



INTERNATIONAL
CONGRESS OF
VEXILLOLOGY

Ljubljana, Slovenia
July 11–15 2022



DOMINIK ČERNELIČ

Technical drawing of symbols

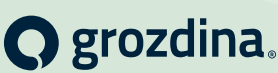


get in touch

Ljubljana, July 2022

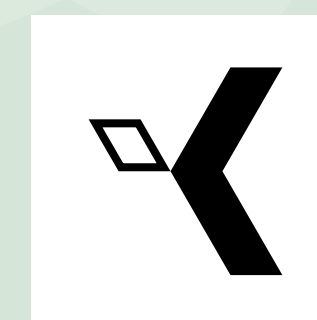
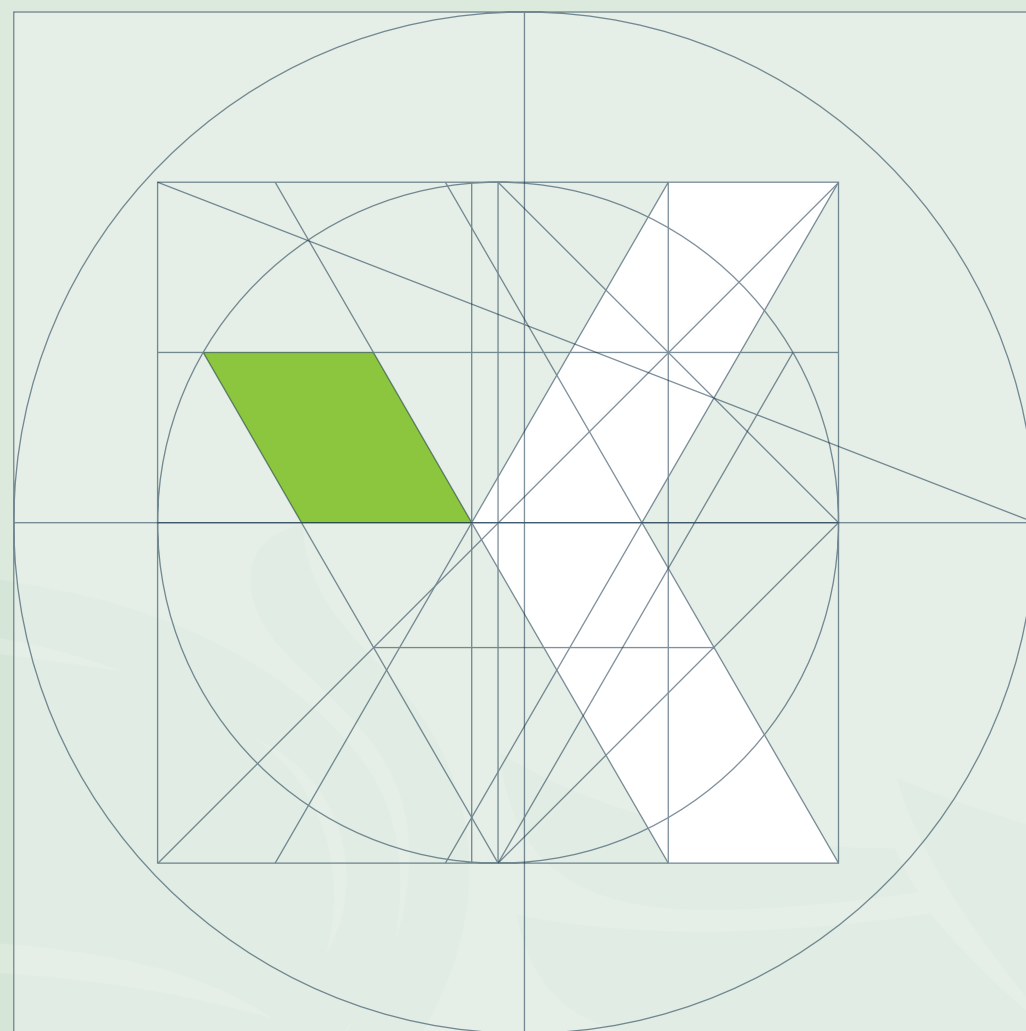
@dominikcernelic & domdesign.com



