



Cascade card wallet (Print-in-place)



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Summary

Print-in-place Card wallet capable of holding 5 cards. Your cards pop up in cascade style for easy use.

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Update 04/08/2022 : I changed the tolerances, it should now be less tight for the cards. I also made a little change to prevent the last card from going behind the mechanism. These updates are only present on the model wish has the term "UPDATED" in front of it's name.

I also recommend printing with PETG as is has more elasticity and is more durable than PLA.

Update 01/08/2022 : I made 2 variations of my model, one with rounded edges and more grip with slightly bigger spikes, and the other one I also added a cash slot in the back to hold a couple of bank notes. Feel free to give me some feedback if you try them out.

Update 25/07/2022 : I made some changes to the inner parts, it should now be easier for them to come apart, also added a couple holes in the back to help in the process.



This is my own design of a pop up card wallet, it uses a front swipe motion to access the cards. I made it print-in-place so that it is easier and ready to use right out of the printer.

The design is simple and minimalistic, focused around ease of use.

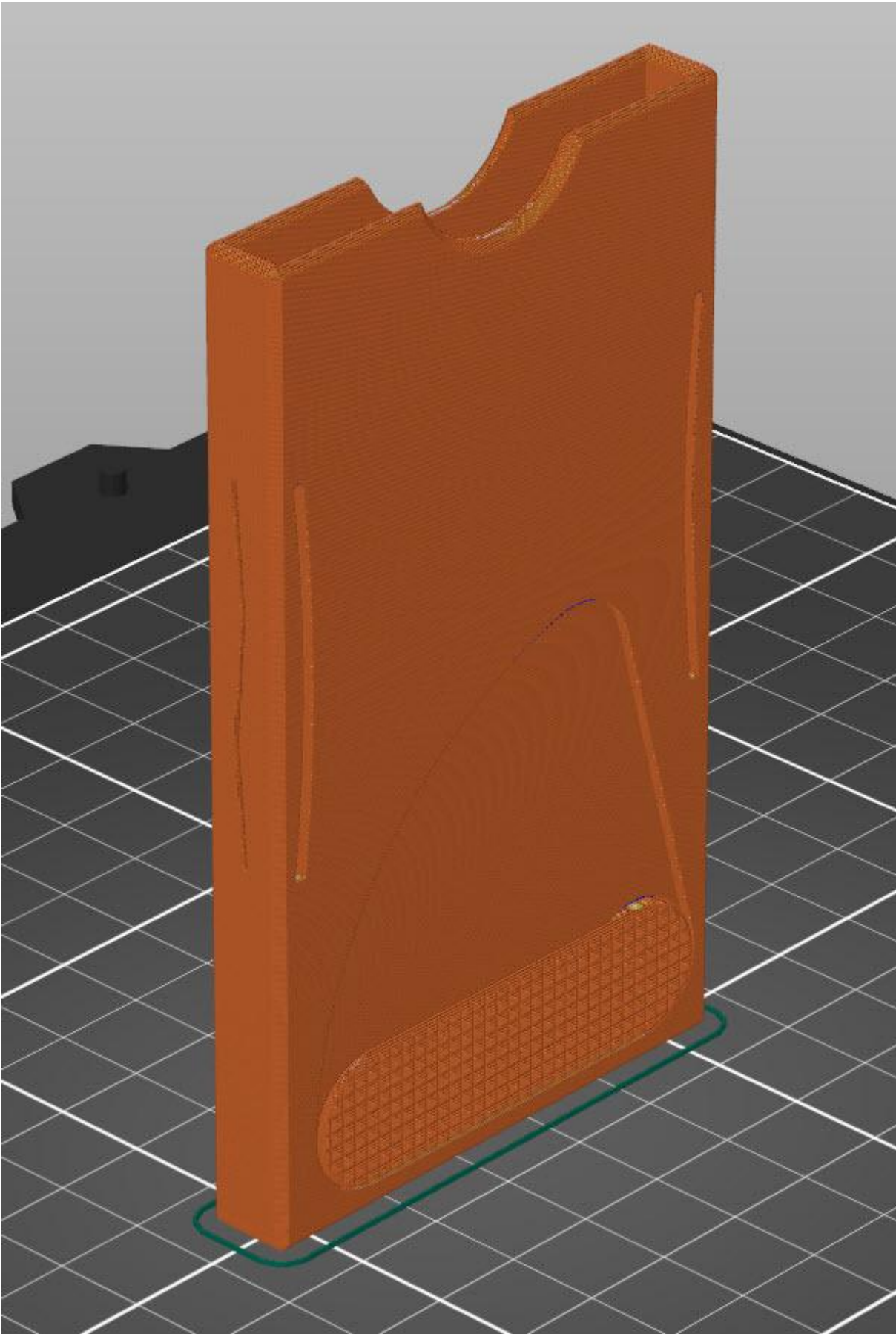
Although it is print in place, it requires some pressing and forcing to free the movement.

