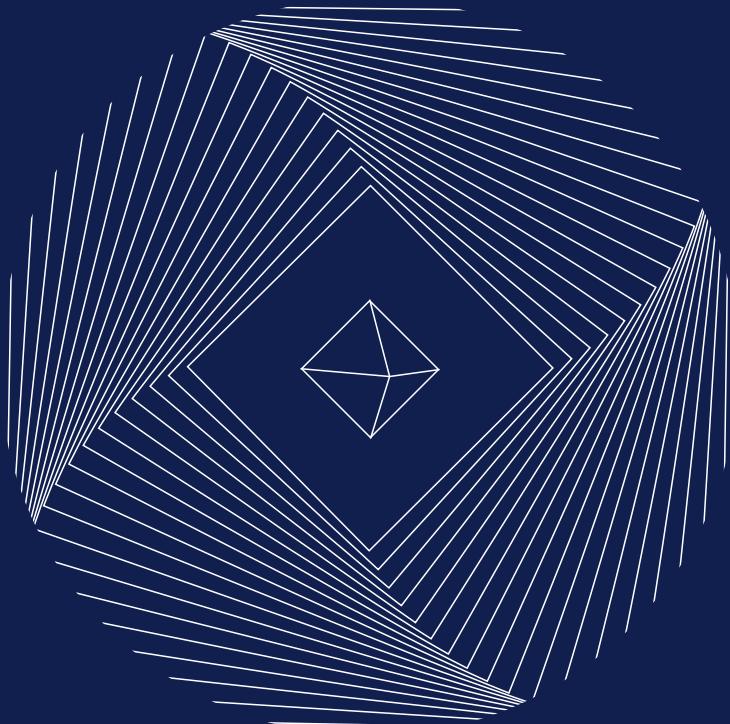


Make it Yourself



1000 Useful Things to Make

Ad Factorem Mundi

Introduction

Across the world creative people are making high quality things of all kinds and sharing their work freely with all of humanity.

Make it Yourself showcases this incredible talent, bringing together over 1000 useful DIY projects to demonstrate just what is possible when you make things yourself.

Each featured item links directly to their original project websites, where you'll find everything needed to make them.

I hope this can serve as a source of inspiration for your next project.

NODE

(All the work featured inside belongs to the makers who are credited on the bottom of every page)



3D PRINTING



SEWING



WOODWORKING



LASER CUTTING



ELECTRONICS



LEATHERWORKING



CNC MILLING



PAPERCRAFT



METALWORKING

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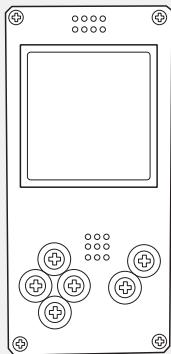
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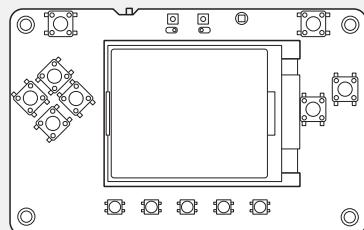
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007 GAMING / CONSOLES

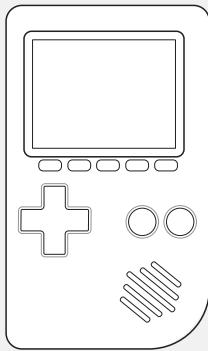
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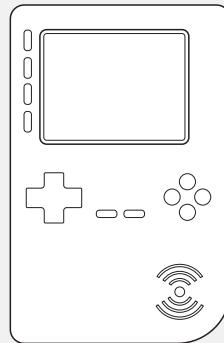
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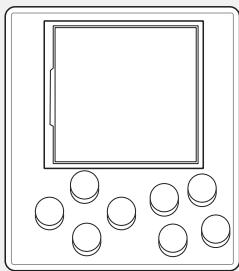


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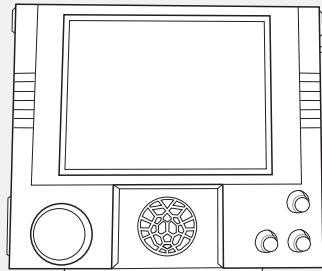


01 **ESPBoy** Retrogaming & software development multitool - by RomanS (*via ESPBoy*). 02 **Adafruit PyBadge** Credit-card sized module. Code your own games - by Adafruit Industries. 03 **Pocket PiGRR** Portable Gameboy-style Raspberry Pi A+ console - by Ruiz Brothers (*via Adafruit*). 04 **PiGRR 2** Portable Gameboy-style Raspberry Pi 2 console - by Ruiz Brothers (*via Adafruit*).

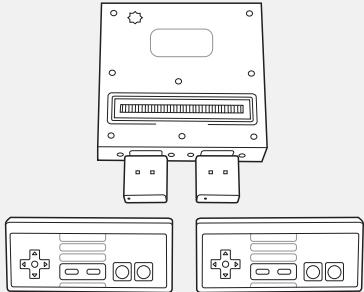
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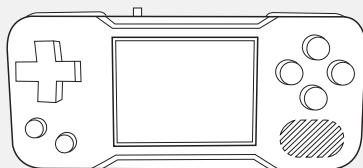
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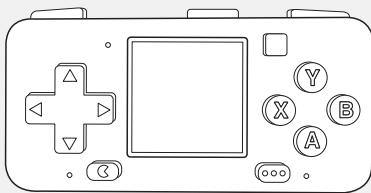
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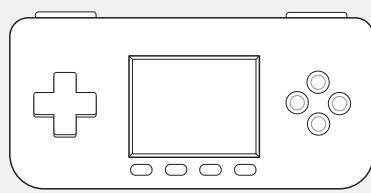
01 NCAT Mini watch-sized console, ESP32S3 LilyGo T-QT - by *Nathalis* (*via Github*). **02** Pico Arcade Mini Small hand-held based on the Raspberry Pi Pico - by *Tipam* (*via Instructables*). **03** TinyNES Play classic NES games on open source hardware - by *Tall Dog Electronics* (*via CrowdSupply*) . **04** Apple Pocket Pi Retro handheld games emulator - by *Applepie1928* (*via Instructables*).

009 GAMING / CONSOLES

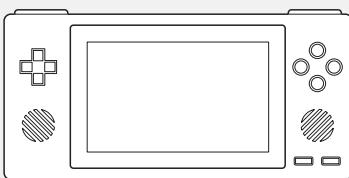
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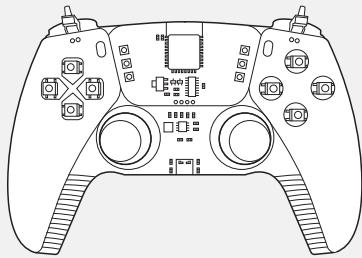


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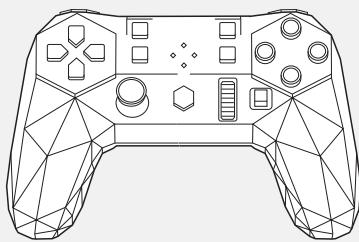


01 **microByte** Hand-held retro console based on ESP32 Wrover - by Juan Flores (*via Hackaday*). 02 **PiGRRL Zero** Portable Gameboy-style Pi Zero console - by Ruiz Brothers (*via Adafruit*). 03 **SimplyRetro Z5** Excellent Raspberry Pi Zero hand-held emulator - by Gerrit Gasic (*via Thingiverse*). 04 **Retro-CM3** Ultimate RetroPie game console. Pi CM3 - by Dean Chu (*via Hackaday*).

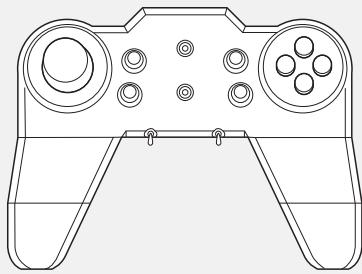
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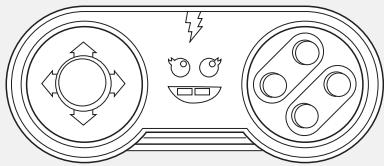
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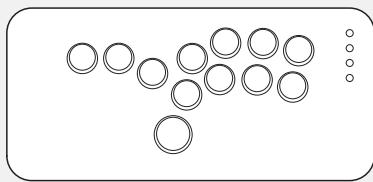
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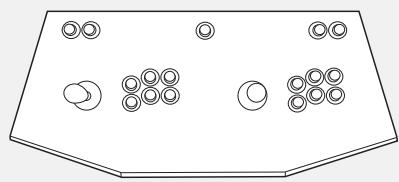
01 BLE Game Controller Gamepad using ESP32 and controlled over BLE - by Sayantan Pal (*via Github*). 02 Alpakka 3D printable gamepad controller ref design - by Input Labs. 03 Bluetooth Gamepad 19 Buttons, 3 axis wireless bluetooth gamepad - by Jake Wilkinson (*via Thingiverse*). 04 JOY Controller Mixing Kawaii with a game controller - by Ruiz Brothers (*via Adafruit*).