100+ corporate identity projects



Strict design process

optical design construction

cloud documentation

standardized file structure and naming

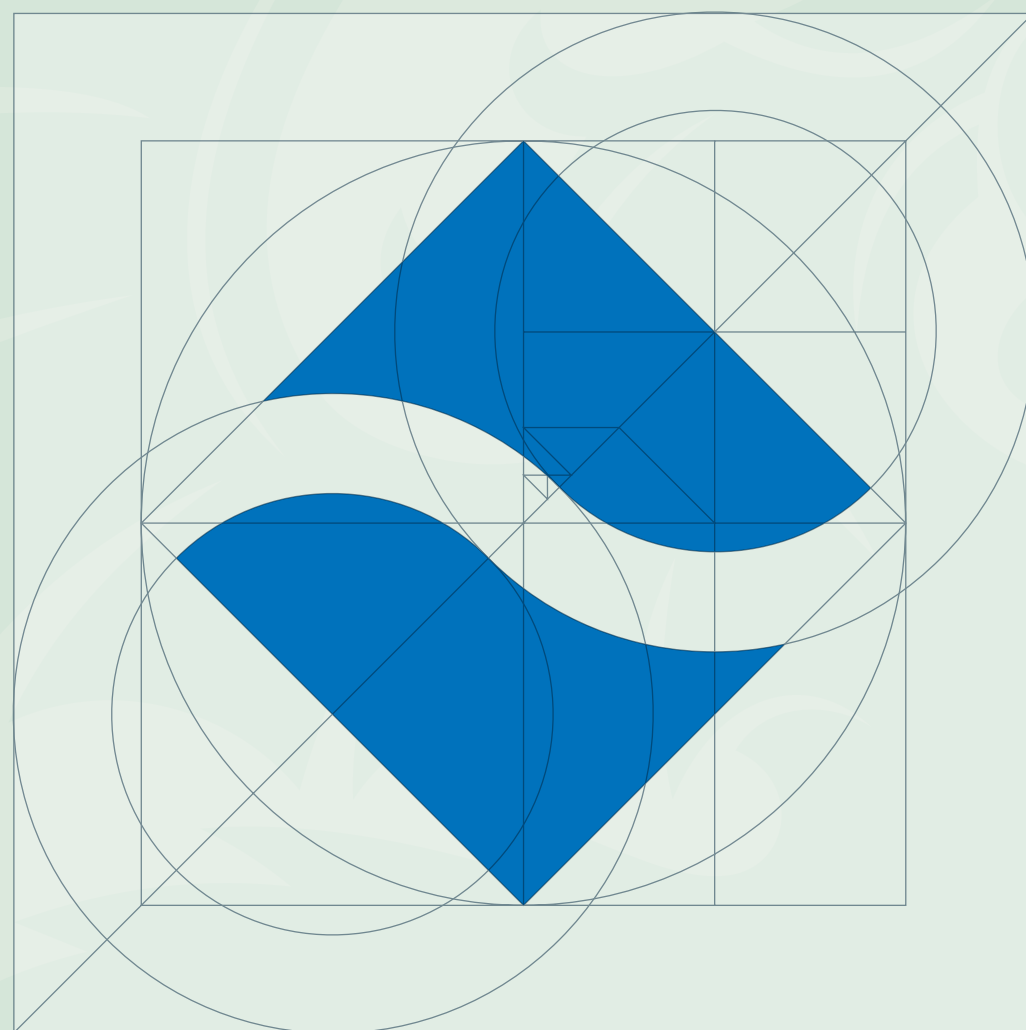
version control

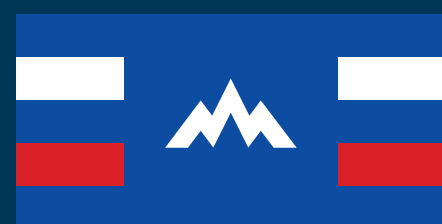
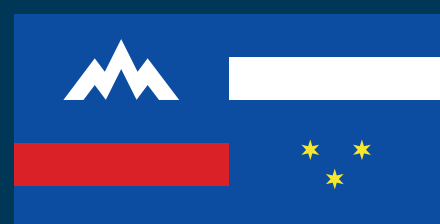
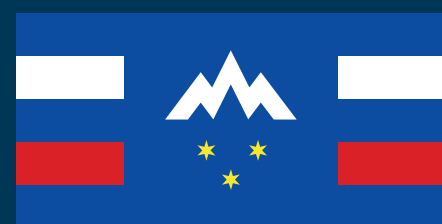
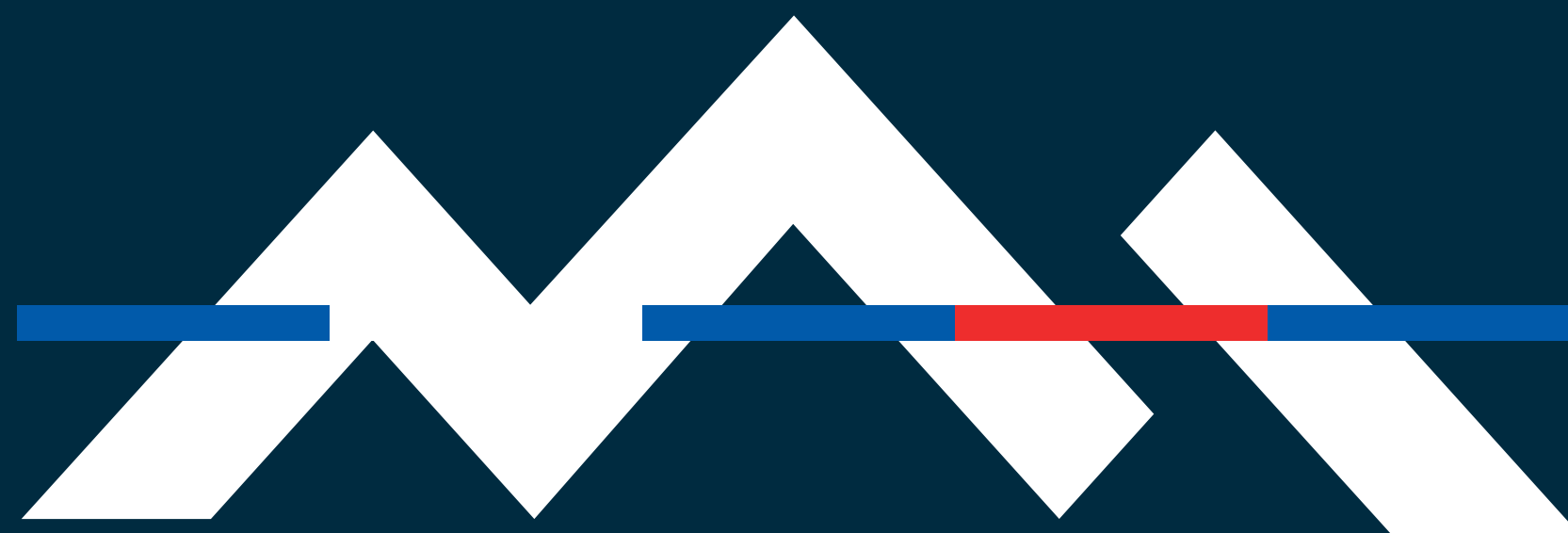
guidelines and rules

