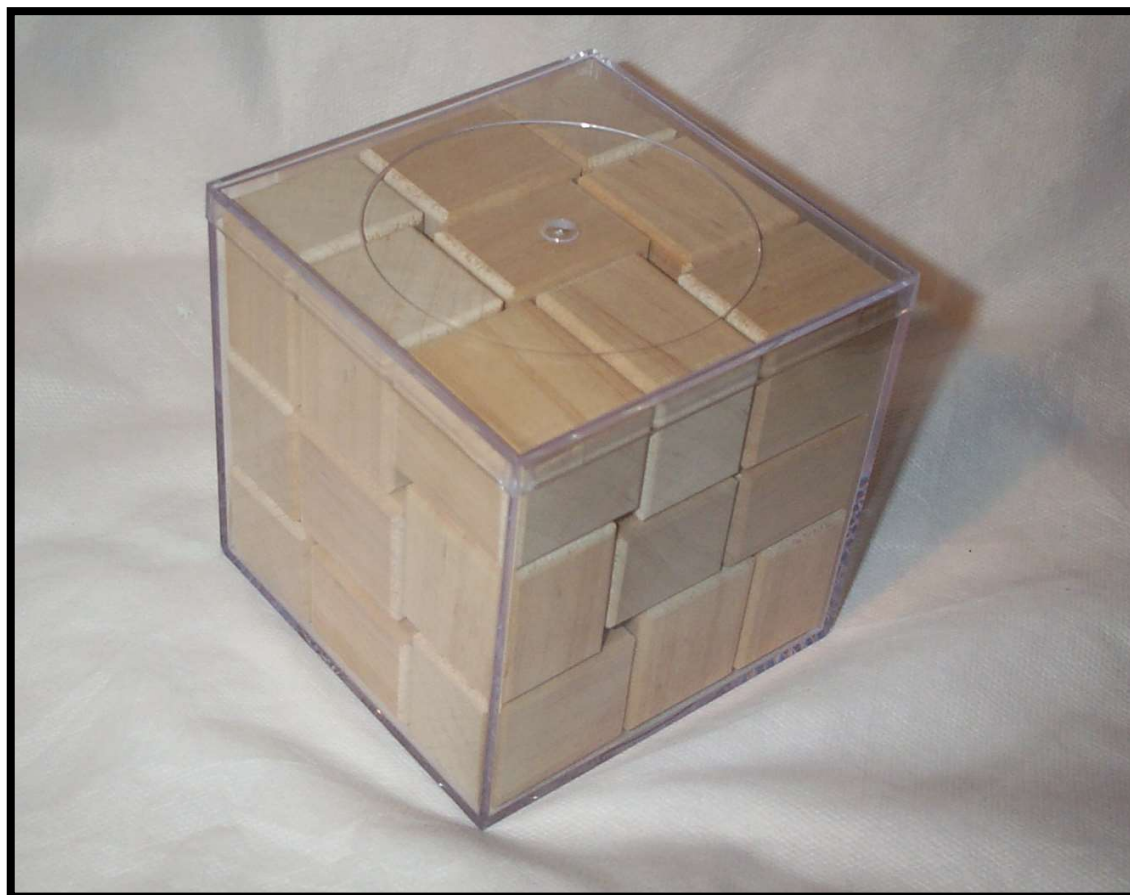


# Hoffman's Box Packing Puzzle

*\*\* Pack the 27 Identical Blocks into the Box \*\**

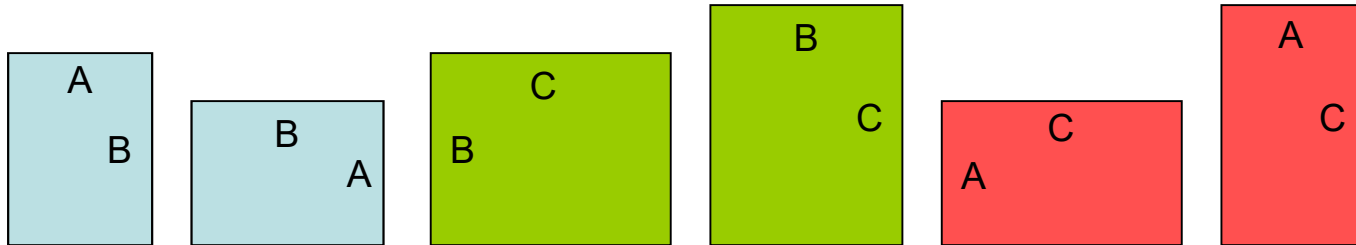


# Making a Hoffman's Box Packing Puzzle

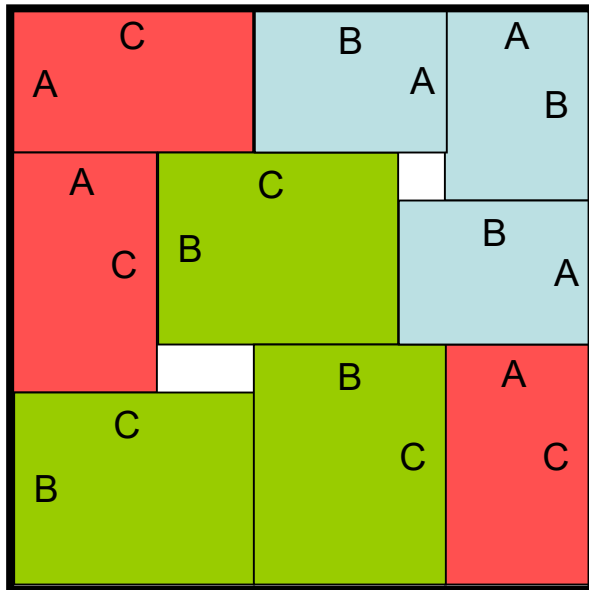
*(Easy to make, Hard to solve)*

- This puzzle is made up of 27 identical pieces.
- First, determine the internal size of the box to hold the pieces. A clear cube box works nice. Organized Living has one with a 3.75" internal dimension. They also have a box, though it is longer on the height, of 2.15".
- The dimension of each piece is  $A \times B \times C$  where  $A + B + C = \text{Box Interior}$  minus a smidge.
