

Composite Formatting

Podemos usar composite formatting en los siguientes metodos

- Console.WriteLine
- String.Format
- StringBuilder.AppendFormat
- TextWriter.WriteLine
- Debug.WriteLine
- Trace (varios métodos)

Cada item del formato esta conformado como sigue:

`{index[,alignment][:formatString]}`

Los unicos elementos obligatorios son las llaves y el index, el resto es opcional

Formatos Numericos Standard

Letter	Meaning	Sample input	Result	Notes
G or g	"General"	1.2345, "G"	1.2345	Switches to exponential notation for small or large numbers G3 limits precision to three digits in <i>total</i> (before + after point)
		0.00001, "G"	1E-05	
		0.00001, "g"	1e-05	
		1.2345, "G3"	1.23	
		12345, "G3"	1.23E04	
F	Fixed point	2345.678, "F2"	2345.68	F2 rounds to two decimal places
		2345.6, "F2"	2345.60	
N	Fixed point with <i>group separator</i> ("Numeric")	2345.678, "N2"	2,345.68	As above, with group (1,000s) separator (details from format provider)
		2345.6, "N2"	2,345.60	
D	Pad with leading zeros	123, "D5"	00123	For integral types only D5 pads left to five digits; does not truncate
		123, "D1"	123	

Letter	Meaning	Sample input	Result	Notes
E or e	Force exponential notation	56789, "E" 56789, "e" 56789, "E2"	5.678900E+004 5.678900e+004 5.68E+004	Six-digit default precision
C	Currency	1.2, "C" 1.2, "C4"	\$1.20 \$1.2000	C with no digit uses default number of D.P. from format provider
P	Percent	.503, "P" .503, "P0"	50.30 % 50 %	Uses symbol and layout from format provider Decimal places can optionally be overridden
X or x	Hexadecimal	47, "X" 47, "x" 47, "X4"	2F 2f 002F	X for uppercase hex digits; x for lowercase hex digits Integrals only
R	Round-trip	1f / 3f, "R"	0.333333343	For the float and double types, R or G17 squeeze out all digits to ensure exact round-tripping

Formatos Numericos Custom

Specifier	Meaning	Sample input	Result	Notes
#	Digit placeholder	12.345, ".##" 12.345, "####"	12.35 12.345	Limits digits after D.P.
0	Zero placeholder	12.345, ".00" 12.345, ".0000" 99, "000.00"	12.35 12.3450 099.00	As above, but also pads with zeros before and after D.P.
.	Decimal point			Indicates D.P. Actual symbol comes from NumberFormatInfo
,	Group separator	1234, "#,###,###" 1234, "0,000,000"	1,234 0,001,234	Symbol comes from NumberFormatInfo
, (as above)	Multiplier	1000000, "#," 1000000, "#,,"	1000 1	If comma is at end or before D.P., it acts as a multiplier—dividing result by 1,000, 1,000,000, etc.
%	Percent notation	0.6, "00%"	60%	First multiplies by 100 and then substitutes percent symbol obtained from NumberFormatInfo

E0, e0, E+0, e+0 E-0, e-0	Exponent notation	1234, "0E0" 1234, "0E+0" 1234, "0.00E00" 1234, "0.00e00"	1E3 1E+3 1.23E03 1.23e03	
\	Literal character quote	50, @" \#0"	#50	Use in conjunction with an @ prefix on the string—or use \\
'xx' 'xx'	Literal string quote	50, "0 '...'"	50 ...	
;	Section separator	15, "#;(#);zero" -5, "#;(#);zero" 0, "#;(#);zero"	15 (5) zero	(If positive) (If negative) (If zero)
Any other char	Literal	35.2, "\$0 . 00c"	\$35 . 20c	

Formatos de Fecha y Hora Standard (dependientes de la cultura)

Format string	Meaning	Sample output
d	Short date	01/02/2000
D	Long date	Sunday, 02 January 2000
t	Short time	17:18
T	Long time	17:18:19
f	Long date + short time	Sunday, 02 January 2000 17:18
F	Long date + long time	Sunday, 02 January 2000 17:18:19
g	Short date + short time	01/02/2000 17:18
G (default)	Short date + long time	01/02/2000 17:18:19
m, M	Month and day	02 January
y, Y	Year and month	January 2000

Formatos de Fecha y Hora Standard (independientes de la cultura)

