MINI LAB MODELS

Paper gaming terrain:
Medieval & Fantasy



Village Well

- Detailed models of a simple crank well
- Alternative roofing versions (plank or wooden shingle)
- Versatile model for fantasy and historical settings
- Detailed assembly instructions

Difficulty: ●●○○○

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Medieval & Fantasy paper gaming terrain

Village Well

MiniLab Models:
Village Well

Design, geometry and textures:
Krzysztof Komorowski ©2015

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Thank you for taking your interest in MiniLabModels Village Well model.

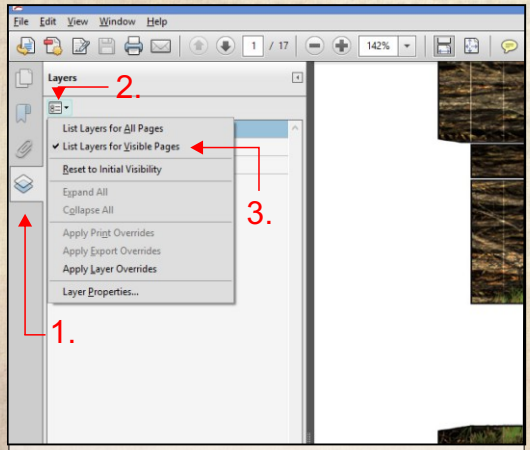
This set will allow you to make a simple, roofed, crank well. One of the most universal well types found across the world, since ancient times well into the industrial era. Such well will look good in any village, in a historical or fantasy setting, adding to the flavour of your miniature gaming table or diorama.

In many cultures even a simple village well was a special place.
The locals met there to gossip or meet with travellers watering horses for trade or news from the far world.
Many legends revolved around wells. A well could hide an entrance to a tunnel leading to the nearby castle or a cursed treasure hidden by an evil wizard or lord centuries ago. Maidens looked into the well by the moonlight of St. Andrews night hopeful to see an image of their husband to be reflected in the water. Witches could use wells near their huts, or e.g. in haunted, abandoned or charred villages to divine future, or as an entrance to the underworld.

Now you have all you need to create your own village well, and make it part of your story.

Best regards,
Krzysztof

Legend:
- Fold/ break along this line
- Fold / align here
- Apply glue
- Drill / cut out a hole
- Cut along the line
- Flip to the other side



SETTING UP ACROBAT READER
Turn the layer tab ON (1.) Select layer settings (2.) and pick List layers for Visible Pages (3.)

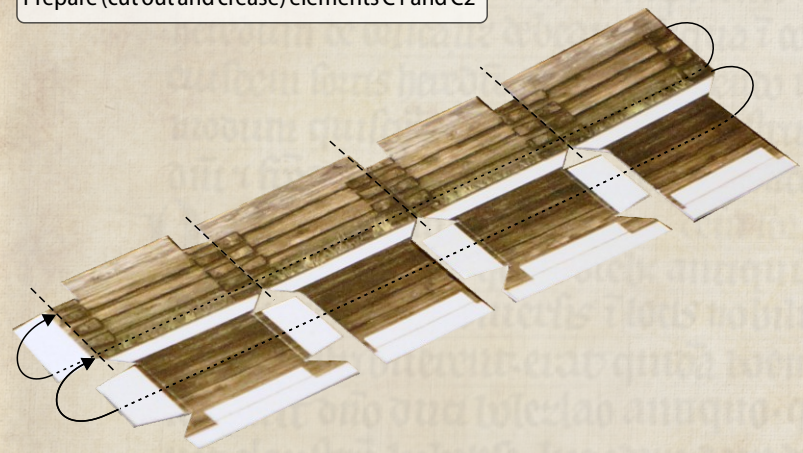
HOW TO USE THIS SET

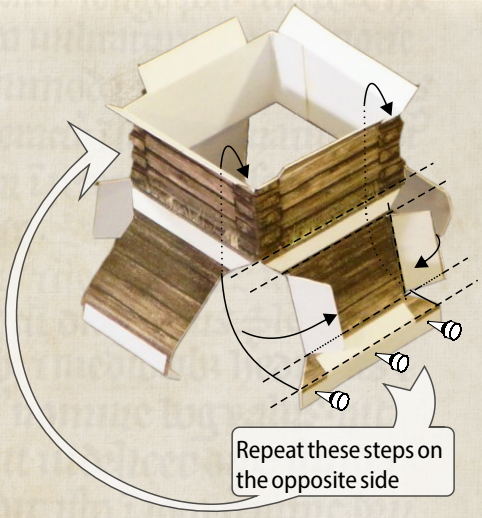
- Use PDF reader that supports layer display (e.g. Adobe Reader). Browse through the model pages and use the layer tab to check out options for particular models.
- Print only the page with model parts as you set the layers to desired configuration.
- Use A4 or US letter size paper of grammage 90-180 g/m2 (c.a. 40-90lbs) and turn off any scaling or„fit to page" options in printer settings
- Use sharp hobby knife, snap-off blade or scissors to cut out elements. As all elements are fairly big you can cut out all you need at once as it will streamline the assembly.
- Crease and pre fold all elements before gluing them together. An empty ballpoint pen will be a good tool for creasing. (It may be easier to crease the elements before you cut them out)
- Use glue you are proficient with. Clear drying PVA glue is recommended.
- For some elements superglue may be useful.
-
- Good luck and have fun assembling your village well.

