

# Regular Languages and Finite State Machines

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1. Read the Wikipedia article on regular grammars. Summarize the salient points.
2. What is a Deterministic Finite Acceptor (DFA)?
3. What is a Non-Deterministic Finite Acceptor (NFA)?
4. Explain why the languages accepted by DFAs and NFAs are the equivalent.
5. Give a recursive definition of *regular expression* over an alphabet  $\Sigma$ .
6. Confirm you know how to use operating system commands to find regular expressions in a file.

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