Format string	Meaning	Sample output	Notes
o	Round-trippable	2000-01-02T17:18:19.0000000	Will append time zone information unless <code>DateTimeKind</code> is <code>Unspecified</code>
r, R	RFC 1123 standard	Sun, 02 Jan 2000 17:18:19 GMT	You must explicitly convert to UTC with <code>DateTime.ToUniversalTime</code>
s	Sortable; ISO 8601	2000-01-02T17:18:19	Compatible with text-based sorting
u	"Universal" sortable	2000-01-02 17:18:19Z	Similar to above; must explicitly convert to UTC
U	UTC	Sunday, 02 January 2000 17:18:19	Long date + short time, converted to UTC

Formatos de Fecha y Hora Custom

Format specifier	Description	Examples
"d"	The day of the month, from 1 through 31.	2009-06-01T13:45:30 -> 1 2009-06-15T13:45:30 -> 15
"dd"	The day of the month, from 01 through 31.	2009-06-01T13:45:30 -> 01 2009-06-15T13:45:30 -> 15
"ddd"	The abbreviated name of the day of the week.	2009-06-15T13:45:30 -> Mon (en-US) 2009-06-15T13:45:30 -> Пн (ru-RU) 2009-06-15T13:45:30 -> lun. (fr-FR)
"dddd"	The full name of the day of the week.	2009-06-15T13:45:30 -> Monday (en-US) 2009-06-15T13:45:30 -> понедельник (ru-RU) 2009-06-15T13:45:30 -> lundi (fr-FR)
"f"	The tenths of a second in a date and time value.	2009-06-15T13:45:30.6170000 -> 6 2009-06-15T13:45:30.05 -> 0
"ff"	The hundredths of a second in a date and time value.	2009-06-15T13:45:30.6170000 -> 61 2009-06-15T13:45:30.0050000 -> 00
"fff"	The milliseconds in a date and time value.	6/15/2009 13:45:30.617 -> 617 6/15/2009 13:45:30.0005 -> 000
"ffff"	The ten thousandths of a second in a date and time value.	2009-06-15T13:45:30.6175000 -> 6175 2009-06-15T13:45:30.0000500 -> 0000
"fffff"	The hundred thousandths of a second in a date and time value.	2009-06-15T13:45:30.6175400 -> 61754 6/15/2009 13:45:30.000005 -> 00000
"ffffff"	The millionths of a second in a date and time value.	2009-06-15T13:45:30.6175420 -> 617542

Format specifier	Description	Examples
		2009-06-15T13:45:30.0000005 -> 000000
"ffffff"	The ten millionths of a second in a date and time value.	2009-06-15T13:45:30.6175425 -> 6175425 2009-06-15T13:45:30.0001150 -> 0001150
"F"	If non-zero, the tenths of a second in a date and time value.	2009-06-15T13:45:30.6170000 -> 6 2009-06-15T13:45:30.0500000 -> (no output)
"FF"	If non-zero, the hundredths of a second in a date and time value.	2009-06-15T13:45:30.6170000 -> 61 2009-06-15T13:45:30.0050000 -> (no output)
"FFF"	If non-zero, the milliseconds in a date and time value.	2009-06-15T13:45:30.6170000 -> 617 2009-06-15T13:45:30.0005000 -> (no output)
"FFFF"	If non-zero, the ten thousandths of a second in a date and time value.	2009-06-15T13:45:30.5275000 -> 5275 2009-06-15T13:45:30.0000500 -> (no output)
"FFFFF"	If non-zero, the hundred thousandths of a second in a date and time value.	2009-06-15T13:45:30.6175400 -> 61754 2009-06-15T13:45:30.0000050 -> (no output)
"FFFFFF"	If non-zero, the millionths of a second in a date and time value.	2009-06-15T13:45:30.6175420 -> 617542 2009-06-15T13:45:30.0000005 -> (no output)
"FFFFFFF"	If non-zero, the ten millionths of a second in a date and time value.	2009-06-15T13:45:30.6175425 -> 6175425 2009-06-15T13:45:30.0001150 -> 000115
"g", "gg"	The period or era.	2009-06-15T13:45:30.6170000 -> A.D.
"h"	The hour, using a 12-hour clock from 1 to 12.	2009-06-15T01:45:30 -> 1 2009-06-15T13:45:30 -> 1
"hh"	The hour, using a 12-hour clock from 01 to 12.	2009-06-15T01:45:30 -> 01 2009-06-15T13:45:30 -> 01
"H"	The hour, using a 24-hour clock from 0 to 23.	2009-06-15T01:45:30 -> 1 2009-06-15T13:45:30 -> 13
"HH"	The hour, using a 24-hour clock from 00 to 23.	2009-06-15T01:45:30 -> 01 2009-06-15T13:45:30 -> 13
"K"	Time zone information.	With DateTime values: 2009-06-15T13:45:30, Kind Unspecified -> 2009-06-15T13:45:30, Kind Utc -> Z 2009-06-15T13:45:30, Kind Local -> -07:00 (depends on local computer settings) With DateTimeOffset values: 2009-06-15T01:45:30-07:00 --> -07:00 2009-06-15T08:45:30+00:00 --> +00:00
"m"	The minute, from 0 through 59.	2009-06-15T01:09:30 -> 9 2009-06-15T13:29:30 -> 29
"mm"	The minute, from 00 through 59.	2009-06-15T01:09:30 -> 09

