PixelArtTikz [en]

PixelArts, with TikZ, with solution and colors.

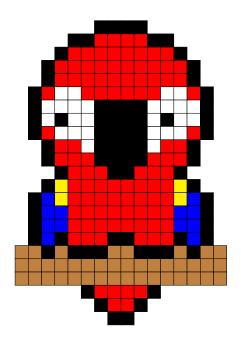
Version 0.1.5 - 31/10/2024

Cédric Pierquet
c pierquet - at - outlook . fr
https://github.com/cpierquet/PixelArtTikz

- ▶ Commands to display PixelArts.
- ► Environment to complete the PixelArt.

						4	4	4	4							
				4	4	1	1	1	1	4	4					
			4	1	1	1	1	1	1	1	1	4				
		4	1	1	1	1	1	1	1	1	1	1	4			
		4	1	1	1	1	1	1	1	1	1	1	4		_	
	4	1	9	9	1	1	1	1	1	1	9	9	1	4		
	4	9	9	9	9	4	4	4	4	9	9	9	9	4		
	4	9	4	9	9	4	4	4	4	9	4	9	9	4		
	4	1	9	9	9	4	4	4	4	9	9	9	1	4		
		4	1	1	9	4	4	4	4	9	1	1	4			
		4	1	1	1	4	4	4	4	1	1	1	4			
			4	1	1	1	4	4	1	1	1	4				
		4	3	1	1	1	1	1	1	1	1	3	4			
	4	6	3	1	1	1	1	1	1	1	1	3	6	4		
	4	6	6	1	1	1	1	1	1	1	1	6	6	4		
	4	6	6	1	1	1	1	1	1	1	1	6	6	4		
	4	6	4	1	1	1	4	4	1	1	1	4	6	4		
2	2	4	2	4	4	4	2	2	4	4	4	2	4	2	2	
2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
					4	1	1	1	1	4						
						4	1	1	4							
							4	4								

						D	D	D	D							
				D	D	Α	Α	Α	Α	D	D					
			D	Α	Α	Α	Α	Α	Α	Α	Α	D				
		D	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	D			
		D	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	D			
	D	Α	F	F	Α	Α	Α	Α	Α	Α	F	F	Α	D		
	D	F	F	F	F	D	D	D	D	F	F	F	F	D		
	D	F	D	F	F	D	D	D	D	F	D	F	F	D		
	D	Α	F	F	F	D	D	D	D	F	F	F	Α	D		
		D	Α	Α	F	D	D	D	D	F	Α	Α	D			
		D	Α	Α	Α	D	D	D	D	Α	Α	Α	D			
			D	Α	Α	Α	D	D	Α	Α	Α	D				
		D	С	Α	Α	Α	Α	Α	Α	Α	Α	С	D			
	D	Ε	С	Α	Α	Α	Α	Α	Α	Α	Α	С	Ε	D		
	D	Ε	Ε	Α	Α	Α	Α	Α	Α	Α	Α	Ε	Ε	D		
	D	Ε	Ε	Α	Α	Α	Α	Α	Α	Α	Α	Е	Ε	D		
	D	Ε	D	Α	Α	Α	D	D	Α	Α	Α	D	Ε	D		
В	В	D	В	D	D	D	В	В	D	D	D	В	D	В	В	
В	В	В	В	В	В	В	В	В	В	В	В	В	В	В	В	
В	В	В	В	В	В	В	В	В	В	В	В	В	В	В	В	
					D	Α	Α	Α	Α	D						
						D	A	Α	D							
							D	D								



MEX

pdfPTEX

LualATEX

TikZ

TEXLive

MiKTEX

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Part I

Introduction

1 The package PixelArtTikz

1.1 Introduction

The idea is to propose, within a TikZ environment, a macro to generate PixelArt.

The data is read from a csv file, already existing in the folder of the tex file, or created on-the-fly by filecontents.

