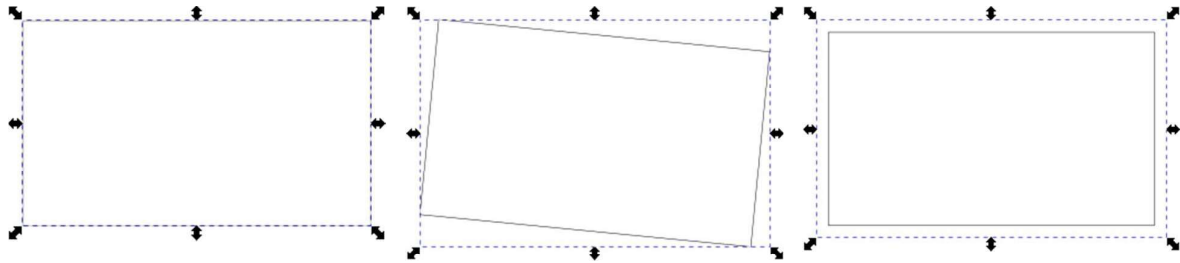


# Bounding Boxes

*Example file: bounding-boxes.svg*



Rectangle – no stroke width, perpendicular to X and Y axes, outline view.

Same rectangle, rotated.

Same rectangle, but now with a 10mm stroke width, set to visual bounding box.

**Figure 45: Bounding boxes**

The bounding box is “smallest rectangular box with sides parallel to the x and y axis that completely encloses an object”<sup>65</sup>. The bounding box can be the same dimensions as the object, if the object is rectangular, perpendicular to the vertical and horizontal axes, and has no stroke width. In all other cases, it is visible as a dashed blue border when the object is selected.

With Inkscape on default settings (Visual bounding box), if you set a stroke greater than zero, the bounding box includes the stroke width (see the right-hand object in Figure 45).

The stroke has no bearing for laser cutting, so it should not influence your design. But it does:

**⚠** The stroke width is included in the object size

Under the following circumstances, you could easily create an object that is the wrong size, when the stroke width is excluded:

**Figure 46: Stroke widths can affect object dimensions**

1. Go to Edit / Preferences / Tools
2. Select Visual Bounding box
3. Close Preferences
4. Draw a rectangle of any size
5. Object / Fill & Stroke
6. Stroke width = 30mm



<sup>65</sup> <http://tavmjong.free.fr/INKSCAPE/MANUAL/html/Glossary.html#boundingbox>