## Monoid-Graded Monoids in 8



$$(E,0,+)$$

$$(\mathsf{E},0,+) \qquad \eta:\mathsf{T}\to M_0$$

$$M:\mathsf{E} o\mathscr{C}$$

$$M: \mathsf{E} \to \mathscr{C} \qquad \mu_{e_1,e_2}: M_{e_1} \otimes M_{e_2} \to M_{e_1+e_2}$$

## Commutative-additive monoid

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E-indexed family of objects in  $\mathscr C$