Schaltpläne mit dem Paket `circuitikz` erstellen

```
\begin{circuitikz}
 \draw
  (0,0)--(1,0) to[european resistor,l=$47$\,k$\Omega$] (3,0)--(5,0)
    to[C, l=$470$\,$\mu$F] (7,0) -- (8,0)
  (4.5,0) to[short, -*] (4.5,0) -- (4.5, -2)
  (4.5,-2) -- (5,-2) to[voltmeter, l=$U_C$] (7,-2) -- (7.5,-2)
  (7.5, -2) to[short, -*] (7.5,0)
  (8,1) node[spdt, rotate=90] (Ums) {}
  (Ums) node[right=0.4cm] {$WS$}
  (Ums.out 1) node[left] {1}
  (Ums.out 2) node[right] {2}
  (0,0) |- (2,4) to[closing switch, l=$S$] (3,4) to[battery1, l=$U$]
    (5,4) -| (Ums.out 2)
  (Ums.in) -- (8,0)
  (Ums.out 1) |- (0,2) to[short, -*] (0,2)
 ;
\end{circuitikz}
```