# How to Make a Poseable One of a Kind Art Doll

By: Megen Nelson



Figure 1: Poseable doll made by the author

### Introduction

Making dolls has been practiced all over the world for hundreds of different reasons. Some dolls are made to entertain children, others to help young girls learn how to care for babies. Some are thought to be totems for fertility and wards for ghosts. Whatever the reason, humans have loved dolls for as long as civilization has existed.

These days making dolls has become an art form as well, with literally hundreds of different methods and techniques. Dolls can change from artist to artist, and so can technique, material, and design. There is no wrong way to make a doll. Experimentation is encouraged!

Poseable dolls can be made with ball-and-joint cores, wireframe, or simple moveable limbs. These instructions provide the process of making one certain type of doll, a *Poseable Wireframe Core Clay Headed Doll*. The instructions will be split into these sections:

- 1. Gathering Reference and Inspiration
- 2. Planning Your Doll
- 3. Creating the Wireframe Base
- 4. Sculpting the Head and Feet
- 5. Adding Foam
- 6. Furring and Stuffing
- 7. Finishing

These instructions are intended for beginners who have never made a doll before, and also for experienced doll makers who may be interested in a different technique. There is room in these instructions for the reader to make a different type of doll, using the same basic materials but with a different design. This is a technique, not a hard set of rules, but they can be treated both ways.

Each section includes steps relevant to the section, and may also mention alternate methods of the process. A Troubleshooting section has been provided for common issues.

#### NOTE!

Making an art doll is very time intensive and can get expensive, so do not expect to be finished within a few hours. Rushing the process will only lead to frustration.

### **Materials**

All of the items mentioned in this section can be found in most craft stores or online. Remember, with art supplies, cheaper is not often better. Always research the quality of the items you are thinking to buy.

### **Recommended Materials**

### Notes

<ul> <li>2 rolls of Armature and Sculpture Wire.</li> <li>1 roll of 10 ft 12 gauge (thicker wire).</li> <li>1 roll of 10 ft 14 gauge (thinner wire).</li> </ul>	Wire is measured in gauges. The thinner the wire, the larger the gauge. 12 gauge wire is strong enough to support most dolls' weight, while the 14 gauge will be used to reinforce the wire to prevent breakage.
Cheap pad of paper and colored pencils	Paper can be any kind, but paper size must be large enough to fit the full size of your project.  This will be used to make cloth patterns and design your project.
SuperSculpey Polymer Clay	SuperSculpey is easy to work with, high quality, makes very fine details, cures in the oven, and can be found in most craft stores.
Clay Tools	A cheap bargain pack of either clay or woodworking tools will work.
<ul> <li>½ yard of either:</li> <li>1 Inch Thick Upholstery Foam         OR</li> <li>½ Inch Thick Upholstery Foam</li> </ul>	This can be found in many fabric stores. Either size will work, though the thicker the foam, the less stuffing you need.
Needle and Thread	Preferably a strong thick needle and heavy-duty thread matching the color of your chosen fur.
1 or 2 Yards of Faux Fur	Choose the fur based on your preference and quality. Choose how many yards by deciding on the size of your finished project. Most craft stores do not carry high quality furs, but many dealers can be found online.
Acrylic Paint and Small Brushes	For painting the clay parts.
Hot Glue Gun	For attaching the head and feet, and for some seam-work.
Masking Tape	Any type.
Stuffing	For filling out the doll.
Scissors and Shaving Clippers	For cutting paper and fabric, and for trimming the fur.
Pliers	For bending the Armature Wire.
Aluminum Foil	For making the core of the clay head.
Tracing Paper	For making the cloth pattern.
Light and/or Dark Colored Chalk	For drawing out patterns on faux fur.
Black Marker	For drawing out patterns on cloth.
Sewing Pins	For pinning cloth together.
Cheap Felt	For the prototype of the Fur body

# Tools

Prep and Finishing



Figure 2

Clay Materials



Figure 3

Filling and Furring



# **Gathering Reference and Inspiration**

These are perhaps the most important steps in the process, and that is why they are not included in the "Planning Your Doll" section. Without reference, you could get stuck, and end up giving up on your doll. Having an idea of what you would like your doll to look like can make all the difference in the final design and your desire to finish what you started.

These instructions feature a fairytale type doll, with a fox head, antlers and clawed feet, but you can make it a cat, or remove the antlers, or even make it bipedal. That will all depend upon the reference you choose.

#### **Materials Needed:**

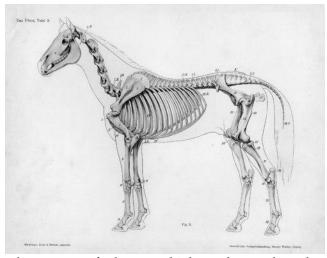
None but the internet.