Some advices about the cvs file:

- the csv file must use "," as separator;
- empty cells are coded by "-".

```
\begin{filecontents*}{filename.csv}
A,B,C,D
A,B,D,C
B,A,C,D
B,A,D,C
\end{filecontents*}
```

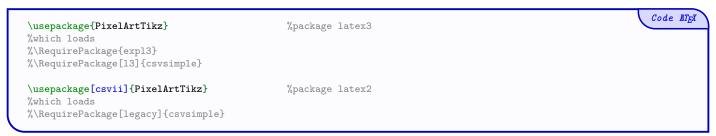
While compiling, the file filename.csv will be created, and the option ([overwrite]) will propagate the modifications!

1.2 Loading of the package, and option

The package csvsimple is necessary in order to read the csv file.

The package is available in two versions, one written in LATEX 2_{ε} and the other in LATEX 3. By default, PixelArtTikz loads the LATEX 3 version, but an *option* is available to work with the LATEX 2_{ε} version.

The option $\langle [csvii] \rangle$ forces the usage of the LATEX 2_{ε} version.



1.3 Used packages

It's fully compatible with usual LATEX engines, such as latex, pdflatex, lualatex or xelatex.

It loads the following packages and libraries:

- tikz, xintexpr et xinttools;
- xstring, xparse, simplekv and listofitems.

1.4 Macros and environment

There are two ways to create PixelArt:

- with an independent macro;
- \bullet with a TikZ environment in order to add code afterwards.

```
%Independent macro

\PixlArtTikz[keys] < options tikz > {file.csv}

%Semi-independent macro, in a tiks environment

\PixlArtTikz*[keys] {file.csv}

%environment

\begin{EnvPixlArtTikz}[keys] < options tikz > {file.csv}

%tikz code

\end{EnvPixlArtTikz}
```

2 Colors

Concerning colors: the user can use all colors provided by loaded packages!

Without extra packages, the available colors are:

magenta	cyan	blue	green	${f red}$	darkgray	olive	lime	brown	lightgray
white	gray	black	yellow	violet	teal	purple	pink	orange	

Part II

Macros and environment

3 Main macro

3.1 Example

The macro \PixlArtTikz needs:

- the file csv;
- the list (by a string) of codes used in the file csv (e.g. 234679 or ABCDJK...);
- the list of symbols (if needed) to print in the cells, e.g. 25,44,12 or AA,AB,AC;
- the list of colors (for the correction), same order as the codes.

We can begin by creating the file csv, directly within the tex code, or with a external file.

```
%creation of the csv

\begin{filecontents*}[overwrite]{base.csv}

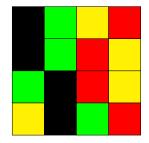
A,B,C,D
A,B,D,C
B,A,D,C
C,A,B,D
\end{filecontents*}
```

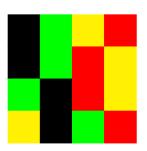


Instructions						
A	A B C D					
45	22	1	7			
Black	Green	Yellow	Red			

Α	В	С	D
Α	В	D	C
В	Α	D	С
С	А	В	D

45	22	1	7
45	22	7	1
22	45	7	1
1	45	22	7





3.2 Options and keys

```
\PixlArtTikz[keys]<options tikz>{file.csv}
```

The first argument, optional and between [...] proposes the keys:

- the key **(Codes)** with the *string* of *simple* codes of the csv file;
- the key (Colors) with the *list* of colors;
- the key **(Symbols)** with the *optional list* of alt. symbols for the cells;
- the boolean **(Correction)** to color the PixelArt;

default false

• the boolean **(Symb)** to print the symbols;

default false

• the boolean (Border) to print borders of the cells;

default true

• the key **(Style)** to specifythe style of the text.

default \scriptsize

The second argument, optional and between <...>, are TikZ options to pass on to the environment which creates the PixelArt.

