euromoney

Insert ’vectorial’ coins or banknotes in euro.

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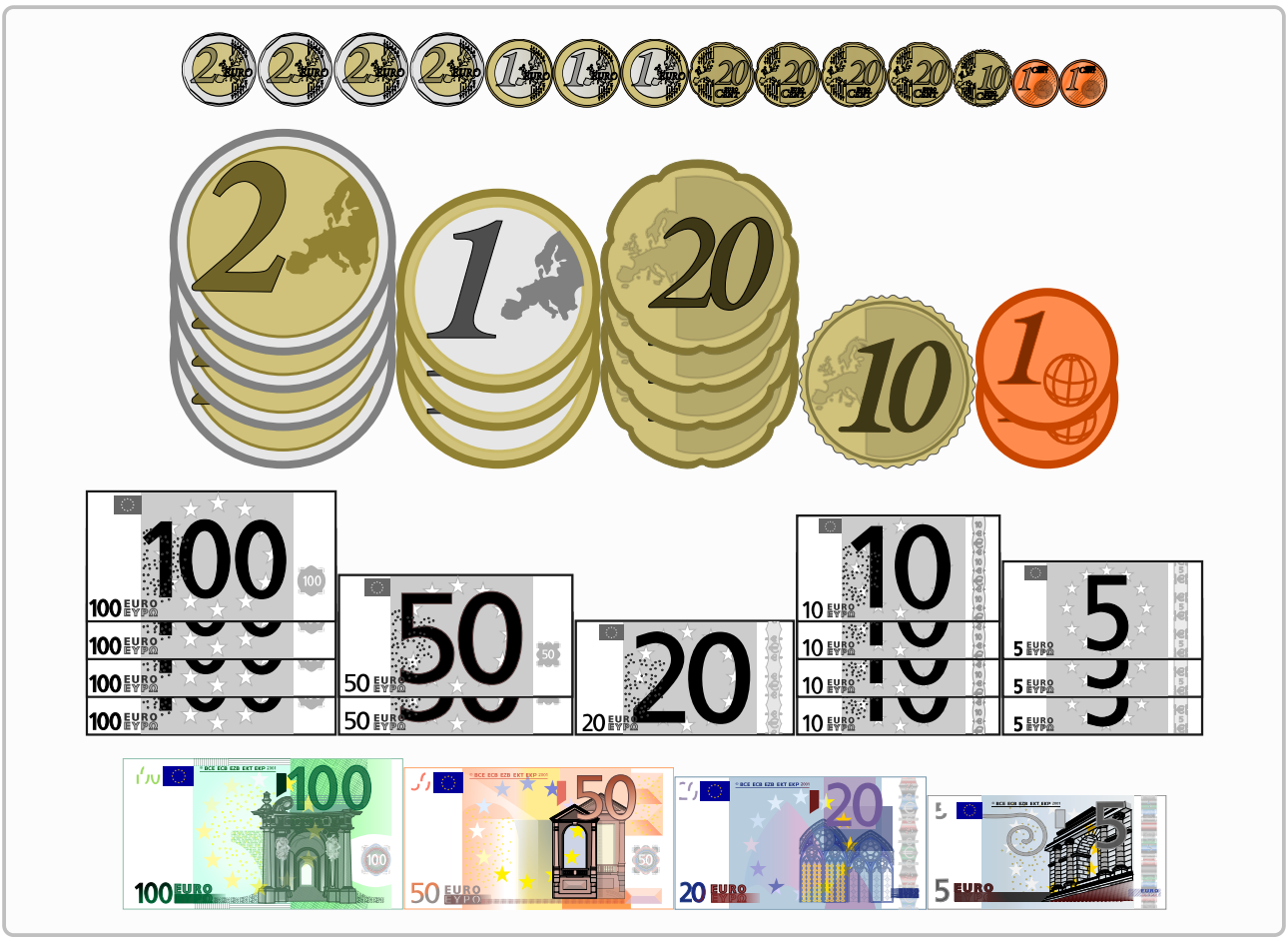
https://github.com/cpierquet/euromoney



The pdf files were obtained by converting vector svg *(public domain) files from the* openclipart *database, and in particular from files supplied by* frankes.