011 GAMING / GAMEPADS & CONTROLLERS

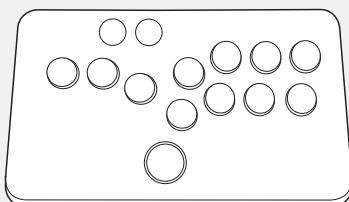
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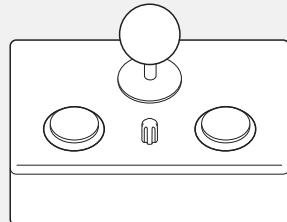
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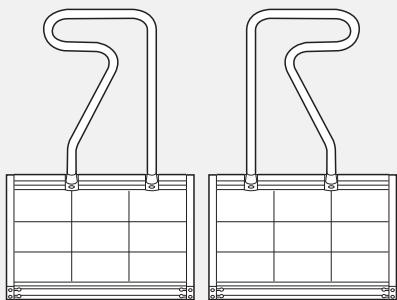


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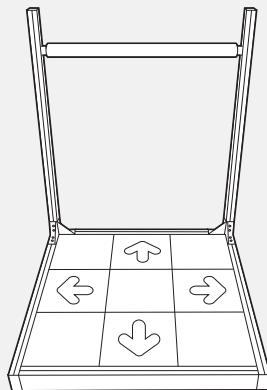


01 Hitbox REDUX Print your own Hitbox layout game controller - by [micaherrone \(via Printables\)](#). **02 Multiplayer Controller** Two player arcade controller build - by [Thomas Jacquin](#). **03 Slimbox** Hitbox-layout low profile fightstick. Pro micro based - by [Jacek Fedorynski \(via Thingiverse\)](#). **04 Joyweiler** Retro joystick. Connects to new & old hardware - by [Edge Records \(via Gitlab\)](#).

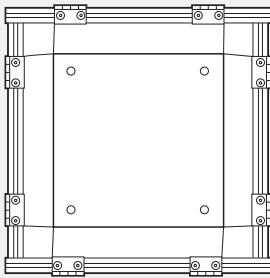
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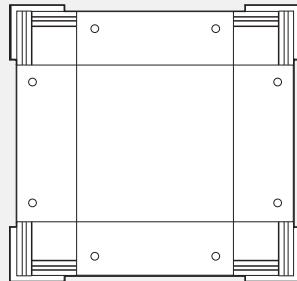
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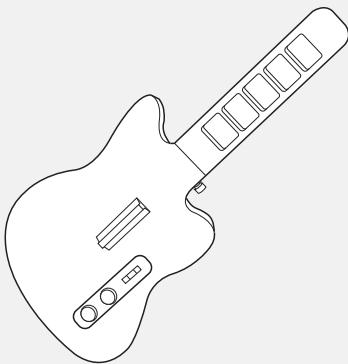
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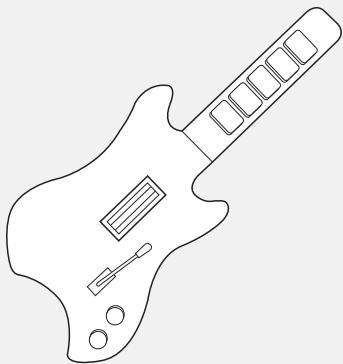
01 FSR Dance Pad Aluminum extrusion FSR dance pad. Teensy-based - by [Josh Headapohl](#) (*via Github*). **02 Re:Flex Dance** Robust, open source, easy to build dance pad - by [Reflex Creations](#). **03 TravelPad Metal** 17"x17" travel pad for DDR/ITG - by [Natologic](#) (*via Github*). **04 Widgetpad v0** Arduino Pro Micro-based ITG travel dance pad - by [Widget](#) (*via Github*).

013 GAMING / MUSIC GAME CONTROLLERS

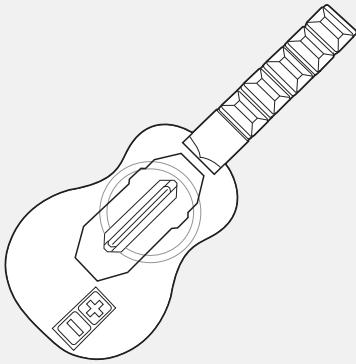
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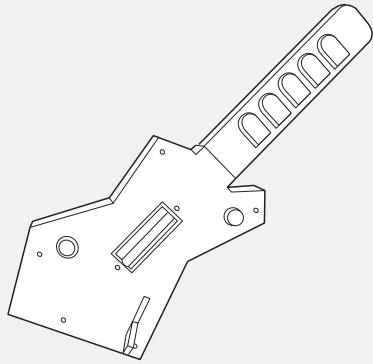
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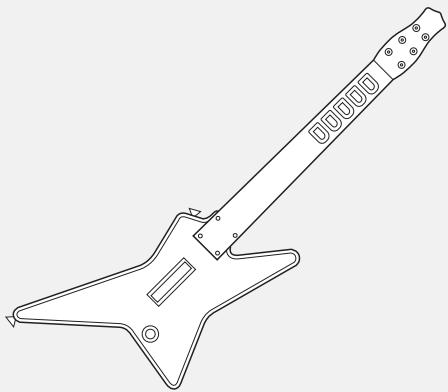


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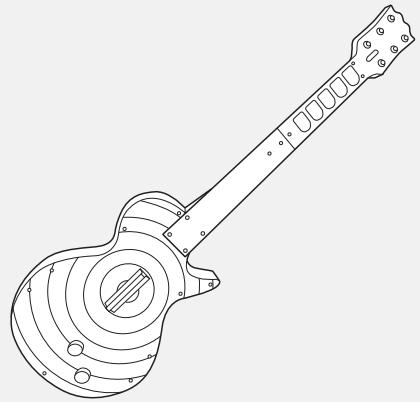


01 ModCaster Modular travel Clone Hero controller - by VladTheInhaler (*via Printables*). 02 WhamCaster Mini Clone Hero controller with whammy - by VladTheInhaler (*via Printables*). 03 Uke Hero V3 Arduino-powered controller for Clone Hero - by Jack Whelan (*via Printables*). 04 Mini Guitar Controller Arduino Pro Micro-based controller- by Russell Miller (*via Thingiverse*).

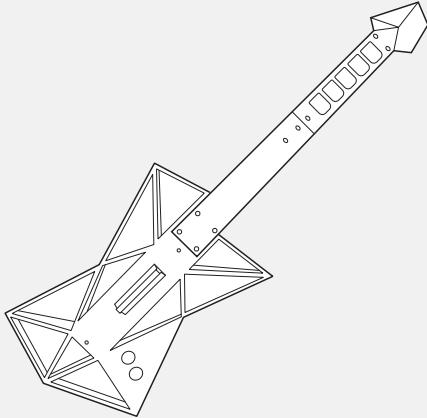
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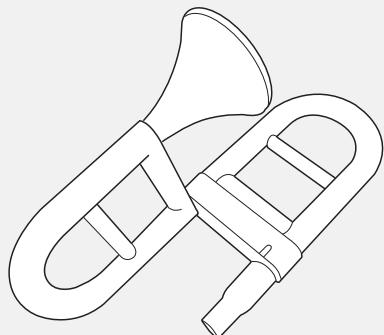
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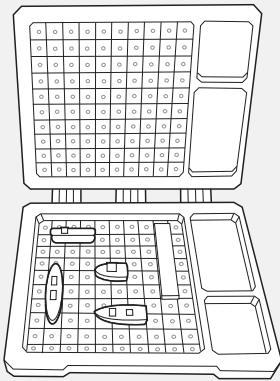


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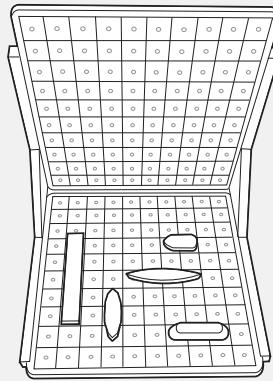


01 **Van Halen Star Guitar** USB-C / BT guitar controller - by Long (*via Printables*). 02 **Les Paul Guitar** Classic styled Clone Hero guitar controller- by Josh Designs (*via Printables*). 03 **Poly Controller** Polygon styled Clone Hero guitar controller - by Josh Designs (*via Printables*). 04 **Trombone Controller** Arduino-powered controller for Trombone Champ - by fith (*via Printables*).