all variations

hierarchy

constant evolution







1535

Holy Roman Emperor
Ferdinand I.



BREŽICE
RANN - SEIT 1353

Brežice SLOVENIA
Time for me.



**GLOBAL
SYMBOL
CHAOS**

poor design practices
poor technical execution
wrong colour models
wrong file formats
lack of standards

RGB → web only!

CMYK → print

PANTONE → print & textile

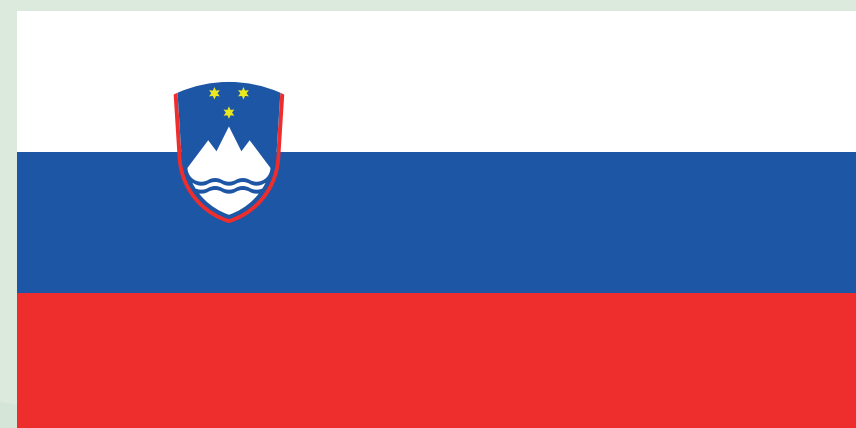
Other

RAL → metals

MACal → foil

...

PRINT → **RGB** ❌



Still the only available version to download from the government.

CMYK ✅



Leaving it to users to prepare their own versions based on written values leads to mistakes and unnecessary file duplication over the web.

Automatic conversion from RGB to CMYK can create over ink limit colours

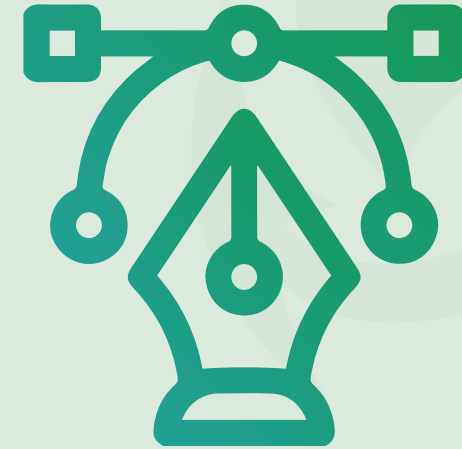
Automatic conversion from CMYK to RGB does not produce the same results as the reverse process

It's not hard!

Define colours and publish symbols in all common colour models

Define custom colours in cooperation with the manufacturer if need, don't let it to coincidence

Matchprint / compare samples



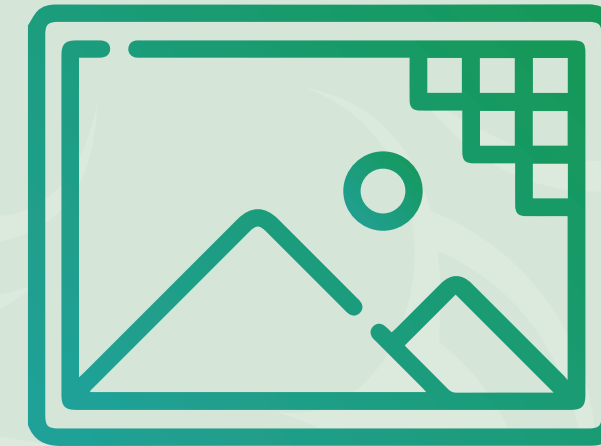
Vector

pdf, ai, svg

unlimited scaling
lossless
precise
colour definable

standard in design creation

The only right way to use in practice



Raster

jpg, png, gif

unscalable
uneditable
no colour information

always rarer in design creation

still too common in practise

avoid publishing and using
even on web, you can use SVG

VECTOR **pdf** → print & use preferred
ai → print
svg → web only! best for web vectors