The cards are held in place thanks to the 2 front slots that take advantage of the plastic's elasticity to keep them from falling out even upside down. I sliced the retention mechanism in 2 (with the groove on the side that is not straight) to prevent having one large card that stretches out all the plastic and lets go of all the other cards.

Printing :

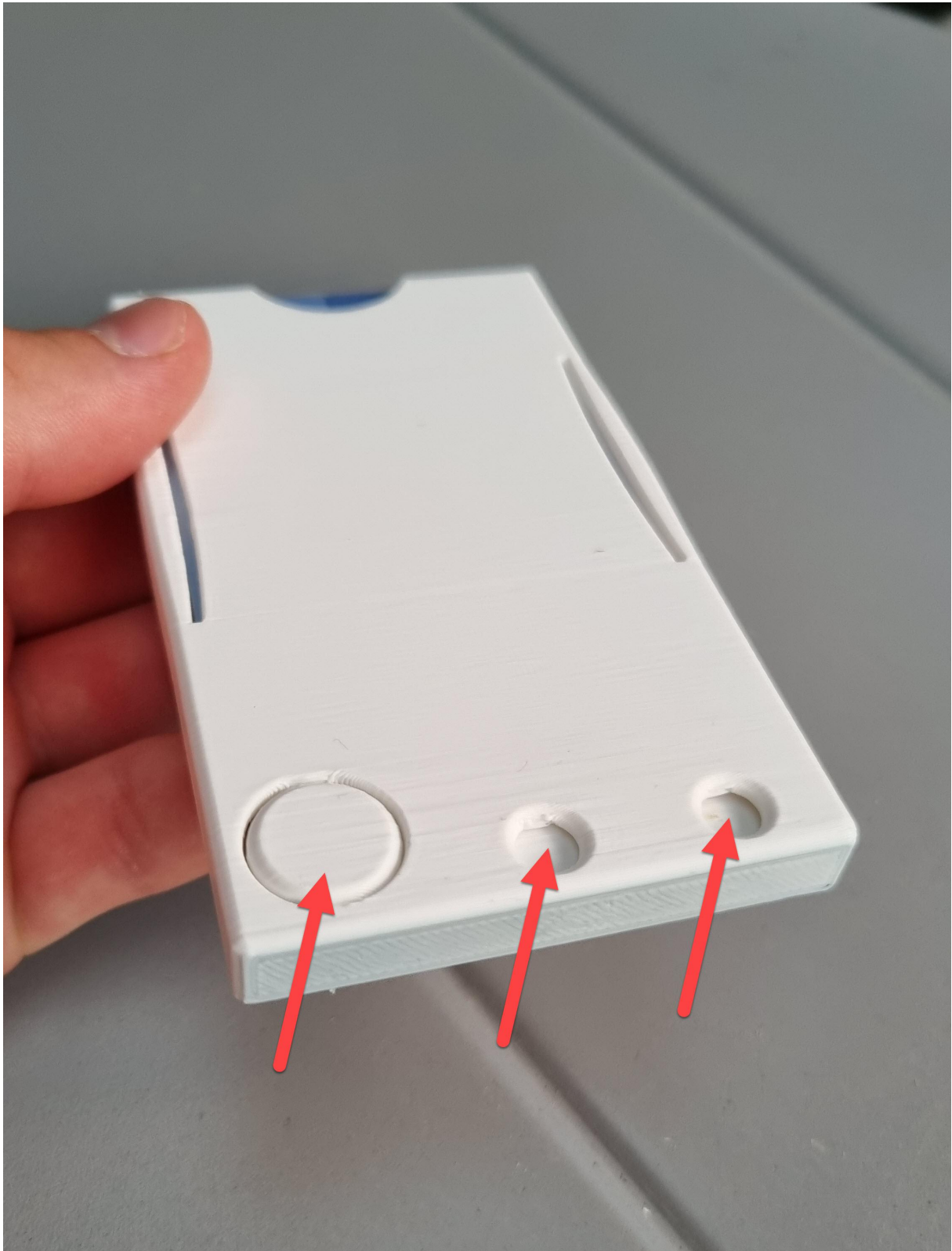
- I recommend printing in PETG (PLA tends to lose the tension with the cards over time)
- Nozzle : 0.4mm
- layer height : 0.2mm
- no support

Print the model upright :



How to free the mechanism :

After the print is done, press on the pivot in the back of the wallet to free the mechanism :



Press it in different directions, you should hear some clics from the parts coming apart.

(you can press quit hard if needed)

I made an extra 2 holes in the back to better detach the mechanism, you can push with a screwdriver head to free the pieces.

Also free up the front strip and then you can force a bit and it should make it move.

It is a bit rough at the start but move it several times all the way to smooth the movement.

Then put some cards in and enjoy !

Model files



UPDATED version

1 file

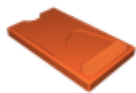


card-holder-printinplace-with-money-clip.stl

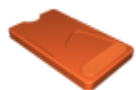


older versions

2 files



card-holder-printinplace-base-model.stl



card-holder-printinplace-with-rounded-edges.stl

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