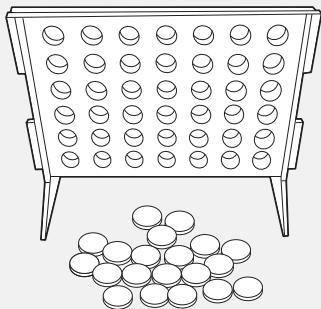
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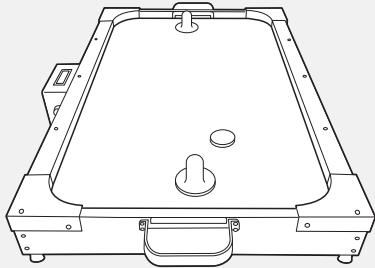


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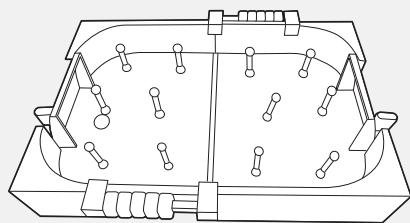


01 Battleship Game in Case - by MaximumDude (*via Printables*). 02 Battle Ship Game - by MasteroftheGT (*via Printables*).
03 4-in-a-row Game - by A5 (*via Printables*). 04 Risk-like Board Game - by Matlek (*via Instructables*).

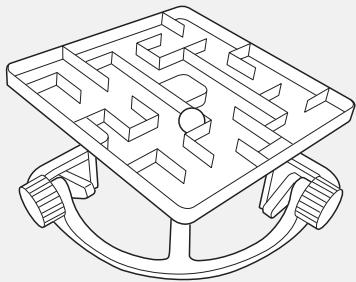
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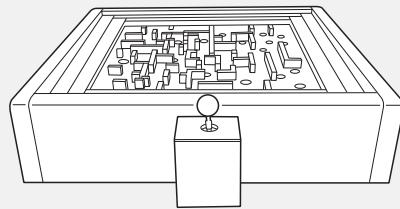
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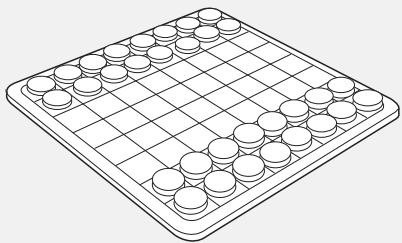
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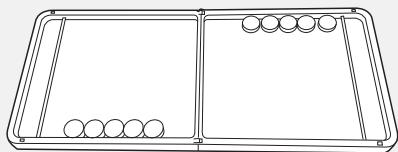
01 Air Hockey Table - by Technovation (*via Instructables*). 02 Elastic Football - by Wilko_SLO (*via Printables*). 03 Marble Maze - by ericman314 (*via Printables*). 04 Labyrinth Game - by Kevr102 (*via Instructables*).

017 GAMING / ANALOG & TABLETOP

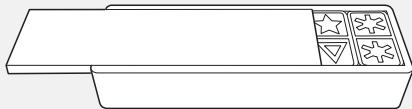
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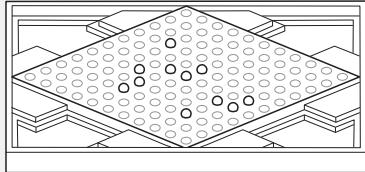
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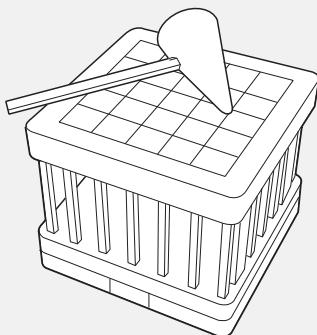


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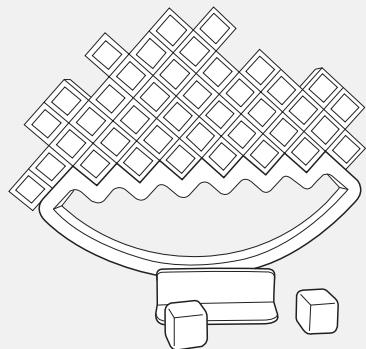


01 Minimalist Chess Set - by Vinh Truong (*via Printables*). 02 Passe Trappe 1v1 - by Nils Kal (*via Printables*). 03 Sensorial Domino - by Juanma (*via Printables*). 04 Hex Board Game - by makendo (*via Instructables*).

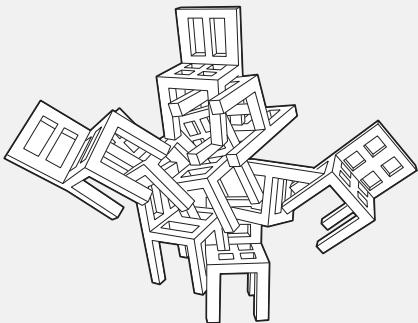
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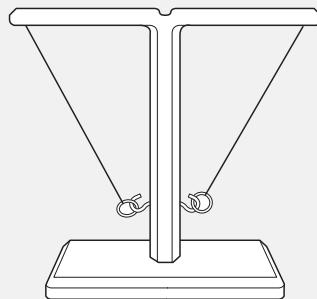
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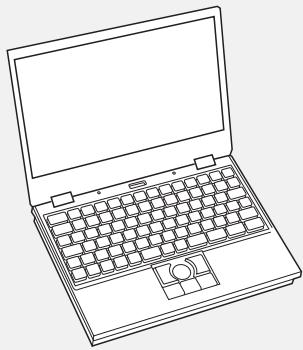
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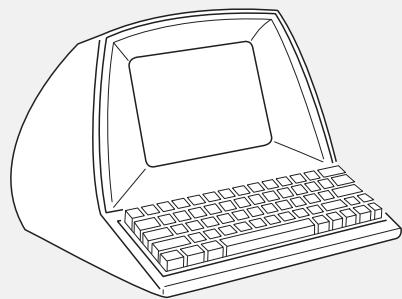
01 Don't Break the Ice - by Paca (*via Printables*). 02 STOLI Party Game - by Bryan Vines (*via Printables*). 03 Chair Stacking Game - by Thomas H 3D (*via Printables*). 04 Hook And Ring Game - by Ziyay (*via Printables*).

019 COMPUTING / COMPUTERS

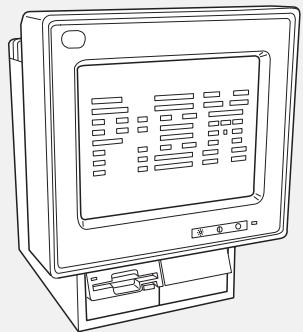
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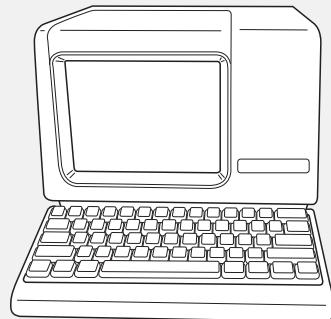
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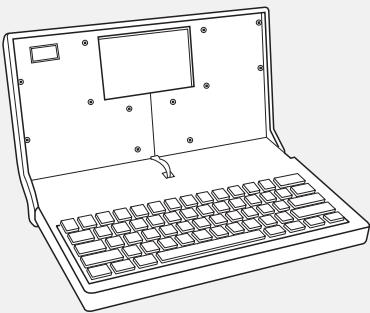


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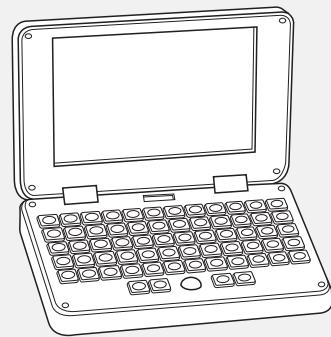


01 **MNT Reform** 12.5-inch open source DIY laptop - by Lukas F. Hartmann (*via MNT Research*). 02 **Callisto 2** Fully printable retro-style computer - by LowBudgetTech (*via Printables*). 03 **PiBM PS/2 Model 25** Pi-based IBM-styled mini desktop PC - by poprhythm (*via Instructables*). 04 **VT100 Terminal** Pi-based reproduction of classic design - by pmegardi (*via Instructables*).

