

Concepts of Programming Languages, CSCI 305, Fall 2021
Translation of DFA to Minimum DFA, Sept. 13
Section 2.2.1 Generating a Finite Automaton - continued, 60-61

Every DFA is translatable to a minimal DFA

Algorithm for converting an NFA to a DFA:

1. Place the states of the DFA into two equivalence classes: final states and non-final states.
2. Repeat until no more classes to partition:
Search for an equivalence class X and an input symbol c such that when given c as input, the states in X make transitions to states in $k > 1$ different classes. Partition X into k classes so that all states in a given new class move to a member of the same class on c .