Steps Notes

<ol> <li>Look at other dolls or animals for inspiration and ideas.</li> </ol>	Good places to look for inspiration are art websites, such as DeviantArt, Etsy, or even Google.
See <b>Fig. 5</b> for examples of types of four- legged wireframe poseable clay- headed dolls available.	Tip on Searching Keywords: Searching terms like "OOAK art doll," "Poseable art doll," or simply "art doll" will bring up hundreds of results similar to the doll being made here.
2. With your design in mind, research the anatomical structures of the creature you want your doll to resemble, such as the skeletal and muscle structure.	Looking at the anatomical structure of the bones of a canine was instrumental to the creation of the finished doll in these instructions.
See <b>Fig.6</b> for example.	Even if the doll you want to make is exaggerated or fantastical, knowing how bone and muscles work will make your doll more stable and better designed.
3. Gather the reference material and save it together in an easy to find folder. You will be using it a lot.	The doll in these instructions relied heavily on reference images of fennec foxes, deer antlers, and canine anatomical diagrams.



**Figure 5:** Different Types of 4 legged Poseable Art Dolls **Sources:** Left (c) Woodsplitter Lee on DeviantArt, Right (c) Hikigane on DeviantArt



**Figure 6:** The skeletal structure of a horse, which can be used to plan the wireframe of a horse-like doll.

Source: Animal Anatomy for Artists by W. Ellenburger, H. Dittrich, and H. Baum

# **Planning Your Doll**

Now that you've got all of your reference gathered, it's time to start planning your doll! Here is where all of your research comes together.

#### **Materials Needed:**

The references you gathered in the previous section.

Paper and Colored Pencils

Steps Notes

- 1. Decide on the basic size you want your doll to be. The bigger it is, the easier it will be to make.
- 2. Draw out a silhouette of your doll using paper and pencil at the exact size you decided on. Omit the fur for now, and focus on the underlying muscle structure.

The doll made in these instructions is about 5 inches tall and 12 inches long. The size does not have to be exact. The process is rather organic.

You should have something like this:

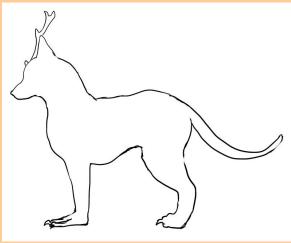


Figure 7

#### TIP!

Notice that this silhouette looks a bit like the one around the bone structure of the horse in **Fig. 6.** You can even trace the silhouette.

3. Draw out the wireframe structure and the proportions of your doll. Include the clay parts and separate them by color.

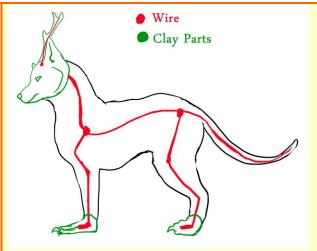
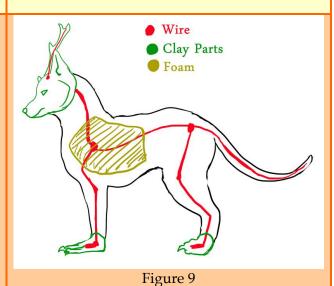


Figure 8
It's helpful to use different colors, that way you can tell at a glance what's what.

Rely on your anatomical references to help design the wireframe. The wireframe is like a very simplified skeletal structure for your doll.

4. Draw out where you will place the foam. The chest area needs the most filling out.



Adding the foam makes the chest area thicker and firmer.

# Creating the Wireframe Base

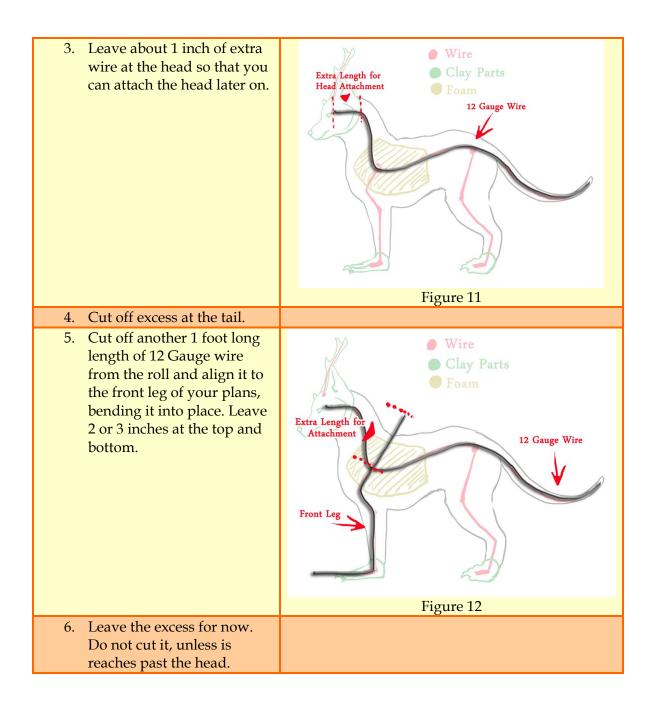
With your doll planned out and ready to go, it's time to get started! This section will cover the creation of the wireframe base of your doll.