Village Well

CRIBWORK

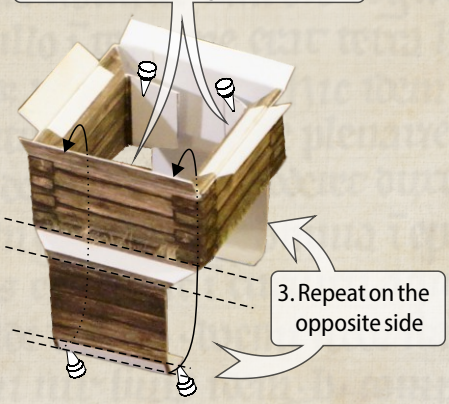
Prepare (cut out and crease) elements C1 and C2





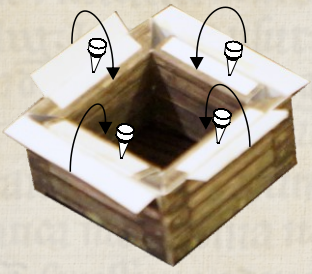
Repeat these steps on the opposite side

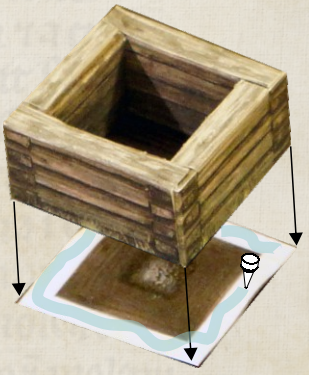
1. Apply glue on tabs on both sides before proceeding