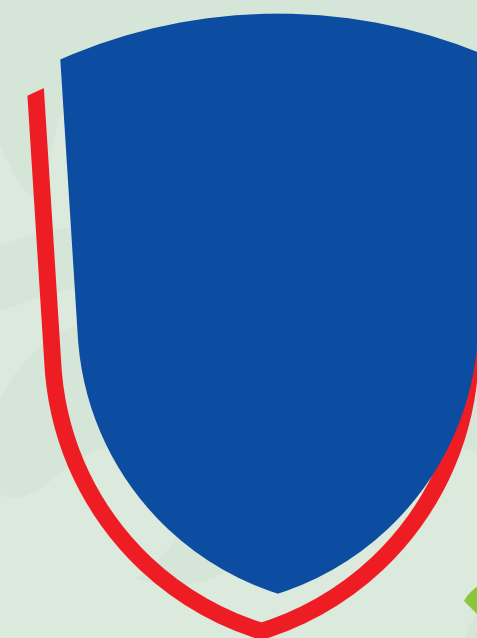
RASTER **jpg** → images only!
png → better compression for some images
gif → animations and memes only!



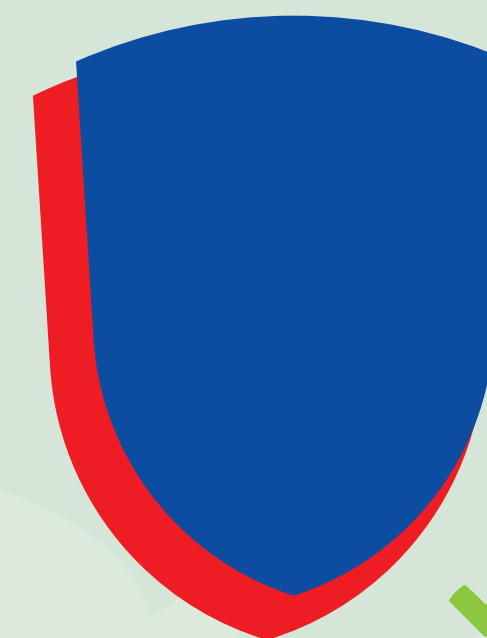
**Define in
common colour
models**



**Elements below should not be
cut out but simply put over**
(watch out for overprint)



Cut solids
(can cause problems
if not properly cut)

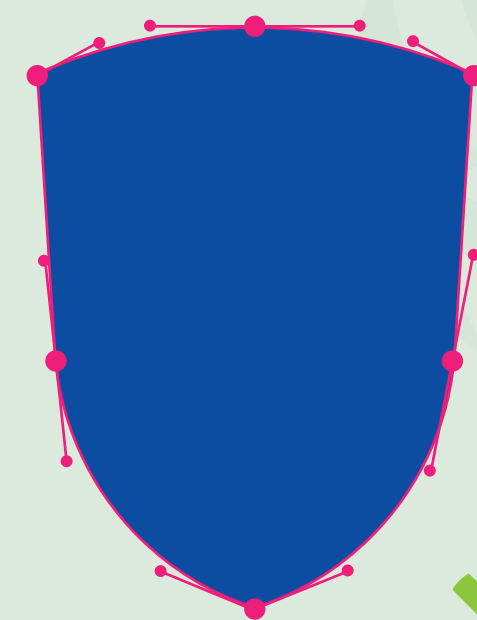
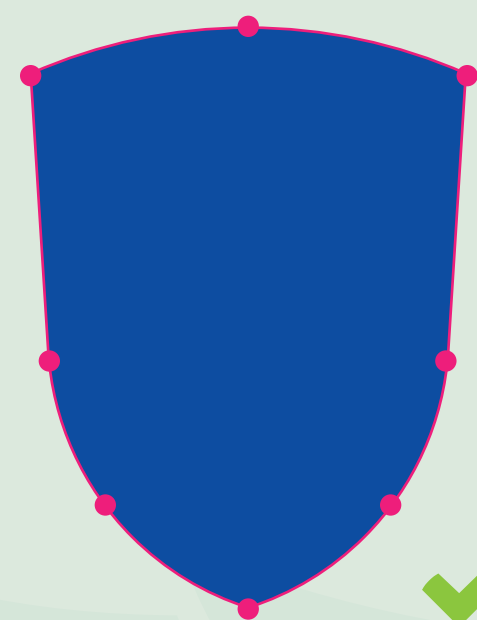
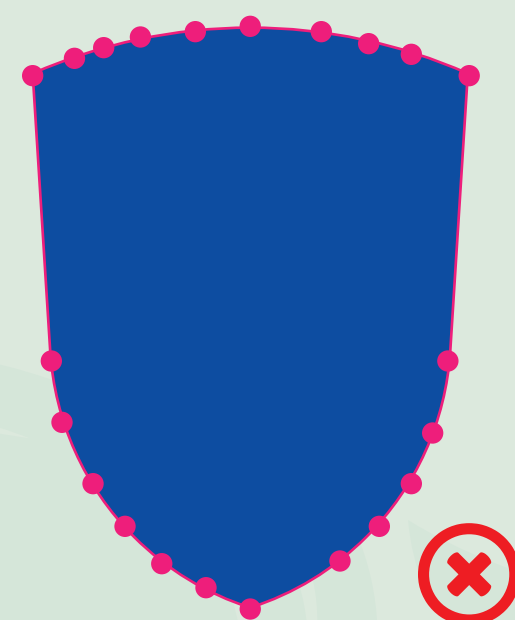