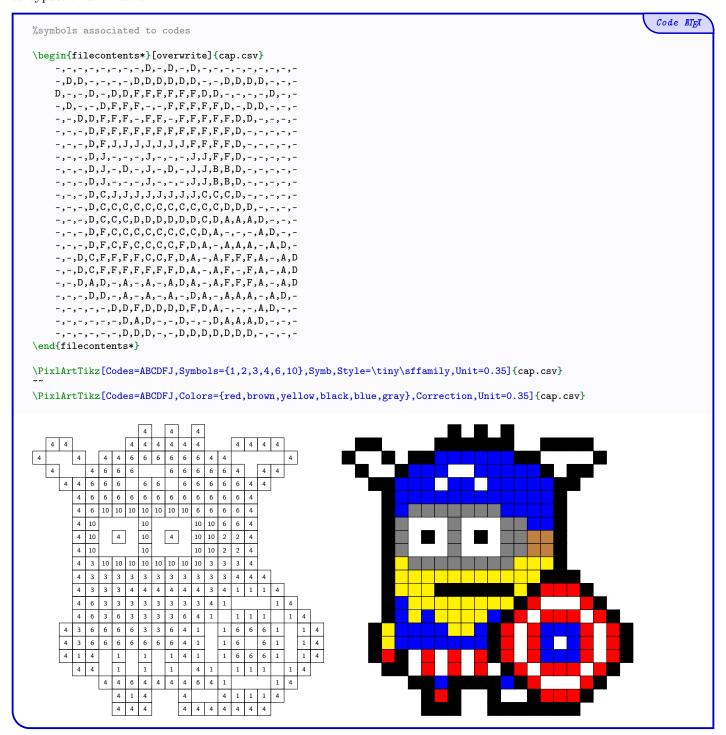
The third argument, mandatory, is the filename of the csv.

```
Code ATEX
%creation of the csv
\begin{filecontents*}[overwrite]{test1.csv}
   -,-,-,-,4,4,1,1,1,1,4,4,-,-,-,-
   -,-,-,4,1,1,1,1,1,1,1,1,4,-,-,-
   -,-,4,1,1,1,1,1,1,1,1,1,1,4,-,-
   -,-,4,1,1,1,1,1,1,1,1,1,4,-,-
   -,4,1,9,9,1,1,1,1,1,1,9,9,1,4,-
   -,4,9,9,9,9,4,4,4,4,9,9,9,9,4,-
   -,4,9,4,9,9,4,4,4,4,9,4,9,9,4,-
   -,4,1,9,9,9,4,4,4,4,9,9,9,1,4,-
   -,-,4,1,1,9,4,4,4,4,9,1,1,4,-,-
   -,-,4,1,1,1,4,4,4,4,1,1,1,4,-,-
   -,-,-,4,1,1,1,4,4,1,1,1,4,-,-,-
   -,-,4,3,1,1,1,1,1,1,1,1,3,4,-,-
   -,4,6,3,1,1,1,1,1,1,1,1,3,6,4,-
   -,4,6,6,1,1,1,1,1,1,1,1,6,6,4,-
   -,4,6,6,1,1,1,1,1,1,1,1,6,6,4,-
   -,4,6,4,1,1,1,4,4,1,1,1,4,6,4,-
   2,2,4,2,4,4,4,2,2,4,4,4,2,4,2,2
   2,2,2,2,2,2,2,2,2,2,2,2,2,2,2
   2,2,2,2,2,2,2,2,2,2,2,2,2,2,2
   -,-,-,-,-,-,-,-
   -,-,-,-,-,-,-,-,-
    -,-,-,-,-,-,-,4,4,-,-,-,-,-,-,-,-
\end{filecontents*}
```

Code MTEX %simple codes %empty case with -\PixlArtTikz[Codes=123469,Style=\ttfamily,Unit=0.35]{test1.csv} \PixlArtTikz[Codes=123469,Colors={red,brown,yellow,black,blue,white},Correction,Unit=0.35,Border=false]{test1.csv} 4 4 4 4 4 4 1 1 1 1 4 4
 4
 1
 1
 1
 1

