

pst-flags: A PSTricks Package for Drawing Flags

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1 Introduction

This document is a reference manual for the `pst-flags` package. The package and its user manual are available in the CTAN archive <https://ctan.org/tex-archive/graphics/pstricks/contrib/pst-flags>.

1.1 About pst-flags

This package provides a number of macros for rendering flags of countries and their associated artefacts drawn using \LaTeX PSTricks package. This package further contributes towards a complete implementation of the vector drawing capabilities provided by PSTricks. Formatting of the resulting drawings is entirely controlled by the \TeX macros. A good working knowledge of \LaTeX should be sufficient to design flags of sovereign countries and adapt them to create new designs. Features such as color or shape customisation and dynamic modifications are possible by cleverly adjusting the options supplied to the \TeX macros.

1.2 License

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1.3 Feedback

Please use the `pst-flags` project page on GitHub <https://github.com/manthanwar/pst-flags> to report bugs and submit feature requests. Before making a feature request, please ensure that you have thoroughly studied this manual. If you do not want to report a bug or request a feature but are simply in need of assistance, you might want to consider posting your question on the `comp.text.tex` newsgroup or \TeX - \LaTeX Stack Exchange.

1.4 Acknowledgements

This package would not have been possible without the base `PSTricks` and its associated packages. The authors would like to acknowledge the valuable contributions made by the main `PSTricks` authors and by the broader `PST` community. The colors and construction sheets used to program macros are taken from the websites: `flagcolorcodes`, `wikipedia`, and `vexilla-mundi`.

2 Installation and usage of pst-flags

Installation: As prerequisites for `pst-flags`, you need working versions of \LaTeX and `pstricks`. The style file `pst-flags.sty` and all corresponding `.tex` and `.eps` assets must be somewhere in your \TeX -input path, where `dvips` can find it.



Dependencies: This packages requires `expl3`, `fp`, `xfp`, `pstricks` and `pst-all`.

Usage: Load the packages `pstricks` and `pst-flags` in that order via the `usepackage` macro. Now you are ready to use the `pst-flags` macros within your document body. This macro is described in the next section with all its options. With the help of the following simple \LaTeX -source code, you can test whether you have correctly installed the package:

```
\documentclass{article}
\usepackage{pstricks}
\usepackage{pst-flags}
\begin{document}
Flag of US: \rput(0,0){\flagUS[2]}
\end{document}
```

3 Sovereign State Flags

Flags come in many different height-to-width aspect ratios (AR). The flags of India `\flagIN` and UK `\flagUK` use the aspect ratios of 2:3 and 1:2 respectively. These are the most common aspect ratios used by over 80 and 50 countries respectively. The accuracy of colors, shapes, internal objects, and aspect ratio make the flag of a sovereign state unique. Width is the only option needed to draw the flag with macro appended with a two-letter country code which internally determines the corresponding height. To draw a flag with a specific height, use the aspect ratio from the table below to calculate the appropriate width and supply it in centimeters as the first argument of the macro in rectangular brackets. PSTricks macro `\rput` and environment `pspicture` can also be used and encouraged for accurate placement of the flags.

Example: To draw 1 cm wide flags use macros: `\flagIN[1]`  `\rput(0.1,0){\flagUK[1]}` 

Colors: are defined using country code appended with standard flag color name `ukRed`, `inGreen`, `usBlue`, `deYellow`, etc. Usage: `\usepackage{pst-flags-colors-html}` `\pscircle[linecolor=usRed](0,0){2}`

