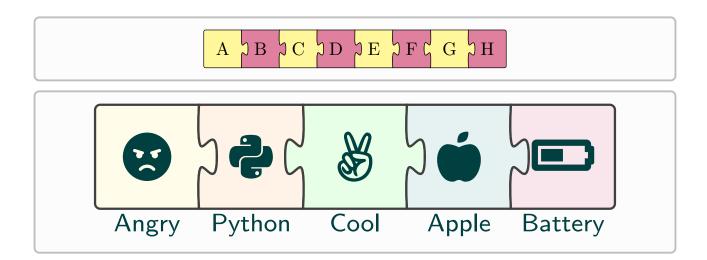
# thematicpuzzle [en]

Present a horizontal 'puzzle', with different themes.

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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 et xintexpr;
- simplekv, listofitems et xstring.

### 1.4 History

0.1.1 : Enhancements for colors

0.1.0 : Initial release

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## 2 The macro

#### 2.1 General usage, keys 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(s) (see paragraph on colors);
- BorderColor := color(s) of the borders (black by default);
- Labels := (optional) labels of the themes ({} 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  $\langle ... \rangle$ , corresponds to specific options (in TikZ language) 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 The colors of the boxes

Concerning the color of the boxes, it's the key BgColors which is in charge. It can work in several ways:

- by default it is empty, which does not color the boxes;
- it can be given in a single form, via BgColors=mycolor, in which case all the boxes are of the same color;
- we can give it in the form of a list BgColors={mycolorA,mycolorB,...} and:
  - in the case where the number of colors is sufficient, they are used one after the other;
  - otherwise, the code takes care of *repeating* the pattern of the proposed colors.

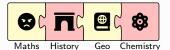
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## 2.3 Examples

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

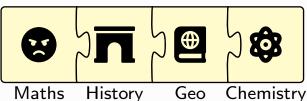


\ThematicPuzzle[Labels={Maths, History, Geo, Chemistry}, BgColors={yellow!25, red!25}]% {\faArchway, \faAtlas, \faAtom}



\ThematicPuzzle%

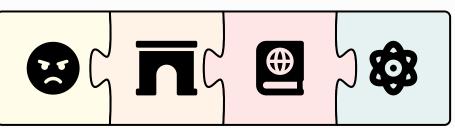
[Scale=2,BgColors=yellow!25,Labels={Maths,History,Geo,Chemistry}]% {\faArchway,\faAtlas,\faAtom}



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\ThematicPuzzle%

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



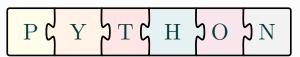
Maths History Geo Chemistry

\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}



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