#### **Materials Needed:**

Your plans from the previous section 14 and 12 gauge Armature and Sculpture wire Pliers Masking tape

Steps Notes

Take the roll of 12 Gauge 1. **WARNING!** The wire is sharp when cut, and can hurt you. Armature and Sculpture wire and cut off a length of about 2 feet. 2. Take your freshly cut 2 foot Wire 12 gauge wire and align it Clay Parts along the "spine" of the doll in your plans, bending it 12 Gauge Wire into place. Figure 10



7. Cut off another 1 foot long length of 12 gauge wire and align it to the back leg of your doll, bending it into place. Leave 2 or 3 inches at the top. Use pliers if needbe.

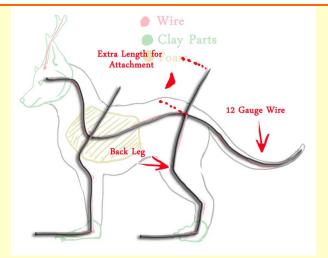


Figure 13

8. Bend the front leg wire **over** the spine, allowing about 1 inch of extra space between the leg and the spine to allow for the chest. Use pliers if need-be.

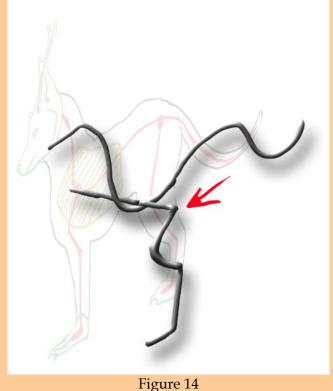
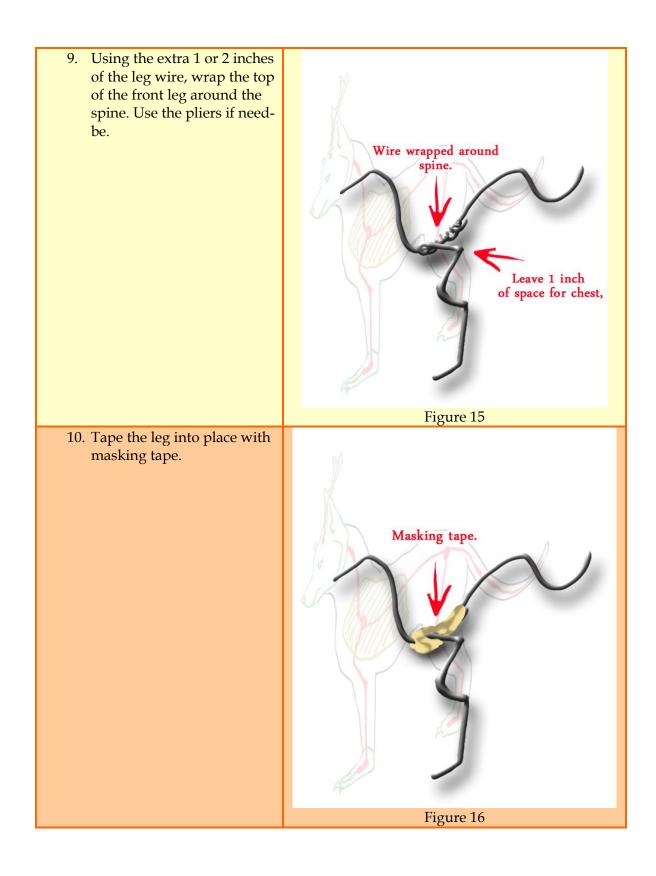


Figure 14
This allows room for the chest.



11. Now for the back leg. Bend the **back** leg wire **over** the spine, allowing about 1 inch of extra space.

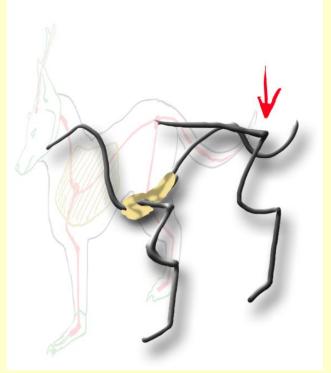


Figure 17

12. Using the extra 1 or 2 inches of the leg wire, wrap the top of the back leg around the spine. Use the pliers if needbe.



