PGF (Portable Graphics Format) is an internal engine, whereas TikZ (TikZ ist kein Zeichenprogramm) serves as a frontend.

zerenenprogramm) berveb ab a frontena.

% ... \usepackage{tikz} \begin{document} \begin{tikzpicture} % larger picture code here \end{tikzpicture} % ...

Available colours



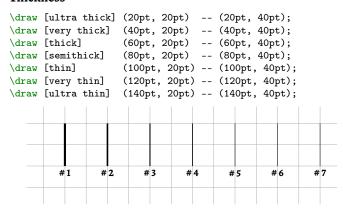
Basic shapes

Usage

```
\draw (10pt, 20pt) .. controls (30pt, 40pt) and (30pt, 20pt)
.. (10pt, 40pt);
\draw (40pt, 20pt) -- (60pt, 20pt) -- (50pt, 40pt) -- cycle;
\draw (80pt, 30pt) circle (10pt);
\draw (105pt, 30pt) ellipse (5pt and 10pt);
\draw [->] (120pt, 20pt) -- (140pt, 40pt);

#1 #2 #3 #4 #5
```

Thickness



Dots and dashes

All lines drawn below are ultra thick.

```
\draw [ultra thick, densely dotted];
\draw [ultra thick, dotted];
\draw [ultra thick, loosely dotted];
\draw [ultra thick, densely dashed];
\draw [ultra thick, dashed];
\draw [ultra thick, loosely dashed];
\draw [ultra thick, dashdotted];

#1 #2 #3 #4 #5 #6 #7
```