Solid over solid

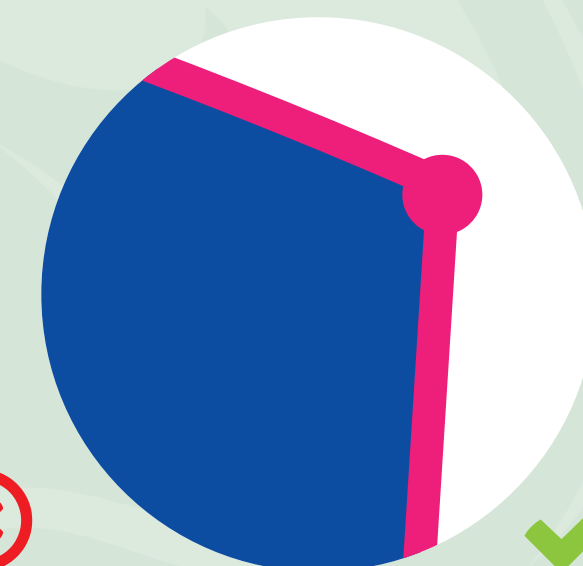
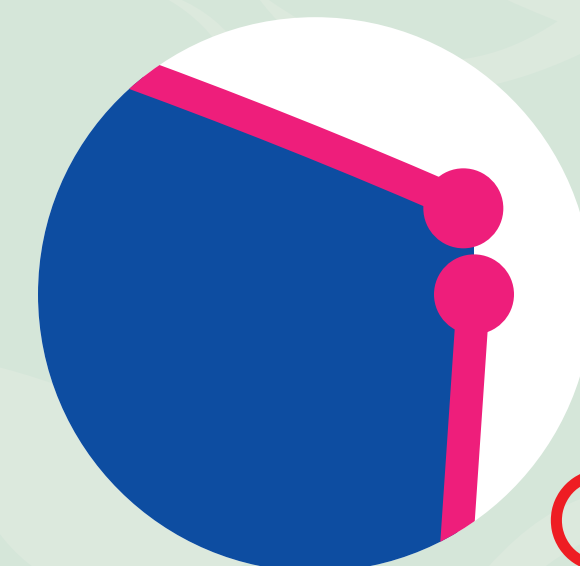