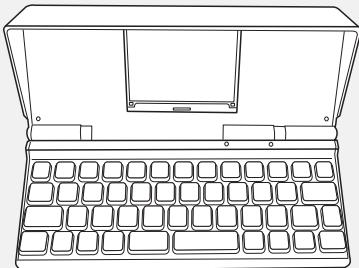
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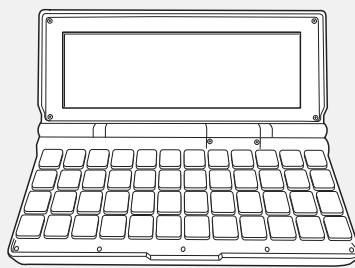
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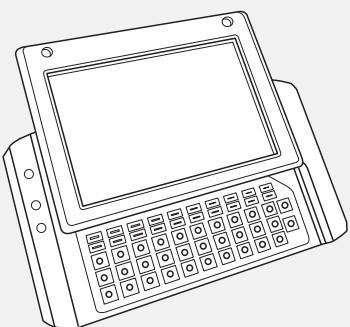
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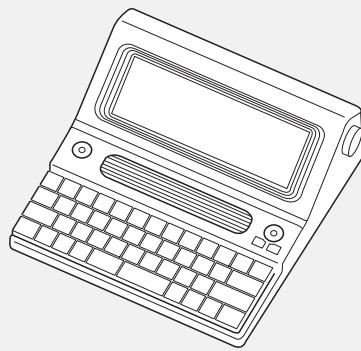
01 **FeatherQuill** Distraction-free writer (34hr battery) - by Cameron Coward (*via Instructables*). 02 **MNT Pocket Reform** 7-inch mini open source laptop - by Lukas F. Hartmann (*via MNT Research*). 03 **Zerowriter** Pi Zero e-ink digital typewriter - by Zerowriter (*via Github*). 04 **Penkesu** 7.9-inch homebrew retro handheld PC - by penk.

021 COMPUTING / COMPUTERS

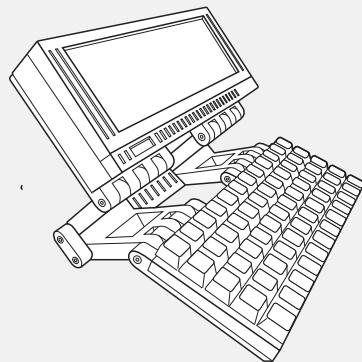
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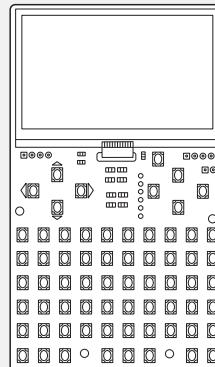
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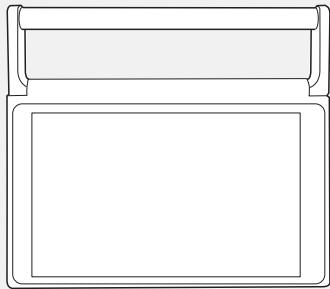


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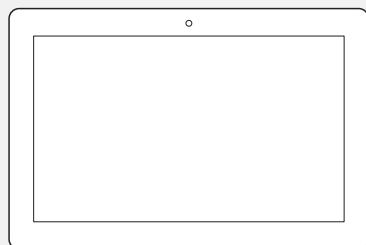


01 **MutantC V4** Easy-to-build modular handheld PC - by [rahmanshaber](#) (*via Instructables*). 02 **TechNIK's Cyberdeck Compact** and customizable linux terminal - by [Nik Reitmann](#) (*via Hackaday*). 03 **THEBRICK** 7.9-inch Rasspberry Pi 4B cyberdeck - by [YARH.IO](#). 04 **SharpIkeeb0** Mini Pi Zero PC with display & keyboard - by [Dr PhilMorph](#) (*via Github*).

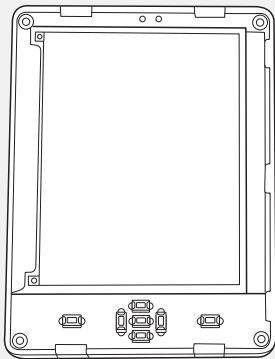
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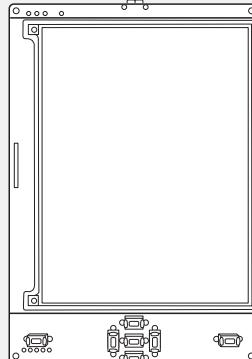
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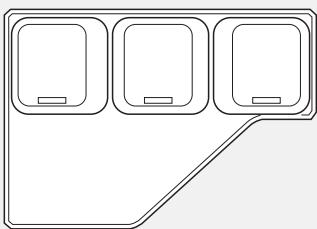
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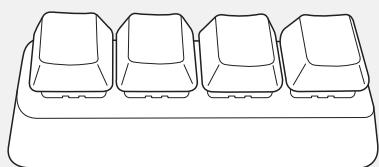
01 CutiePi CM4 based, 8-inch touchscreen, 5000mah battery - by [CutiePi](#). 02 DLT one Open hardware tablet, Linux or Android options - by [timonsku](#) (*via Hackaday*). 03 The Open Book Pi Pico based e-reader - by [Joey Castillo](#) (*via Github*). 04 The Open Book Feather Adafruit Feather based e-reader - by [joey Castillo](#) (*via Github*).

023 COMPUTING / MACRO PADS & CONTROLLERS

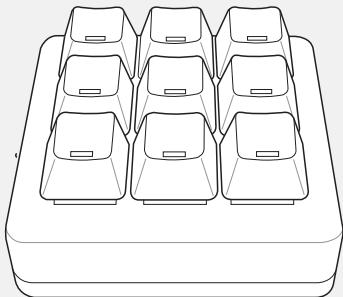
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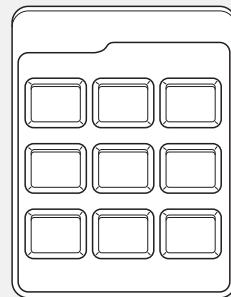
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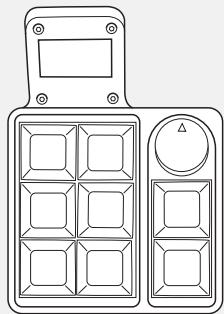


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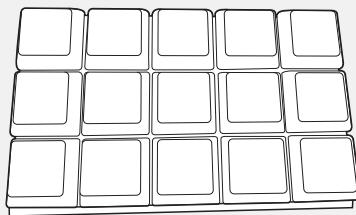


01 **Cherry MX Macro Keyboard** 3-Key, micro USB, Cherry MX switches - by [Kimframes](#) (*via Printables*). 02 **4x1 Macro Keypad** 4-Key, Cherry MX, Pi Pico - by [Thinner42](#) (*via Printables*). 03 **3x3 Macro Pad** 9-Key, C-duino, USB-C, blue gateron - by [Timmeket](#) (*via Printables*). 04 **Keybon** 9-Keys made from 0.66" OLED screens - by [Max.K](#) (*via Hackaday*).

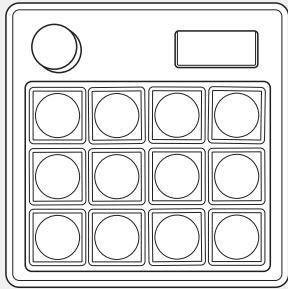
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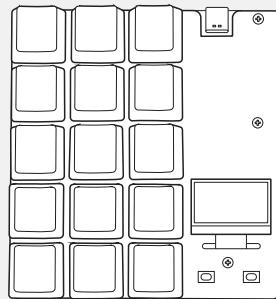
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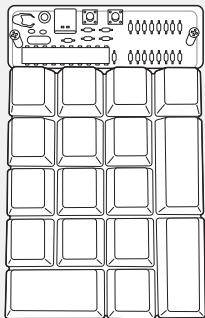
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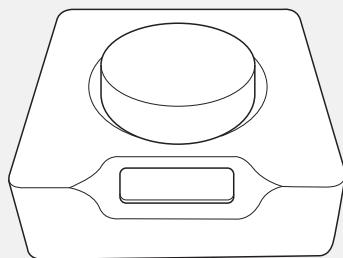
01 0xCB 1337 Macropad, OLED, rotary, LEDs - by 0xCB. 02 Logomorph Macro Keyboard 15-Key, Arduino, BT wireless, USB-C - by Alin Baciu (*via Github*). 03 Ocreeb MK2 12-Key modular macro keyboard system - by Salim Benbouziyane (*via Instructables*). 04 DuckyPad 15-Key mechanical macropad, OLED - by dekuNukem (*via Github*).