| Country | Code | AR | Country | Code | AR | Country | Code | AR |
|--------------------------------|------|---------|------------------|------|-------|--------------------------|------|-------|
| Albania | AL | 5:7 | Estonia | EE | 7:11 | Nicaragua | NI | 3:5 |
| Algeria | DZ | 2:3 | Ethiopia | ET | 1:2 | Niger | NE | 6:7 |
| American Samoa (US) | AS | 1:19 | Fiji | FJ | 1:2 | Nigeria | NG | 1:2 |
| Andorra | AD | 7:1 | Finland | FI | 11:18 | Norway | NO | 8:11 |
| Angola | AO | 2:3 | France | FR | 2:3 | Oman | OM | 1:2 |
| Anguilla (UK) | AI | 1:2 | Gabon | GA | 3:4 | Pakistan | PK | 2:3 |
| Antigua and Barbuda | AG | 2:3 | Gambia | GM | 2:3 | Palau | PW | 5:8 |
| Argentina | AR | 5:8 | Georgia | GE | 2:3 | Palestinian Territory | PS | 1:2 |
| Armenia | AM | 1:2 | Germany | DE | 3:5 | Panama | PA | 2:3 |
| Aruba (Netherlands) | AW | 2:3 | Ghana | GH | 2:3 | Papua New Guinea | PG | 3:4 |
| Australia | AU | 1:2 | Greece | GR | 2:3 | Paraguay | PY | 11:2 |
| Austria | AT | 2:3 | Guinea | GN | 2:3 | Peru | PE | 2:3 |
| Azerbaijan | AZ | 1:2 | Guyana | GY | 3:5 | Philippines | PH | 1:2 |
| Bahamas | BS | 1:2 | Hong Kong (CN) | HK | 2:3 | Poland | PL | 5:8 |
| Bahrain | BH | 3:5 | Hungary | HU | 1:2 | Portugal | PT | 2:3 |
| Bangladesh | BD | 3:5 | Iceland | IS | 18:25 | Puerto Rico (US) | PR | 2:3 |
| Barbados | BB | 2:3 | India | IN | 2:3 | Qatar | QA | 11:28 |
| Belarus | BY | 1:2 | Indonesia | ID | 2:3 | Romania | RO | 2:3 |
| Belgium | BE | 13:15 | Iran | IR | 4:7 | Russian Federation | RU | 2:3 |
| Belize | BZ | 3:5 | Iraq | IQ | 2:3 | Rwanda | RW | 2:3 |
| Benin | BJ | 2:3 | Ireland | IE | 1:2 | Saint Kitts and Nevis | KN | 2:3 |
| Bermuda (UK) | BM | 1:2 | Israel | IL | 8:11 | Saudi Arabia | SA | 2:3 |
| Bhutan | BT | 2:3 | Italy | IT | 2:3 | Senegal | SN | 2:3 |
| Bolivia | BO | 15:22 | Jamaica | JM | 1:2 | Serbia | RS | 2:3 |
| Bosnia and Herzegovina | BA | 1:2 | Japan | JP | 2:3 | Seychelles | SC | 1:2 |
| Botswana | BW | 2:3 | Jordan | JO | 1:2 | Sierra Leone | SL | 2:3 |
| Brazil | BR | 7:1 | Kazakhstan | KZ | 1:2 | Singapore | SG | 2:3 |
| British Indian Ocean Territory | IO | 1:2 | Kenya | KE | 2:3 | Slovakia | SK | 2:3 |
| British Virgin Islands | VG | 1:2 | Korea, North | KP | 1:2 | Slovenia | SI | 1:2 |
| Brunei Darussalam | BN | 1:2 | Korea, South | KR | 2:3 | Solomon Islands | SB | 1:2 |
| Bulgaria | BG | 3:5 | Kuwait | KW | 1:2 | Somalia | SO | 2:3 |
| Burkina Faso | BF | 2:3 | Kyrgyzstan | KG | 3:5 | South Africa | ZA | 2:3 |
| Burundi | BI | 3:5 | Latvia | LV | 1:2 | South Sudan | SS | 1:2 |