Contents

1 Introduction

1.1 Description, loading

The idea is to propose macros to insert coins and banknotes in euro.

```
\usepackage{euromoney}
```

The euromoney package loads :

- xstring ;
- simplekv ;
- graphicx ;
- tikz with calc library ;
- listofitems.

1.2 Features

It's possible to present multiple coins or multiples banknotes :

- with global height ;
- with height automatically adjusted (compared to 2€ coin and 500€ banknote) ;
- with stacking.

2 Global names, samples

2.1 Global names

Each coin or bill is a vectorial pdf and there's three styles :

- full colored version ;
- simple colored version with simple suffix ;
- bw version with simplebw suffix .

Available basenames are :

- 500euro ; 200euro ; 100euro ; 50euro ; 20euro ; 10euro and 5euro ;
- 2euro ; 1euro ; 50cent ; 20cent ; 10cent ; 5cent ; 2cent and 1cent.

```
%manual insertion
\includegraphics[height=25.75mm]{2euro}%          w/o suffix
\includegraphics[height=25.75mm]{2eurosimple}%    with simple suffix
\includegraphics[height=25.75mm]{2eurosimplebw}% with simplebw suffix
```

2.2 Size of graphics

Banknotes of `Style=full` are bigger than other styles, so the output doc can be bigger size. For example, 100€ banknote's size is 933 Ko.

3 Macro for coins

3.1 Usage

The coins macro is :

```
\EuroCoins[keys]{list of coins}
```

Available keys are :

- `RefHeight` := height (default `2cm`) for the coins (relative to 2€ if `AutoHeight=true`) ;
- `Style` := style for coins (default `simple`), within `full/simple/bw` ;
- `AutoHeight` := boolean (default `false`) for adjusting heights of coins ;
- `OffsetH` := horizontal offset (default `0pt`) for multiple coins (side by side if `0pt`) ;
- `OffsetV` := vertical offset (default `5mm`) for multiple coins vertically stacked ;
- `Stack` := sens of stacking (default `H`) for mutiple coins.

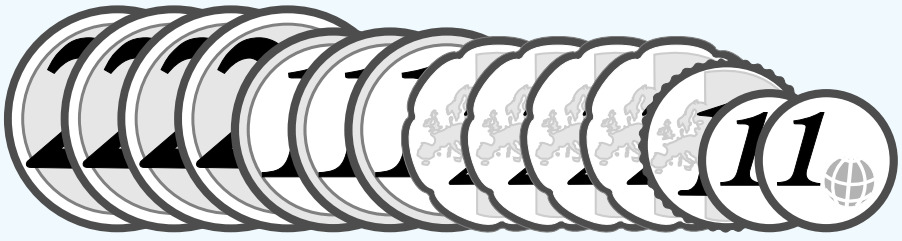
List of coins can be given within `3*2+4*1+2*0.2+4*0.1` for example.

3.2 Examples

```
%sample with one coin
\EuroCoins{2}\EuroCoins{1}\EuroCoins{0.5}\EuroCoins{0.2}%
\EuroCoins{0.1}\EuroCoins{0.05}\EuroCoins{0.02}\EuroCoins{0.01}
```

```
%multiple coins, side by side, global height
\EuroCoins{2+1+0.5+0.2+0.1+0.05+0.02+0.01}
```

```
%stacked coins (b&w), horizontally with correct scaling
\EuroCoins[RefHeight=3cm,AutoHeight,OffsetH=7.5mm,Style=bw]{4*2+3*1+4*0.2+1*0.1+2*0.01}
```



```
%stacked coins (full resolution), vertically with correct scaling
\EuroCoins[Stack=V,RefHeight=3cm,AutoHeight,Style=full]{4*2+3*1+4*0.2+1*0.1+2*0.01}
```