13

13. Tape the leg into place with masking tape.

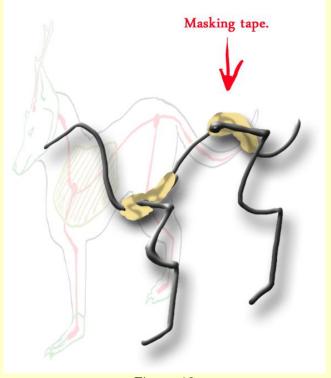


Figure 19

14. Repeat the process for the second **front** and **back** legs.

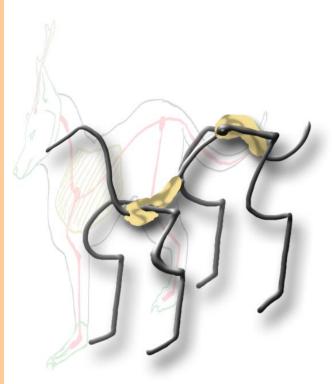


Figure 20 CHECK!

When finished attaching the legs, you should have something like this.

15. Now use the 14 gauge Armature wire and begin to reinforce the skeleton by wrapping the thinner wire around the thicker wire. Make sure the entire skeleton is covered. Figure 21 CHECK! Wrap the skeleton securely and thoroughly. You can't use too much wire in reinforcing. 16. When the neck can support at least 2 pounds of weight, and the skeleton can easily stand on its own, your wire

framework is finished.

# Sculpting the Head and Feet

This section covers the very basics of sculpting with SuperSculpey clay. This is an enormous subject in and of itself, and further research into the craft can only be beneficial. This is just a general summary of the sculpting process.

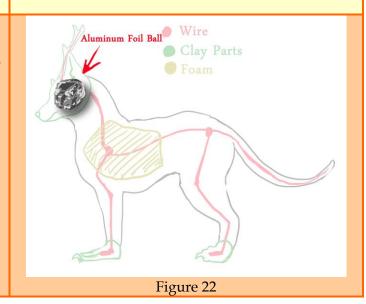
There are hundreds of ways to sculpt a subject, just as there are hundreds of ways to draw a picture. Keep in mind that this is only one technique.

#### **Materials Needed:**

Your plans from the previous section
The references you gathered in the first section
A Box of SuperSculpey Clay
Clay or Woodworking Tools
14 gauge Armature Wire
Aluminum Foil
Hot Glue Gun

Steps Notes

- Take a 6 inch wide length of aluminum foil from the roll and crush it into a ball. This will be the core of the clay head of your doll.
- 2. Set the ball on the dolls head on your plans. The ball must be big enough to fit in the "brain" area. If it is too small, add more foil. If it's too big, tear some away.



3. Once you have the right size, begin covering the aluminum ball with a ¼ inch layer of SuperSculpey. This provides the base for the clay head.

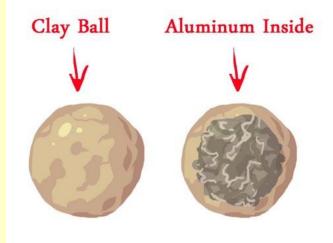


Figure 23
When no aluminum foil can be seen, you are finished. Try to make the layer as even as possible.

4. Using your references as guides, begin layering on lumps of clay, denoting the underlying muscle structure. It does not have to be perfect. DO NOT BEGIN DETAILING.

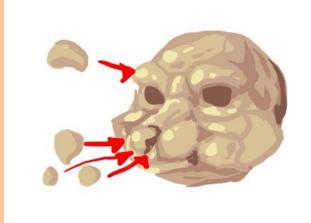


Figure 24
This process is like the "rough sketch." Features can be moved and shifted around in this stage. Do not be afraid of making mistakes, because you can fix them. Use the clay tools and your fingers to help smooth down the lumps.

**RELY ON REFERENCES HEAVILY!** 

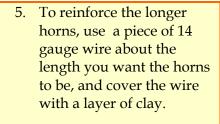




Figure 25

#### NOTE ABOUT "FRAGILE" PIECES

SuperSculpey is strong, but it is not the strongest polymer clay when it comes to small protruding pieces. Mixing SuperSculpey with Kato polyclay, a stronger brand, will strengthen these smaller parts.

But this is not required.

6. Leave a ½ inch length of the wire at the bottom of the horn so that you can attach it to the head.



Figure 26

7. When the head looks even on all sides (front, back, both left and right sides, and below) you can begin detailing. Use a toothpick or the needle clay tool to make the texture of fur, using your reference as a guide.



Figure 27

When detailing fur, look closely at your references to see how the hairs lay on the face of the animal you are creating. Try to follow those patterns as you texture the clay.

