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

$$\mathrm{br}_{c,d}\,\,{}^{\circ}_{\circ}\,\mathrm{br}_{d,c}=\mathrm{Id}_{c\otimes d}$$

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