4 Macro for banknotes

4.1 Usage

The banknotes macro is :

```
\EuroBanknotes[keys]{list of banknotes}
```

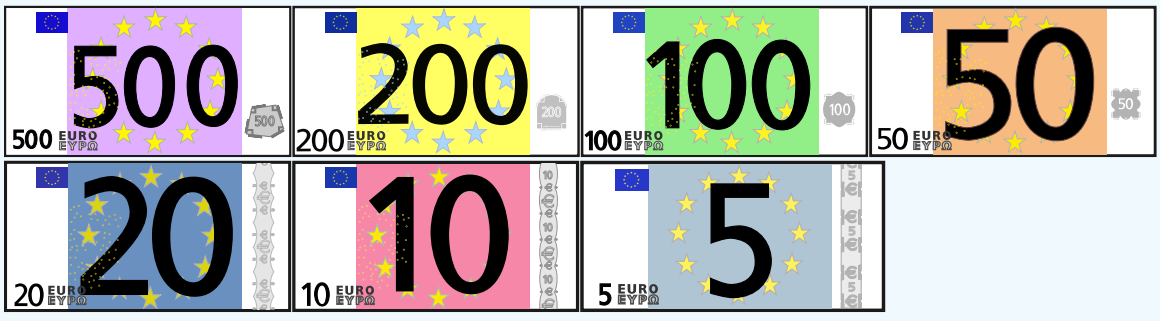
Stacking is globally set, and available keys are :

- `RefHeight` := height (default `2cm`) for the banknotes (relative to 500€ if `AutoHeight=true`) ;
- `Style` := style for banknotes (default `simple`), within `full/simple/bw` ;
- `AutoHeight` := boolean (default `false`) for adjusting heights of banknotes ;
- `OffsetH` := horizontal offset (default `0pt`) for multiple banknotes (side by side if `0pt`) ;
- `OffsetV` := vertical offset (default `5mm`) for multiple banknotes vertically stacked ;
- `Stack` := type of stacking (default `H`) within `H/fan` ;
- `Angle` := rotation (default `10`) for `fan` stacking.

List of banknotes, for `H` stacking, can be given within `2*100+3*50+10+5` for example.
List of banknotes, for `fan` stacking, can be given within `5+5+10+10+20+50+100+200+200` for example.

4.2 Examples

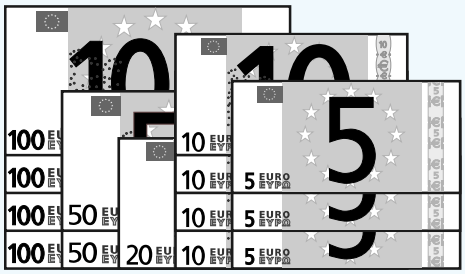
```
%sample with one banknote
\EuroBanknotes{500}\EuroBanknotes{200}\EuroBanknotes{100}\EuroBanknotes{50}\\
\EuroBanknotes{20}\EuroBanknotes{10}\EuroBanknotes{5}
```



