

# The euflag L<sup>A</sup>T<sub>Ε</sub>X 2<sub>ε</sub> package\*

A command to reproduce the flag of the European Union

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## Summary

This package implements a single command `\euflag` which reproduces the official flag of the European Union (EU) using the built-in `picture` environment (no need for TikZ).

The flag is reproduced at 1em high based on the current font size, so it can be scaled arbitrarily by changing the font size locally (see examples in the table on page 6). An option allows for the flag baseline to be aligned on the bottom star.



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\*This document corresponds to euflag v. 0.91 $\beta$ , dated 2023/12/30.

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## Typographic representation

In this document, the following information items are shown in this way:

<b>Item</b>	<b>Description</b>
<code>\command</code>	name of a $\LaTeX$ 'command' (TeX macro or control sequence)
<code>environment</code>	name of a $\LaTeX$ environment
<code>filename</code>	name of a file
<code>option</code>	name of an option to a $\LaTeX$ command, environment, class, or package
<code>package</code>	name of a $\LaTeX$ package
<code>productname</code>	a product name
<code>systemitem</code>	a computer system item (eg hostname or data value)
<code>&lt;tag/&gt;</code>	a tag name in a markup language (eg XML)
<code>varname</code>	a variable name in a supported language

## Latest changes

### v.0.91 (2023-12-30)

#### Regression update for updated db2dtx

- Move to ClassPack 1.26.

### v.0.9 (2023-06-05)

#### Regression update

- Move to ClassPack 1.23.

### v.0.8 (2020-05-22)

#### Reference update

- Added missing reference to Claudio's paper.

### v.0.7 (2020-05-16)

#### Regression release

- Updated to use *ClassPack* 1.19;
- Switched all @conformance attributes on revision dates to @YYYY-MM-DD.

See p. 22 for earlier changes.

## 1 Background

This package provides a command `\euflag` for reproducing the flag of the European Union. It follows exactly the official specification (**Council of Europe and European Commission, 2019**). The EU's web site says:

The European flag symbolises both the European Union and, more broadly, the identity and unity of Europe.

**It features a circle of 12 gold stars on a blue background. They stand for the ideals of unity, solidarity and harmony among the peoples of Europe.**

The number of stars has nothing to do with the number of member countries, though the circle is a symbol of unity.

## History of the European flag

The history of the flag goes back to 1955. The Council of Europe — which defends human rights and promotes European culture — chose the present design for its own use. In the years that followed, it encouraged the emerging European institutions to adopt the same flag.

In 1983, the European Parliament decided that the Communities' flag should be that used by the Council of Europe. In 1985, it was adopted by all EU leaders as the official emblem of the European Communities, later to become the European Union. In addition, all European institutions now have their own emblems.

[https://europa.eu/european-union/about-eu/symbols/flag\\_en](https://europa.eu/european-union/about-eu/symbols/flag_en)


The `\euflag` command provides a simple way to use the flag in any  $\LaTeX$  document. Details of construction and spacing are taken from the official specification in the [Graphics guide to the European emblem](#).

Since the publication of v0.4 of this package in February 2019, Claudio Beccari has investigated ways to produce the flag using only  $\LaTeX$ 's drawing facilities and the `xfp` package. He has written a very comprehensive paper about this in *Arstexnica*, the journal of the Gruppo Utilizzatori Italiani di  $\TeX$  (G<sub>U</sub>I), explaining how he did it ([Beccari, 2019](#)).

More recently Wilhelm Haager has produced the `worldflags` package, which reproduces all the world's flags — including the flag of the European Union — using the graphics language TikZ ([Haager, 2021](#)).



For an extensive discussion of the flag and its precursors and derivatives, see the Wikipedia entry for *Wikipedia* ([Wikipedia contributors, 2024](#)).

## 2 Usage

The flag is reproduced at 1em high, with the bottom edge at the current baseline like this:  using the `\euflag` command. The baseline package option or an optional length argument to the `\euflag` command can be used to change this (see below).