| Cambodia | KH | 16:25 | Lebanon | LB | 2:3 | Spain | ES | 2:3 |
| Cameroon | CM | 2:3 | Lesotho | LS | 2:3 | Sri Lanka | LK | 1:2 |
| Canada | CA | 1:2 | Liberia | LR | 1:19 | Sudan | SD | 1:2 |
| Cayman Islands (UK) | KY | 1:2 | Libya | LY | 1:2 | Suriname | SR | 2:3 |
| Central African Republic | CF | 2:3 | Liechtenstein | LI | 3:5 | Sweden | SE | 5:8 |
| Chad | TD | 2:3 | Lithuania | LT | 3:5 | Switzerland | CH | 1:1 |
| Chile | CL | 2:3 | Luxembourg | LU | 3:5 | Syria | SY | 2:3 |
| China | CN | 2:3 | Macedonia, North | MK | 1:2 | Taiwan | TW | 2:3 |
| Christmas Island (AU) | CX | 1:2 | Madagascar | MG | 2:3 | Tajikistan | TJ | 1:2 |
| Cocos (Keeling) Islands (AU) | CC | 1:2 | Malawi | MW | 2:3 | Tanzania | TZ | 2:3 |
| Colombia | CO | 2:3 | Malaysia | MY | 1:2 | Thailand | TH | 2:3 |
| Comoros | KM | 3:5 | Maldives | MV | 2:3 | Timor-Leste | TL | 1:2 |
| Congo, (Brazzaville) Republic | CG | 3:4 | Mali | ML | 2:3 | Togo | TG | 1:φ |
| Congo, (Kinshasa) Democratic | CD | 2:3 | Malta | MT | 2:3 | Tonga | TO | 1:2 |
| Cook Islands (New Zealand) | CK | 1:2 | Mauritania | MR | 2:3 | Trinidad and Tobago | TT | 3:5 |
| Costa Rica | CR | 3:5 | Mauritius | MU | 2:3 | Tunisia | TN | 2:3 |
| Croatia | HR | 1:2 | Mexico | MX | 4:7 | Turkey | TR | 2:3 |
| Cuba | CU | 1:2 | Moldova | MD | 1:2 | Uganda | UG | 2:3 |
| Cyprus | CY | 2:3 | Monaco | MC | 4:5 | Ukraine | UA | 2:3 |
| Czech Republic | CZ | 2:3 | Mongolia | MN | 1:2 | United Arab Emirates | AE | 1:2 |
| Denmark | DK | 28:37 | Montenegro | ME | 1:2 | United Kingdom | GB | 1:2 |
| Djibouti | DJ | 2:3 | Morocco | MA | 2:3 | United States of America | US | 1:19 |
| Dominica | DM | 1:2 | Mozambique | MZ | 2:3 | Uruguay | UY | 2:3 |
| Dominican Republic | DO | 5:8 | Myanmar | MM | 2:3 | Uzbekistan | UZ | 1:2 |
| Ecuador | EC | 2:3 | Namibia | NA | 2:3 | Venezuela | VE | 2:3 |
| Egypt | EG | 2:3 | Nauru | NR | 1:2 | Viet Nam | VN | 2:3 |
| El Salvador | SV | 189:335 | Nepal | NP | 5:41 | Yemen | YE | 2:3 |
| Equatorial Guinea | GQ | 2:3 | Netherlands | NL | 2:3 | Zambia | ZM | 2:3 |
| Eritrea | ER | 1:2 | New Zealand | NZ | 1:2 | Zimbabwe | ZW | 1:2 |

3.1 Flags with aspect ratio 1:2



3.2 Flags with aspect ratio 2:3



3.3 Flags with 2:3 aspect ratios



3.4 Flags with mixed aspect ratios



AD



AL



AR



AS



BD



BE



BG



BH



BI



BO



BR



BZ



CG



CH



CR



DE



DK



DO



EE



FI



GA



GY



IL



IR



IS



KG



KH



KM



LI



LR



LT



LU



MC



MX



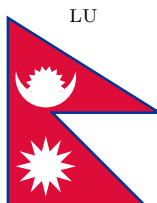
NE



NI



NO



NP



PG



PL



PW



PY



QA



SE



SV



TG



TT



US