Split-flap animation



duration: 30 - 60 minutes age: from 7 years

Show your own animation using this split-flap display

undefined

tools

☐ Laser cutter

☐ markers

□ small saw

materials

☐ Plywood, 1/8" (3mm) thick

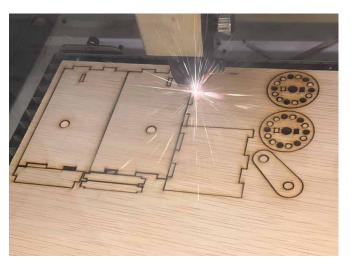
□ Woodglue

☐ Wooden rod, 6mm diameter

☐ Thin card-stock

☐ Split pin / brass fastener - (2cm)

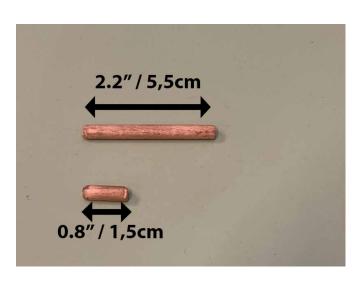
□ Paper





Cut out

Use the laser cutter to cut out the template.

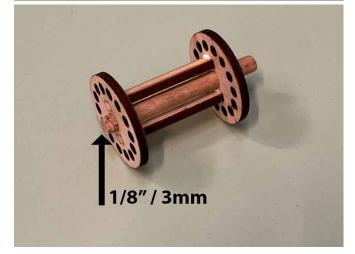


2 Cut the rod

- Cut a 2.2" / 5.5cm piece of the wooden rod.
- Cut a 0,8" / 1,5cm piece of the wooden rod.





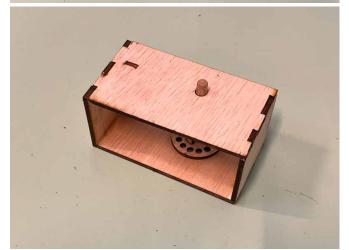


3 Assemble the wheel

- Glue the offsets in between the 2 wheels.
- Push the long piece of rod trough the wheels. Make it stick out 1/8" / 3mm on one side.





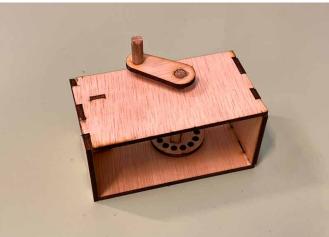


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Assemble the housing

- Use some glue to attach a top, center and bottom pieces to one of the sides.
- Place the wheel inside the housing.
- Glue the other side-piece in place.

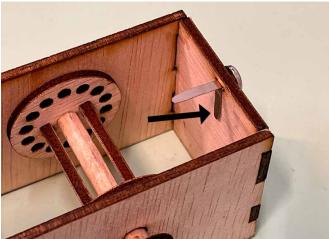




5 Attach the handle

- Glue the short piece of rod into the small end of the handle.
- Glue the handle to the piece of rod sticking out of the housing.

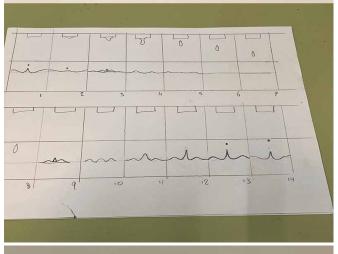


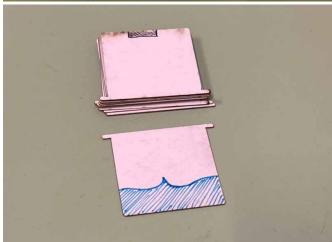


6 Ac

Add the split-pin

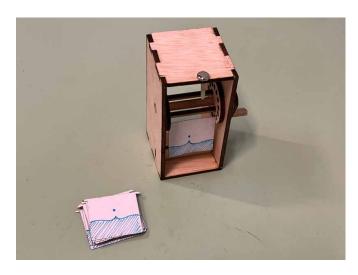
- Place the split pin trough the hole in the top, with the longer lip facing the front.
- Bend the short lip backwards, leave the long lip pointing down.





Make your animation

- Plan out your animation on some paper. MAke sure the last frame matches up with the first one.
- Stack your 14 flaps on top of each other, and flip the top one down.
- Draw the first frame of your animation across the 2 flaps that are now facing you.
- Flip the top flap on the stack over to draw your second frame. Repeat.
- When you reach the last flap, you can take the bottom flap of the stack and use that for the top half.





Place the cards into the wheel

- When bending the cards to place them in the wheel, make sure to bend them in the middle where the cardstock is the strongest.
- Place the housing on the table the split pin on the top and facing you.
- Flip over the stack of cards and place the card thats now on top into the wheel.
- Place the next card above the first one.
- Repeat for all cards.





Enjoy your animation!