



## Braille Training Cell - 6MM

 3D Printy

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### Summary

Teaching aid for learning to read and write braille with large 6mm diameter buttons.

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[braillecell](#)

Teaching aid for learning to read and write braille with large 6mm diameter dots.

<https://youtu.be/Z9aghYXRcNk>

### Customization

#### Case Size

- Single cell
- 8-cell

#### Case Style

- Hard Case with embedded TPU inserts
- Fully TPU Case

## Button Options

- Flat
- Round

## Printing

- All parts can be printed without supports
- Cases are printed upside down (walls facing up) so there is no bridging
- 92A durometer or softer TPU is recommended for all flexible parts
- Print buttons in PLA or other rigid material
- If printing the hard case on a multi-material printer, turn on “Interface Shells” so the TPU gasket has a solid base to print on
- If printing the hard case on a single-material printer, pause the print just before the layer where the case begins to bridge. Insert the TPU gasket so that the top is entirely flush
- 2 perimeter walls is sufficient for all flexible parts, but additional perimeters may provide better results if the buttons feel too loose

## Assembly

- Press fit buttons into the case.
- That's it!

## Filament

You can get drastically different results depending on what filaments you use for the flexible parts of this design. This video by [Filament Stories](#) includes some recommended options.

[https://www.youtube.com/shorts/OfIMXw4e\\_Sk](https://www.youtube.com/shorts/OfIMXw4e_Sk)

<https://youtu.be/8oy3ABtAt2E>

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# Model files



**Demo**

2 files



**demo-assembled.3mf**



**demo-assembled.stl**



**Buttons**

2 files



**button-flat.stl**

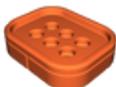


**button-round.stl**



**TPU Case**

2 files



**tpu-case-single-cell.stl**



**tpu-case-8-cell.stl**



## Hard Case

3 files



**hard-case-single-cell.stl**



**hard-case-8-cell.stl**



**tpu-insert.stl**



## Print-in-Place Hard Case

2 files



**print-in-place-hard-case-single-cell.3mf**



**print-in-place-hard-case-8-cell.3mf**



## Templates

1 file

**template-all-files.step**

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