025 COMPUTING / MACRO PADS & CONTROLLERS

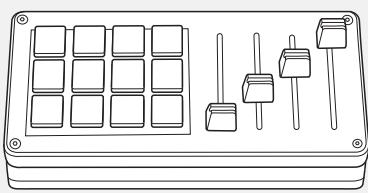
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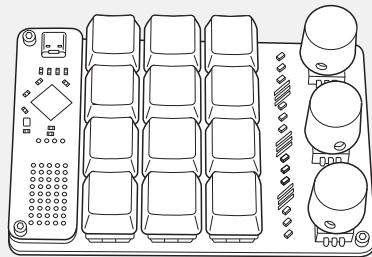
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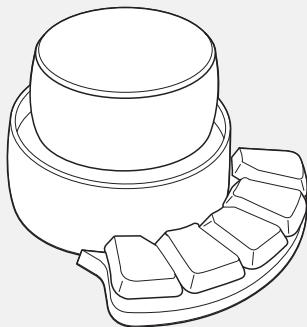


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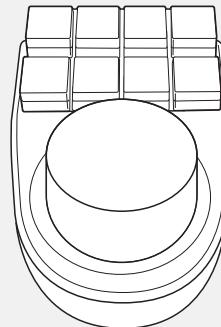


01 Discipad 17-Key numpad, USB-C, through-hole - by coseyfannitutti (*via Github*). 02 Maxmix Open-source sound mixer - by T3knomanzer (*via Printables*). 03 MisteRdeck Arduino-based MIDI stream deck - by MisterR_ofcl (*via Thingiverse*). 04 SPIN 12-Key, 3 encoder, USB-C macro pad - by NicholasJunker (*via Github*).

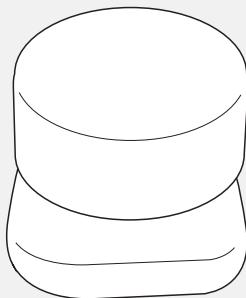
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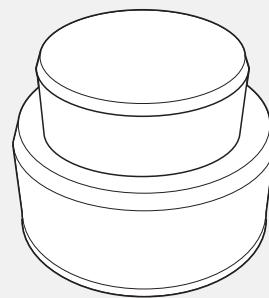
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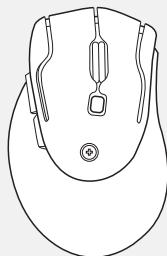
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01 Ahmsville Dial V2 Programmable controller for your PC - by Ahmed Oyenuga (*via Hackster*). 02 Macro Knob 8-Key with knob, Arduino pro micro-based - by TrashBoat (*via Printables*). 03 The Knob Simple USB media controller - by FrankLumien (*via Thingiverse*). 04 Media Control Volume Knob Arduino, clickable media controller - by Mikolas Zuza (*via Printables*).

027 COMPUTING / MICE & TRACKBALLS

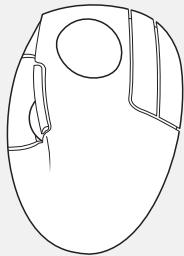
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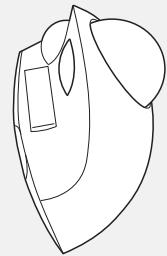
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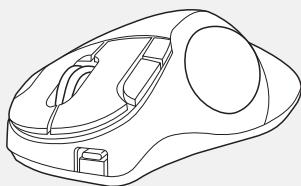
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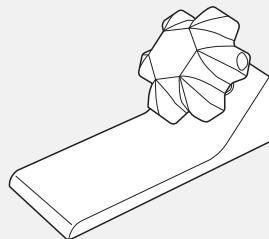
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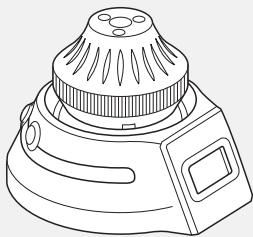


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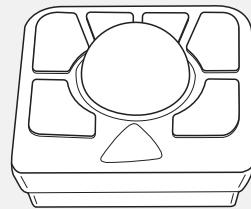


01 **Ploopy Mouse** Customizable mouse that runs QMK - by *Ploopy*. 02 **Ploopy Classic** Classic trackball design, QMK - by *Ploopy*.
03 **Ploopy Mini** Mid-sized trackball design - by *Ploopy*. 04 **Trackball** Seeeduino XIAO-based trackball design - by *Monroe Williams* (*via Github*). 05 **Ploopy Thumb** Ergonomic, thumb-controlled trackball - by *Ploopy*. 06 **Space Mushroom** 6DOF 3D mouse for CAD program input - by *shiura* (*via Instructables*).

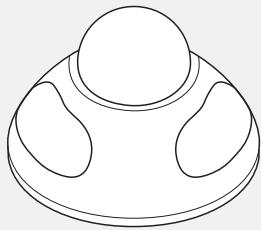
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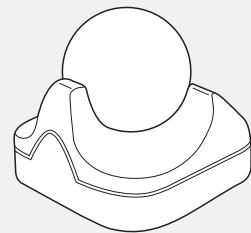
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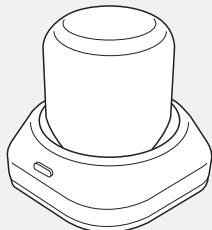
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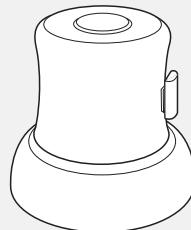
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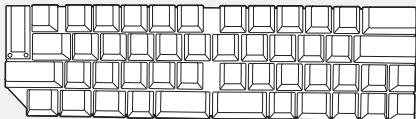
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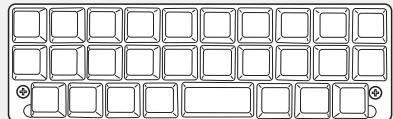
01 **Orbion** Open source 3D space mouse design - by *FaqTotum* (*via Github*). **02** **Ploopy Adept** 12,000 DPI, 1.75" ball, 3D printed - by *Ploopy*. **03** **Trackball 7** Two-button USB trackball mouse design - by *jfedor* (*via Printables*). **04** **Ploopy Nano** Tiny trackball, no button design - by *Ploopy*. **05** **DIY Space Mouse** 3-axis joystick for CAD program input - by *Salim Benbouziyane* (*via Instructables*). **06** **SpaceRat** 5-axis space mouse for CAD programs - by *KikiHobbyRepair* (*via Github*).

029 COMPUTING / KEYBOARDS

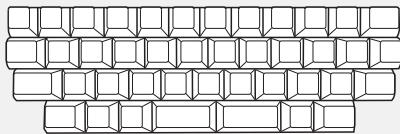
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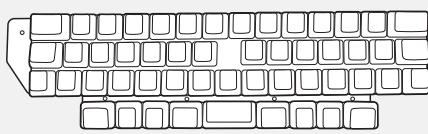
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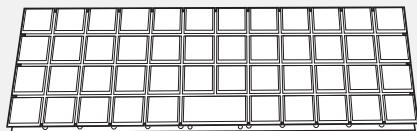


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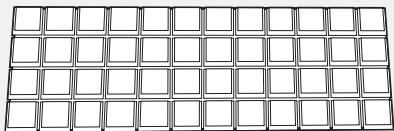


01 **Treadstone48** 48-Key, symmetrical, pro micro - by *marksard* (*via Github*). 02 **Alpha** 28-Key, pro micro, through-hole - by *PyroL* (*via Github*). 03 **Tanuki** 40%, RGB backlight, 3D printed, laser - by *Pim Ostendorf* (*via Github*). 04 **Anhederal** 52-Key, pro micro, symmetrical - by *eswai* (*via Github*).