 1
 1
 1
 1
 1
 1 1 1 1 4 1 1 1 1 1 4 4 1 1 1 1 1 1 1 1 1 4 4 1 9 9 1 1 1 1 1 1 9 9 1 4 4 9 9 9 9 4 4 4 4 9 9 9 9 4 4 9 4 9 9 4 4 4 4 9 4 9 9 4 4 1 9 9 9 4 4 4 4 9 9 9 1 4 4 1 1 9 4 4 4 9 1 1 4 1 1 1 4 4 4 4 1 1 1 4 4 1 1 1 4 4 1 1 1 4 3 1 1 1 1 1 1 1 1 3 4 4 6 3 1 1 1 1 1 1 1 1 3 6 4 4 6 6 1 1 1 1 1 1 1 1 6 6 4 4 6 6 1 1 1 1 1 1 1 1 6 6 4 4 6 4 1 1 1 4 4 1 1 1 4 6 4 2 2 4 2 4 4 4 2 2 4 4 4 2 2 2 4 4

In the following example, the *symbols* to print can't be used for the *codes*, so we can use the keys **(Symbols)** and **(Symb)** to bypass this limitation.



3.3 Symbols within list(s)

List of symbols can be given within list(s), picked randomly.

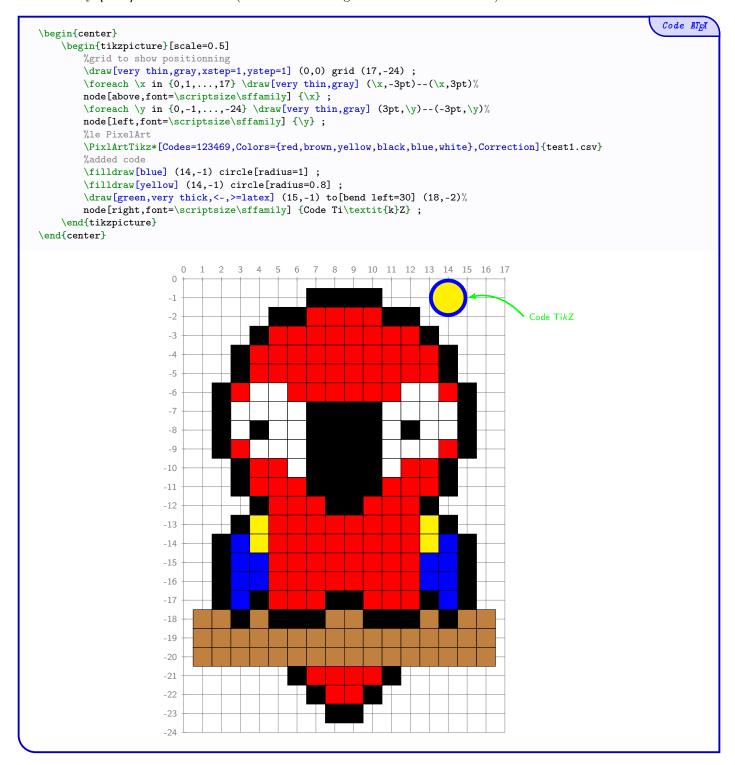
```
Code MTEX
\begin{filecontents*}[overwrite]{testlist.csv}
A,B,C,A
A,B,B,C
B,A,C,B
C,A,B,C
\end{filecontents*}
\textbf{Notice : }
Multiples of 5 : red\\
Multiples of 3 : green\\
Multiples of 2 : blue
\hspace{5mm}
\hspace{5mm}
\PixlArtTikz[Codes=ABC,Colors={red,green,blue},Correction,Style=\large\sffamily,Unit=0.85]{testlist.csv}
Notice:
Multiples of 5: red
Multiples of 3: green
Multiples of 2 : blue
 35
     3
         8
             5
                    5
                        3
                           16
                               35
 25
     9
         3
                   35
                       27
                           3
                               8
            14
             9
 21
     5
         2
                   27
                       35
                           4
                               27
 14
     5
        21
             4
                    4
                       35
                           21
                               14
```

3.4 Starred macro

The starred macro \PixlArtTikz* is to be used within an already created environment. It can be useful for adding code after the PixelArt.

In this case:

- the *optional* argument between <...> is discarded;
- the key (Unit) is discarded too (units can be configured in the environment!)



