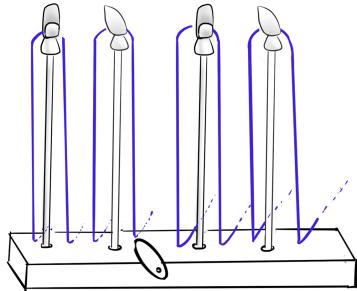
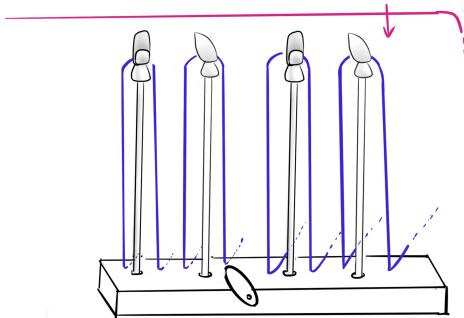


mechanism of the hand loom and a knitting software

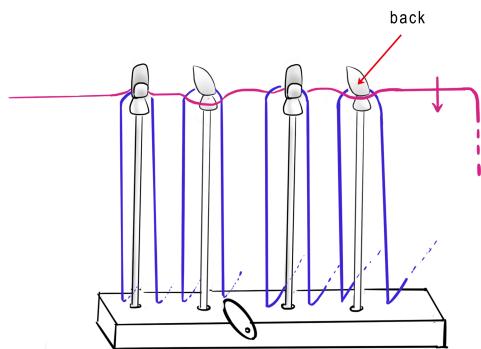
I watched the video carefully and finally found how the hand loom works. I drew an illustration to show the steps in detail. Due to the covid-19 outbreak in Shanghai, I can just stay in my dormitory so I can't find material to make a prototype. But I think it is not hard to make one if we decide to use the hand loom! I have added the video(X0.25) as an attachment to the email.



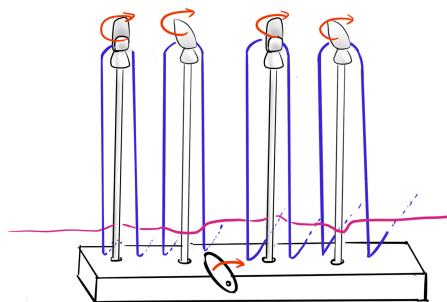
1.Put the yarn(purple) on the hand loom.



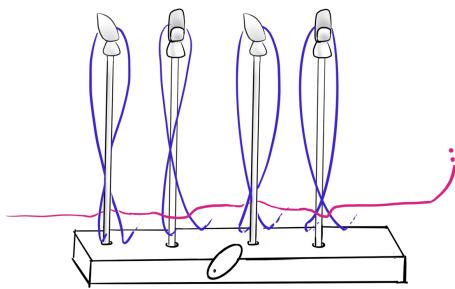
2.Pick one yarn for knitting(pink).



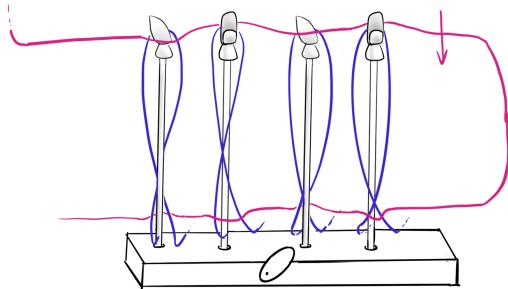
3.The rods on the hand loom have different orientations, which makes it easy for pink yarn to go through from the back of each rod.



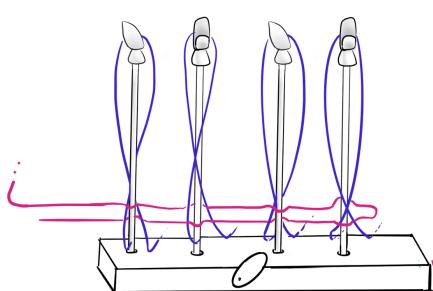
4.Pull the yarn to the bottom. After turning the knob below to the right, all the rods will rotate 180 degrees



5. The yarn hanging on the rod will twist



6. Pick another end of the pink yarn, do as step 3.



7. Repeate step 4.



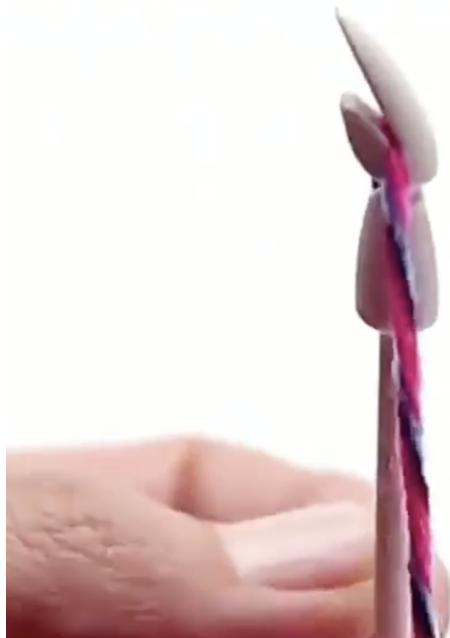
8. After finishing knitting, you can just pull the rods out.

