters defined in the current [DateTimeFormatInfo.DateSeparator](#) and [DateTimeFormatInfo.TimeSeparator](#).

[C#]

```
// date separator in german culture is "." (so "/" changes to ".")
String.Format("{0:d/M/yyyy HH:mm:ss}", dt); // "9/3/2008 16:05:07" - english (en-US)
String.Format("{0:d/M/yyyy HH:mm:ss}", dt); // "9.3.2008 16:05:07" - german (de-DE)
```

Here are some examples of custom date and time formatting:

[C#]

```
// month/day numbers without/with leading zeroes
String.Format("{0:M/d/yyyy}", dt); // "3/9/2008"
String.Format("{0:MM/dd/yyyy}", dt); // "03/09/2008"

// day/month names
String.Format("{0:ddd, MMM d, yyyy}", dt); // "Sun, Mar 9, 2008"
String.Format("{0:dddd, MMMM d, yyyy}", dt); // "Sunday, March 9, 2008"

// two/four digit year
String.Format("{0:MM/dd/yy}", dt); // "03/09/08"
String.Format("{0:MM/dd/yyyy}", dt); // "03/09/2008"
```

Standard DateTime Formatting

In [DateTimeFormatInfo](#) there are defined standard patterns for the current culture. For example property [ShortTimePattern](#) is string that contains value h:mm tt for **en-US** culture and value HH:mm for **de-DE** culture.

Following table shows patterns defined in [DateTimeFormatInfo](#) and their values for en-US culture. First column contains format specifiers for the [String.Format](#) method.

Specifier	DateTimeFormatInfo property	Pattern value (for en-US culture)
t	ShortTimePattern	h:mm tt
d	ShortDatePattern	M/d/yyyy
T	LongTimePattern	h:mm:ss tt
D	LongDatePattern	dddd, MMMM dd, yyyy
f	(combination of D and t)	dddd, MMMM dd, yyyy h:mm tt
F	FullDateTimePattern	dddd, MMMM dd, yyyy h:mm:ss tt
g	(combination of d and t)	M/d/yyyy h:mm tt
G	(combination of d and T)	M/d/yyyy h:mm:ss tt

m, M	MonthDayPattern	MMMM dd
y, Y	YearMonthPattern	MMMM, yyyy
r, R	RFC1123Pattern	ddd, dd MMM yyyy HH':'mm':'ss 'GMT' (*)
s	SortableDateTimePattern	yyyy'-'MM'-'dd'T'HH':'mm':'ss (*)
u	UniversalSortableDateTimePattern	yyyy'-'MM'-'dd HH':'mm':'ss'Z' (*)

(*) = culture independent

Following examples show usage of **standard format specifiers** in [String.Format](#) method and the resulting output.

[C#]

```
String.Format("{0:t}", dt); // "4:05 PM" ShortTime
String.Format("{0:d}", dt); // "3/9/2008" ShortDate
String.Format("{0:T}", dt); // "4:05:07 PM" LongTime
String.Format("{0:D}", dt); // "Sunday, March 09, 2008" LongDate
String.Format("{0:f}", dt); // "Sunday, March 09, 2008 4:05 PM" LongDate+ShortTime
String.Format("{0:F}", dt); // "Sunday, March 09, 2008 4:05:07 PM" FullDateTime
String.Format("{0:g}", dt); // "3/9/2008 4:05 PM" ShortDate+ShortTime
String.Format("{0:G}", dt); // "3/9/2008 4:05:07 PM" ShortDate+LongTime
String.Format("{0:m}", dt); // "March 09" MonthDay
String.Format("{0:y}", dt); // "March, 2008" YearMonth
String.Format("{0:r}", dt); // "Sun, 09 Mar 2008 16:05:07 GMT" RFC1123
String.Format("{0:s}", dt); // "2008-03-09T16:05:07" SortableDateTime
String.Format("{0:u}", dt); // "2008-03-09 16:05:07Z" UniversalSortableDateTime
```

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See also

- [\[C#\] String Format for Double](#) – format float numbers
- [\[C#\] String Format for Int](#) – format (align) integer numbers
- [\[C#\] IFormatProvider for Numbers](#) – parse float numbers with IFormatProvider
- [\[C#\] Custom IFormatProvider](#) – string formatting with custom IFormatProvider
- [\[C#\] Align String with Spaces](#) – how to align text to the right or left
- [\[C#\] Indent String with Spaces](#) – how to indent text with repeated spaces
- [Custom Date and Time Format Strings](#) – MSDN – custom date-time formatting
- [Standard Date and Time Format Strings](#) – MSDN – standard date-time formatting
- [DateTimeFormatInfo](#) – MSDN – date-time patterns for specific cultures
- [String.Format](#) – MSDN – method to format strings

By [Jan Slama](#), 25-Mar-2008



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