

Das jigsaw Paket

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Dante Herbsttagung

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Puzzle Teil

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

- 0: Kante
- 1: Innen
- 1: Außen

Beispiel

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



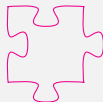
Füllfarbe

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



Umrandung

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



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



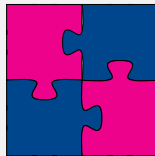
Manuell

```
\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}
```



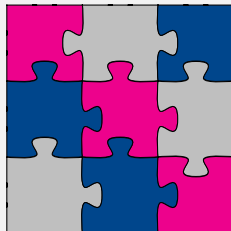
Positionierung II – TikZ matrix

```
\begin{tikzpicture}
\matrix [nodes=draw]{
\pic [fill=magenta]{piece
    ={-1}{-1}{0}{0}}; &
\pic [fill=blue]{piece={1}{0}{0}{-1}}; \\
\pic [fill=blue]{piece={0}{-1}{1}{0}}; &
\pic [fill=magenta]{piece={0}{0}{-1}{1}}; \\
};
\end{tikzpicture}
```



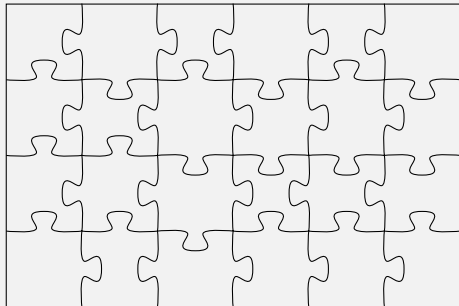
Positionierung III – \tile

```
\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}
```



Automatische Puzzeln I

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



Automatische Puzzeln II

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