4 PixelArt environment

4.1 Usage

The package PixelArtTikz provides an environment to create a PixelArt and add code afterwards.

- The environment is created within TikZ and additional code is passed on to the TikZ environment!
- The additional code will be printed on top of the PixelArt!

```
\begin{EnvPixlArtTikz}[keys]<options tikz>{filename.csv}
%tikz code(s)
\end{EnvPixlArtTikz}
```

The first argument, optional and between [...], proposes the keys:

- the key (Codes) with the *string* of *simple* codes of the csv file;
- the key **(Colors)** with the *list* of colors;
- the key **(Symbols)** with the *optional list* of alt. symbols for the cells;
- the boolean (**Correction**) to color the PixelArt;

default false

• the boolean **(Symb)** to print the symbols;

default false

• the boolean (Border) to print borders of the cells;

default true

• the key **(Style)** to specifythe style of the text.

default \scriptsize

The second argument, optional and between <...>, is for TikZ options to be passed on to the environment which creates the PixelArt.

The third argument, mandatory, is the filename of the csv.

4.2 Example

The symbols are at the nodes (c; -l) where l and c are the row and column of the data in the csv file.

```
\begin{center}
\begin{center}
\begin{center}
\begin{center}
\code & ITEX
\left [Codes=123469, Colors={red, brown, yellow, black, blue, white}, Correction, Unit=0.25]
{test1.csv}
\filldraw[blue] (14,-1) circle[radius=1];
\filldraw[yellow] (14,-1) circle[radius=0.8];
\draw[green, very thick, <-,>=latez] (15,-1) to[bend left=30] (18,-2)%
node[right, font=\scriptsize\sffamily] {Ti\textit{k}\Z code};
\end{center}
\text{end{EnvPixlArtTikz}}
\end{center}
```

5 Macro for mini-PixelArt

5.1 Idea

The idea is tu propose a macro to insert, without csv file, a small PixelArt with small colors list.

```
\MiniPixlArt[keys]{list of colors}
```

The first argument, optional and between $[\ldots]$ proposes the $\mathsf{keys}:$

• the key **(Unit)** for dimension of the cells ;

default 0.25em,

• the boolean (Border) to print a small border for the cells.

default false

The second argument, mandatory and between $\{\ldots\}$, is the colors of the cells:

ullet each color is coded by a letter :

```
-R: {f red} -C: {f blue} -B: {f black} -.: {f white} -0: {f orange} -G: {f green} -Y: {f yellow} -L: {f gray} -M: {f maroon} -P: {f purple}
```

- each linebreak is done by , ;
- \bullet the thickness of the borders are 10 % of the unit.

The last argument, optional and between <...>, proposes options for the tikz environment.

5.2 Examples



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6 Macro for cutting PixelArt

6.1 Idea

The idea is to offer commands to create *collaborative* PixelArts, to form a *large* image from several small ones (of the same size).

For practical reasons (related to the use of filecontents) the file csv must end with an empty line (it is created automatically via filecontents, and the code uses this specificity).

The available **(keys)** are exactly the same as those in classic displays.

6.2 Global usage

The argument cutting can be given in the form:

- **(<number of block length>x<number of block col>)** to specify the size of the blocks;
- **<<number of V blocks>+<number of H blocks>**) to specify the number of blocks.

```
Code MTEX
\CutPixlArtTikz(*)[keys]<tikz options>{file.csv}{cutting}
%(*) := change layout formatting (A1 or 1.1)
%1 := keys
   := tikz options
%2
%3
    := csv file
    := block size (LxC) or block number (L+C)
\HelpGridPixelArtTikz(*)[scale]{file.csv}{cutting}
%(*) := change layout formatting (A1 or 1.1)
%1
     := scale of notice
%2
    := csv file
    := block size (LxC) or block number (L+C)
```

