The TikZsaw package

Drawing jigsaw pieces in TikZ



samcarter

https://github.com/samcarter8/tikzsaw

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1 Introduction

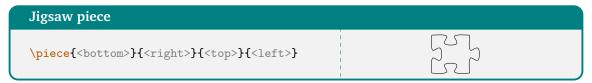
The TikZsaw package allows to draw adjustable jigsaw pieces in TikZ, to combine them and even to automatically create complete jigsaws. It is based on the TeX.Stackexchange answers https://tex.stackexchange.com/a/446296/36296.

The development version of this package is located at github.com/samcarter8/tikzsaw. If you have any problems, ideas or other feedback, please make constructive use of its bug tracker.

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2 Usage

An individual jigsaw piece can be drawn with



wherein arguments specify for each side if it should be a tab (-1), a straight line (0) or a slot (1). The following example will produce a jigsaw piece with one tab sticking out, one straight boarder and one slot:



With an optional argument, a fill colour can be passed to the piece:

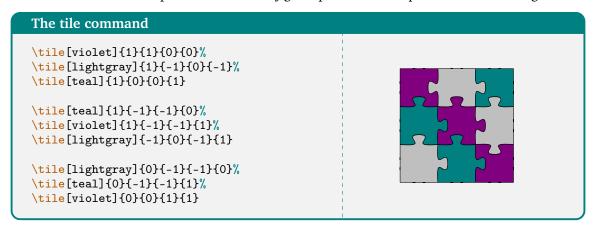
Or to change the line colour:

```
Coloured piece

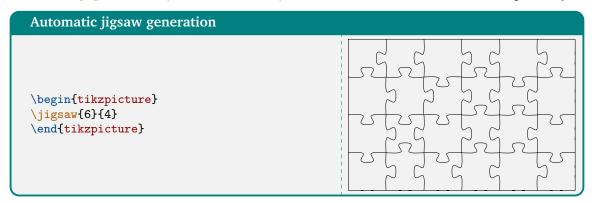
| begin{tikzpicture}
| color{teal}\piece{-1}{-1}{1}{1}
| end{tikzpicture}
```

The shapes of the jigsaw pieces are designed to seamlessly fit into each other which allows to produce tile patters.

Manually position each jigsaw piece at the correct position can be tedious, therefore the command \tile[<colour>]{<bottom>}{<tip>}{<top>}{<left>} was added. It can be used outside of the tikzpicture environment to place the pieces besides each other like normal letters in a text. Line breaks have to be added at the appropriate positions and one has to be careful not to introduce additional spaces between the jigsaw pieces from unprotected line endings.



Finally there is also the possibility to automatically generate complete jigsaw puzzles using the command $\jigsaw{<x>}{<y>}$, with <x> and <y> the number of rows and columns, respectively.



This automatically generated jigsaw can also be overlaid on a picture:

