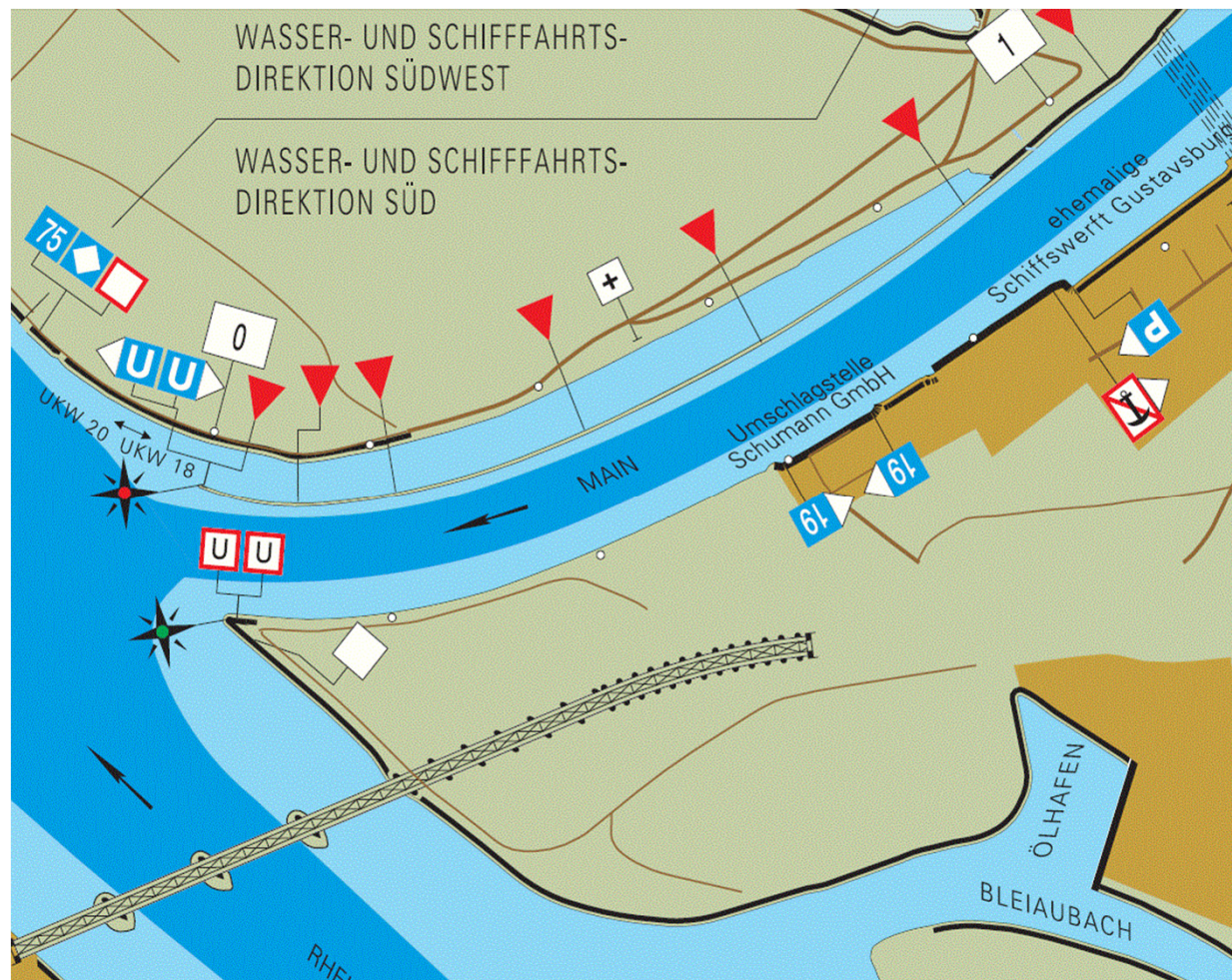
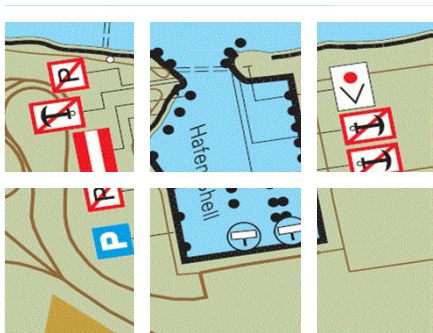


Wir machen Schifffahrt möglich.

