# `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 the user manual is available at ctan archive.

### 1.1 About `pst-flags`

This package provides macros for rendering flags and associated artefacts drawn using LaTeXPSTricks 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 TeXmacros. A good working knowledge of LaTeX should be sufficient to design flags and draw the new ones. Features such as color or shape customisation and dynamic modifications are possible by cleverly adjusting the properties and parameters arguments of the options supplied to TeXmacros.

### 1.2 License

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### 1.3 Feedback

Please use the `pst-flags` 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 web page pst-flags.

### 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 a 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.

**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 are in many different height to width aspect ratio (AR). The flags of India \flagIN and UK \flagUK uses the aspect ratios of 2:3 and 1:2 respectively. These are the two of 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 two letter country code which internally determines the corresponding height. In order to draw a flag with the specific height use the aspect ratio from the table below to calculate the appropriate width and supply it rectangular bracket in centimeters. PSTricks macro \rput macro and environment pspictur can be also used and encouraged for the accurate placement.

**Example:** To draw 1 cm wide flags use macros: \flagIN[1] ![India flag] \rput(0.1,0){\flagUK[1]} ![UK flag]

**Colors:** Flag colors are defined using country code appended with color name which can be used elsewhere, e.g., ukRed, inGreen, usBlue, deYellow, etc. \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:$\phi$ |
| 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

AE

AI

AM

AU

AZ

BA

BM

BN

BS

BY

CA

CC

CK

CU

CX

DM

ER

ET

FJ

GB

HR

HU

IE

IO

JM

JO

KP

KW

KY

KZ

LK

LV

LY

MD

ME

MK

MN

MY

NG

NR

NZ

OM

PH

PS

SB

SC

SD

SI

SS

TJ

TL

TO

UZ

VG

ZW

## 3.2 Flags with Aspect Ratio 2:3

| | | | | | |
|---|---|---|---|---|---|
| AG | AO | AT | AW | BB | BF |
| BJ | BT | BW | CD | CF | CL |
| CM | CN | CO | CY | CZ | DJ |
| DZ | EC | EG | ES | FR | GE |
| GH | GM | GN | GQ | GR | HK |
| ID | IN | IQ | IT | JP | KE |
| KN | KR | LB | LS | MA | MG |
| ML | MM | MR | MT | MU | MV |
| MW | MZ | NA | NL | PA | PE |
| PK | PR | PT | RO | RS | RU |
| RW | SA | SG | SK | SL | SN |
| SO | SR | SY | TD | TH | TN |

## 3.3 Flags with Aspect Ratios 2:3 and Others

TR

TW

TZ

UA

UG

UY

VE

VN

YE

ZA

ZM

AD

AL

AR

BD

BG

BH

BI

BR

BZ

CG

CR

DE

DK

DO

EE

GA

GY

IL

IR

KG

KM

LI

LT

LU

MC

MX

NE

NI

NO

NP

PG

PL

PW

SE

TT