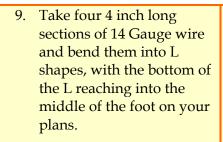
#### NOTE ABOUT FINGERS AND PRESSURE

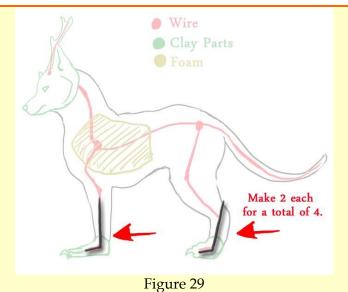
SuperSculpey can hold its shape very well as long as you keep light pressure on your fingers. Setting the head down will not hurt it. If some of the details get lost as you hold the head, it's very easy to redo them.

8. When you are finished texturing the head, set it aside in a cool, dark place and begin the feet.



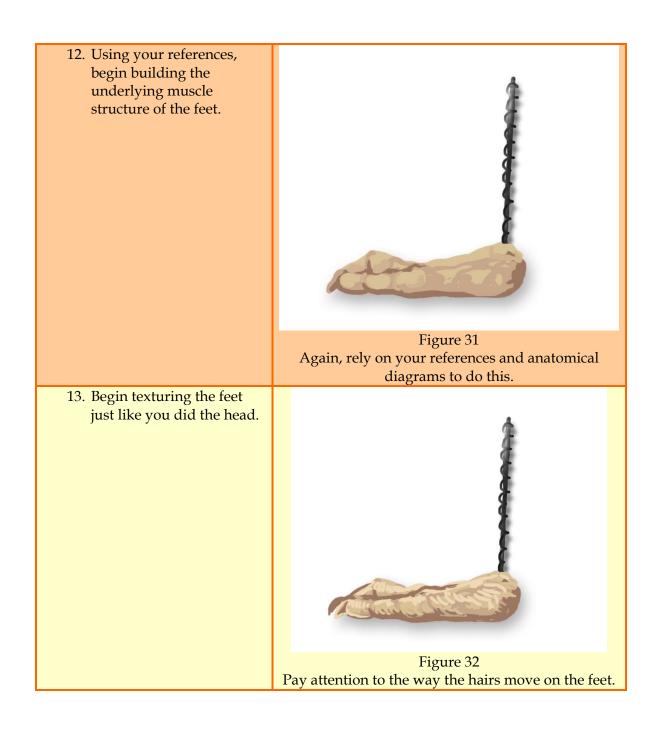
Figure 28

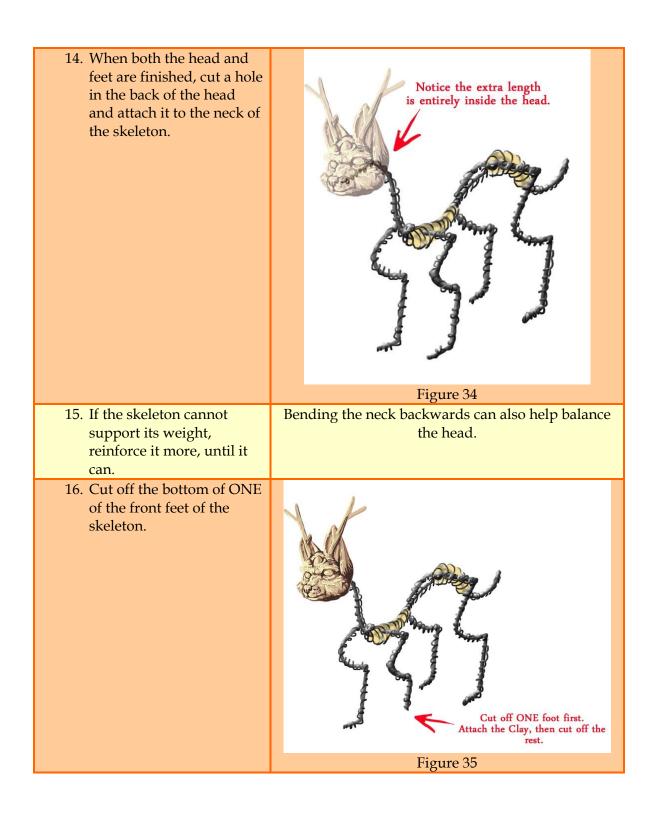


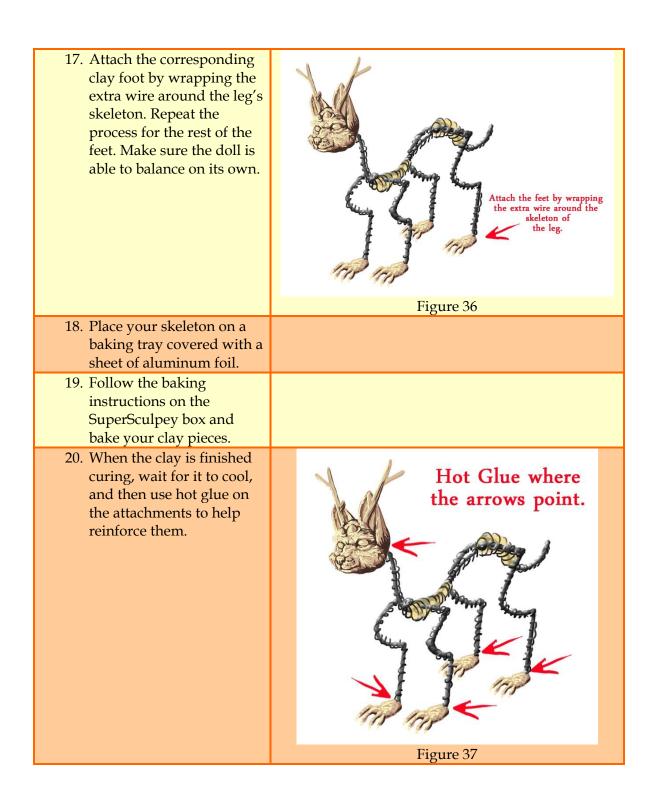