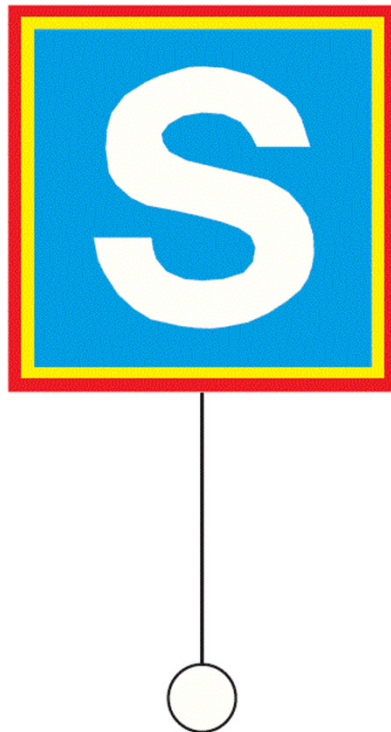
IENC, S100-Alignment

Possibilities to visualize point-symbols better using “scale factor”, “offset” and “rotation”



IENC, S100-Alignment

Visualization of symbols, the visualization now: overlay!

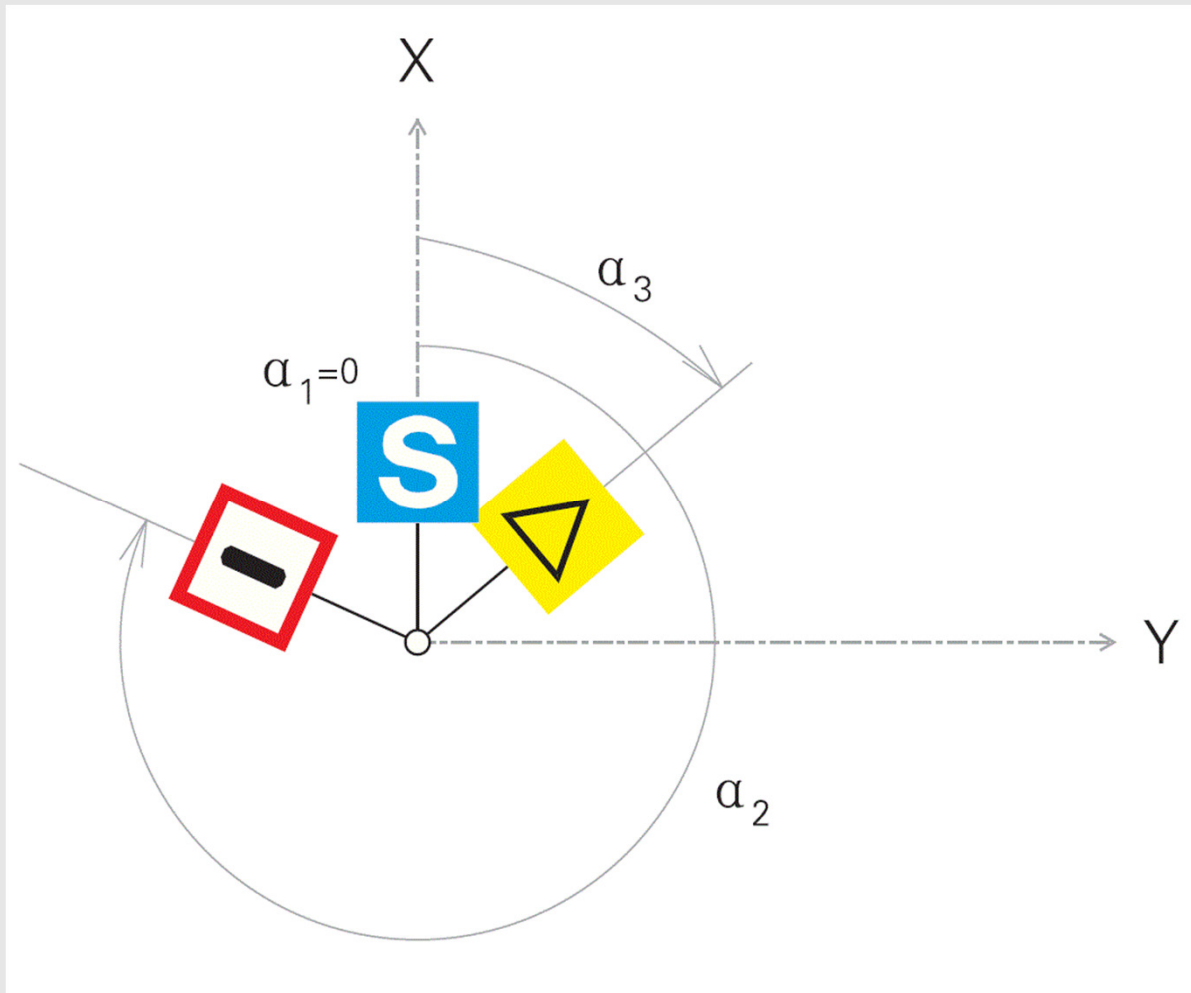


Three symbols (notice marks) at the same position:

- Only one is visible in the map
- The other two are covered
- The red one has top priority

IENC, S100-Alignment

Visualization of symbols, “rotation”