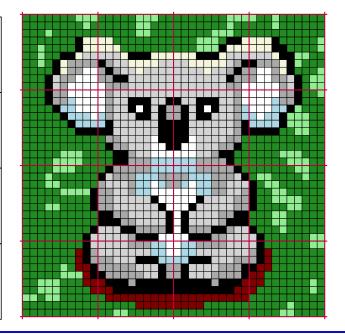
6.3 Example



\HelpGridPixelArtTikz*[2]{PAkoala.csv}{4+4}

 $\label{listcoulkoala} $$\Pr X = Correction, Vnit=0.2, Codes=ABCDEFGHI, Colors={\listcoulkoala}, Grid=4+4] $$PAkoala.csv$$$

1.1	1.2	1.3	1.4
2.1	2.2	2.3	2.4
3.1	3.2	3.3	3.4
4.1	4.2	4.3	4.4



\CutPixlArtTikz[Unit=0.3,Codes=ABCDEFGHI]{PAkoala.csv}{8x8}

Sample A1 A A A A A A A A A A A A A A A A A A	Sample A2 H H A A A A H H A A A A A H A A A A A A H E E E A A A E E E E A A A C C C C E B B D B D C C E F F D B D C C E	Sample A3 H H A A A A A H A A A A A H A A A A A H A A A A A A A A A	Sample A4 A A A H H H H A A A A A H H H A A A A	Sample A5 A H A A A A A A A A H A A A A A A E B A A A A A A E B B A A A A H C E B B H H A A D D E B H A A A F D E B A A A H
Sample B1 A A A B C D D F A A A B C D F F A A A B D D F F A A A B D D G F A A A A B G G F A A A A A B G G A A A A A A B G A A A A A A B G A A A A A A B G	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Sample B3 C C C C C C C C C	$\begin{array}{c c} Sample \ B4 \\ \hline C \ C \ C \ B \ D \ D \ D \ F \\ \hline C \ C \ C \ D \ D \ F \ F \ F \\ \hline B \ B \ C \ C \ D \ F \ F \ F \\ \hline B \ C \ C \ C \ D \ G \ G \ F \\ \hline C \ C \ C \ C \ D \ B \ G \ G \\ \hline C \ C \ C \ C \ D \ B \ B \ B \end{array}$	Sample B5 F D D C B A H H F F D C B A H H F F D D B A A H F G D D B A A A F G G B H A A A G G B H H H A A B B A A H H A A
Sample C1 A A A A A A A A A A A A A A A A A A A	Sample C2 A A A B D D C C C A A A B B D C C A A A B B D D C A A A B B D D D A A B B D D D D A A B C D D D G A A D C C C D G H B D D C C D G	$\begin{array}{c c} Sample & C3\\\hline C & F & B & B & B & F & C\\\hline C & F & F & B & B & F & F & C\\\hline C & F & F & F & F & F & F & C\\\hline D & G & G & G & G & G & D\\\hline D & G & G & G & G & G & D\\\hline G & G & D & D & D & G & G\\\hline G & F & G & D & D & G & F & G\\\hline G & F & F & F & F & F & F & F & F \end{array}$	Sample C4 C C C D D A A A C C D D B A A A C D B B A A A A D D D B A A A D D D D B A A A G D D C C B A H G D D C C C B A G D D C C D B A	Sample C5 A A A A A A A A A A A A H H H A A A A A A A
Sample D1 A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c c} Sample \ D3 \\ \hline CBFFFFBCCCBFFBCC\\ CCCBFBCC\\ \hline DDDBFBDD\\ BBFFFFBB\\ \hline DGGFFGGD\\ \hline CGGFFGCC\\ \hline \end{array}$	$\begin{array}{c c} Sample \ D4 \\ \hline C \ C \ C \ C \ D \ D \ B \ A \\ \hline C \ C \ C \ D \ D \ B \ B \ A \ A \\ \hline C \ C \ D \ B \ B \ B \ A \ A \\ \hline D \ B \ B \ D \ C \ C \ C \ B \\ \hline D \ D \ C \ C \ C \ C \ B \\ \hline C \ C \ C \ C \ C \ C \ D \ B \end{array}$	Sample D5 A H H H H H A A A A A A H H A A A A H H A A A A
Sample E1 A A A A A A A I A A A A A H H H A A H H H H A A A A A H H H H	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Sample E3 B B G G G B B C C B D D B C C C C B B B B B B B B	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Sample E5 I A A A A A A A I A A A A A A A A A A A