The font size of the enclosing environment can be changed to make the flag appear at any size. In the examples below, the code and the flags are in m-type cells (middle-vertical-align, using the array package), so their apparent baselines differ.

---

<code>{\tiny\euflag}</code>	
<code>{\scriptsize\euflag}</code>	
<code>{\footnotesize\euflag}</code>	
<code>{\small\euflag}</code>	
<code>{\normalsize\euflag}</code>	
<code>{\large\euflag}</code>	
<code>{\Large\euflag}</code>	
<code>{\LARGE\euflag}</code>	
<code>{\huge\euflag}</code>	
<code>{\fontsize{64}{72}\selectfont\euf}</code>	
<code>{\fontsize{128}{0}\selectfont\euf}</code>	

---

To move the flag down so that the bottom star's baseline becomes the flag's baseline, like this: , load the package with the baseline option:

```
\usepackage[baseline]{euflag}
```

(that will affect all `\euflag` commands). Alternatively, use the optional argument to `\euflag` to lower the flag by  $\frac{1}{6}$ em or whatever amount you

wish, on a single occasion, eg `\euflag[-.167em]`

## Code for the

### 3 Implementation

#### 3.1 Auto-initialisation

This section is added automatically by *ClassPack* as a preamble to all classes and style packages. For details see the ltxdoc package documentation.

```
1 \NeedsTeXFormat{LaTeX2e}[2016/02/01]
2 \ProvidesPackage{euflag}[2023/12/30 v0.91
3   A command to reproduce the flag of the European Union]
```

#### 3.2 Options

`EUF@baseline` Define an option to set the default position to align the lowest star with the text baseline of the surrounding text. The default is zero, meaning the bottom of the flag aligns with the text baseline; setting this option will lower the flag so that the lowest star aligns with the text baseline.

```
4 \newlength{\EUF@baseline}
5 \setlength{\EUF@baseline}{0pt}
6 \DeclareOption{baseline}{\setlength\EUF@baseline{-.167em}}
7 \DeclareOption*{%
8   \PackageWarning{euflag}{Unknown option
9     '\CurrentOption'; please Read The Fine Manual}%
10 }
11 \ProcessOptions
```

Now invoke the options.

```
12 \ExecuteOptions{}
13   \ProcessOptions\relax
```

#### 3.3 Packages required for the package

Packages required for operation:

`noto` Sets the Google NoTo typeface as the default.

```
14 \RequirePackage{noto}%
```

`fancyhdr` Provide for running headers and footers.

```
15 \RequirePackage{fancyhdr}%
```



`ltxcmds` Some  $\LaTeX$  kernel commands for general use, but in the case of *ClassPack*, particularly `\ltx@ifpackageloaded`.

```
16 \RequirePackage{ltxcmds}%
```

Define the `ltx@ifpackageloaded` command.

```
17 \ifdefined\IfPackageLoaded\relax
18   \else\newcommand{\IfPackageLoaded}[3]{%
19     \ltx@ifpackageloaded{#1}{#2}{#3}}\fi
```

`parskip` Creates paragraphs separated by white-space with no indentation.

```
20 \RequirePackage{parskip}%
```

`xcolor` Provide color.

```
21 \IfPackageLoaded{xcolor}{\relax}{%
22   \RequirePackage[svgnames]{xcolor}%
23 }%
24 \@ifundefined{T}{%
25   \newcommand{\T}[2]{\fontencoding{T1}%
26     \selectfont#2}}{}
```

There seems to be a bug in the T1 encoding of some package (unidentified, but possibly `xcolor`) which uses the command `\T1`, which is an impossibility (no digits allowed in command names). So we fake it here to stop  $\LaTeX$  complaining, by dropping the first argument on the floor.