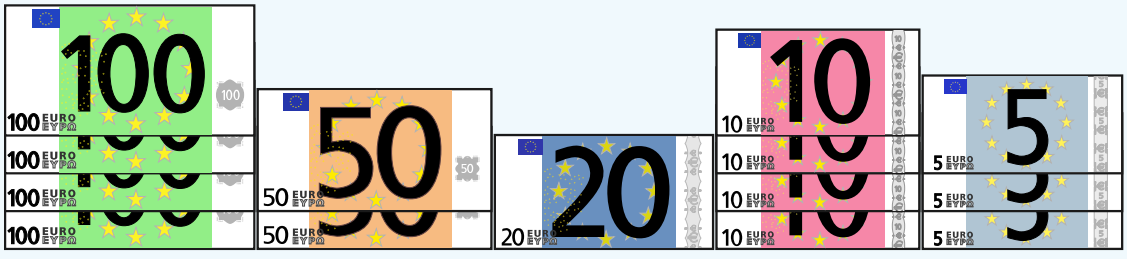
```
%multiple banknotes, side by side, global height
\EuroBanknotes{50+20+5}
```

```
%multiple banknotes, side by side, with correct scaling
\EuroBanknotes[RefHeight=3cm,Style=full,AutoHeight]{100+10+5}
```

```
%stacked banknotes (b&w), with correct scaling
\EuroBanknotes[OffsetH=7.5mm,Style=bw,AutoHeight]{4*100+2*50+20+4*10+3*5}
```



```
%syde by side banknotes, with correct scaling
\EuroBanknotes[RefHeight=1.75cm,AutoHeight]{4*100+2*50+20+4*10+3*5}
```



```
%fan stacking, with adjusted offsets
\EuroBanknotes%
  [Stack=fan,RefHeight=2.05cm,AutoHeight,Angle=17.5,%
  OffsetH=0.1mm,OffsetV=0mm]%
  {5+5+10+10+20+50+100+200+200}
```

5 French version

Il est possible d'utiliser les commandes en version francisée :

```
\PiecesEuro[clés]{liste de pièces}
\BilletsEuro[clés]{liste de billets}
```

Les clés disponibles sont :

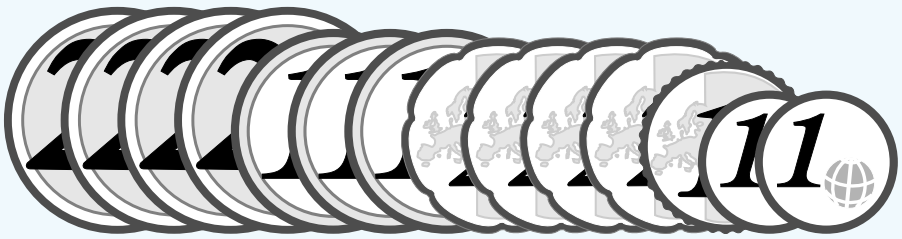
- `HauteurRef` := hauteur (défaut `2cm`) pour les pièces/billets (relativement à celle de 2€ et celui de 500€ si `HauteurAuto=true`) ;
- `Style` := style pour les pièces/billets (défaut `simple`), parmi `full/simple/nb` ;
- `HauteurAuto` := booléen (défaut `false`) pour adapter les hauteurs ;
- `DecalH` := décalage horizontal (défaut `0pt`) pour des empilages (côte à côte si `0pt`) ;
- `DecalV` := décalage vertical (défaut `5mm`) pour les empilages verticaux ;
- `Empilage` := sens de l'empilage (défaut `H`) éventuel, parmi `H/eventail` suivant le type d'objets.

La liste peut être donnée sous la forme `3*2+4*1+2*0.2+4*0.1` pour des affichages *classiques* par exemple.
Pour le cas de billets en éventail, la liste pourra être donnée sous la forme `5+5+10+10+20+50+100+200+200` par exemple.

```
%exemple avec une pièce
\PiecesEuro{2}\PiecesEuro{1}\PiecesEuro{0.5}\PiecesEuro{0.2}%
\PiecesEuro{0.1}\PiecesEuro{0.05}\PiecesEuro{0.02}\PiecesEuro{0.01}
```