Code MTEX %16 blocks (4L 4C) \CutPixlArtTikz*[Unit=0.3,Codes=ABCDEFGHI,Correction,Colors={\listcoulkoala}]{PAkoala.csv}{4+4} ${\bf Sample~1.1}$ Sample 1.2Sample 1.3 ${\bf Sample~1.4}$ Sample 2.2 Sample 2.4 Sample 2.1 Sample 2.3 Sample 3.1Sample 3.2Sample 3.3 Sample 3.4 ${\bf Sample~4.1}$ Sample 4.2Sample 4.3Sample 4.4

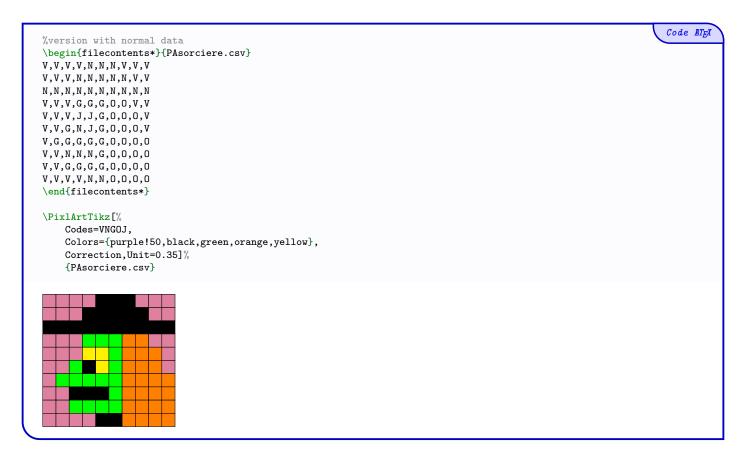
7 Anamorphic cylinder PixelArt

7.1 Idea

The idea is to provide something to create PixelArt with the aim of using a cylindrical anamorphosis. On https://www.youtube.com/watch?v=PT8KUozBg3I, there is a video demonstration, proposed by Jean-Yves Labouche. The overall operation is similar to that of the main command, however there are some adjustments:

- the possibility of giving the file csv in *normal* or *inverted* mode;
- the dimensions (width & middle) must be specified to produce the PixelArt;
- the command is standalone (for the moment) so no addition(s) later.





7.2 Keys and options

The first argument, optional and between [...] offers Keys necessary for the command to function properly:

• the key (Width) which defines the width (radius in cm) of the rendering; default 6

• the key **(Center)** which defines the width (radius in cm) of the *middle*;

default 1.25

- the key **(Codes)** contains the *string* of the *simple* codes of the file csv;
- the key (Colors) which contains the *list* of associated colors;
- the key (Symbols) which contains the possible list of alternative characters to display in the boxes;
- the key **(Style)** which allows you to specify the style of characters.

default normalsize

• the Boolean key (Correction) which allows you to color the PixelArt;

default false

• the Boolean key (Symb) which allows you to display the alternative characters;

default false

• the Boolean key **(Solution)** which displays the solution (with *mirror* effect);

default false

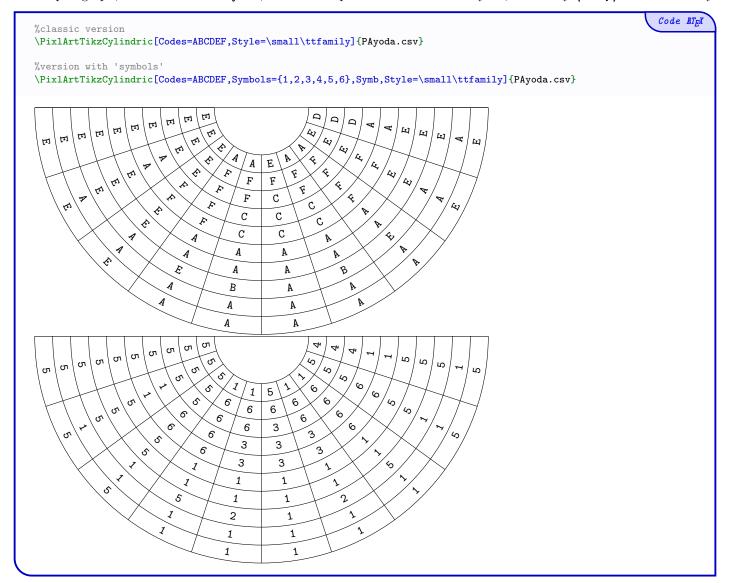
• the Boolean key (Swap) which allows you to specify the data type ((true) := normal; (false) := inverted).

