Definition (Symmetric monoidal category). A *symmetric monoidal category* is a braided monoidal category $\langle \mathbf{C}, \boldsymbol{\otimes}, \mathbf{1}, \mathbf{br} \rangle$ for which the braiding satisifies the symmetry condition

$$br_{c,d} \circ br_{d,c} = Id_{c \otimes d}$$

for all $c, d \in Ob_{\mathbb{C}}$.