2. Fold and glue cribwork inner face.

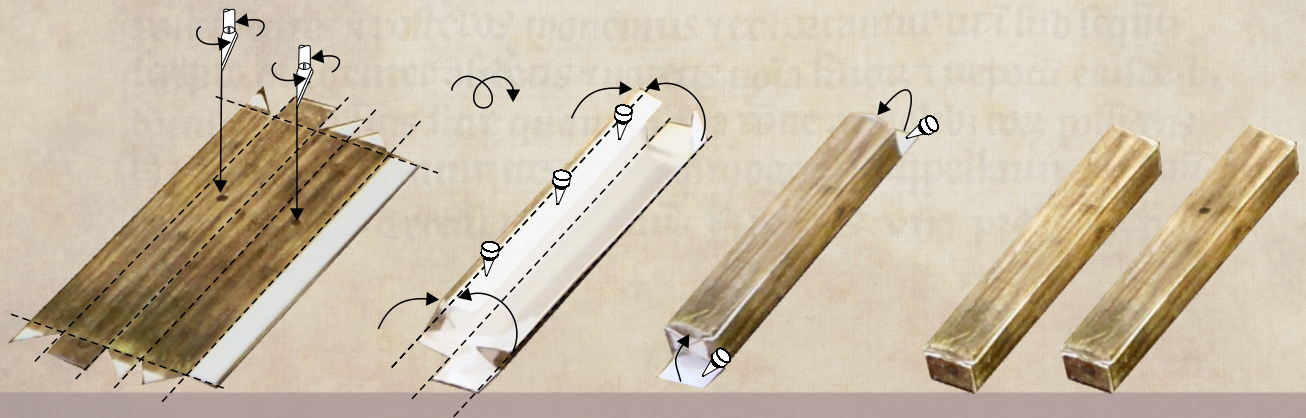
3. Repeat on the opposite side





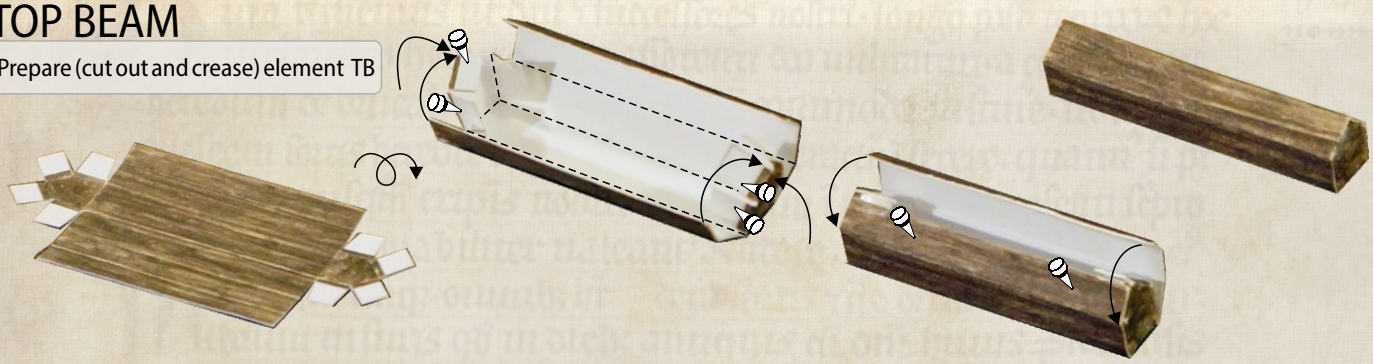
POSTS

Prepare (cut out and crease) elements P1 and P2
Drill/ cut out a hole in post P1 and two holes in post P2in places marked with black spots.



TOP BEAM

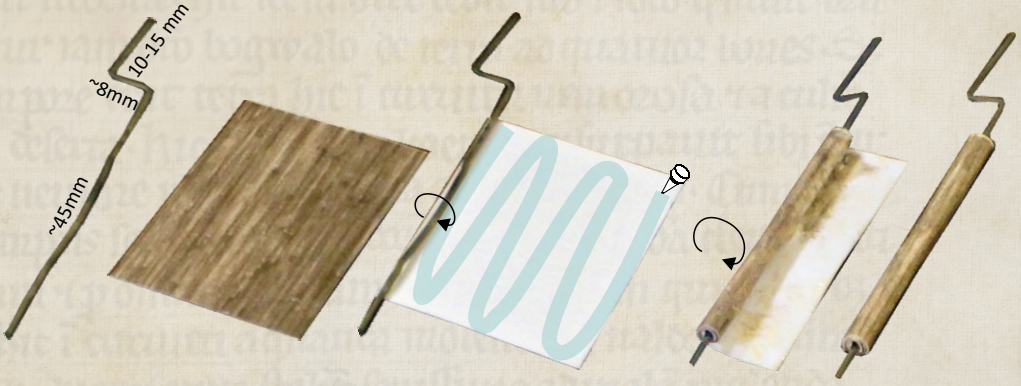
Prepare (cut out and crease) element TB



CRANK and WINDLASS BEAM

1. Use pliers and a piece of wire (or a paperclip) to make a crank of dimensions given below. You can also use pattern on the parts sheet.
2. Cut out element WB.

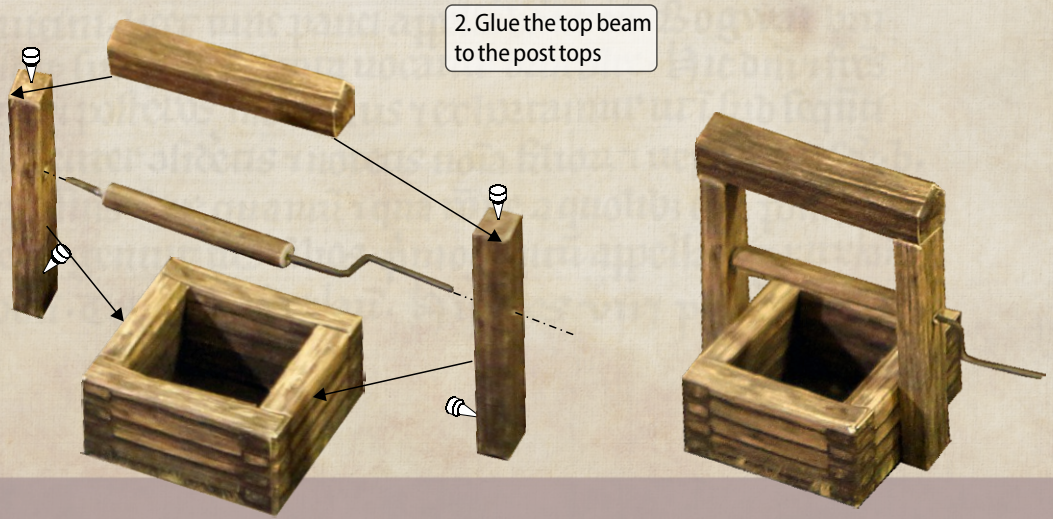
Tip:
To make your crank look more like old iron, you can anneal (heat up) the wire over a flame (e.g. a candle or a lighter).
Be careful not to burn yourself. Hold the wire with pliers, and let it cool before working on it further.
Annealing will make the wire look more dark and worn, and also much softer to work with.