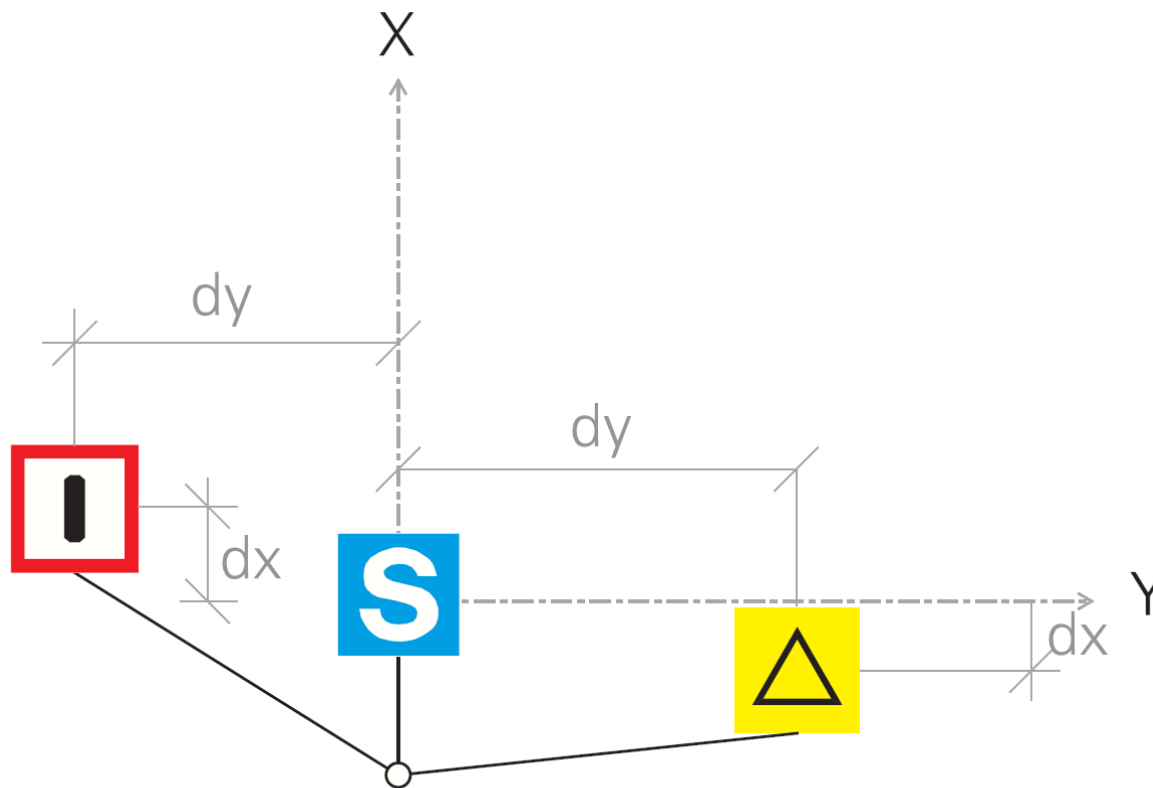


A rotation angle can be used for twistings to make all visible.

- The relation to the position is unchanged

IENC, S100-Alignment

Visualization of symbols, “offset”

