

State-based CRDTs

More formally

m needs to be **associative**

$$\forall x, y, z : \text{merge}(x, (\text{merge}(y, z))) = \text{merge}(\text{merge}(x, y), z)$$

State-based CRDTs

More formally

m needs to be **commutative**

$$\forall x, y : \textit{merge}(x, y) = \textit{merge}(y, x)$$