PUTTING TOGETHER THE BODY OF THE WELL

1. Pass the crank through the holes in POST P2 and glue the posts to the side of the cribwork inserting the end of the crank into the hole in the post P1.

2. Glue the top beam to the post tops



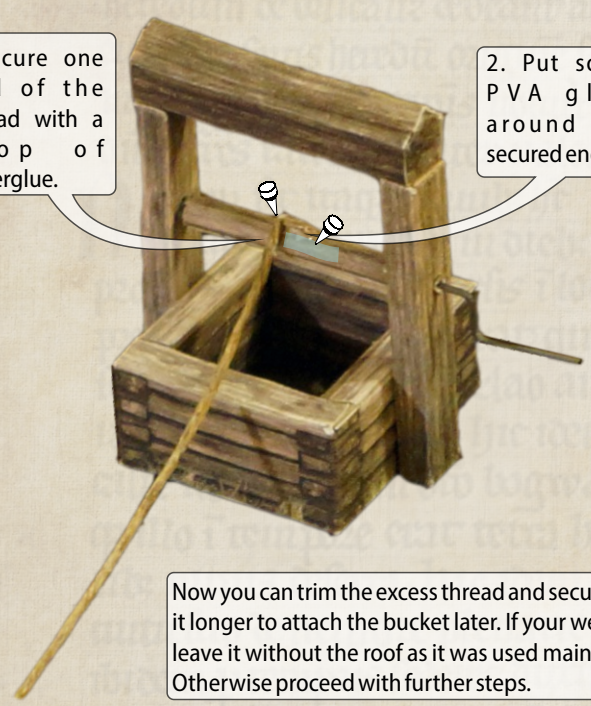
Village Well

ATTACHING THE ROPE

Use ca. 15cm/ 6''long piece of linen or cotton thread to make a rope.

1.Secure one end of the thread with a drop of superglue.

2. Put some PVA glue around the secured end.



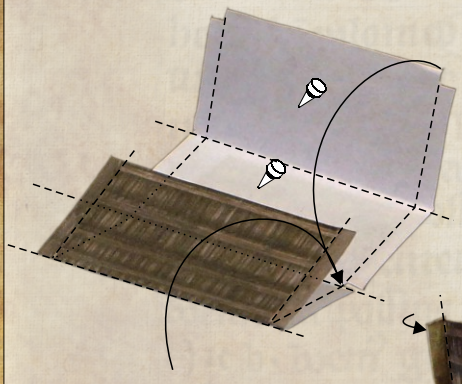
3. Rotate the cranck to make several coils covering the glue. Pull the thread lightly to make tighter coils.



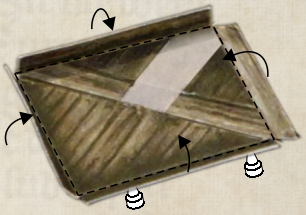
Now you can trim the excess thread and secure it inside the well with superglue to simulate bucket inside the well, or leave it longer to attach the bucket later. If your well is to be used in dry and deforested area (such as desert or steppe) you can leave it without the roof as it was used mainly to protect the well from falling leaves, twigs etc. and users in case of rain. Otherwise proceed with further steps.

THE ROOF AND GABLES

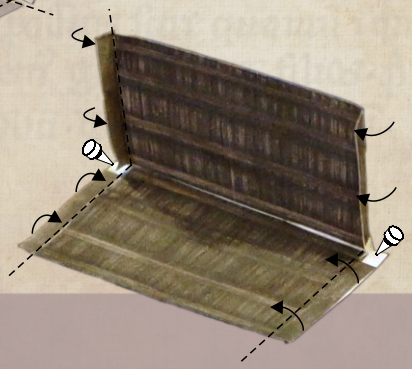
1. Prepare (cut out and crease) elements R and GB



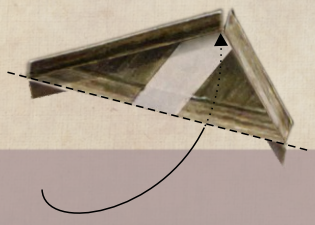
2. Apply a thin even coat of glue on unprinted side of element R and fold it flat, by folding the wings inside.