Format specifier	Description	Examples
		2009-06-15T01:45:30 -> 45
"M"	The month, from 1 through 12.	2009-06-15T13:45:30 -> 6
"MM"	The month, from 01 through 12.	2009-06-15T13:45:30 -> 06
"MMM"	The abbreviated name of the month.	2009-06-15T13:45:30 -> Jun (en-US) 2009-06-15T13:45:30 -> juin (fr-FR) 2009-06-15T13:45:30 -> Jun (zu-ZA)
"MMMM"	The full name of the month.	2009-06-15T13:45:30 -> June (en-US) 2009-06-15T13:45:30 -> juni (da-DK) 2009-06-15T13:45:30 -> uJuni (zu-ZA)
"s"	The second, from 0 through 59.	2009-06-15T13:45:09 -> 9
"ss"	The second, from 00 through 59.	2009-06-15T13:45:09 -> 09
"t"	The first character of the AM/PM designator.	2009-06-15T13:45:30 -> P (en-US) 2009-06-15T13:45:30 -> 午 (ja-JP) 2009-06-15T13:45:30 -> (fr-FR)
"tt"	The AM/PM designator.	2009-06-15T13:45:30 -> PM (en-US) 2009-06-15T13:45:30 -> 午後 (ja-JP) 2009-06-15T13:45:30 -> (fr-FR)
"y"	The year, from 0 to 99.	0001-01-01T00:00:00 -> 1 0900-01-01T00:00:00 -> 0 1900-01-01T00:00:00 -> 0 2009-06-15T13:45:30 -> 9 2019-06-15T13:45:30 -> 19
"yy"	The year, from 00 to 99.	0001-01-01T00:00:00 -> 01 0900-01-01T00:00:00 -> 00 1900-01-01T00:00:00 -> 00 2019-06-15T13:45:30 -> 19
"yyy"	The year, with a minimum of three digits.	0001-01-01T00:00:00 -> 001 0900-01-01T00:00:00 -> 900 1900-01-01T00:00:00 -> 1900 2009-06-15T13:45:30 -> 2009
"yyyy"	The year as a four-digit number.	0001-01-01T00:00:00 -> 0001 0900-01-01T00:00:00 -> 0900 1900-01-01T00:00:00 -> 1900 2009-06-15T13:45:30 -> 2009
"yyyyy"	The year as a five-digit number.	0001-01-01T00:00:00 -> 00001 2009-06-15T13:45:30 -> 02009

Format specifier	Description	Examples
"z"	Hours offset from UTC, with no leading zeros.	2009-06-15T13:45:30-07:00 -> -7
"zz"	Hours offset from UTC, with a leading zero for a single-digit value.	2009-06-15T13:45:30-07:00 -> -07
"zzz"	Hours and minutes offset from UTC.	2009-06-15T13:45:30-07:00 -> -07:00
":"	The time separator.	2009-06-15T13:45:30 -> : (en-US) 2009-06-15T13:45:30 -> . (it-IT) 2009-06-15T13:45:30 -> : (ja-JP)
"/"	The date separator.	2009-06-15T13:45:30 -> / (en-US) 2009-06-15T13:45:30 -> - (ar-DZ) 2009-06-15T13:45:30 -> . (tr-TR)
"string" 'string'	Literal string delimiter.	2009-06-15T13:45:30 ("arr:" h:m t) -> arr: 1:45 P 2009-06-15T13:45:30 ('arr:' h:m t) -> arr: 1:45 P
%	Defines the following character as a custom format specifier.	2009-06-15T13:45:30 (%h) -> 1
\	The escape character.	2009-06-15T13:45:30 (h \h) -> 1 h
Any other character	The character is copied to the result string unchanged.	2009-06-15T01:45:30 (arr hh:mm t) -> arr 01:45 A