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Digital Textile recycling

Digital fabrication for customizing your own tote bag

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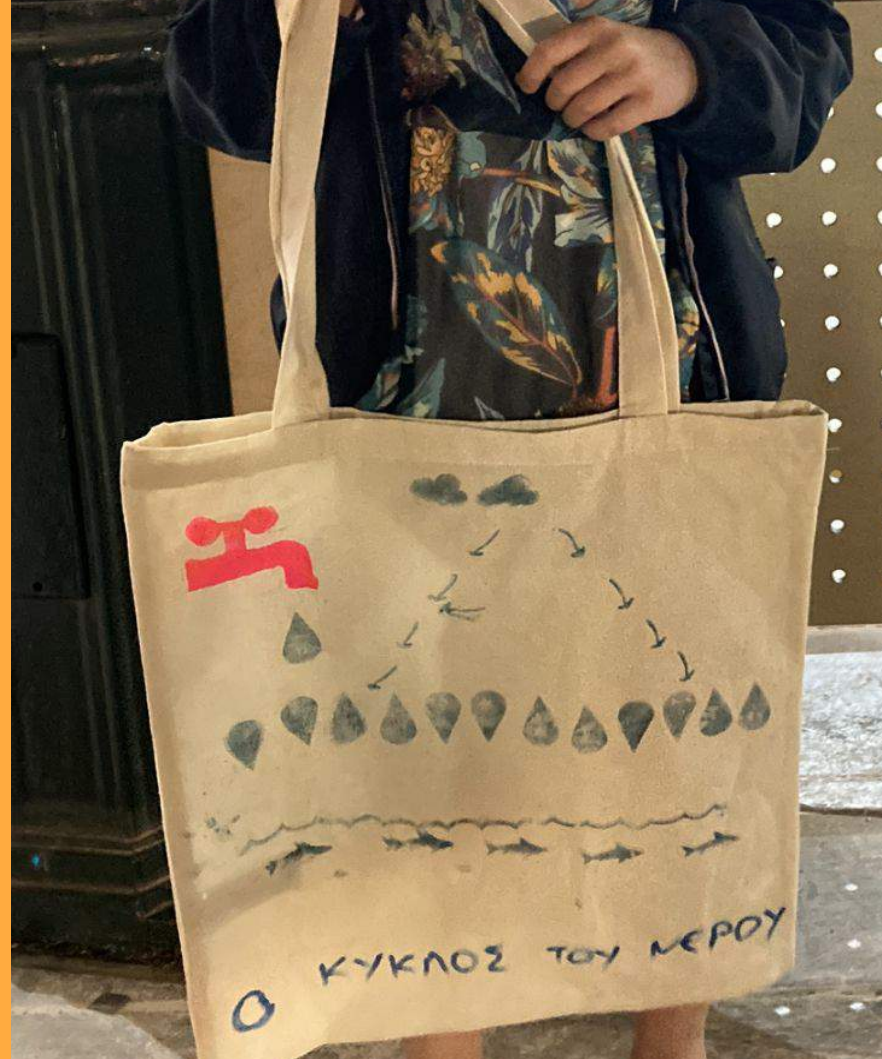


This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 101006203.

