



## Bookshelf & Wine Rack

NO.	ITEM	DIMENSIONS (INCHES)			MATERIAL	COMMENTS
		T	W	L		
□ 6	Sides	3/4	9 1/4	14	Pine	Rabbet both ends
□ 6	Sides	3/4	9 1/4	13	Pine	
□ 1	Shelf	3/4	9 1/4	12	Pine	45° bevel both ends

### Make the Shelf

Choose one of your boxes, it doesn't matter which, to house the horizontal shelf. Grab the leftover piece of pine from earlier and use your square to mark a 45° angle on one end of the board. You should have about 18" of board to make the 12" shelf, so there is no need to measure length yet – just get fairly close to the end.

I considered using the miter saw for this (which would have eliminated the need for marking the angle), but the piece is so small that it would be a scary cut to make. Break out the jigsaw instead. Set it to 45° and find your fence placement from the line the same way you found the router fence placement.

Steady yourself, then make the cut. To get the correct length, measure 12" from the outside of the bevel you've created – that mark will be your next cut. Make sure that the bevels on both ends slope toward the bottom of the piece



**A jigsawn bevel.** Set your jigsaw's baseplate to a 45° angle to cut the shelf to size.

before making the second cut.

Installing the shelf in the box may seem a bit tricky. The piece, which fits snugly into exactly the right place with no measurements whatsoever, will want to slide around when you nail it. To avoid this, clamp the piece of 45° scrap you just cut to the inside of the box. The matching angle will provide all the support you need. Drilling pilot holes into the shelf will make this process even easier – just a few taps and you'll be in.

### Tune-up & Assembly

The flip side to the convenience of big-box lumber is that the boards are seldom perfect. Those slight defects translate into less-than-pristine edge alignment in the joinery, even if your boxes are perfectly square. No worries – this is what a block plane is made for. Use it to trim the front edges flush.

Final assembly of the piece is the easiest part of the entire project. Place the middle box on its side and stack one of its companions on top. Make sure to align the sides so they match: rabbet with rabbet on one, non-rabbet



**Trim up the edges.** Dimensional lumber seldom results in perfect boxes – but a block plane can easily solve the problem.

with non-rabbet on the other. The continuity won't stand out as a feature, but discontinuity will.

Clamp the boxes together and tweak the alignment as necessary. Drill four countersunk pilot holes about 1 1/2" from each corner, and install the screws. Flip the whole thing over and attach the third box.

Add a few coats of clear Watco Danish Oil (or the finish of your choice) and this piece is ready hold books. Or wine. But preferably both.

The wonderful thing about this piece: If you get sick of it sitting on its corners, flip it over to stand upright. It's even small enough to hang on a wall. And of course you can always expand it by building more modules. **PMW**

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