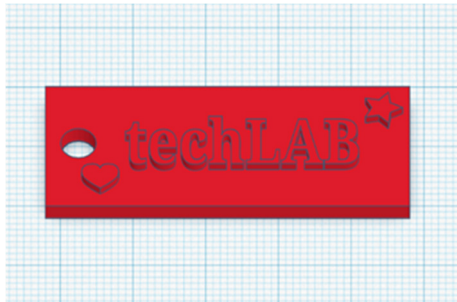


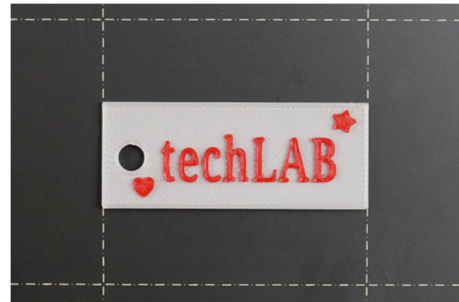
3D-PRINTED KEY TAG



These instructions will show you how to create a 3D-model of a personalised key tag. You can then print your 3D-model on a real 3D-printer!

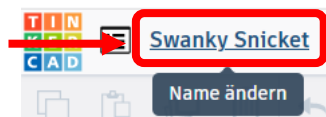


First you will design a 3D-model of a key tag in the program Tinkercad.




The 3D-printer will then print your design in about 10 minutes.

- 1) Give your design a name. Click on the random text in the top left corner and enter your first name.

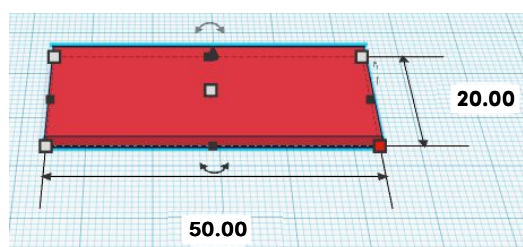


- 2) On the right side you will find objects of various shapes. Drag the red "Box" onto the blue workspace by clicking and holding the left mouse button down.



- 3) Click the small white square  in the middle of the Box to change its height. Change the **height** from 20 mm to **2 mm**.

- 4) Click one of the small white squares at the corners of the box. Change the **width to 50 mm** and the **length to 20 mm**.



- 5) A key tag needs a hole! Get a **striped cylinder** and drop it onto the workspace.




- 6) Click one of the white squares of the cylinder and set **both values to 5 mm**.

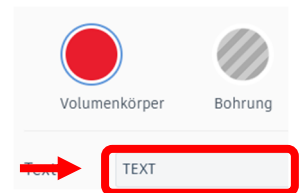
- 7) It can be useful to look **down onto the workspace** when placing the hole. Change the view by holding the right mouse button while moving the mouse.

- 8) Position the **striped cylinder close to an edge** of your plate by using the arrow keys of the keyboard.
- 9) Select all objects with the keyboard shortcut **Strg + A** , followed by **Strg + G** to group them. Wait a little and the whole will be cut out!



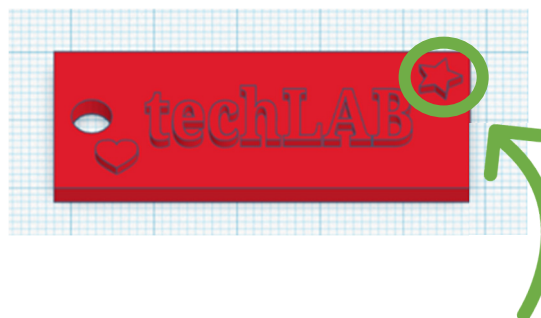
- 10) Look for the -object on the right side and drag it onto your box.

- 11) Click the textbox that reads "TEXT" in the window on the right side. Type a short text of your choice (max. 8 letters).



- 12) Change the **height of the text to 3 mm** (see step 3). It is easier if you change the view first, so that you look at your key tag from the front.
- 13) **Adjust the length and the width of your 3D-text.** Click one of the white boxes in the corner and drag it to resize the text.

YOU ARE DONE! Ask for help to 3D print your design 😊



- You can customize your design even further. **Add shapes** or cut them out, round corners – the possibilities are endless!
- Any shape can be a hole! Click the object and then select the striped circle on the right to turn the object into a hole.
- Is an object hovering in the air? Click it and press the key **D** to drop it.

