

Basics

Jigsaw piece

```
\piece{<bottom>}{<right>}{<top>}{<left>}
```

0: edge

out

1: in

Example

\begin{tikzpicture}
 \piece{0}{1}{1}{-1}
\end{tikzpicture}



Colour

Fill Colour

\begin{tikzpicture}
 \piece [magenta] {-1}{1}{-1}{1}
\end{tikzpicture}



Contour colour

\begin{tikzpicture}
 \color{magenta}\piece{-1}{-1}{1}{1}
\end{tikzpicture}



TikZ pic

```
\begin{tikzpicture}
  \path (2,-3) pic[
   fill=blue,draw=magenta,thick
  ]{piece={1}{-1}{1}{0}};
\end{tikzpicture}
```



Positioning I – manually

```
Manually
\begin{tikzpicture}
\pic at (0,1)
  [fill=magenta] {piece={1}{1}{0}{0}};
\pic at (1,1)
  [fill=blue]{piece={1}{0}{0}{-1}};
\pic at (0,0)
  [fill=blue]{piece={0}{-1}{-1}{0}};
\pic at (1,0)
  [fill=magenta] {piece={0}{0}{-1}{1}};
\end{tikzpicture}
```

Positioning II – TikZ matrix



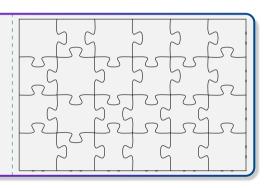
Positioning III - \tile

```
\tile[magenta]{1}{1}{0}{0}%
\tile[lightgray]{1}{-1}{0}{-1}%
\tile[blue]{1}{0}{0}{1}
\tile[blue]{1}{-1}{-1}{0}%
\tile[magenta]{1}{-1}{-1}{1}%
\tile[lightgray] {-1} {0} {-1} {1}
\tile[lightgray] {0} {-1} {-1} {0}%
\tile[blue]{0}{-1}{-1}{1}%
\tile[magenta] {0} {0} {1} {1}
```



Automatic jigsaw generation I

```
\begin{tikzpicture}
\jigsaw{6}{4}
\end{tikzpicture}
```



Automatic jigsaw generation II

```
\begin{tikzpicture}
\node at (3,2) {%
  \includegraphics[width=6cm,height=4cm]
      {example-image-duck}
};
\jigsaw{6}{4}
\end{tikzpicture}
```