use layers
useful in production and for order,
but not necessary in use

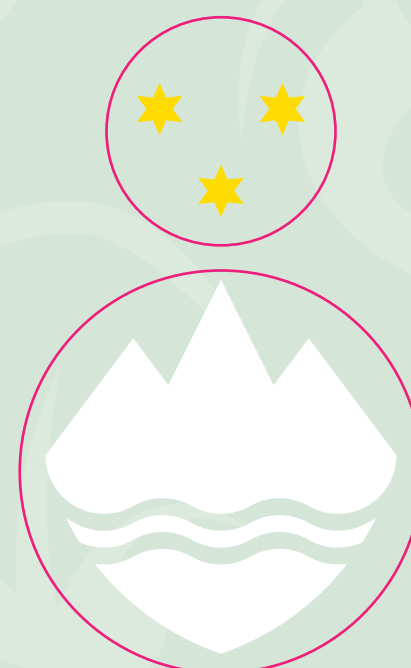
original



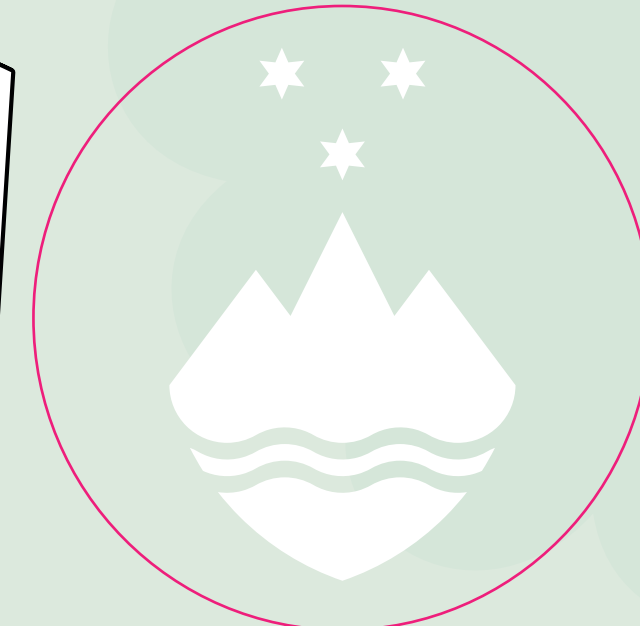
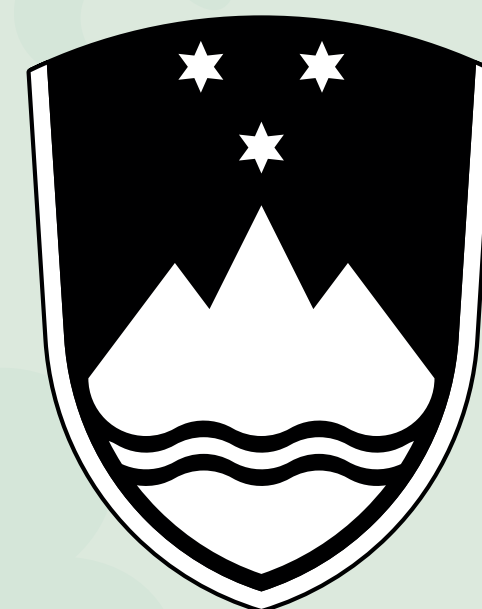
minimize nodes



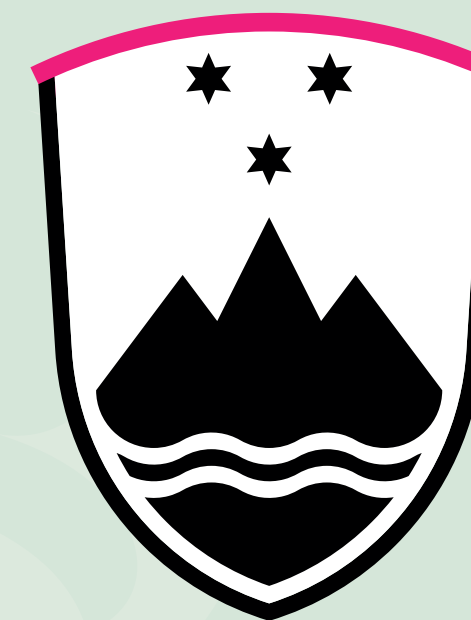
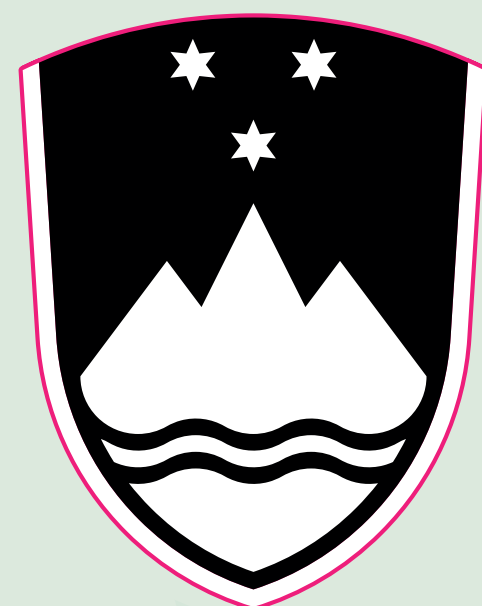
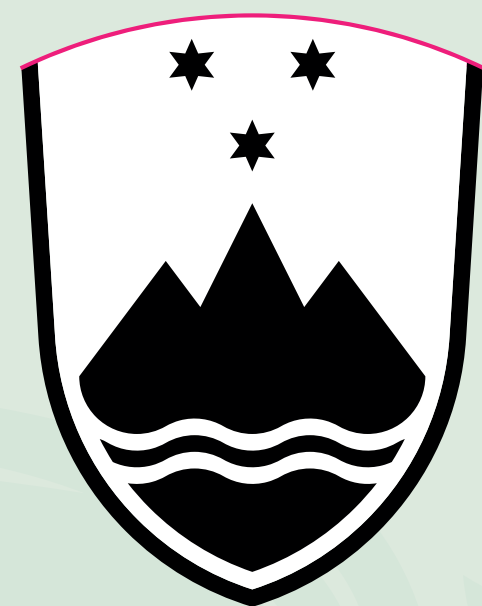
close paths



Combine same colour
and content elements
(compound path)



