

Proposal for C23
WG14 N2671

Title: negative values
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Floating-point values can be classified as positive (> 0), negative (< 0), zero ($= 0$), or NaN. Other uses of “negative” can be confusing. For examples, the value -0 has a negative sign and a NaN value might have a bit representation with a negative sign bit, but neither is a negative (< 0) value.

The suggested change below clarifies the meaning of a negative value as being a value that compares less than zero.

Suggested change:

After 5.2.4.2.2 #5, add the paragraph:

[5a] A value is negative if and only if it compares less than 0. Thus, negative zeros and NaNs are not negative values.