



Modular Shelf



Towrf

[VIEW IN BROWSER](#)

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Summary

A modular bookshelf system made with 3D printed parts, wood shelves and Iron supports, full DIY project.



2.15 hrs



3 pcs



0.20 mm



0.40 mm



PLA



47 g



Prusa MK4

[Household](#) > [Living Room](#)

Tags: [shelf](#) [woodworking](#) [metal](#) [shelves](#)

DIY Bookshelf

Is a project that combines multiple materials, a solid metal frame made with L-shape 3/4 iron bar (custom made), fixed to the wall and soldered in place.

Shelves are made out of 3/4 pine wood, just tinted. Cut to size. I recommend lenght between 90 and 110cm, depth between 22 and 25cm.

Shelf Module

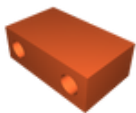
For 3D printed parts, you need to print 2 “Sides” per Shelf Module, and depending on the position of the module either 1 or 2 “Shelf holder” or 1 “Shelf holder” and 1 “End Cap”.

Side parts require 4 M4 threaded inserts (I personally recommend those from CNCKitchen). Just set those as usual.

Connect the modules with M4x20, everything attaches using just friction between plastic and metal, so far is holding.

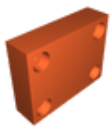
I personally printed everything in Gold Silk PLA, 0.2mm Layers and 50% infill. Again, still holding, my build has around 3 months, not too much weight either, but is holding. If any adjustment is required I'll let you know.

Model files



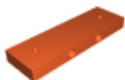
side-connector.stl

☐ Print 2 per shelf module



end-cap.stl

☐ Print upto 1 per shelf module



shelf-holder.stl

☐ You can print 1 or 2 per shelf module

Print files



end-cap_04n_02mm_pla_mk4is_28m.bgcode

PLA 0.40 mm 0.20 mm 0.47 hrs 11 g Prusa MK4



side-connector_04n_02mm_pla_mk4is_18m.bgcode

🌀 PLA 🌀 0.40 mm 📏 0.20 mm ⌚ 0.31 hrs ⚖️ 5 g 🖨️ Prusa MK4



shelf-holder_04n_02mm_pla_mk4is_1h22m.bgcode

🌀 PLA 🌀 0.40 mm 📏 0.20 mm ⌚ 1.37 hrs ⚖️ 31 g 🖨️ Prusa MK4

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