Digital fabrication for customizing your own tote bag

Make a bespoke
decoration on fabric
using digital fabrication

Art + Textile + Digital
Fabrication





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Our Network

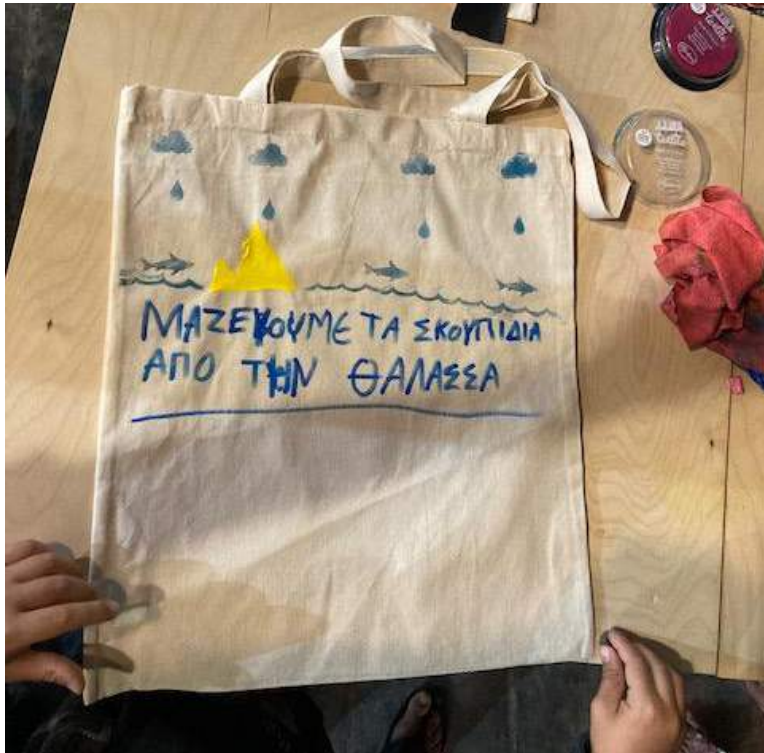
**Our philosophy /
values**

Our work so far

**Be part of
the
change**



What are we learning today?



Message on bag "we gather all rubbish from the sea). The idea was to use the tote bag to collect rubbish from the beach during the summer.

We will...

- discuss the cycle of water and water scarcity locally
- understand the potential of digital fabrication and more specifically the lasercutter, the 3d printer and the vinyl cutter
- create stamps related to the water cycle
- use textile paint to decorate tote bags with the stamps we made
- find an idea on how to use our bags to help the environment



Water cycle - water scarcity

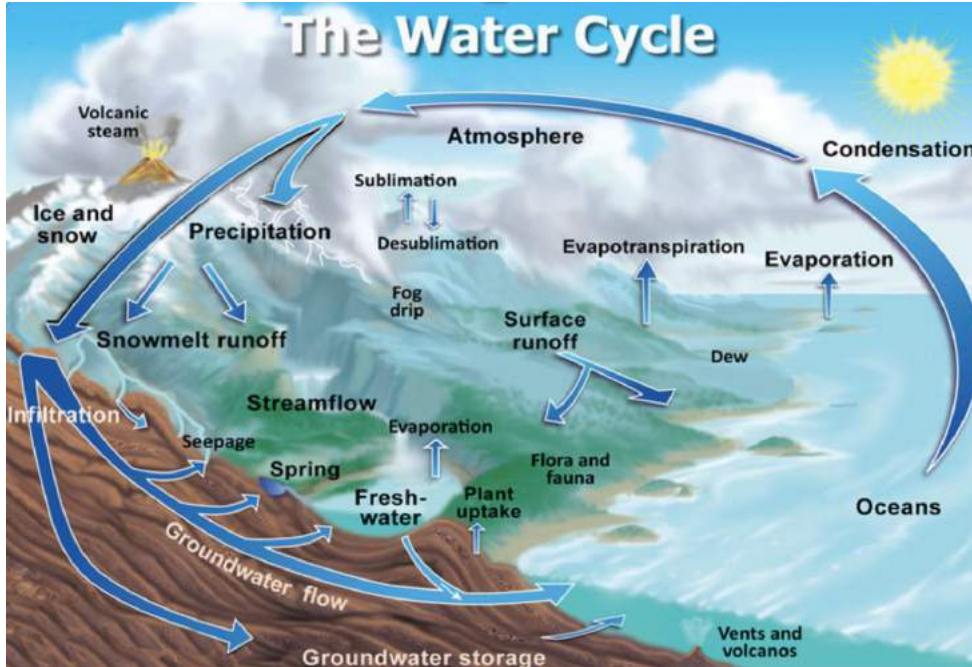
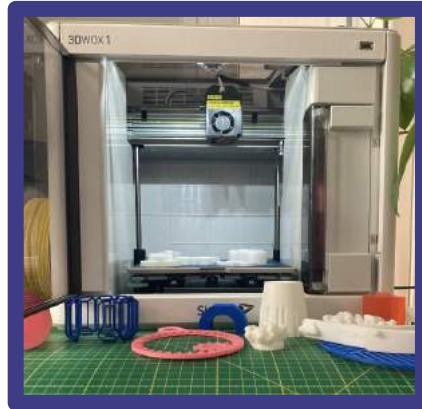


image source
https://en.wikipedia.org/wiki/Water_cycle

- What is the cycle of water?
- How does water scarcity affect us locally?
- How can we help restore the balance?



Digital Fabrication



- How does a lasercutter and a vinylcutter work? How did we use these machines to make stencils and rubber parts for the stamps?
- What is additive manufacturing? How does a 3d printer help us make our own designs? How were the stamp base and handle being made?



