



```
% !TEX encoding = UTF-8 Unicode
% !TEX TS-program = pdflatex
\documentclass{article}
\usepackage{tikz}
\begin{document}
\begin{tikzpicture}
\draw [lightgray] (-2, -2) grid (2, 2);
\node at(0,1){north};
\node at(-1,0){west};\node at(0,0){origin};\node at(1,0){east};
\node at(0,-1){south};
\end{tikzpicture}
\end{document}
```