

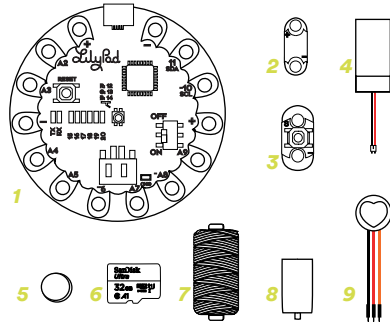
HYPE

HEAR YOUR PERSONAL EMOTIONS

* WHAT'S IN THE BOX

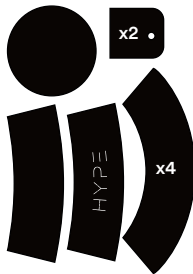
ELECTRONICS

1. Lilypad MP3
2. LED
3. Button
4. Battery
5. Neodymium magnet
6. Micro SD
7. Conductive thread
8. Sensor cover
9. Pulse sensor



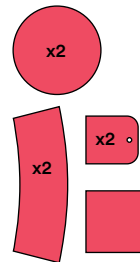
FABRIC

SCUBA_280GM2_1000x600mm



LINING

NYLON_100GM2_550X600MM

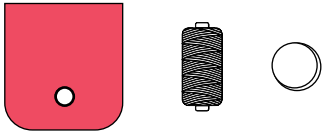


* FABRIC COIL SPEAKER

NB: YOU NEED TO MAKE IT TWICE (FOR EACH LINING FLAP)

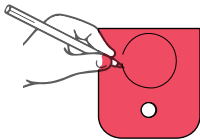
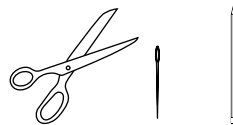
MATERIALS

- * Lining flap
- * Steel conductive thread (0,2 mm diameter)
- * Neodymium magnet (1,8 cm diameter)



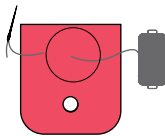
TOOLS

- * Scissors
- * Sewing needle
- * Pencil



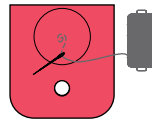
TRACE

Draw with a pencil a circumference which is the limit of the spiral. It must not be too close to the flap hole.



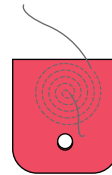
START SEWING

Start threading the thread from the center of the circumference and pull it out on the back side



KEEP SEWING

Keep sewing in order to create a spiral. Remember to leave a few mm between one point and another



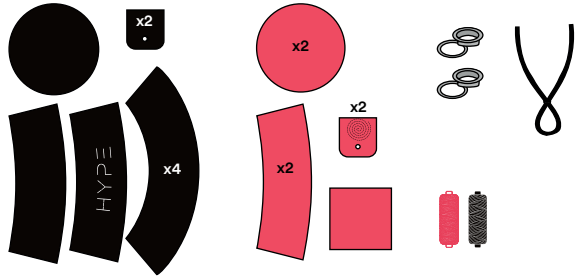
FREE WIRES

Once the whole spiral is done, remove the thread from the needle and leave free the threads of the centre and the end.

* BUCKET HAT

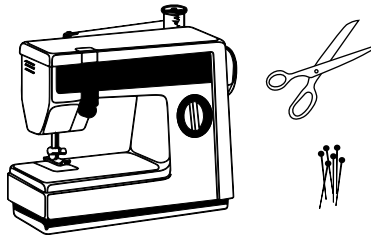
MATERIALS

- * Laser-cut scuba components
- * Laser-cut nylon components (flaps with soft speaker included)
- * 2 eyelets
- * Drawstring
- * Matching thread



TOOLS

- * Sewing machine
- * Pins
- * Fabric scissors



STEP 1_ JOIN HEADBAND FABRIC PIECES

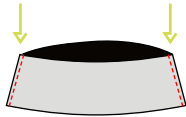


■ FRONT

■ BACK



1a. Lay one piece down with the front side facing up and the other one with the front side facing down, so they are facing each other.

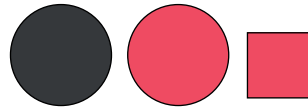


1b. Sew two lines one down the side sections sewing one cm from the edge.



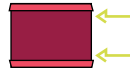
1c. If you flip out the sewn piece, it should look like this.

STEP 2_ ATTACH THE TOP OF THE LINING AND FABRIC

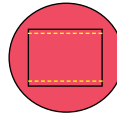


■ FABRIC

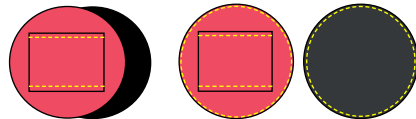
■ LINING



2a. First put the lining on with the back side up. Turn the long sides by one cm.

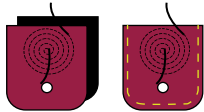


2b. Sew the backside of the rectangle to the frontside of the circle on the two turned long sides.

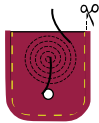


2c. Place the backside of the lining with the backside of the fabric and sew 0.5 around the circumference.

