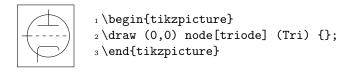
This document describes the use of a standard triode tube in the schematic drawing extension CircuiTikZ. It is highly configurable and has a large number of anchors.

Basic usage

The triode must be placed as a node, for example:



You can draw the filament if you like:

```
1 \begin{tikzpicture}line width=1pt,font=\sffamily\footnotesize
2 \draw (0,0) node[triode,filament] (Tri) {};
3 \end{tikzpicture}
```

Triode anchors

The triode has three basic anchors and a text (or label) anchor: anode, cathode grid and text. The can be accessed by *nodename*.anode, *nodename*.cathode, *nodename*.grid and *nodename*.text. The filament has no anchors. The position of the anchors is shown below.

```
anode
grid • ---- • text

cathode

anode

grid • ---- • text

cathode

1 begin{tikzpicture}

2 \draw (0,0) node[triode] (Tri) {}

3 \foreach \tria/\trip in {grid/left, anode/above, cathode/below, text/right}

5 {

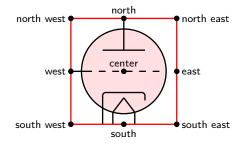
6 (Tri.\tria) node[circ] {} node[\trip] {\tria}

7 }

8;

9 \end{tikzpicture}
```

Below is a figure that shows all geographical anchors (scaled by 2, filled with pink, bounding box).



The following parameters can be altered:

```
7 \ctikzset{tubes/triode/cathode corners/.initial=0.06} % corners of the cathode wire
8 \ctikzset{tubes/triode/cathode right extend/.initial=0.075} % extension at the right
side
9 \ctikzset{tubes/triode/grid protrusion/.initial=0.10} % distance in tube circle
10 \ctikzset{tubes/triode/grid dashes/.initial=5} % number of grid dashes
11 \ctikzset{tubes/triode/filament distance/.initial=0.05} % distance from cathode
12 \ctikzset{tubes/triode/filament angle/.initial=15} % Angle from centerpoint
```

Sample network:

