

# How to use ancient crafts and modern techniques

In conjunction with Miniature Time Traveller Magazine and miniaturist Jill Fraser



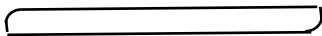
## Wooden windows shutters that open and close

These are Tudor shutters but the technique could be used and refined on modern day shutters. See a later craft sheet.

It is a good idea to make a jig to build your shutters on. It keeps the pieces firm when you are drilling the holes in the sides of the shutter frame and into the shutters themselves. It is nearly impossible to do it any other way.

Once you have your window pieces all cut you need to do prepare your shutters.

They work better if you sand a top bevel and turn it and sand a bottom bevel in it so it looks like this. This allows them to move past each other when opened.



Then you need to prepare them for the attachment that will open and shut them. In this sample two holes were drilled in the centre of each shutter near the top edge.



A length of 22 gauge florist wire was bent around a round stick and trimmed to size. Fig. 1 and trimmed to size. The two holes in the shutter should be 1/4" apart.

Now glue this loop into your two holes on each shutter.

Leave overnight to dry.

### Assemble your frame within the jig:

1. Lay your sides against the sides of the jig and glue the top piece to the top ends of the sides. Glue the bottom piece between the sides. Fig.2

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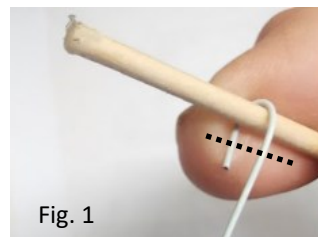


Fig. 1

### Materials:

To make jig to ensure all sides are straight and each window is the same.

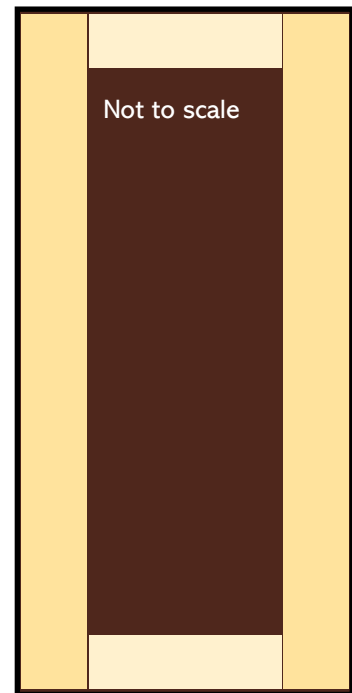
A piece of 3ply wood 2 3/8" x 5 1/4"

2 x side strips 1/8" thick x 1/4" wide and 5 1/4" long.

1 x top strip 1/8" thick x 1/2" wide and 13/16th wide or the width you have once you have glued your sides on flush with your bottom edges.

1 x bottom strip the same.

Glue the sides and bottom strip to the ply wood as shown.



For your window frame and shutters you will need:

Some clean popsicle sticks that are 3/8th " wide and 1/8th " thick.

Cut 2 sides 3 1/2" long.

1 x top which is glued to the tops of the sides. 1 13/16th long.

1 x bottom which is glued between the sides. This will be the same width as your shutters, 1 5/8".

Shutters: wood 1/8" thick, 1 5/8" across and 5/8 " deep.

Cut at least 10 so you have a spare.

Tools required: Drill with .8 mm and 1mm bits. Small pins or brads the same diameter. Wire cutters.

Other: Tacky glue. Narrow masking tape. Strong cotton, needle.

Lay the shutters in place between the frames and tape with masking tape to keep them in place prior to drilling.

It is best to mark the mid point of your shutter on the jig where you will drill your holes through.

Have your pins close by. Holding your drill level, drill through the side and into the middle of the shutter. The depth depends on the length of your pins. The pins work best if cut in a 1 cm length. Drill your hole and insert the pin as your work your way down one side. Then use a narrow strip of tape and cover the heads of the pins. If you don't they fall out. Woe!!

Complete the other side the same, taping over the heads of these pins as well. This tape can stay in place even when you fit your shutters onto your house. It is hidden.

Now they have to open and shut.

My method was to take a narrow craft stick and drill holes in it to match the position of the pins. I cut it a bit longer than the frame and angled the bottom of it up a little. See Fig. 3.

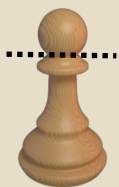


Fig. 3

You can attach this rod to the loops in two ways. You can find a metal ring that will fit through the holes in the rod and the loops on the shutters. You can do what I did and sewed that rod to the loops on the shutters with strong cotton. Once the shutters were painted this was not that apparent. See Fig. 5.

When finished, if you gently move the rod downward it pulls on the loops at the top of the shutters and tilts the bottom of the shutters outward.

### A little extra—making a Tudor candle stick from bits and pieces.



You will need: an old chess pawn piece.

A small saw. A drill and drill bit .

Tacky glue.

A clear or white plastic tube. Protectors from new paint brushes are good.

Positive and negative wires

Heat shrink tubing

Battery set. 3-12 volt power supply.



1. Cut off top knob of chess piece.
2. Enlarge the middle hole with a drill so your LED light and wires will travel down the centre.
3. Wire up a yellow LED bulb with light wire using one for positive (long leg) and one for negative (short leg). Neaten with shrink wrap.
4. Paint the clear tube white if needed.
5. Push your bulb and wires into tube from top. Glue into place.
6. Cut a notch out of base to run wires out of.
7. Attach it to your battery source.



Fig. 2

On right, inside of shutter before rod is in place.

Below, fitted into frame with rod in place.



Fig. 4



Fig. 5