[DIY creative hand loom \[Video\]](#) | Weaving loom projects, Loom knitting projects, Loom knitting patterns

Dec 1, 2021 - Brand Name: TGOW Origin: CN(Origin) Recommend Age: 12+y Warning: Keep away from fire Model Number: QQX00711 Certification: CCC Theme: Animals & Nature Scarf Knitting Device Wool DIY Creative Handmade Loom Yarn Tools Cap Socks Children's Educational Toys Woolen Braiding MachineFeature: Product name: wool knitting machin...

https://www.pinterest.dk/pin/AW58assz9AlvTkruJ_1eAltRIfkQUXu8d8gUnvCeY0tPdKCPlQPw-RSoFRzj9AvtiDRR9wj-Oeokw5PTXEf8oUk/

Below are the screenshots of the video. They correspond to the steps in the illustration. The illustration can be more clear on how the yarn is knitted.



step1



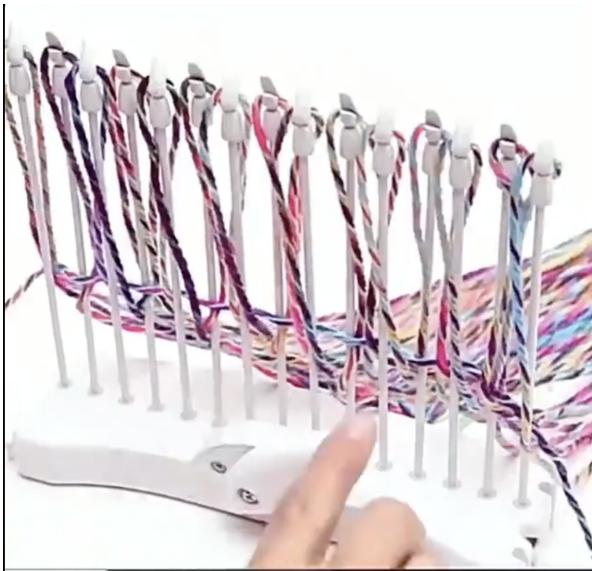
step2



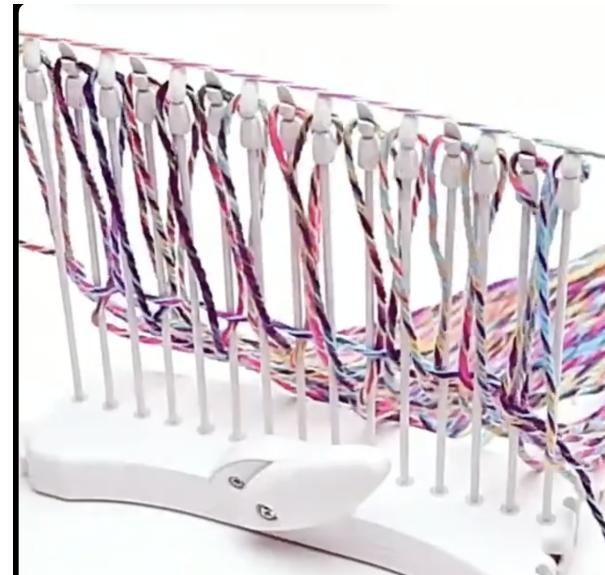
step3



step4



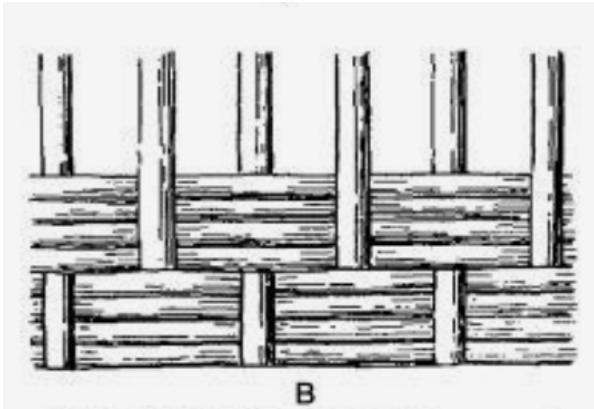
step4



step5 6

We can use multiple fibers and multiple hand looms to save time.





multiple fibers

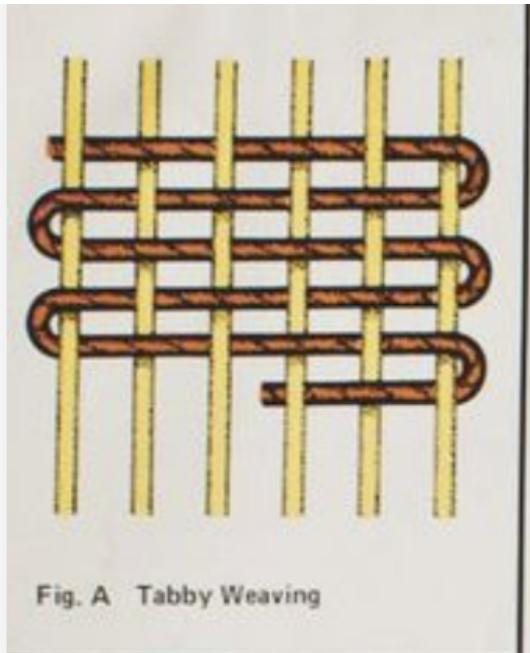


Fig. A Tabby Weaving

single fiber

an inspiration for our software

I tried hard to think about one to one mapping between LED indices and the xy-location on the uv-mapped texture. I searched for how to knit a specific pattern and found a software called EnvisioKnit that helps people to design a knitting pattern. This software may offer some inspiration to our software.

EnvisioKnit Design Studio Knitting Software

using clear, professional stitch symbols that visually represent the knitted fabric. EnvisioKnit's stitch symbols were designed to help you understand how your texture, lace and cable designs will look without reaching for your needles. You can easily customize all the stitch symbols to your preference. without having to redraw your design.

 <https://www.envisoknit.com/>