`graphicx` Provide for graphics (PNG, JPG, or PDF format (only) for `pdflatex`; EPS format (only) for standard  $\LaTeX$ ); and for reflection and rotation features.

```
27 \RequirePackage{graphicx}%
```

`amssymb` Provide for the American Mathematical Society's symbols (see their documentation for details).

```
28 \RequirePackage{amssymb}%
```

`anyfontsize`

```
29 \RequirePackage{anyfontsize}%
```

### 3.4 Changes to package defaults

The only changes are to implement the blue and yellow according to the specification. Note that exact Pantone® colour codes are not available, so the HTML values used on the EU web site are used here. The CMYK values are commented out in the code; they are available for users to test.

`PantoneReflexBlue` As specified.

```
30 \definecolor{PantoneReflexBlue}{HTML}{003399}
31 %\definecolor{PantoneReflexBlue}{cmyk}{1.00,.67,0,.40}
```

`PantoneYellow` As specified.

```
32 \definecolor{PantoneYellow}{HTML}{FFCC00}
33 %\definecolor{PantoneYellow}{cmyk}{0,.2,1,0}
```

We could have just used the Yellow from the `xcolor` package, but it was felt better to be explicit.

### 3.5 The flag

We now use the `\bigstar` command from the `amssymb` package (earlier versions used the `\FiveStar` command from the `bbding` package, but that did not reliably scale beyond about 100pt).

`\eustar` It needs to scale, so we implement it as a command using `\scalebox`.

```
34 \newcommand{\eustar}{\scalebox{0.1}{\ensuremath{\bigstar}}}
```

This is the only slightly uncertain part of the implementation: the specification calls for the star to be  $\frac{1}{18}$  of the height of the flag, but  $\text{\LaTeX}$  only has access to the bounding-box of the glyph. The value of 0.1 given here is therefore experimental and subject to change in future in the light of feedback.

The command itself is a blue `\colorbox` containing the stars set at the clock-points of a circle in a  $\text{\LaTeX}$  picture environment.

`\makestars` Separate the making of the ring of stars from the flag itself so that the ring of stars can be used separately.

For the picture environment, set the unit to 1em and then divide it by 18. This enables us conveniently to use six units for the axes behind the circle of stars, because the specification says it must have a radius of  $\frac{1}{3}$  of the height (ie  $\frac{6}{18}$ ). The positioning argument was found by trial and error.

```
35 \newcommand{\makestars}{%
```

```

36   \color{PantoneYellow}%
37   \setlength{\unitlength}{1em}
38   \divide\unitlength by18
39   \begin{picture}(6,6)(-2,3.5)
40     \put(6,0){\eustar}
41     \put(5.196,3){\eustar}
42     \put(3,5.196){\eustar}
43     \put(0,6){\eustar}
44     \put(-3,5.196){\eustar}
45     \put(-5.196,3){\eustar}
46     \put(-6,0){\eustar}
47     \put(-5.196,-3){\eustar}
48     \put(-3,-5.196){\eustar}
49     \put(0,-6){\eustar}
50     \put(3,-5.196){\eustar}
51     \put(5.196,-3){\eustar}
52   \end{picture}%
53 }

```

The positioning of the individual stars was found with simple trigonometry. It would have been possible to construct this from a loop cycling through the 12 positions, but it is simpler to do it like this.

`\euflag` Before the `\colorbox` is used, set the `\fboxsep` length to zero so that there is no border around the box, and then raise (lower) the box by the value of `\EUf@baseline` as set by the `baseline` option.

`EUf@baseline`

```

54 \newcommand{\euflag}[1][\EUf@baseline]{%
55   {%
56     \fboxsep0pt
57     \raisebox{#1}{%
58       \colorbox{PantoneReflexBlue}{%

```

The rectangle itself is formed from a `\vbox` 1em high and 1.5em wide. The paragraph skip and indent are zeroed to avoid unwanted space, and the content is centered and made yellow.

```

59       \vbox to1em{%
60         \hsizel.5em
61         \parskip0pt
62         \parindent0pt
63         \centering
64         \makestars
65         \vfill

```

Finally, close off the containing `\vbox` and other containers.

```

66       }% end vbox
67     }% end colorbox

```

```
68     }% end raisebox
69   }% end encapsulation
70 }% end command
```

That's it. Any problems, mail me.