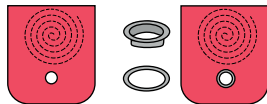
STEP 3_ SEW THE FLAPS



3a. Place the backside of the lining with the backside of the fabric and sew to one cm.



3b. Cut 7 mm from the edge.

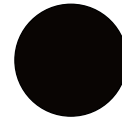
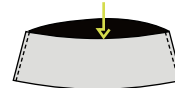


3c. Cut 7 mm from the edge. Turn straight and attach the eyelets with the appropriate machinery.

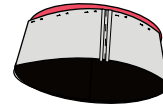
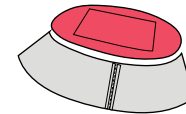
**DO THIS STEPS TWICE
(ONE FOR EACH FLAP)**

STEP 4_ ATTACH HEADBAND TO CIRCLE

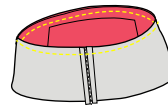
Shorter edge joins circle



4a. Lay the circle down with the front side facing up; for the headband section the front sides are facing inwards and the back sides are facing out. Then put the headband section on top of the circle.

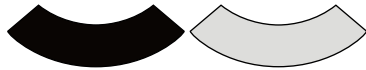


4b. Go around and align the edge of the headband with the circle (the front sides are facing) and pin that all the way around.



4c. Attach the headband onto to the circle going around. Flipping it out it will look like this: you should have a kind of open cylinder.

STEP 3_ JOIN BRIM PANELS

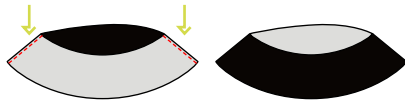


■ FRONT

■ BACK

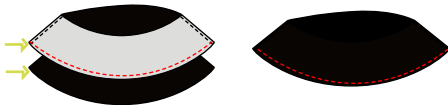


3a. Lay one piece down with the front side facing up and the other one with the front side facing down.



3b. Sew two lines one down the side sections sewing one cm from the edge. If you flip out the sewn piece, it should look like this.

DO THIS STEPS FOR THE OTHER 2 PANELS



3c. Sew the two pieces together on the larger circumference.

STEP 4_ ATTACH BRIM TO TOP OF HAT

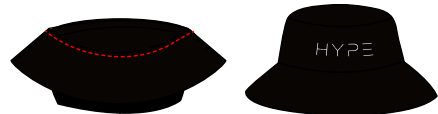
Shorter edge joins top panel



4a. Get the top section of the cylinder and lay down with the circular side resting on a surface and with the front side all facing out .

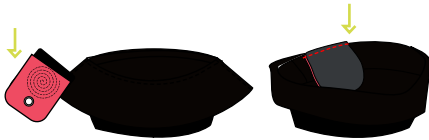


4b. Place the brim over the top so then the front side of the top section and the front sides of the brim are all facing



4c. Start pinning around the circumference and then sew all the way around. Flipping it out it will look like this.

STEP 5_ ATTACH THE FLAPS TO THE FRONT HAT

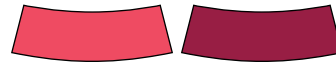


5a. Lay the hat down with the front side facing up. Place the flap with the spiral outwards. Sew to the circumference only the upper side of the fabric flap leaving the one with the spiral free.

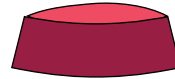


5b. Repeat the same process with the other flap so that the two are sewn symmetrically. At the end it should look like this.

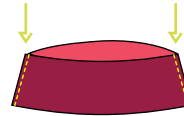
STEP 6_ JOIN HEADBAND LINING PIECES



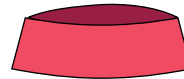
■ FRONT ■ BACK



6a. Lay one piece down with the front side facing up and the other one with the front side facing down, so they are facing each other.



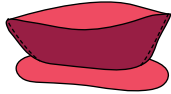
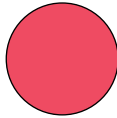
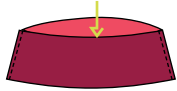
6b. Sew two lines one down the side sections sewing one cm from the edge.



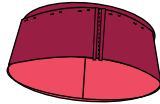
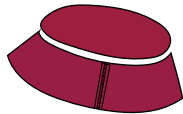
6c. If you filp out the sewn piece, it should look like this.

STEP 7_ BUILD THE LINER CYLINDERER

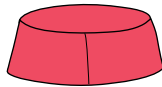
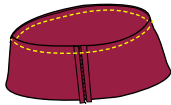
Shorter edge joins circle



7a. Lay the circle down with the front side facing up; for the headband section the front sides are facing inwards and the back sides are facing out. Then put the headband section on top of the circle.

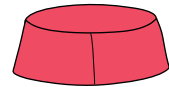


7b. Go around and align the edge of the headband with the circle (the front sides are facing) and pin that all the way around.

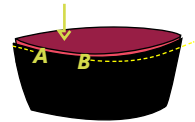
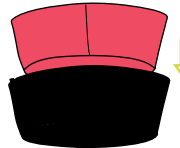


7c. Attach the headband onto to the circle going around. Flipping it out it will look like this: you should have a kind of open cylinder.