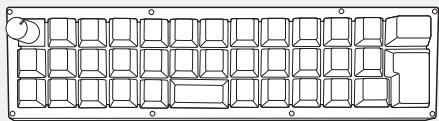
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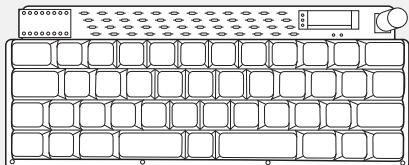
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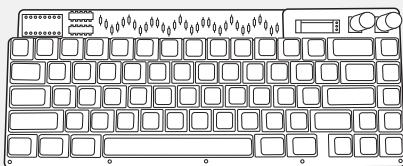
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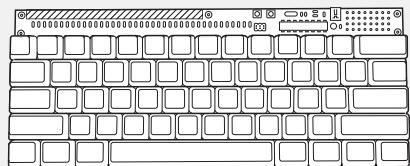
01 Dorsch 40k 40-Key, choc-bar, low-profile - by Radomir Dopieralski (*via Hackaday*). 02 Dorsch 48k 48-Key, choc-bar, low-profile - by Radomir Dopieralski (*via Hackaday*). 03 PRKL30 36-Key, encoder, pro micro, bluetooth - by ErkHal (*via Github*). 04 Litr 40%, OLED, encoder, pro micro - Moses Hoyt (*via Github*).

031 COMPUTING / KEYBOARDS

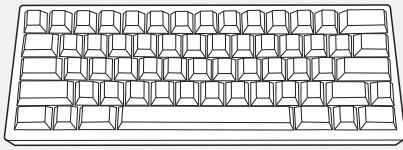
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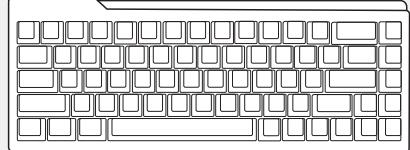
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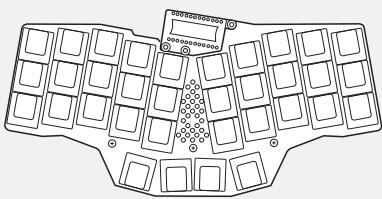


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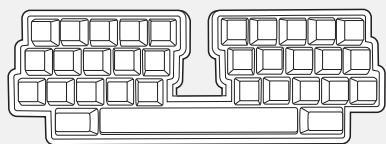


01 Lagom 65%, OLED, encoder, pro micro - by Moses Hoyt (*via Github*). 02 Tartan 60%, atmega328p, through-hole - by Takuuya Urakawa (*via Github*). 03 Bakeneko 60 V3 60%, USB-C, daughterboard, atmega32u4 - by Koichi Katano (*via Github*). 04 SiCK-68 68-Key, 3D printed, teensy, cherry MX - by FedorSosnin (*via Thingiverse*).

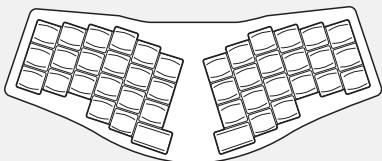
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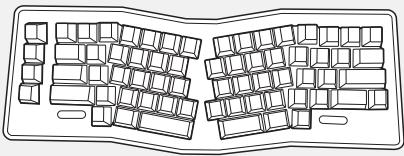
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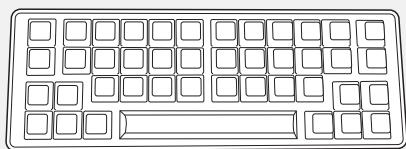
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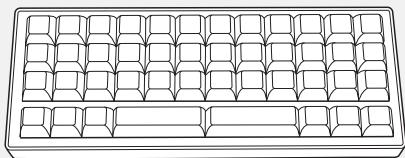
01 Reviung Multiple-sizes, column staggered - by [gtips](#) (*via Github*). 02 ScottoKatana 33-Key, RP2040 / pro micro, cherry MX - by [ScottoKeebs](#). 03 Zerosprey42 42-Key, RP2040, choc switches - by [beekeeb](#) (*via Github*). 04 Bemeier Ergonomic Keyboard 67-Key, USB-C, 3D printed case, laser - by [Bemeier](#) (*via Github*).

033 COMPUTING / KEYBOARDS

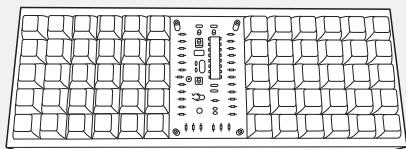
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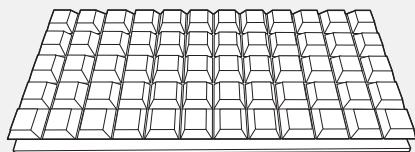
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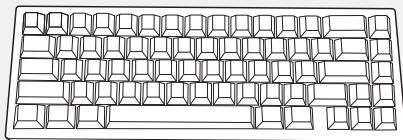


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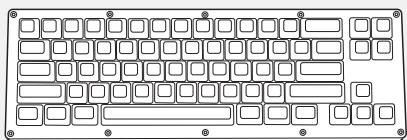


01 **DigDug** 45-Key, symmetrical, Xiao RP2040 - by [weteor](#) (*via Github*). 02 **Froggr** 48-Key, offset bottom row, Xiao RP2040 - by [weteor](#) (*via Github*). 03 **Lumberjack** 60-Key, through-hole, USB-C - by [Paul James](#) (*via Github*). 04 **PouetPouet** 60-Key, USB-C, cherry MX, STM32F072 - by [Marc Poulhiès](#) (*via Github*).

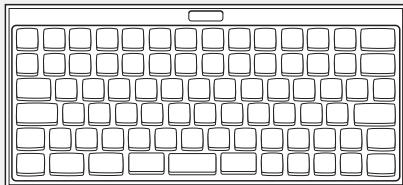
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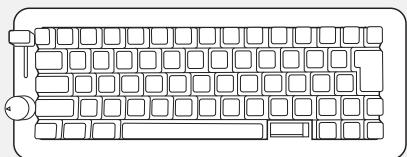
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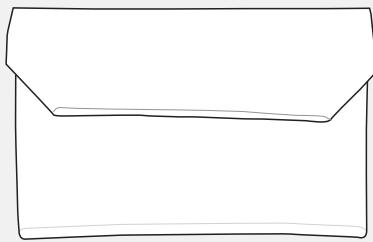
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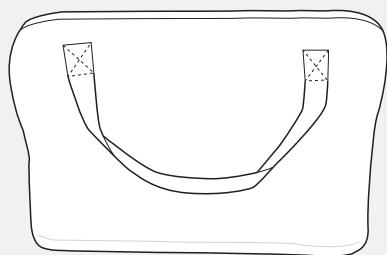
01 **Bakeneko 65 V3** 65%, USB-C, daughterboard, atmega32u4 - by [Koichi Katano](#) (*via Github*). 02 **68 Keys** 68%, alu case, pro micro, cherry - by [Sebastian Müller](#) (*via 68Keys*). 03 **Reform Keyboard 3.0** 80-Key, OLED, CNC case, atmega32U4 - by [Lukas F. Hartmann](#) (*via MNT Research*). 04 **Pheromone** 63-Key, OLED, encoder, slider - by [weimao](#) (*via Github*).

035 COMPUTING / LAPTOP & TABLET CASES

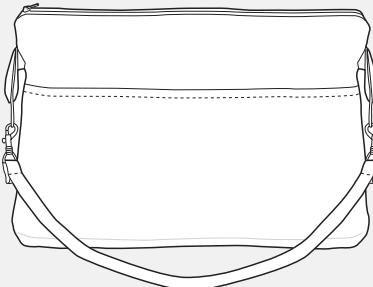
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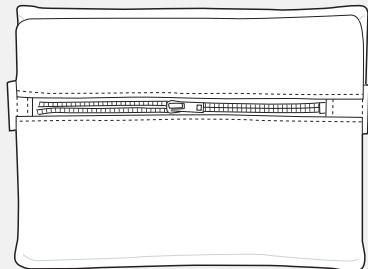
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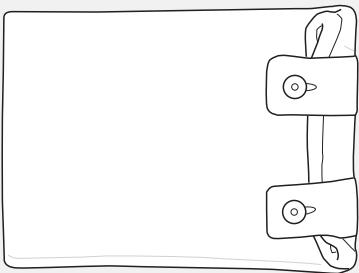


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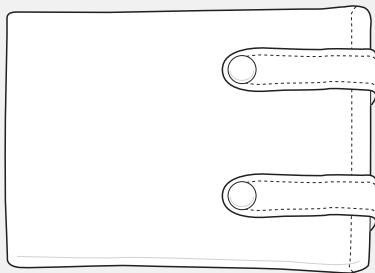


01 Velcro Laptop Sleeve - by Helen Spencer (*via HelloSewing*). 02 Padded Laptop Case - by Fiona Pullen (*via The Sewing Directory*).
03 Laptop Sleeve - by Crazy Little Projects. 04 Wool Tablet Case - by Melissa Mortenson (*via WeAllSew*).

