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Title: A universality theorem for the sequential behaviour of minimal F-automata

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In a sequence of previous articles, we have dealt with the final behaviour of certain types of automata, including F-automata. In the present paper, we tackle the study of the sequential behaviour of F-automata. We construct a pair of adjoint functors (E^*, N^*) between the categories $F\mathbf{A}$ of reachable F-automata and the category $F\mathbf{B}^*$ of sequential behaviours of F-automata. Thus, we provide a Goguen-like universality theorem for the sequential behaviour of F-automata.

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