- 10. Reinforce this wire just like you reinforced the skeleton.
- 11. Begin layering the clay on the bottom line of the L shape to make a base for your clay to stick to. Leave at least 2 inches of free wire above the foot.









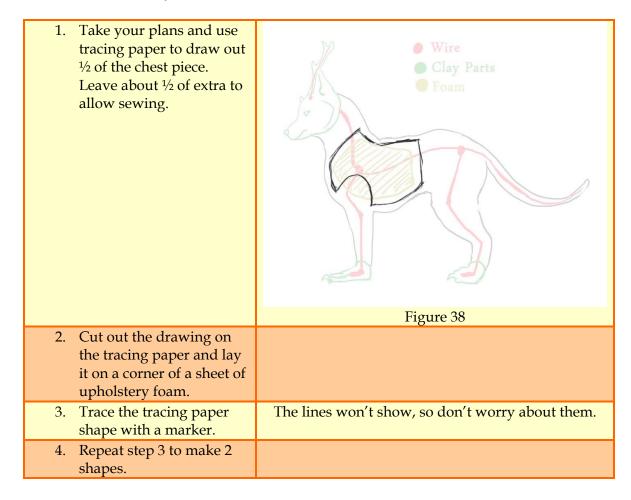
# **Adding Foam**

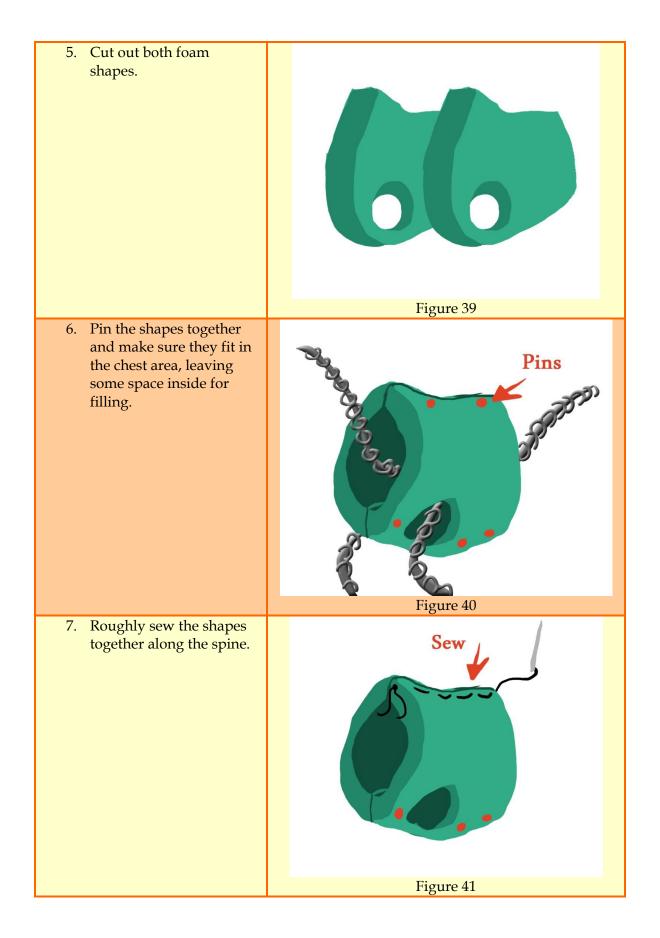
This section covers adding foam parts to your doll. Adding foam helps the doll keep its shape and firmness. Dolls can also be made without foam parts. Experiment with the results and see which you like better.

