The First Daily Question

(due September 9, 2005) Draw the state transition diagram for a finite automaton over the alphabet $\{a, b, c\}$ that accepts a string if-and-only-if every 'a' is followed by a 'b' without an intervening 'c'. For example, the strings abc, aaabbabbccbbabcab, and ϵ are in the language accepted by the machine, but the strings ac and ba are not.