#### COMPLEX

[Syntax](Syntax.docx):

COMPLEX ( real-number , imaginary-number [ , suffix ] )

Description: Makes a complex number in x + yi or x + yj text [format](format.docx) from the arguments.

Arguments:

|  |  |  |
| --- | --- | --- |
| Name | Type | Description |
| real-number | number | The real number coefficient. |
| imaginary-number | number | The imaginary number coefficient. |
| suffix | [text](text.docx) | "[i](i.docx)" or "j". If omitted, "[i](i.docx)" is used. |

Return Type and Value: text – The complex number string specified by the arguments.

If real-number has the value 0 and imaginary-number has a non-zero value, the resulting string contains just the real number. If real-number has a non-zero value and imaginary-number has a zero value, the resulting string contains just the imaginary number and suffix. If both real-number and imaginary-number have a zero value, the resulting string is "0".

However, if suffix is neither "[i](i.docx)" nor "j", #VALUE! is returned.

[Example:

COMPLEX(-3.5,19.6) results in -3.5+19.6i
COMPLEX(3.5,-19.6,"j") results in 3.5-19.6j
COMPLEX(3.5,0) results in 3.5
COMPLEX(0,2.4) results in 2.4i
COMPLEX(0,0) results in 0

end example]