Group same content and colour

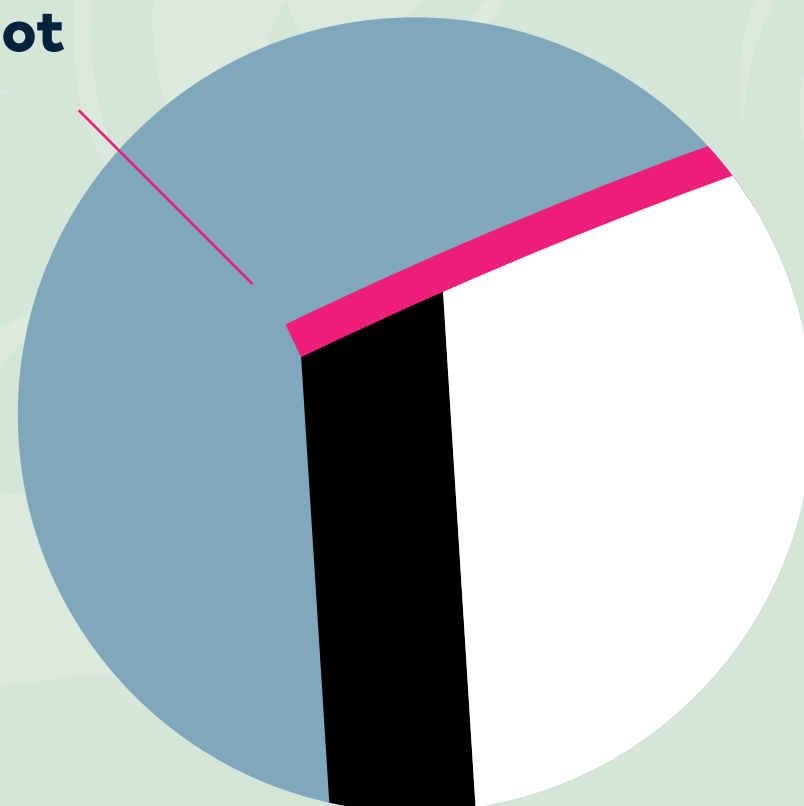


Avoid strokes in publishing
expand to solids rather

It does happen

Problems when resizing
Do not leave it to the user or software

**This is not
a join**



**Avoid mixing strokes
and fills**

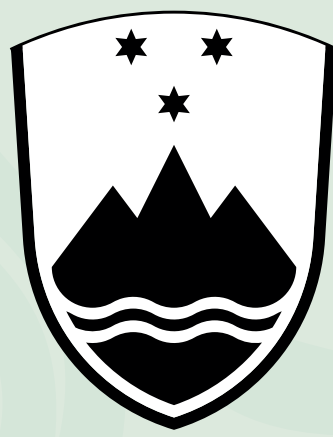


Use solids



**Or closed lines
if you must**

I FEEL
SLOVENIA



Remember

The more versions you make, the less embarrassment you get.

Outlining fonts

Avoid clipping masks

Avoid transparency

Avoid shading & effects

Honourable mentions

Avoid (complex) patterns

Gradients as definitions

No embedded images - all vector

vector filesize measured in kb

CREATION OF GLOBAL STANDARD

cataloging and indexing

categorization

colour models

formats

namespaces

layers

database

Utopias must exist. When you believe in them, they become true.

Standard colour models

print / CMYK & PANTONE

web / RGB

Standard dimensions

print / mm / 100 mm short side

web / px / 100 px short side

Standard file formats

print / pdf

web / svg

Best practices

tips, guidelines, ...

Symbol production

Standard design practices

grouping elements of same content

combining elements of same
content & colour

stacking of solids

expanding lines to fills

no shading & transparency

no embedded images

no clipping masks

outlined fonts

...

Namespacing

standard filename structure

standard folder structure for
multiple elements

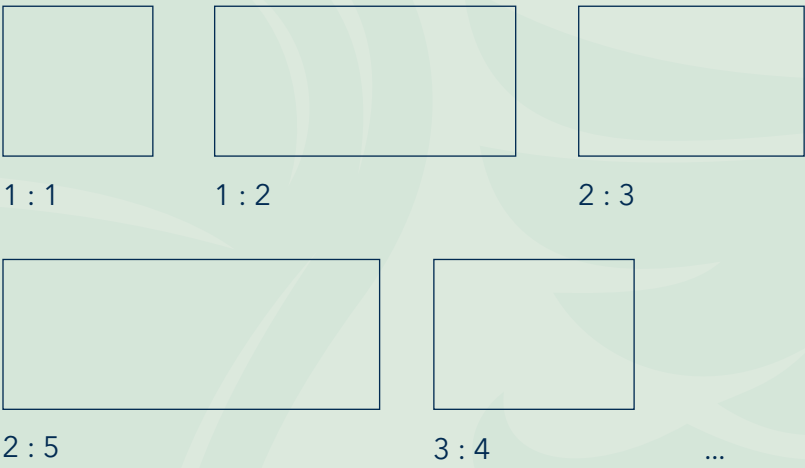
eg. flag_republic-of-slovenia_1x2_cmyk_1.0.0.pdf