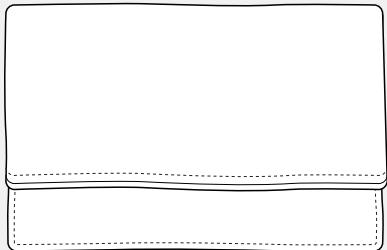
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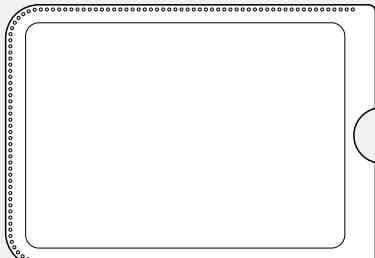
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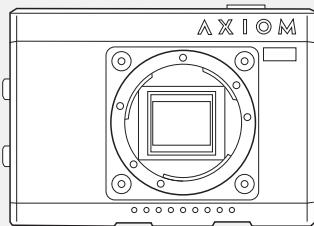
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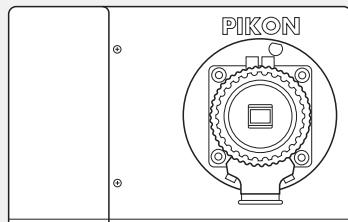
01 Cotton Tablet Case - by Kelly Bryden (via Britt+Co). 02 Kindle/iPad Sleeve - by Lindsay Wilkes (via The Cottage Mama).
03 iPad Sleeve - by Jessica Kelly (via SewCraftyJess). 04 Lasercut Leather Laptop/Tablet Sleeve - by roievil (via Instructables).

037 PHOTOGRAPHY / DIGITAL CAMERAS

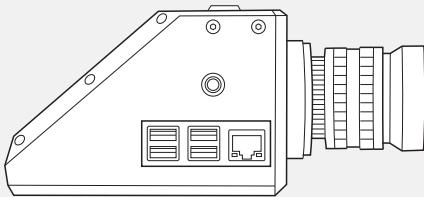
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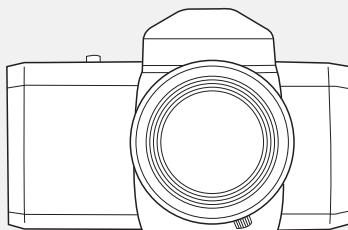
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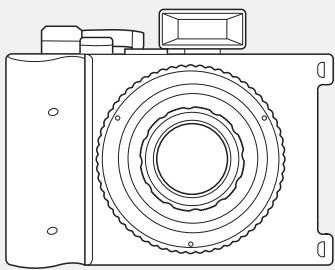


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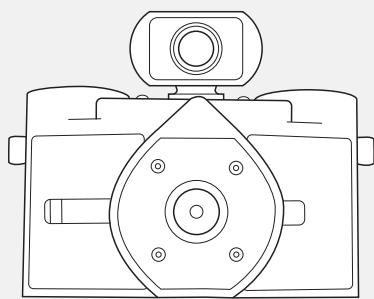


01 AXIOM Professional-level digital cinema camera - by Apertus. 02 PIKON Raspberry Pi 4 based digital camera project - by Kevin McAlister (via Kev's Robots). 03 CinePi V2 Open hardware cinema camera using Raspberry Pi - by Csaba Nagy (via Github). 04 RUHAcam 3D-printable retro-style Raspberry Pi camera - by Penk Chen.

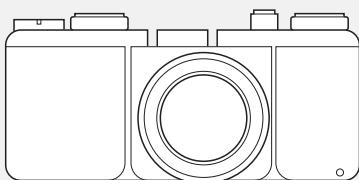
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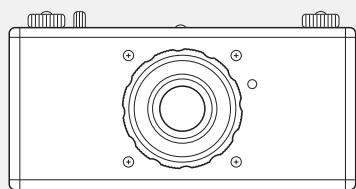
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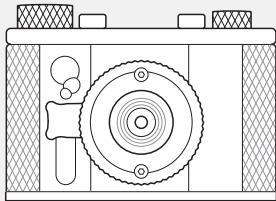
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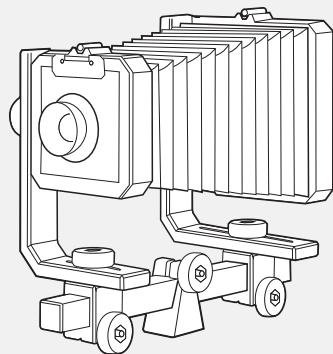
01 Cameradactyl Brancopan Panoramic 35mm cam. Mamiya lens compatible - by CAMERADACTYL. 02 Scura 35mm pinhole camera with a curved back design - by Dora Goodman Cameras. 03 SLO 35mm camera with 3D-printed resin lens - by Amos Dudley. 04 35mm Film Camera Nikon F mount lens compatible 35mm camera - by TheAlbinoGiraffe (via Printables).

039 PHOTOGRAPHY / FILM CAMERAS

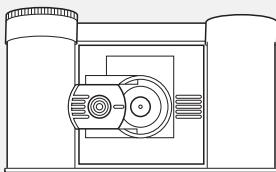
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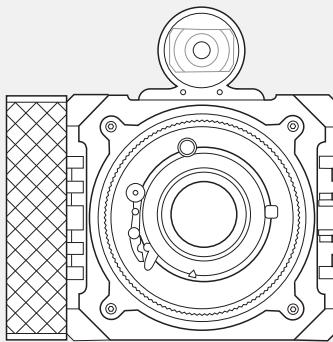
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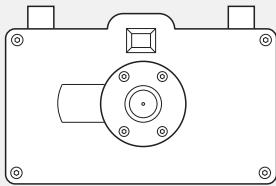
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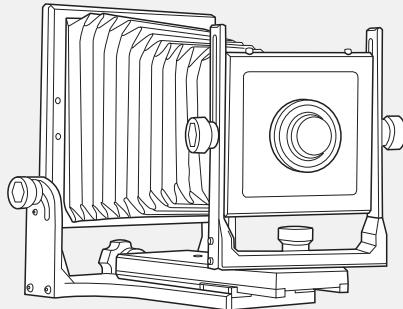


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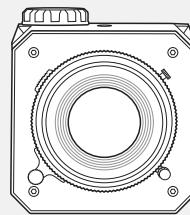


01 **terraPin Bijou** 6 x 4.5 vertical format in a proper 4:3 ratio - by *Todd Schlemmer* (*via Thingiverse*). 02 **Vega View Camera** Printable 4x5 view large format camera - by *Vegotype* (*via Printables*). 03 **PiCa135** 35mm pinhole camera with shift capabilities - by *Spotmatic* (*via Printables*). 04 **Goodman Zone** Lightweight & durable medium format film camera - by *Dora Goodman Cameras*. 05 **Pinhole Camera Easy to make** 35mm 3D-printed pinhole camera - by *Quentin Orhant* (*via Thingiverse*).

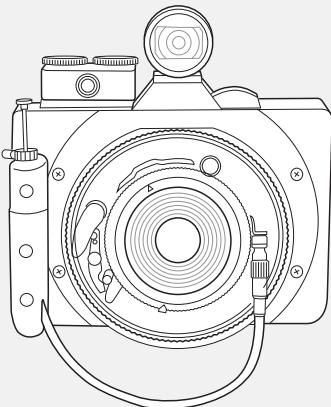
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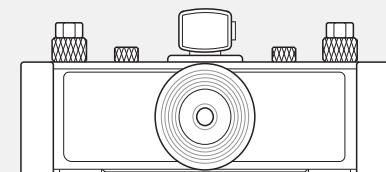
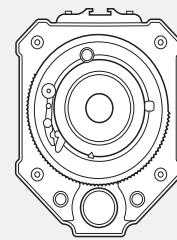
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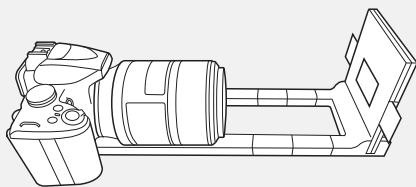
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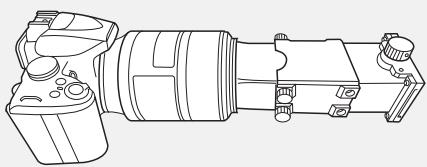
01 Large Format Camera 3D-Printed 4x5 modular large format camera - by Kevin Valverde (*via Printables*). 02 Medium Format Cam V2 Medium format camera for Mamiya Press lenses - by Javier Fernández (*via Printables*). 03 O.Zone 6X9 3D-printed medium format film camera - by OJR0215 (*via Cults3D*). 04 Goodman One Designed around the Mamiya MF Press lens - by Dora Goodman Cameras. 05 Open Panoramic Camera Panoramic 120 cameras, 6x12, 6x17 and 6x24 - by Velvia (*via Printables*).

