

Verification in Isabelle/HOL of Hopcroft's algorithm for minimizing DFAs including runtime analysis

Vincent Trélat

supervised by Prof. Dr. Tobias Nipkow and Dr. Peter Lammich

Technical University of Munich
Chair for Logic and Verification

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Outline

1. Living in Munich

1.1 The city

1.2 Technical University of Munich

2. Hopcroft's algorithm

2.1 DFA minimization by example

2.2 Towards a formal definition...



Figure: Location of Munich

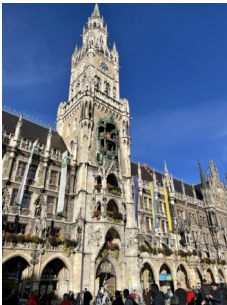


Figure: Some photos of Munich



















Figure: Technical University of Munich (TUM)

1. Living in Munich

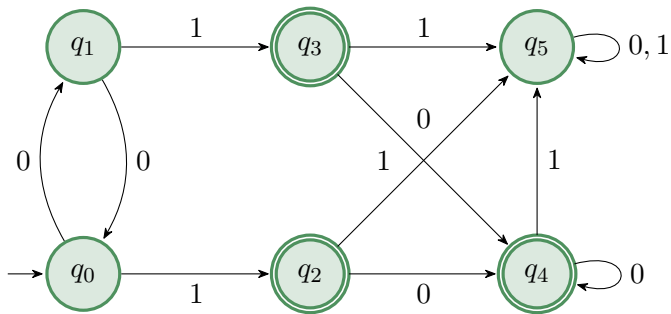
1.1 The city

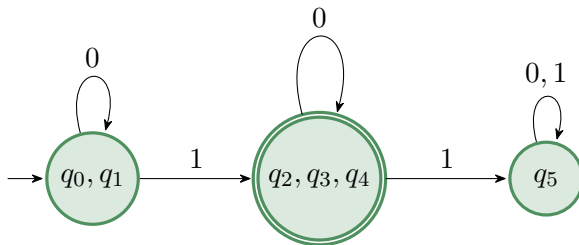
1.2 Technical University of Munich

2. Hopcroft's algorithm

2.1 DFA minimization by example

2.2 Towards a formal definition...





Formalization