- Suggested dimensions:  $A = B - n$  and  $C = B + n$ , where  $n$  is  $\sim B/10$ .
- For the 3.75" box, these could be dimensions of 1.10" x 1.25" x 1.40".
- For the 2.15" box, these could be dimensions of 0.60" x 0.70" x 0.80".
- Thickness plane a long strip of wood to dimensions of  $A \times B$ . The strip length needs to be  $27 * C + 3 \frac{1}{2}"$  (for cut waste).
- Crosscut pieces on Table Saw to length  $C$ .
- Lightly sand all surfaces.
- Sand the edges or rout each piece with a small chamfer or round-over.
- Oil.
- Play!

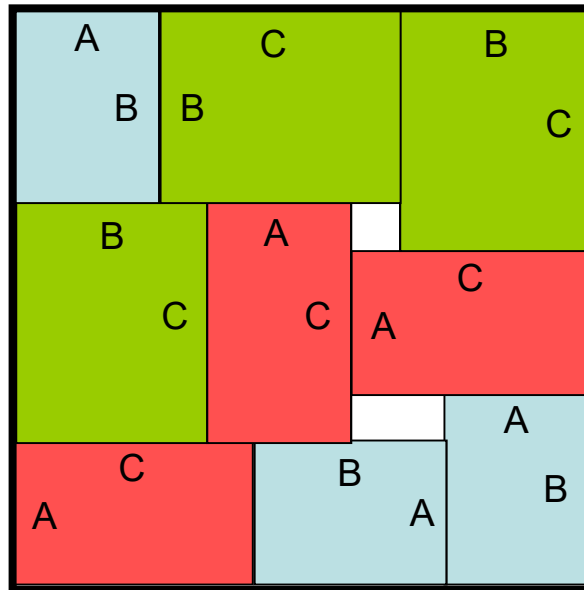
# Hoffman's Box Packing Puzzle Solution



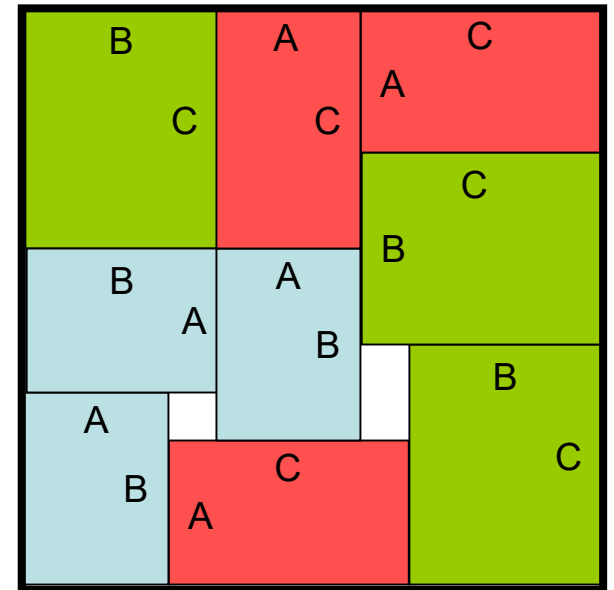
Bottom Row



Middle Row



Top Row



# Hoffman's Box Packing Puzzle – Box Labels

