



## Radial Pill Organizer

d defaultex

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### Summary

A radial style pill organizer with 50% more internal volume than the typical pharmacy equivalents.

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This print was designed to print with a 0.15mm line size. To assemble you will need 14AWG (or 1.6mm dia) wire for the hinge pins cut down to 30mm lengths. Print orientation is to print the tray right side up and the lids upside-down.

There are some overhangs on the hinges for the top that will be a problem when printing. If you like you can turn on support from buildplate in your slicer. I printed with no support and that required a couple minutes with some flush cuts to clean up what little bit drooped. The amount of plastic that did droop was insignificant but whether supports are needed or not really depends on your filament, print settings and how your machine is tuned so use your best judgement. I did give them some graduation along the outer edge but that only supports part of the hinge. use your best judgement on this.

There are a couple tweaks you can do to the model which require FreeCAD 0.19 or compatible software.

Adjusting text: inside any of the 'lid\_day' bodies expand 'lid\_text\_pocket' element. Inside that is a shape string element named in the pattern

'day\_str' where day is the day of week it represents. You can edit the text on that string to your liking. To adjust the text placement you can use the 'lid\_text\_s' sketch which has 2 constraints for adjustment. 'width' which should be set ideally to the total width of the text and 'voffset' which adjust how far away from the center the text is pushed outward.

Adjusting line sizes: this model was an attempt to make self-adjusting walls to guarantee there are no gaps between the walls. Inside that 'data' spreadsheet you will find 'extrusion\_width' which is your perimeter wall width, 'extrusion\_spacing' which is internal wall widths and 'extrusion\_height' which is the line height. The formulas applying those assumes no overlap since I print with no squish and no overlap, so you may have to intuit/derive those if you have significant squish or overlap.

Shell thickness: the designed shell thickness is 1.4mm but it will be adjusted based on the line size parameters, it's just a target. You can find this in the cell with the alias 'shell\_thickness\_target' which is located to the right of the 'shell\_thickness\_v' cell. This description makes more sense when looking at the spreadsheet.

Wire diameter for hinge pins: this is listed as 'cu\_wire\_diameter' since I used copper wire that was recycled from a house rewiring. You may change the value to adjust the hinge pin sizes but work may need to be done to the hinge sketches to accommodate any major changes in size. I would suggest not going too much higher or lower than 1.6mm on this unless you know what your doing editing sketches in FreeCAD.

## Model files



**pill\_organizer-tray.stl**



**pill\_organizer-lid\_monday.stl**



**pill\_organizer-lid\_tuesday.stl**



**pill\_organizer-lid\_wednesday.stl**

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**pill\_organizer-lid\_thursday.stl**

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**pill\_organizer-lid\_friday.stl**

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**pill\_organizer-lid\_saturday.stl**

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**pill\_organizer-lid\_sunday.stl**

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**pill\_organizer.fcstd**

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