## References

- Beccari, C. (2019). La bandiera europea e la sezione aurea. *Arstexnica*, 27.  
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<https://ctan.org/pkg/worldflags>
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[https://en.wikipedia.org/wiki/Flag\\_of\\_Europe](https://en.wikipedia.org/wiki/Flag_of_Europe)

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%%
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%%
%% The Current Maintainer of this work is M. Y. Name.
%%
```

```
%% This work consists of the files pig.dtx and pig.ins
%% and the derived file pig.sty.
```

Given such a notice and statement in a file, the conditions given in this license document would apply, with the ‘Work’ referring to the three files `pig.dtx`, `pig.ins`, and `pig.sty` (the last being generated from `pig.dtx` using `pig.ins`), the ‘Base Interpreter’ referring to any ‘ $\LaTeX$ -Format’, and both ‘Copyright Holder’ and ‘Current Maintainer’ referring to the person M. Y. Name.

If you do not want the Maintenance section of LPPL to apply to your Work, change ‘maintained’ above into ‘author-maintained’. However, we recommend that you use ‘maintained’ as the Maintenance section was added in order to ensure that your Work remains useful to the community even when you can no longer maintain and support it yourself.

#### A.6.4 Derived Works That Are Not Replacements

Several clauses of the LPPL specify means to provide reliability and stability for the user community. They therefore concern themselves with the case that a Derived Work is intended to be used as a (compatible or incompatible) replacement of the original Work. If this is not the case (e.g., if a few lines of code are reused for a completely different task), then clauses 6b and 6d shall not apply.

#### A.6.5 Important Recommendations

**A.6.5.1 Defining What Constitutes the Work :** The LPPL requires that distributions of the Work contain all the files of the Work. It is therefore important that you provide a way for the licensee to determine which files constitute the Work. This could, for example, be achieved by explicitly listing all the files of the Work near the copyright notice of each file or by using a line such as:

```
%% This work consists of all files listed in manifest.txt.
```

in that place. In the absence of an unequivocal list it might be impossible for the licensee to determine what is considered by you to comprise the Work and, in such a case, the licensee would be entitled to make reasonable conjectures as to which files comprise the Work.

## Change History

- v0.1  
 General: First version: Simple picture mode is all that is needed, plus a decent star.. . 1
- v0.2  
 General: Works in table cells: Fixed bug (a vfill) that was crashing (well, locking up)  $\LaTeX$  when euflag was used in a table cell.. . . . . 1
- v0.3  
 General: Mods to ClassPack: Added switch in db2dtx.xsl to detect the use of a package in its own documentation (as here) and code around the PassOptionsToPackage for svgnames on xcolor, which was causing an Option Clash error.. . . . . 1
- v0.4  
 General: Changed the star: Changed from the bbdingFiveStar to the amssymbbigstar command.. 1
- v0.5  
 General: Separated stars from flag and added baseline option: 1) Made the ring of stars a separate macro so that they can be used on their own as well as in the flag.; 2) Added a baseline package option to align the bottom star with the text, and a command option to do it on a per-command basis.. 1
- v0.6  
 General: Maintenance release: 1) Updated to ClassPack 1.18; 2) Prepare to switch conformance attributes on revision dates to YYYY-MM-DD. . . . . 1
- v0.7  
 General: Regression release: 1) Updated to use ClassPack 1.19; 2) Switched all conformance attributes on revision dates to YYYY-MM-DD. . . . . 1
- v0.8  
 General: Reference update: Added missing reference to Claudio's paper. . . . . 1
- v0.9  
 General: Regression update: Move to ClassPack 1.23. . . . 1
- v0.91  
 General: Regression update for updated db2dtx: Move to ClassPack 1.26. . . . . 1

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