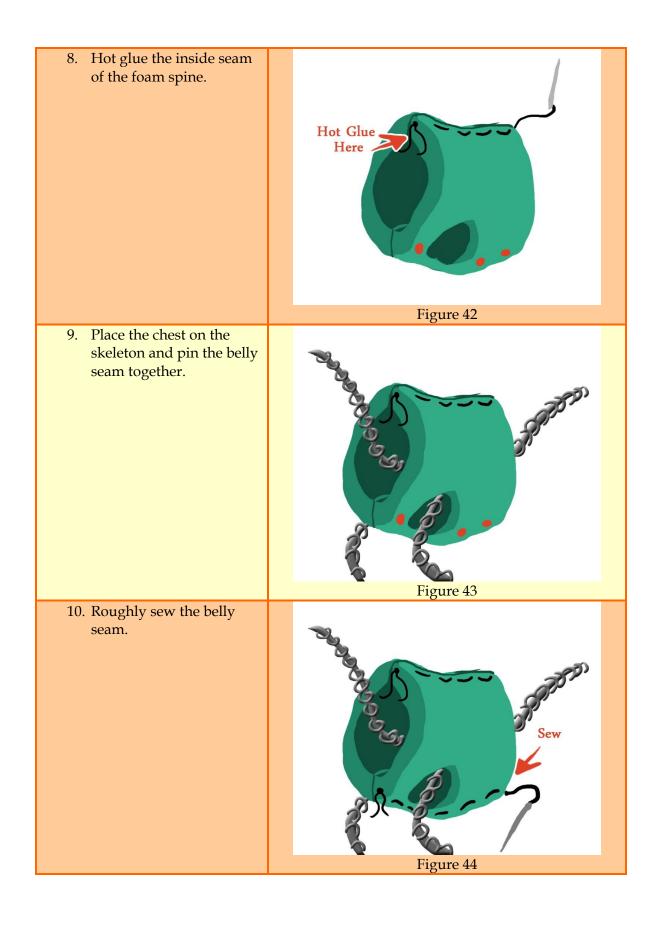
#### **Materials Needed:**

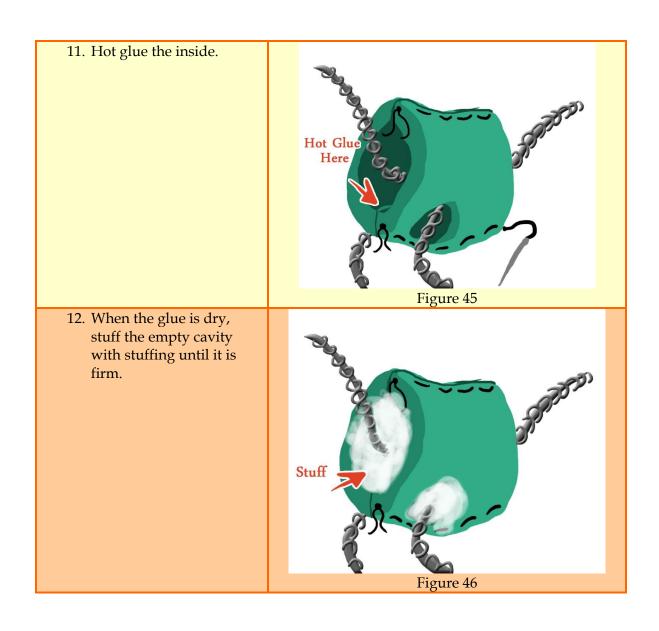
Your plans
Needle and Thread
Upholstery Foam
Hot Glue Gun
Tracing Paper
Black Marker
Sewing Pins.
Scissors
Stuffing

Steps Notes









# **Furring and Stuffing**

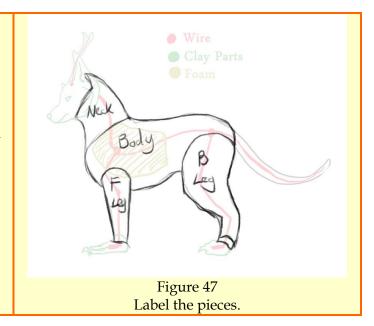
This section is a very brief overview of making an original sewing pattern and stuffing your doll. This subject, just like all the others in the creation of a doll, is enormous. Further research into the craft is encouraged.

#### **Materials Needed:**

Your plans
Needle and Thread
Faux Fur
Hot Glue Gun
Tracing Paper
Black Marker
Sewing Pins.
Scissors
Stuffing
Cheap paper
Cheap Felt
Chalk (light and/or dark)

Steps Notes

1. Take your plans and use tracing paper to draw out the basic pattern of stitching on your doll. You should have 4 separate pieces: Neck, Body, Front Leg, and Back Leg. The tail will come later.



2. Draw out an estimate of Wire the cloth you will need to Clay Parts cover ½ of your doll, allowing for at least ½ inch of seam allowance. Figure 48 3. Trace your patterns onto a **Patterns** sheet or two of cheap paper. Figure 49 4. Modify the inside of the **Modified** legs account for the body.

