# Strings

|  |  |
| --- | --- |
| **Sample** | **Generates** |
| String.Format("[{1, **-10**}]", "Foo"); | [·······Foo] |
| String.Format("[{1, **-5**}]", "Foo"); | [··Foo] |
| String.Format("[{1, **5**}]", "Foo"); | [Foo··] |
| String.Format("[{1, **10**}]", "Foo"); | [Foo·······] |
|  |  |

# Numbers

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Specifier** | **Type** | **Example** | **(double) 1.42** | **(int) -12400** |
| c | Currency | {0:c} | $1.42 | -$12,400 |
| d | Decimal (Whole number) | {0:d} | **FormatException** | -12400 |
| e | Scientific | {0:e} | 1.420000e+000 | -1.240000e+004 |
| f | Fixed point | {0:f} | 1.42 | -12400.00 |
| G | General | {0:g} | 1.42 | -12400 |
| N | Number with thousand separator | {0:n} | 1.42 | -12,400 |
| r | Round trippable | {0:r} | 1.42 | **FormatException** |
| x | Hexadecimal | {0:x4} | **FormatException** | cf90 |

# Custom number formats

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Specifier** | **Type** | **Example** | **(double) 1500.42** | **Note** |
| 0 | Zero placeholder | {0:00.0000} | 1500.4200 | Pads with zeroes. |
| # | Digit placeholder | {0:(#).##} | (1500).42 |  |
| . | Decimal point | {0:0.0} | 1500.4 |  |
| , | Digit grouping | {0:0,0} | 1,500 | Must be between two zeroes. |
| ,. | Number scaling | {0:0,.} | 2 | Comma next to Period scales by 1000. |
| % | Percent | {0:0%} | 150042% | Multiplies by 100, adds % sign. |
| E | Exponent | {0:00e+0} | 15e+2 | Many exponent formats available. |
| ; | Group separator | see below |  |  |

# Useful Examples

|  |  |
| --- | --- |
| **Example** | **Output** |
| String.Format("{0:00000}", 5) | 00005 |
| String.Format("{0:foo;bar;baz}", x) | "foo" if x > 0; "bar" if x < 0; "baz" if x == 0 |
|  |  |

# Dates

|  |  |  |
| --- | --- | --- |
| **Specifier** | **Type** | **Example (Passed System.DateTime.Now)** |
| d | Short date | 10/12/2002 |
| D | Long date | December 10, 2002 |
| t | Short time | 10:11 PM |
| T | Long time | 10:11:29 PM |
| f | Full date & time | December 10, 2002 10:11 PM |
| F | Full date & time (long) | December 10, 2002 10:11:29 PM |
| g | Default date & time | 10/12/2002 10:11 PM |
| G | Default date & time (long) | 10/12/2002 10:11:29 PM |
| M | Month day pattern | December 10 |
| r | RFC1123 date string | Tue, 10 Dec 2002 22:11:29 GMT |
| s | Sortable date string | 2002-12-10T22:11:29 |
| u | Universal sortable, local time | 2002-12-10 22:13:50Z |
| U | Universal sortable, GMT | December 11, 2002 3:13:50 AM |
| Y | Year month pattern | December, 2002 |

# Custom Date Formats

|  |  |  |  |
| --- | --- | --- | --- |
| **Specifier** | **Type** | **Example** | **Example Output** |
| dd | Day | {0:dd} | 10 |
| ddd | Day name | {0:ddd} | Tue |
| dddd | Full day name | {0:dddd} | Tuesday |
| f, ff, … | Second fractions | {0:fff} | 932 |
| gg, … | Era | {0:gg} | A.D. |
| hh | 2 digit hour | {0:hh} | 10 |
| HH | 2 digit hour, 24hr format | {0:HH} | 22 |
| mm | Minute 00-59 | {0:mm} | 38 |
| MM | Month 01-12 | {0:MM} | 12 |
| MMM | Month abbreviation | {0:MMM} | Dec |
| MMMM | Full month name | {0:MMMM} | December |
| ss | Seconds 00-59 | {0:ss} | 46 |
| tt | AM or PM | {0:tt} | PM |
| yy | Year, 2 digits | {0:yy} | 02 |
| yyyy | Year | {0:yyyy} | 2002 |
| zz | Timezone offset, 2 digits | {0:zz} | -05 |
| zzz | Full timezone offset | {0:zzz} | -05:00 |
| : | Separator | {0:hh:mm:ss} | 10:43:20 |
| / | Separator | {0:dd/MM/yyyy} | 10/12/2002 |

# Enumerations

|  |  |
| --- | --- |
| **Specifier** | **Type** |
| g | Default (Flag names if available, otherwise decimal) |
| f | Flags always |
| d | Integer always |
| x | Eight digit hex. |