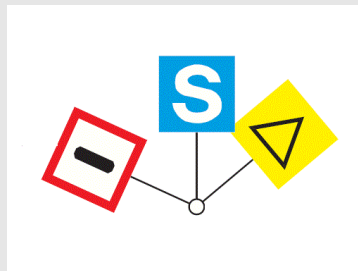
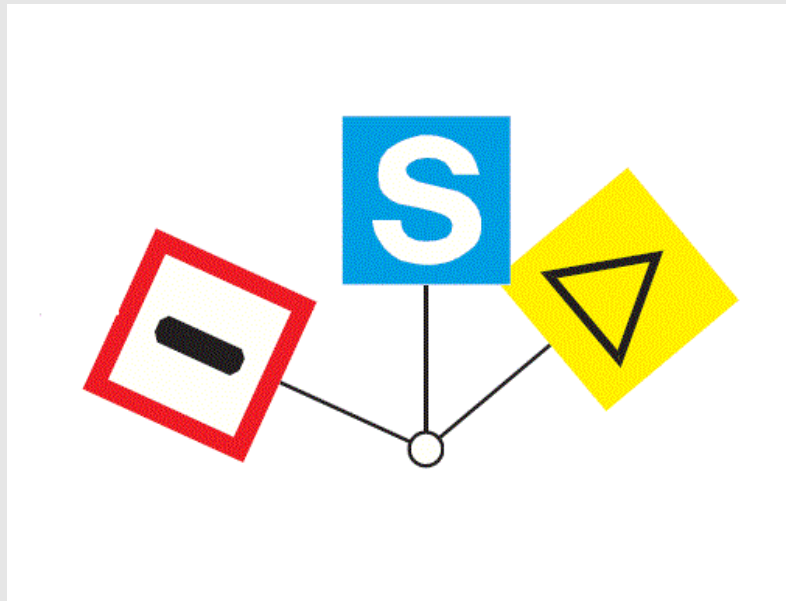


An “offset” (dx, dy) can be used for shiftings to make also all visible.

- The relation to the position is unchanged
- The rotation of the sign is unchanged

