`pst-flags`: A PSTricks Package for Drawing Flags of Countries
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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{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

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 2:3 aspect ratios
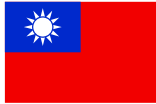
TR	TW	TZ	UA	UG	UY

VE	VN	YE	ZA	ZM

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