

The threads that connect us

Rekindling the lost connection between man and machine

by Toh Yixue

Textile production



Egyptian Coptic, Textile

1. the language of the Copts, which represents the final stage of ancient Egyptian

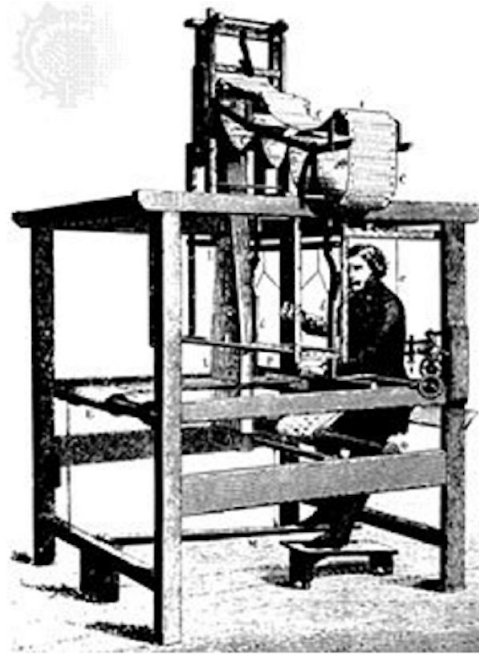


Persian ancient textiles

The development of the loom



Drawloom, engraving from Diderot's
Encyclopédie, 18th century.



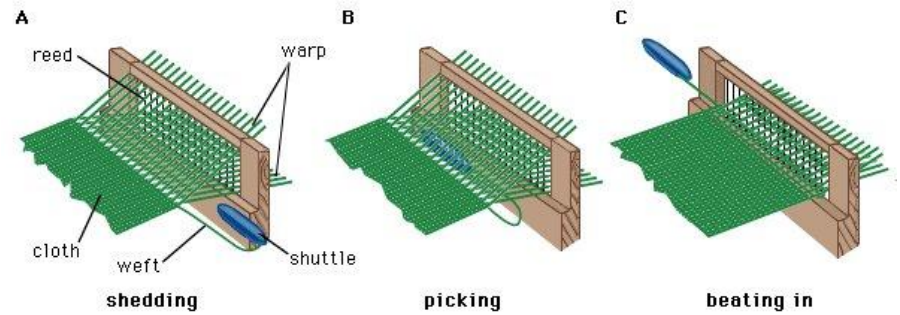
Jacquard loom, engraving, 1874
At the top of the machine is a stack of
punched cards that would be fed into the
loom to control the weaving pattern.



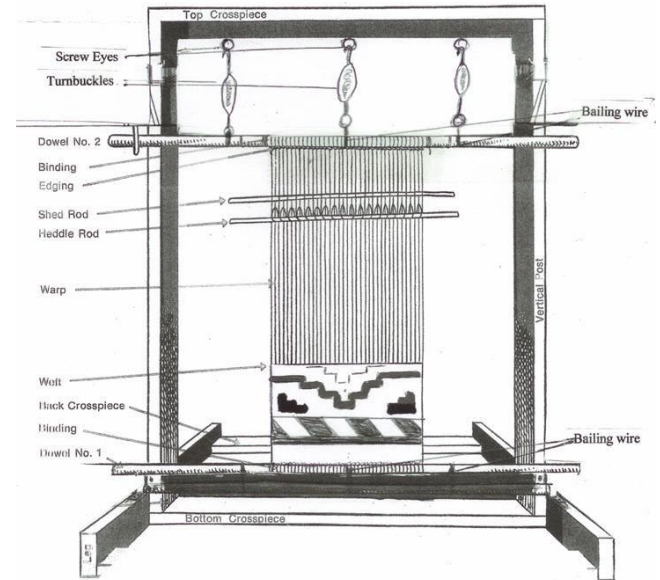
Why build a loom?



Back-strap loom



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two-bar vertical loom

Inspirations :

The Secret Life of Machines'
by Tim Hunkin



Goals

- Treadle loom
- Dobby mechanism
- Exhibit models of various loom mechanisms



Starting points



My first weave on my homemade loom

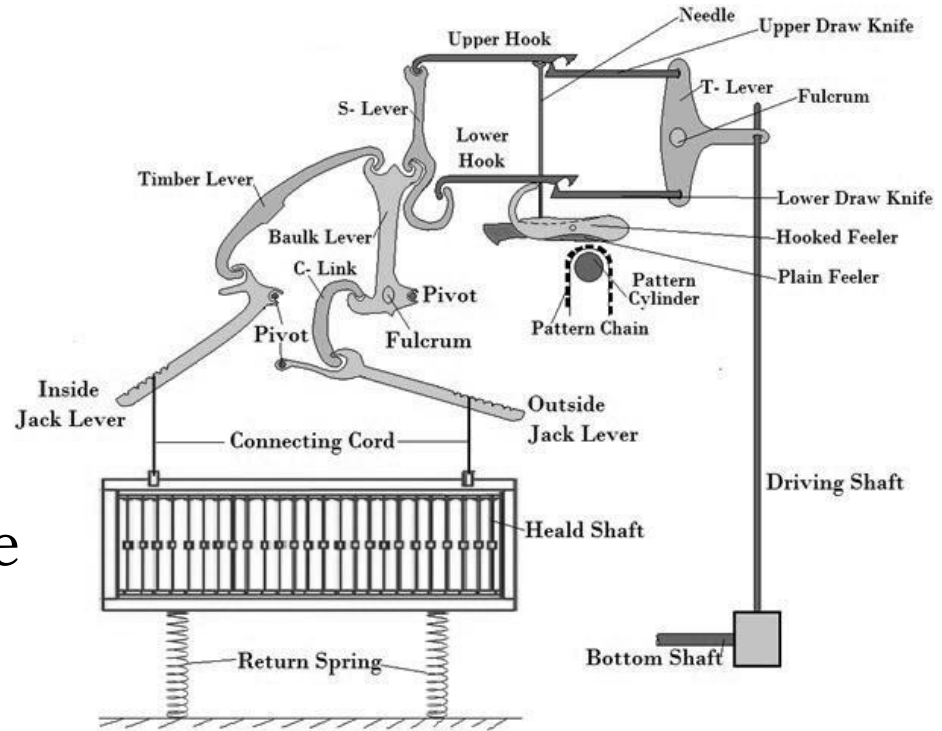


Louët Spring II Assembly

Incremental design & build

Main hurdles to overcome:

- main weaving mechanism with treadle support
- dobby mechanism (allows for longer and more complex pattern sequences)



Timeline proposal

Pre-semester:

- More thorough research on loom mechanics
- Seek out a working loom(locally) for inspiration
- Loom design drafts

First semester:

- A working (80%) treadle-based loom
- Concepts & designs for exhibition
- Design concepts for dobby mechanism with simple prototype

Second semester:

- Working treadle-based loom
- Realisation of dobby mechanism
- Educational models to depict parts of loom
- Weave samples

Thank you !