

Category: A triple $C(O, M, \bullet)$ where

- $\begin{array}{ll} A \text{ tipe } C(\Theta, N, \bullet') \text{ where} \\ \bullet \text{ } \bullet \text{ }$

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Free Monoid:

A free monoid of M is just a monoid $\mathcal{M}(\text{List}[M], [], ++).$

Action: An action of a $\mathcal{M}(M,id_0,\,\star)$ over a set S of states is a function

$$M \times S \rightarrow S$$

It is equivalent to an automata