Laser Cutting on Textiles
Laser cut wood - flexible in two directions, like fabric
Engineered print:
Controlled placement of design within the object
Early iterations for Lilypad Arduino
Copper fabric can be soldered onto if it’s not too hot.
Copper fabric can be soldered onto if it's not too hot.
Fusible webbing
Laser Cutting on Fabric (Applique)

Make sure fabric is flat
Apply fusible webbing to the back of fabric. Make sure the webbing is smaller than fabric piece.
Trim excess fabric and tape down to a piece of chipboard or thin plywood
OR! Apply thin layer of spray adhesive to back and mount on board.
Set into machine + enter into the right settings
Set into machine + enter into the right settings
Out-dated Laser Cutting Settings (for Rabbit Laser Cutters)

But these are close and might be a place to start....

<table>
<thead>
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<th>Material</th>
<th>Content</th>
<th>Speed</th>
<th>Power</th>
<th>Result</th>
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Thoughts on Materials & Process

**Good**

- Felt or other thick nonwovens
- Tight weaves

**Eh**

- Loose weaves
- Thick knitted/knots
- Really intricate designs (for applique)

**BAD**

- No vinyl, metallic/reflective materials, neoprene
  any material containing chlorine
- Check with techs if you are unsure!!!!
Laser Cut Patch!

- Split into groups, at least one person must have been trained on the iDeAte laser cutting process
- Make your own design or download the Soft Fabrication Patch
Changing JPG to DXF file via Adobe Illustrator 6
Open image in Illustrator.
Use selection tool and click on image so a blue box appears around it
Use the top bar to find Image Trace Window (we want to custom set it, so don’t use the button at the top of work window)
- Make sure Preset is set to Custom.
- Set to black and white mode.
- Check Preview Box and Ignore White (under Advanced drop down menu).
- Adjust the threshold values depending on what you need. (You may not need super skinny lines for what you are cutting)
- Click the Trace button.
• Click “Expand” at the top of your work window to see the paths.
• Delete any unwanted paths using the direct selection tool or make any changes to curves with other tools.
• Expand/contract to necessary size (can be done in laser cutting program but wayyy less accurate)
Change stroke and fill colors so that you can see the outline of what you are going to cut.
Export as a DXF.
Make sure your export is “R13” and that the scale is 1 millimeter to 1 Unit.

Laser cut your file!!!!
CONVERTIO.CO

online, free

JPEG to DXF file converter