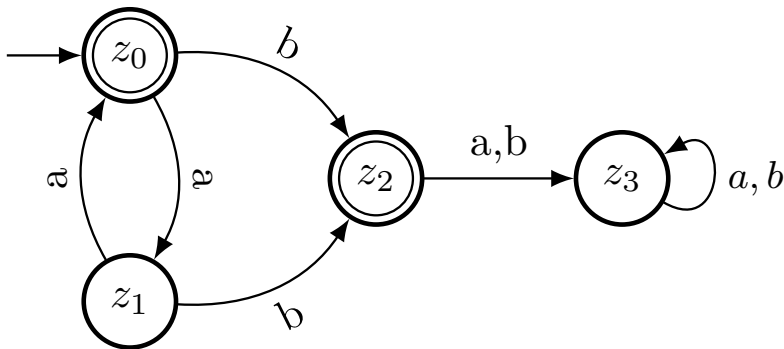


# Deterministic Finite Automaton



$$D = \left( \begin{array}{ccccc} \text{Zustände} & \text{Eingabe} & \text{Übergangsfkt.} & \text{Start(s)} & \text{Endzust.} \\ Z & \Sigma & \delta & S & E \\ \text{Menge} & \text{Alphabet} & Z \times \Sigma \rightarrow Z & \in Z & \subseteq Z \end{array} \right)$$

$$T(D) = \left\{ x \in \Sigma^* \mid \hat{\delta}(S, x) \cap E \neq \emptyset \right\}$$