STEP 8_ ATTACH THE LINING TO THE HAT



8a. Turn the fabric hat on the back side and put the flaps inside so that only the cylinder remains. Place the lining cylinder with the right side out.

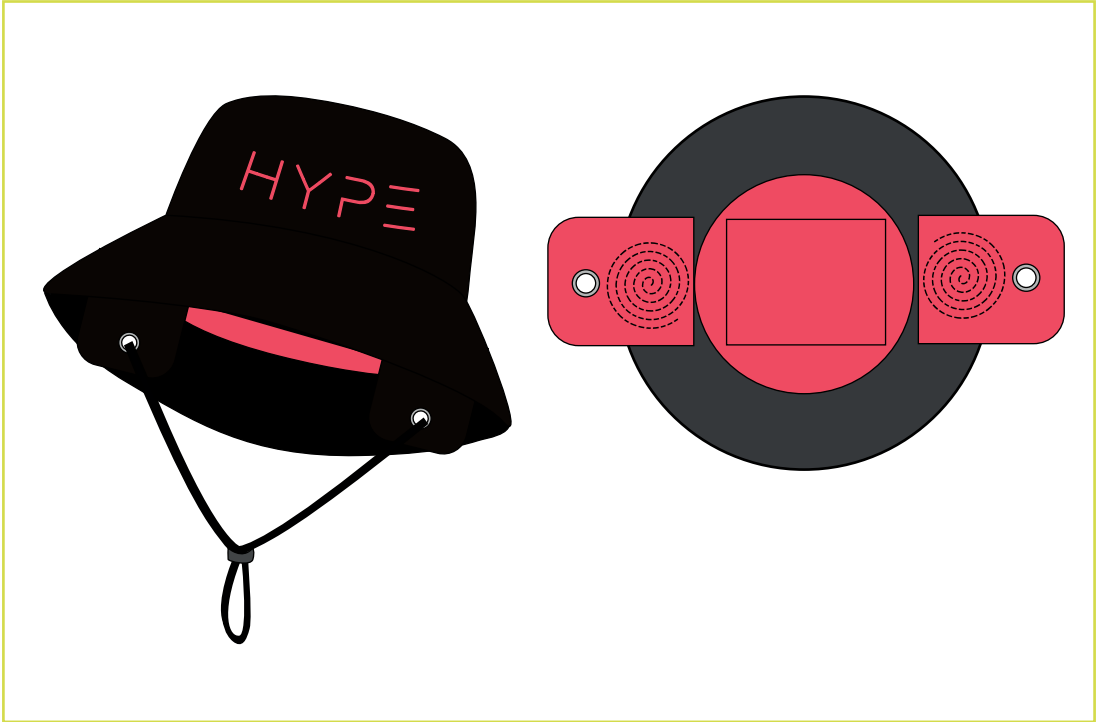


8b. Put the lining cylinder inside the fabric one. Sew around the circumference from A to B, so that the flaps are free. Do it for both flaps.



8c. Use velcro to lock the flaps internally. Turn the hat to the right and finally add the laces.

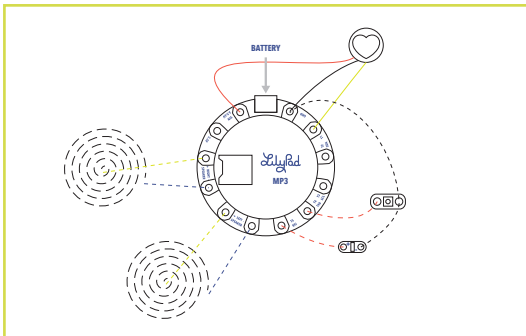
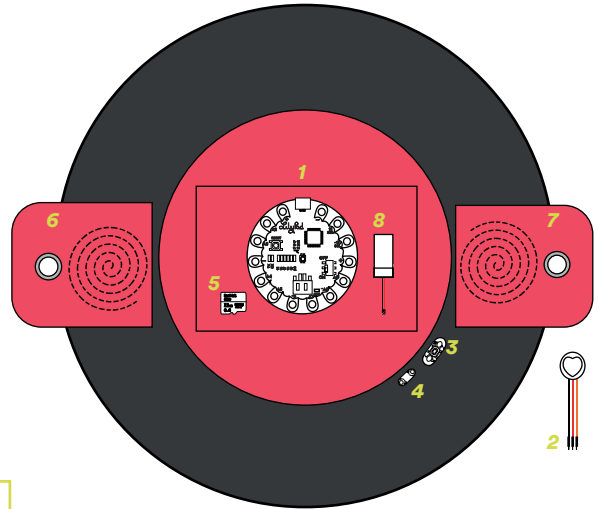
* YOUR BUCKET IS READY



* COMPONENTS PLACEMENT

ELECTRONICS

1. Lilypad MP3
2. Pulse sensor (external)
3. Button
4. LED
5. Micro SD
- 6/7. Speaker
8. Battery



* WHAT'S NEXT?

NOW YOU ARE READY TO BUILD YOUR CIRCUIT! REACH THE NEAREST FABLAB WITH YOUR KIT, AND HAVE FUN CODING THE CIRCUIT!

HYPΞ