

LUCA WORK (Roberto if he leave his bed)

Cropping

- 1) Take a look in the main at the bottom, there is a for Loop. What represent xmin, xmax, ymin, ymax, zmin and zmax ?
- 2) Let s say that you want to remap xmin and xmax with a slider going from 0 to 100, 0 is xmin and 100 is xmax what will be the value of v representing a linear equation $(ax+b)$ such as :

$$\begin{aligned}v*0 &= \text{xmin} \\ v*100 &= \text{xmax}\end{aligned}$$

- 3) Take a look at the CroppingBoxpointRemoval function, how does it work ?
- 4) Modify it such as it crops from the other side of the x axis
- 5) Remap the y slider so it crop on the x axis but at the opposite of the x slider (for example point size =0 give x and point size=-1)
- 6) Use the point size to switch between each direction of cropping (x,-x), remember to store the value of the slider x,-x when changing point size
- 7) Try to find a smart implementation (something you wouldn't be ashamed if Yohan saw it) of the cropping on both direction for all the axis. Try to write as few lines as possible !