



To begin, active boxes = first (blue) box 
Suppose yellow box intersects with blue box at the orange area

- 1. Identify intersection box (orange)
- 2. Cut the blue box by 6 sides of the intersection box
- => Blue box is divided into max. 6 cubes depending on position of the intersection. In this case blue box is cut into 3 boxes:
- 3. After intersecting & cutting, blue box is gone.
- If yellow box is ON: active boxes =
- If yellow box is OFF: active boxes =
- 4. When a new box comes, compare new box with active boxes