Database and indexing

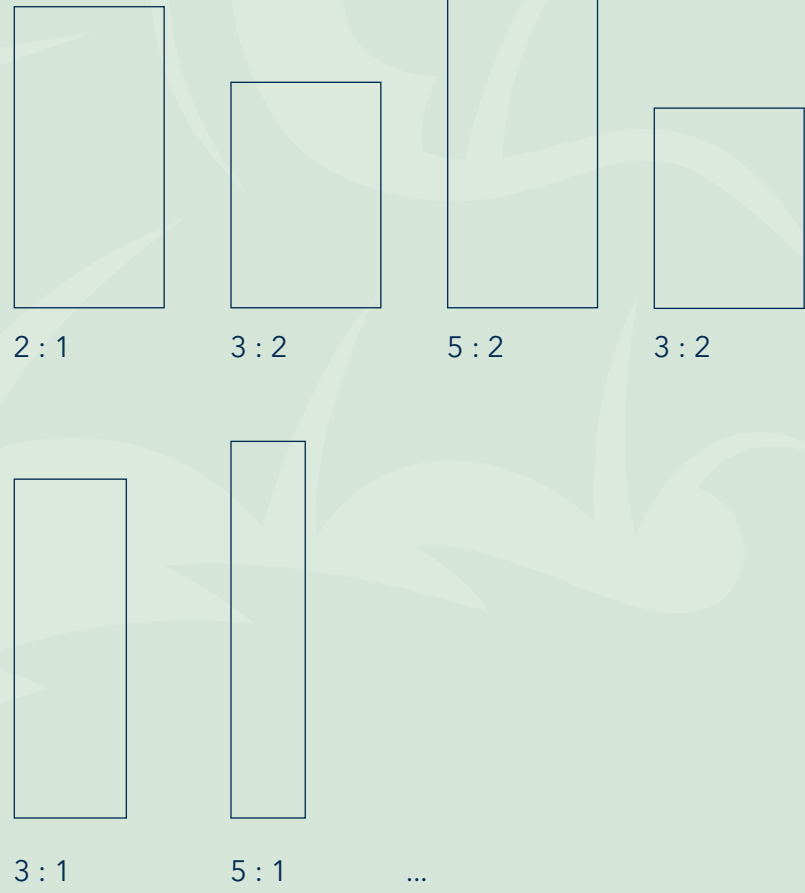
Type definitions

Ratios

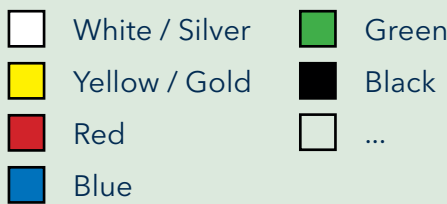
Horizontal



Vertical



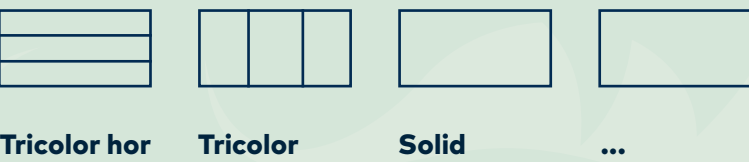
Colours



Colour models



Flag types



Inclusion of elements



Types



Example definitions

national	National
historic	Historic
civil	Civil
...	President's
	Army
	Commercial
	Naval
	...

Main entries

Example entry

parameter	value
countryId	si
country	Slovenia
originalName	Zastava Republike Slovenije
intName	Flag of the Republic of Slovenia
nickname	-
flagType	tricolore hor
coloursNum	3
colours	red
	blue
	white / silver
emblemType	emblem
originalRatio	1:2
flagDescription	...
dateOrigin	1991
...	...

CONCEPT

GLOBAL SYMBOLS DATABASE

all symbols of the world in one place

global symbol and flag standards homepage

symbols search engine

categorisation (flags, emblems, coat of arms, logos, ...)

filtering (ratios, colours, years, elements, authors, contributors, ...)

contribution system

symbol registration / authorship protection

accounts (personal, official)

community

open source / under ICV ownership?

funding needed

Wikipedia is **not** the solution.



The screenshot shows the website veximbo.com with a search bar and navigation links. The main content area displays the flag of the Republic of Slovenia, with a circular inset showing the coat of arms. Below the flag, there are sections for 'Colours', 'Technical details', 'Symbol', 'Files', 'Contributors', and 'Similar symbols'.

Colours

- ☐ White
- ☒ Blue
- ☒ Red

Technical details

Entity	Slovenia
Category	Flags
Subcat	Countries
Year start	1991
Year end	active
Ratio	2:1
Authority	Republic of Slovenia
Authors	Marko Pogačnik

Symbol

Flag horizontal CMYK (pdf)

Flag horizontal PANTONE (pdf)

Flag horizontal RGB (pdf)

Files

Flag horizontal CMYK (pdf)

Flag horizontal PANTONE (pdf)

Flag horizontal RGB (pdf)

Contributors

Heraldica Slovenica

Description / blazon

Ut eum qui inime pratur sunt prem alitate catibus antintur? Dem utento vollitas prat fugia quatum quis aut accus issi quo beris et is et reptum et ullam cus poreu quo quamenis debet, ut eresend ipsuntemped quatus. At ex endignatem. Aborum sae sapider chilisciunt voloreptatem volorem es aut dolorione. ...

Similar symbols

- Coat of Arms Republic of Slovenia
- Slovene national flag 1848
- Coat of Arms Slovenian Armed Forces
- ...



THANK YOU **FOR LISTENING!**

@dominikcernelic
domdesign.com