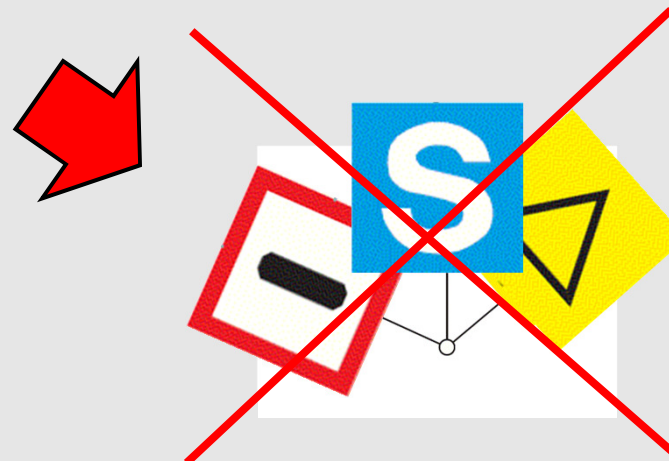
IENC, S100-Alignment

Visualization of symbols, “scale factor”



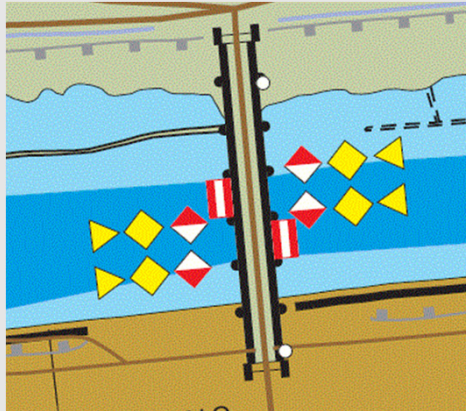
An “scale factor” has to be used to avoid overlapping of the signs in different scales of the map.

- The relation to the position is unchanged
- The rotation of the sign is unchanged
- The offset is also adopted by the scale factor

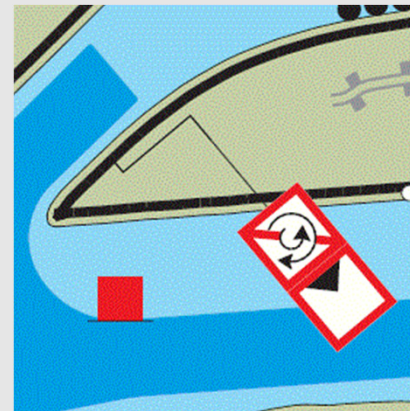


IENC, S100-Alignment

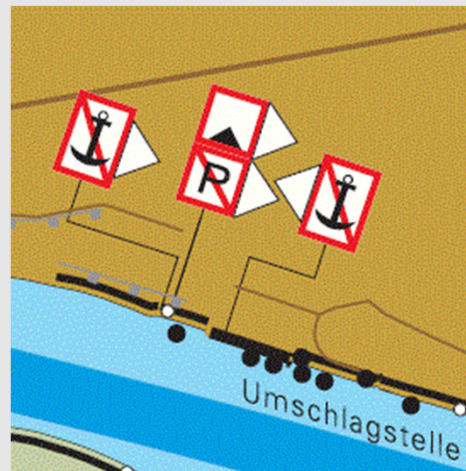
Examples for use cases (combination of “rotation” and “offset”)



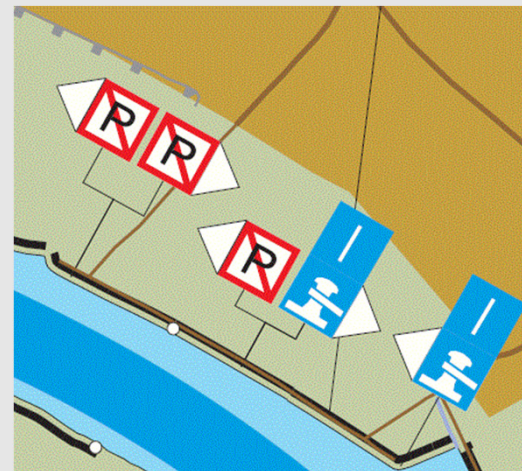
at bridges



in case of
overlapping
with other
objects



same priority



different
priority, but ...

Wir machen Schifffahrt möglich.

**Thank you for
your kind
attention!**

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WSV.de

Wasser- und
Schifffahrtsverwaltung
des Bundes