4. Fold the tabs to straight angle. Apply glue on the remaining area on the unprinted side. Then fold the gables flat.



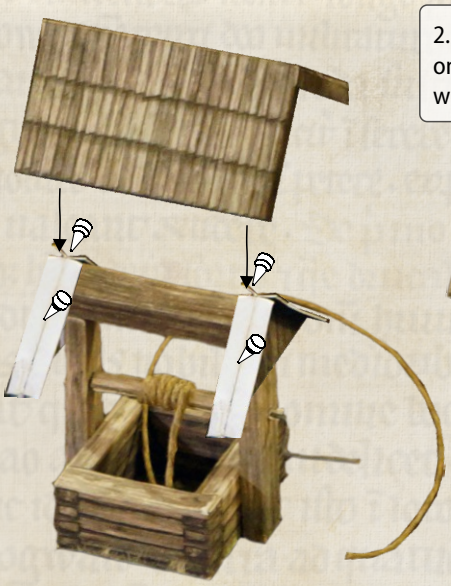
3. Fold the roof to straight angle, and then fold the ending planks and glue them together at top of the roof.



MOUNTING THE ROOF

1. Glue the gables to the sides of the posts and top beam





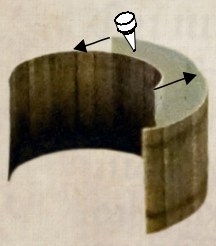
2. Glue the roof to the tabs on the gables. Trim the tabs with scissors if necessary

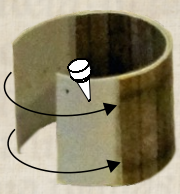


Unless you wish to attach the bucket, your well is ready!

THE BUCKET

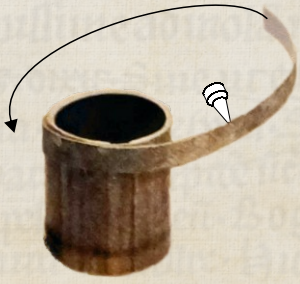
1. Cut out all bucket elements B1 to B5.
2. Curve B1 and B2 elements by wrapping them around something thin (chopsticks or thin pen or brush should do). Glue elements B1 and B2 together as shown below





Tip: Trim the inside or the outside of the bucket body according to the need to get a seamless joint on the inside and on the outside. Be careful not to trim too much!

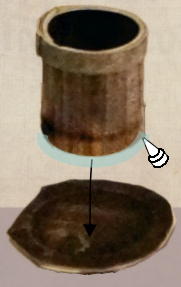
2. Reinforce the upper edge with tape (B5)



3. Glue together both elements of bucket bottom.



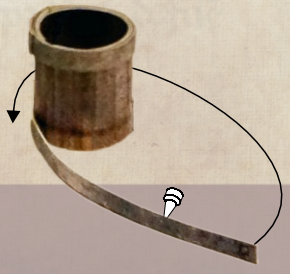
4. Apply glue on the edge of the bucket and glue it to the bottom. The darker side of the bottom should be inside the bucket.



5. Trim the excess of bottom element with knife or scissors.



6. Reinforce the lower edge of the bucket with tape B5. Use it to cover the edge of bottom element.

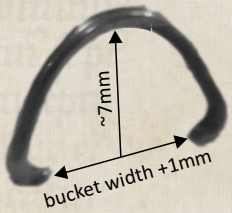


THE BUCKET continued

7. Use a staple or needle to pierce holes just beneath the upper tape.



8. Prepare the bucket handle. Prepare ~2-2,5cm (4/5 to 1") piece of wire (e.g. a piece of paperclip) and use pliers to bend it to shape similar to the one to the left. You can anneal it over a flame to make it darker and softer to work with. (Again be careful not to burn yourself. Hold the wire with pliers while heating and until it's cool.)



9. Use pliers to push the handle ends into the holes. Expand the holes with a toothpick if necessary.



Alternative:
Instead of using wire you can make a rope handle simply by pushing a thread through the holes in the bucket sides, securing it with knots on both sides and cutting off the excess thread.



10. Tie the bucket to the thread on the windlass, cut off the excess thread.

11. Enjoy your new village well. Well done!

MINI LAB MODELS

Cut along black lines or borders

Score and fold along dashed or bright lines

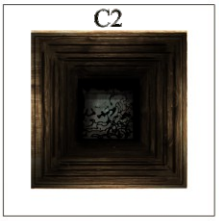
Cut off separate elements

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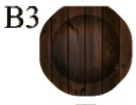
You can use this pattern to approximate cranck size



















Feed this end into machine cutter