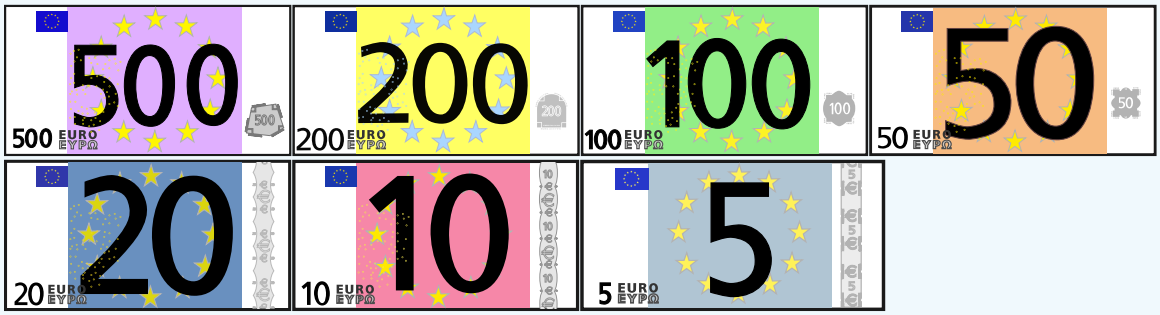
```
%pièces multiples, côte à côte, taille uniforme
\PiecesEuro{2+1+0.5+0.2+0.1+0.05+0.02+0.01}
```

```
%pièces empilées (n&b) horizontalement et tailles ajustées
\PiecesEuro%
  [HauteurRef=3cm,HauteurAuto,DecalH=7.5mm,Style=nb]{4*2+3*1+4*0.2+1*0.1+2*0.01}
```



```
%pièces empilées (full résolution) verticalement et tailles ajustées
\PiecesEuro%
  [Empilage=V,HauteurRef=3cm,HauteurAuto,Style=full]{4*2+3*1+4*0.2+1*0.1+2*0.01}
```

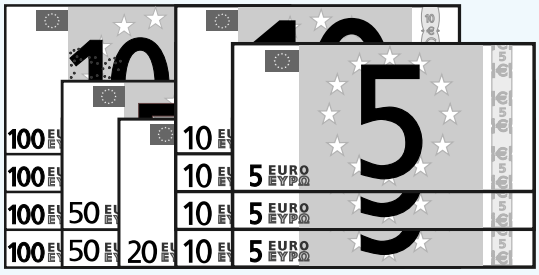
```
%exemple avec un billet
\BilletsEuro{500}\BilletsEuro{200}\BilletsEuro{100}\BilletsEuro{50}\\
\BilletsEuro{20}\BilletsEuro{10}\BilletsEuro{5}
```



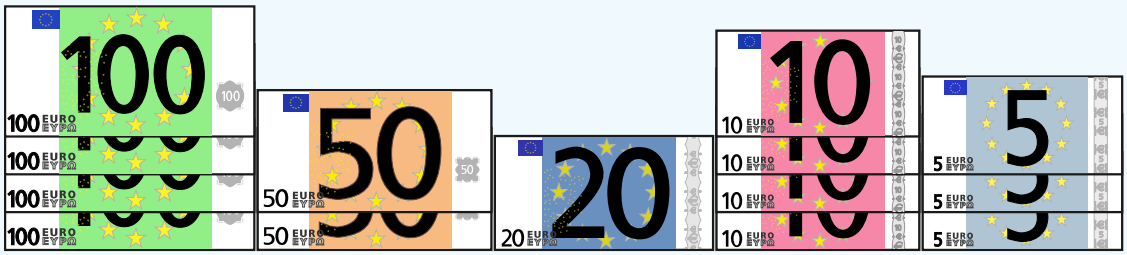
```
%plusieurs billets, côte à côte, taille uniforme
\BilletsEuro{50+20+5}
```

```
%plusieurs billets (full résolution), côte à côte, tailles adaptées
\BilletsEuro[HauteurRef=3cm,Style=full,HauteurAuto]{100+10+5}
```

```
%billets empilés (n&b), tailles adaptées
\BilletsEuro[DecalH=7.5mm,Style=nb]{4*100+2*50+20+4*10+3*5}
```



```
%billets côte à côte, tailles adaptées
\BilletsEuro[HauteurRef=1.75cm,HauteurAuto]{4*100+2*50+20+4*10+3*5}
```



```
%billets en éventail, hauteur et décalages ajustés
\BilletsEuro%
  [Empilage=eventail,HauteurRef=2.05cm,HauteurAuto,Angle=17.5,%
  DecalH=0.1mm,DecalV=0mm]%
  {5+5+10+10+20+50+100+200+200}
```

6 History

0.1.0 : Initial version