Regular grammars

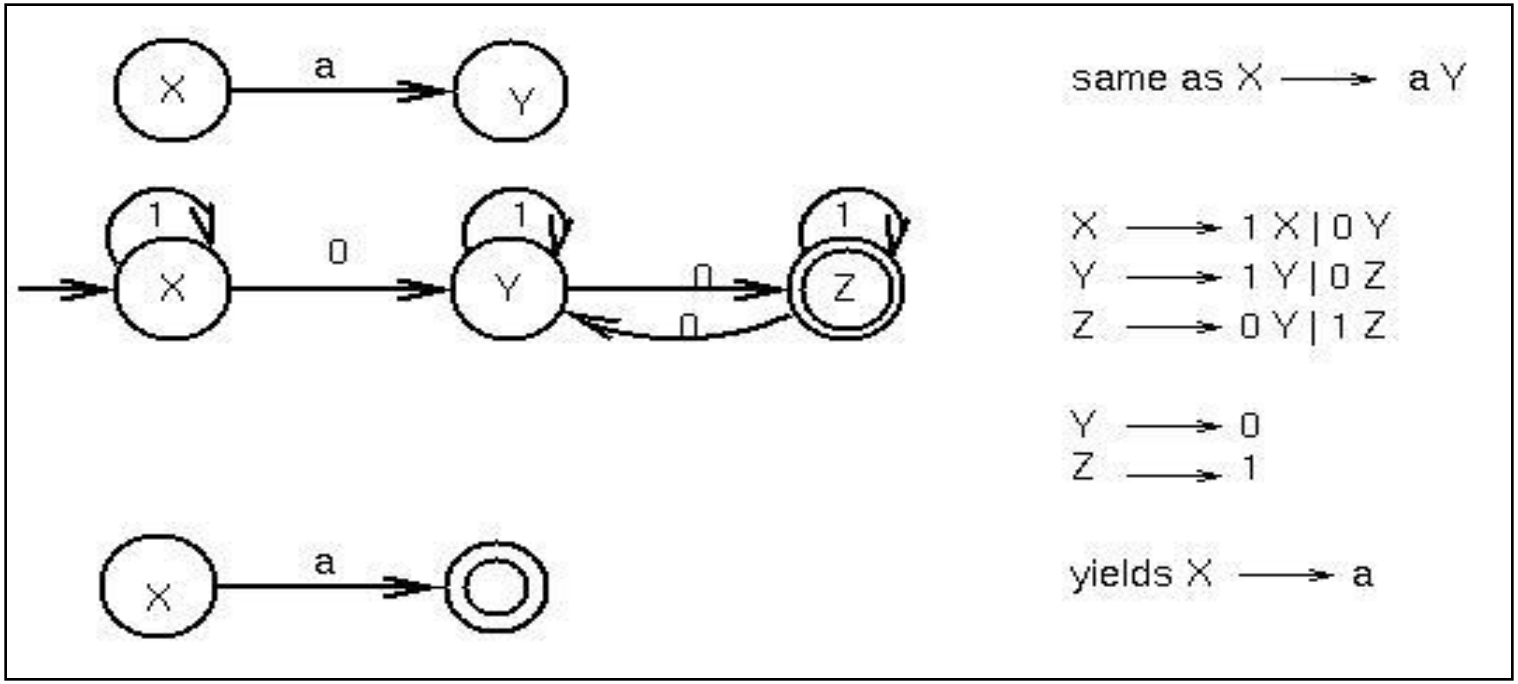
- Simplest; less powerful than context-free grammar
- Equivalent to:
  - Regular expression
  - Finite-state automaton

- A regular grammar is a context free grammar where every production is of one of the two forms:
  - $X \rightarrow aY$
  - $X \rightarrow a$

  for $X, Y \in$ Nonterminal, $a \in$ Terminal

- Theorem: L(G) for regular grammar G is equivalent to L(M) for FSA M.

Equivalence of FSA and regular grammars



To go from regular grammar to FSA, make the following transformations: