

thematicpuzzle [en]

Present a horizontal 'puzzle',
with different themes.

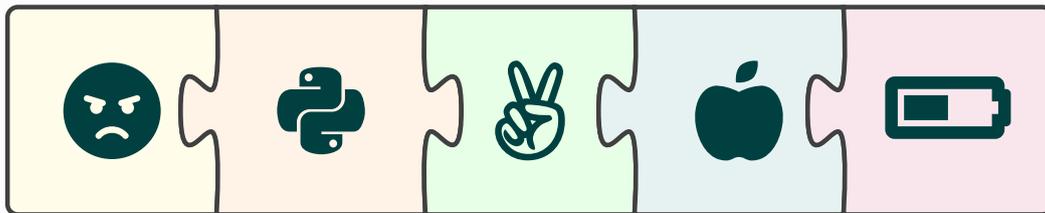
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<https://github.com/cpierquet/thematicpuzzle>

A B C D E F G H



Angry

Python

Cool

Apple

Battery

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1 Introduction

1.1 Description

With this package, it is possible to create a *horizontal banner*, in the form of a puzzle, with different themes.

The styles are *globally* fixed, but it is possible to configure:

- colors;
- icons;
- labels.

The interior *borders* are randomly oriented to the left or to the right, and the code takes care of coloring (if applicable) the parts satisfactorily.

1.2 Decorations

For the moment, the *decorations* of the parts must be declared as characters, for example with icons from the `fontawesome5` package (loaded by the package).

Ultimately, it may be possible to insert images or TikZ codes, this is one of the areas for improvement.

1.3 Loading

To load the package, simply add in the preamble :

```
\usepackage{thematicpuzzle}
```

The useful and loaded packages are:

- `tikz`;
- `fontawesome5`;
- `simplekv`, `listofitems` and `xstring`.

1.4 History

0.1.0: Initial release

2 The macro

2.1 General usage, keyx and options

In order to create a *theme puzzle*, the command is:

```
%----thematic puzzle
\ThematicPuzzle[keys]<tikz options>{decoration list}
```

The keys, optional and between [...], are:

- **Thickness** := thickness of the lines (1pt by default);
- **Scale** := global scale of the figure (1 by default);
- **BgColors** := background color (empty by default);
- **BorderColor** := color(s) (if necessary separated by ,) of the borders (black by default);
- **Labels** := (optional) labels of the themes (empty by default);
- **ScaleLabels** := label scale (1.15 by default);
- **FontLabels** := label font (\tiny\sffamily by default);
- **IconsColor** := color of icons and labels (black by default).

The optional argument, between <...>, corresponds to specific options (in TikZlanguage) to pass to the created environment.

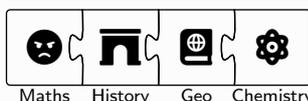
The obligatory argument, between {...}, corresponds to the list of decorations (in the form of *characters*) of the different puzzle pieces, within form {deco<1>,deco<2>,...,deco<n>}

2.2 Examples

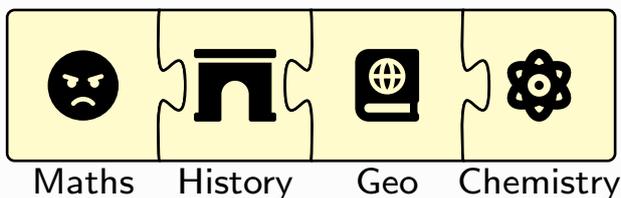
```
\ThematicPuzzle{\faAngry,\faArchway,\faAtlas,\faAtom}
```



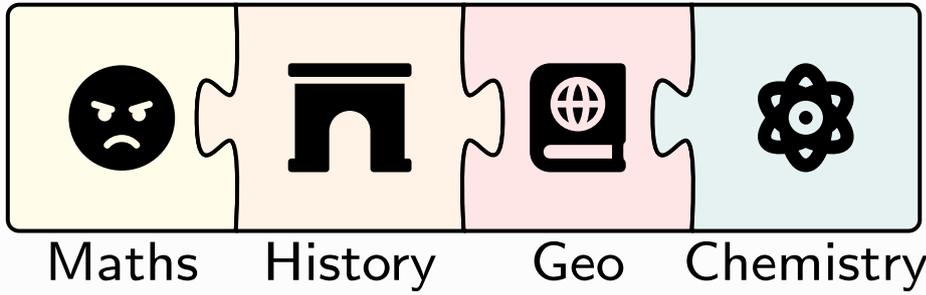
```
\ThematicPuzzle[Labels={Maths,History,Geo,Chemistry}]%
{\faAngry,\faArchway,\faAtlas,\faAtom}
```



```
\ThematicPuzzle%
[Scale=2,BgColors=yellow!25,Labels={Maths,History,Geo,Chemistry}]%
{\faAngry,\faArchway,\faAtlas,\faAtom}
```



```
\ThematicPuzzle%
[Scale=3,BgColors={yellow!10,orange!10,red!10,teal!10},
Labels={Maths,History,Geo,Chemistry}]%
{\faAngry,\faArchway,\faAtlas,\faAtom}
```



```
\ThematicPuzzle%
[Thickness=2pt,Scale=1.25,
BgColors={yellow!10,orange!10,red!10,teal!10,purple!10,gray!10},
IconsColor=teal!50!black]%
{P,Y,T,H,O,N}
```

