Some examples type setting finite automata in \LaTeX

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Put the following in your preamble:

\usepackage{tikz}
\usetikzlibrary{arrows,automata}

```
\begin{tikzpicture}[->,>=latex,thick,auto,node distance=2.5cm]
\node[state,initial] (q1) {$q_1$};
\node[state,accepting] (q2) [right of=q1] {$q_2$};
\node[state] (q3) [right of=q2] {$q_3$};
\path (q1) edge [loop above] node {0} (q1);
\path (q1) edge node {1} (q2);
\path (q2) edge [bend left] node {0} (q3);
\path (q3) edge [bend left] node {0,1} (q2);
\end{tikzpicture}
```







