

Format Specifier

- Boolean values

Manipulator	Stream	Meaning
<code>std::boolalpha</code>	InOut	Word representation
<code>std::noboolalpha</code>	InOut	Number representation (default)

- Field width, and fill character

Manipulator	Stream	Meaning
<code>std::setw(val)</code>	InOut	Sets the field width
<code>std::setfill(c)</code>	Out	Sets the fill character (default: space)

- Alignment

Manipulator	Stream	Meaning
<code>std::left</code>	Out	Alignment left
<code>std::right</code>	Out	Alignment right
<code>std::internal</code>	Out	Sign (left alignment) Value (right alignment)

Format Specifier

- Positive sign, and capital letters

Manipulator	Stream	Meaning
<code>std::showpos</code>	Out	Show positiv sign
<code>std::noshowpos</code>	Out	Don't show positive sign (default)
<code>std::uppercase</code>	Out	Upper case letters
<code>std::nouppercase</code>	Out	Lower case letters (default)

- Numeric base

Manipulator	Stream	Meaning
<code>std::oct</code>	InOut	Octal
<code>std::dec</code>	InOut	Decimal (default)
<code>std::hex</code>	InOut	Hexadecimal

Manipulator	Stream	Meaning
<code>std::showbase</code>	Out	Shows numeric base
<code>std::noshowbase</code>	Out	Don't show numeric base (default)

Format Specifier

- Precision, fixed, and scientific for floating point numbers

Manipulator	Stream	Meaning
<code>std::setprecision(val)</code>	Out	Sets the precision of the floating-point number (default 6)
<code>std::fixed</code>	Out	Decimal format
<code>std::scientific</code>	Out	Scientific format