default false

The second argument, mandatory, is the name of the csv file to use.

7.3 Example with inverted data (Yoda)

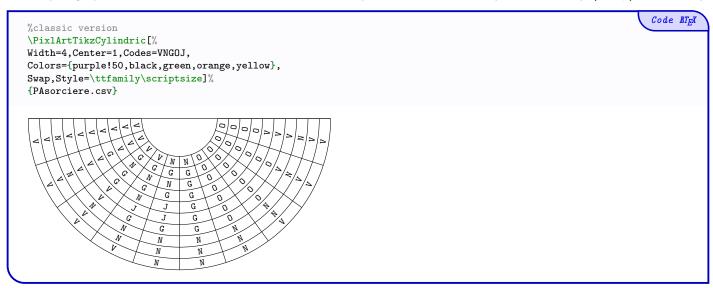
In this paragraph, we use the data PAyoda, which corresponds to the *inverted* layout, so the key (Swap) is not necessary.

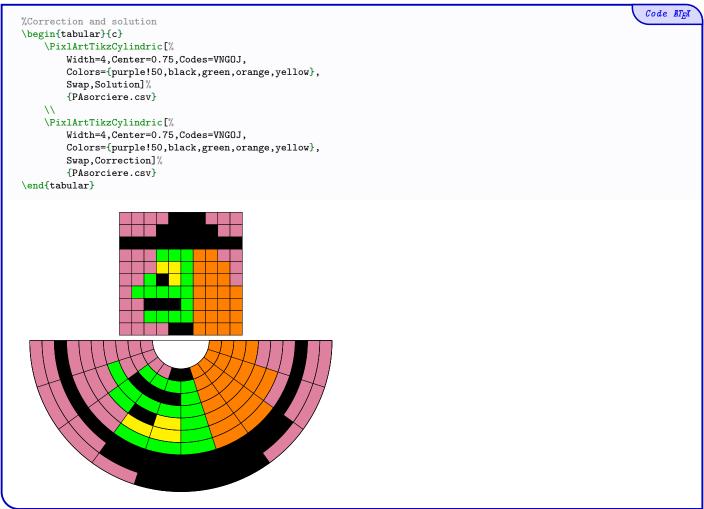


Code MTEX %Fix and solution $\verb|\begin{tabular}{c}|$ \PixlArtTikzCylindric[% Codes=ABCDEF, Colors={green,black,brown,white,brown!75!black,lightgray}, ${\tt Solution]\%}$ {PAyoda.csv} \PixlArtTikzCylindric[% Codes=ABCDEF, Colors={green,black,brown,white,brown!75!black,lightgray}, Correction]% {PAyoda.csv} $\ensuremath{\mbox{\ensuremath{\ensuremath{\mbox{\ensuremath}\ensuremath{\mbox{\ensuremath}\ensuremath{\ensuremath{\mbox{\ensuremath}\ens$

7.4 Example with classic data (Witch)

In this paragraph, we use the data PAsorciere, which corresponds to the normal layout, so the key (Swap) is necessary.





Part III

History

v0.1.5: Symbols can be given with list(s) + Enhancements of internal code

v0.1.4: Anamorphic cylinder PixelArts

v0.1.3: Cut PixelArts within several PixelArts

v0.1.2: mini-PixelArts v0.1.1: Bugfix with color v0.1.0: Initial version