	Figure 50
5. Create a connecting piece for the belly similar to Fig.	Belly  Figure 51
<ul> <li>6. You should have 13 separate pieces drawn out.</li> <li>2 pieces for the neck.</li> <li>2 pieces for the body.</li> <li>2 for the right front leg.</li> <li>2 for the left front leg.</li> <li>2 for the back right leg.</li> <li>2 for the left back leg.</li> <li>1 for the belly</li> </ul>	13 Pieces  Body  B
7. Cut out all 13 of your paper pieces.	116010 02

8. Pin all of the pieces	Din Dance Tagether
together and adjust where needed.	Pin Paper Together
needed.	
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
	Figure 53
	This is a hit and miss process. Draw and redraw
O IA/In our tile our reserve to the City	until you've got something that works.
9. When the paper patterns fit together, trace them all out	
onto some cheap felt.	
10. Cut out each of the patterns	
just like you cut them from	
the paper.  11. Pin the felt together around	
the skeleton, making sure	Pin Felt Together
everything fits.	
	\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
	\
12. Take the felt off the	Figure 54
skeleton and adjust where	
needed.	
13. Begin sewing the felt	ALTERNATE METHOD
together with needle and	If you have a sewing machine, you can use that. It

thread.	will cut down on time.
14. Stuff the felt to make sure the body looks like you want it to.	
15. Adjust the patterns where needed.	
16. When you are satisfied with the paper and felt pattern, it is time to move on to the faux fur.	
17. REMEMBER! when you trace your patterns onto the faux fur, you have to mirror them.	Mirror the Pieces  Body  Figure 55
	That way the fur will always be on the outside.
18. Trace all 12 pieces onto the reverse side of the faux fur you bought using light colored chalk for dark colors, and dark colored chalk for light colors.	Try to use as little of the faux fur if you can, to save for future projects.
19. Pin the neck pieces to the body pieces.	

20. Turn the fur inside out so that the fur is inside.	Figure 56
<ul> <li>21. Sew along the spine and attach the neck halfway.</li> <li>22. Pin all four legs together.</li> <li>23. Pin them to the body.</li> <li>24. Sew the legs to the BODY.</li> <li>25. Carefully turn the patterns fur-side out.</li> </ul>	
<ul><li>26. Carefully put the furred pattern onto the skeleton.</li><li>27. Use a ladder stitch to sew the chest and legs together.</li></ul>	Ladder Stitch  What is a second secon
<ul><li>28. Begin filling the doll with stuffing at the neck and belly until it is firm.</li><li>29. Sew up the remainder of the doll.</li><li>30. Hot glue the fur to the clay</li></ul>	Poke the stuffing down into the legs to fill them out.

parts.	
31. Cut out a 1 wide long strip	
of faux fur that matches the	
length of the tail.	
32. Wrap this strip to the tail	WARNING!
and hot glue it into place.	Avoid getting hot glue on the fur, as this will make
	it stiff.

# **Finishing**

Applaud yourself for getting this far! You're nearly there! Now you just have to add the finishing touches.

This section will describe the finishing of the doll, giving it those last touch ups that make it look its best.

#### **Materials Needed:**

References
Paint
Paint brushes
Clippers
Scissors

Steps Notes

1.	Choose a paint and paint the clay pieces, denoting the eyes, nose, etc. Use your references if you need them.	ALTERNATE METHOD!  If you have an airbrush, airbrushing details over the fur can help make the doll stand out even more.
2.	Use the clippers and scissors to trim down some of the fur, especially on the legs. This will give the doll a more finished appearance.	
3.	Pose the doll, and you're finished!	

# **Troubleshooting**

### "My clay burned!"

Don't panic! As long as your clay isn't a black smoldering coal, everything is okay. Burning is expected on the thinner pieces of clay.

### "I got hot glue in the faux fur!"

Cut it out as best you can without leaving a hole in the fur.

### "My wire snapped while I was working with it."

Don't worry, you can reattach it using extra wire and masking tape.

### "A clay piece broke after it cured."

You can glue it back together and repaint it to hide the crack.

### "I crushed my soft head by mistake!"

Oops! Well, looks like you'll have to start over!

### "A seam ripped!"

Use a ladder stitch and close it as best you can.

### Sources

- 1. Poseable doll examples from **Fig. 5** by Woodsplitter Lee on Deviantart http://wood-splitter-lee.deviantart.com/
- 2. Poseable doll example from **Fig. 5** by Hikigane on Deviantart http://hikigane.deviantart.com/
- 3. Horse skeletal diagram in **Fig. 6** taken from the book "Animal Anatomy for Artists" by W. Ellenberger, H Dittrich, and H. Baum, Edited by Lewis S. Brown. Published by Dover, ISBN: 0-486-2008 2-5

All other illustrations and artwork done by the author.