List of materials



1. Tote bag
2. Vinylcut stencils ([File](#))
3. Textile paint and brush
4. Kit of parts for stamps ([File](#))
5. Textile paint tampon
6. Clean wet cloths
7. Pegs
8. Textile markers
9. Wooden surface or newspaper
10. Pen and paper



Step 1: design

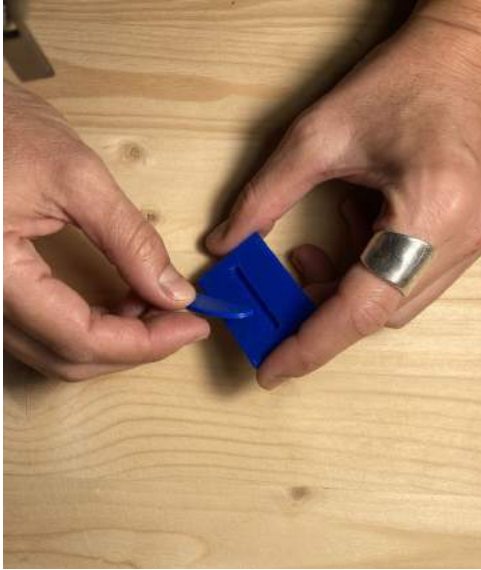


Think and design the design on a piece of paper

Choose the colours you need according to your design for both the stamps and the stencils



Step 2: assemble the stamps



assemble the stamps
Put the two 3d printed parts
(base and handle) of the
stamp together

Find and glue the lasercut
rubber piece that
corresponds to the 3d
printed stamp



Step 3: Stamp prints

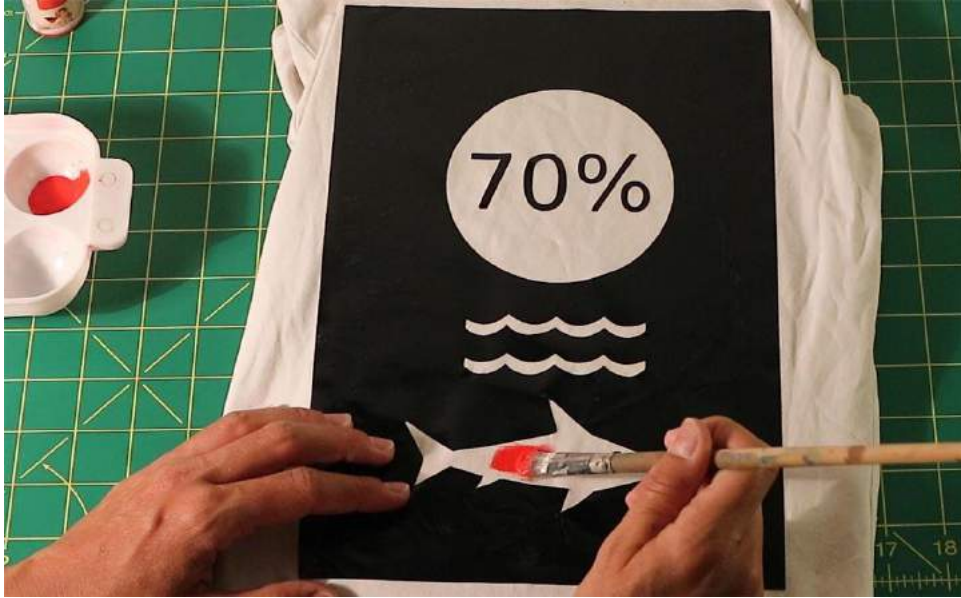


Place the wooden sheet inside the bag to make sure the textile paint does not stain the back side

Use the tampons to print with your stamps



Step 4: Stencil prints



Stick the stencil vinyl where you want your design to be

Use the brush and textile paint to paint on top of your stencil



Step 5: Drying and peeling



Use the pegs to hang the bags to dry for 10 minutes

Once the paint is dry, carefully peel off the vinyl sticker

Remove the wooden surface from the bag





Step 6: Written message



Use the textile markers to write a message onto the bag!

This is an optional step :)



Step 7: ironing (at home) and caring



Once at home, ask an adult to help you iron the bag

Place a baking paper onto the design

Iron on top of the baking paper pressing hard for 1 minute

Remove the baking paper

You can now use the bag and once it gets dirty, wash it in the washing machine in 30C



Enjoy!



Your tote bag is ready!

Show it to your friends

Use it to help the environment



Image source: shutterstock royalty free photo



Go beyond

What other fabrics would you like to customise?

What other messages can you think of printing?



Next step...

Share your creations :

**We love to see different designs,
please share yours on IG and tag
@shemakes_eu @fablableon
@decoddefablab @you**

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ευχαριστώ

www.shemakes.eu



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