041 PHOTOGRAPHY / FILM CAMERAS

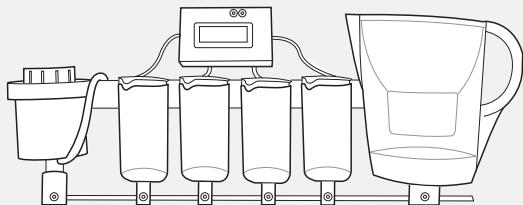
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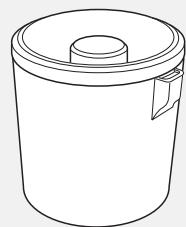
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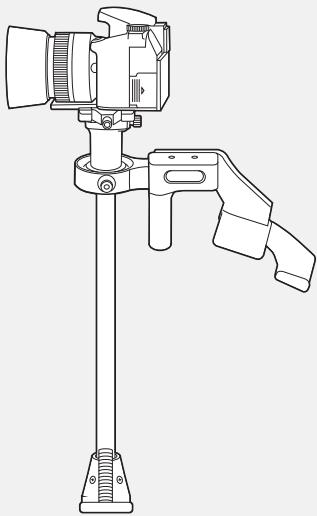


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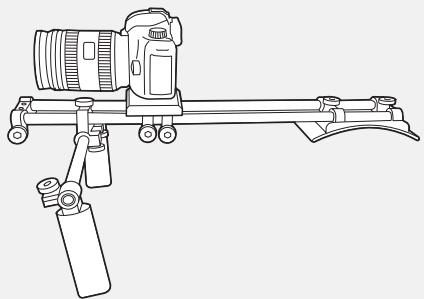


01 Negative Scanning Rig DSLR 35mm film negative scanner - by Emil Hallengren (*via Thingiverse*). **02 35mm Film Scanner** Quickly digitize large quantities of 35mm film - by FruiteX (*via Printables*). **03 OpenAutoLab** Open-source automatic film development machine - by Kauzerel (*via Github.io*). **04 Development Tank** Fits one roll of 35mm film- by MaciaIT (*via Printables*).

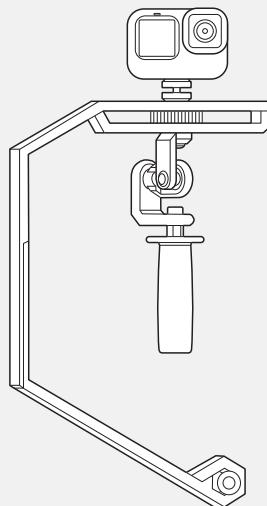
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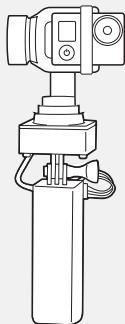
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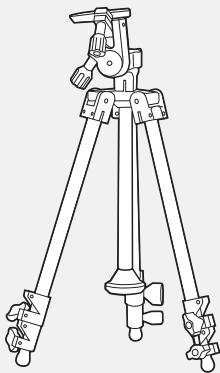
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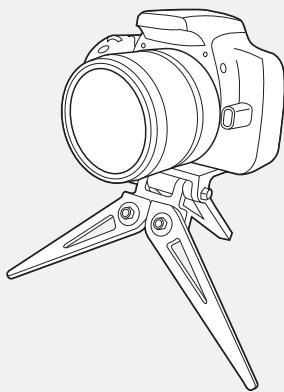
01 Gimbal Stabilizer Balances DSLRs for cinematography - by Empiricus (*via Printables*). **02 DSLR Shoulder Rig** Stabilizes DSLR cameras - by Thomas Flummer (*via Thingiverse*). **03 Steadycam DYS V2** Motorized steadycam designed for action cameras - by Sébastien Laporte (*via Thingiverse*). **04 Steadycam** Designed for action cameras - by Michal Fanta (*via Printables*).

043 PHOTOGRAPHY / RIGS & TRIPODS

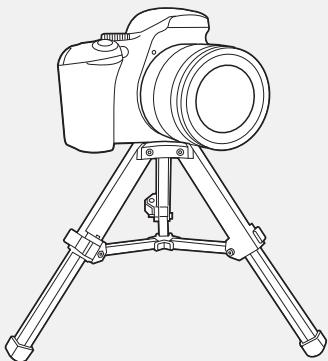
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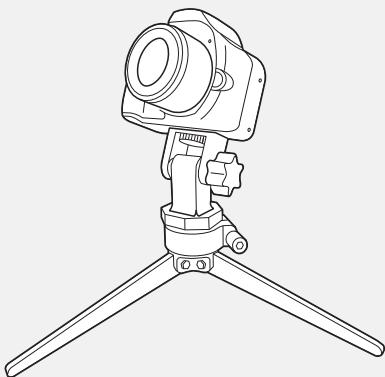
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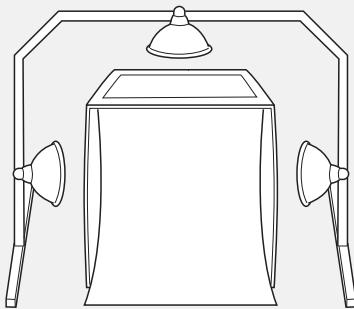


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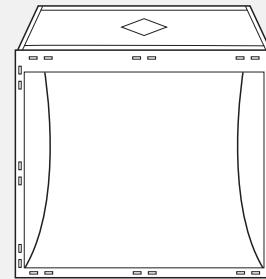


01 3D Printed Tripod Simple functional tripod with a max 1.3m height - by [LytoGraphum \(via Printables\)](#). **02 Compact Tripod** Foldable design fits compact and DSLR cameras - by [Kernel770 \(via Thingiverse\)](#). **03 Mini Tripod** Foldable telescopic snap lock camera mini tripod - by [Lukes3D \(via Printables\)](#). **04 Mini Tripod** For DSLR and digital cameras- by [Javi \(via Printables\)](#).

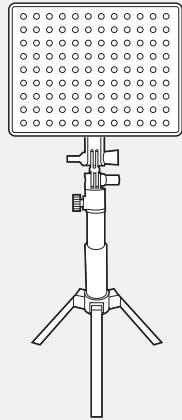
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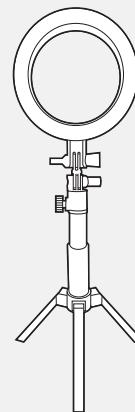
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01 Photography Light Box Cardboard light box with 100 watt bulb frame - *by Tekjock (via Instructables)*. **02 Plywood Light Box** Laser cut light box incorporating LED lighting - *by Nicole Fodale*. **03 LED Panel** Compact DIY LED panel, printed as one piece - *by Basement Creations (via Printables)*. **04 Ring Light** Professional ring light w/ tripod - *by Rokysen (via Printables)*.

045 MUSIC & AUDIO / HEADPHONES

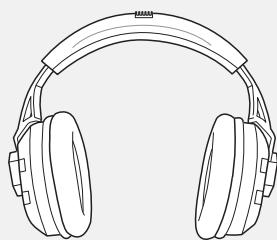
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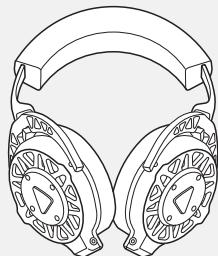
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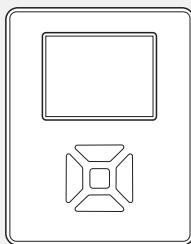


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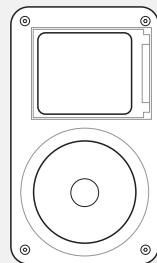


01 Homebrew Wired headphones. 2.5mm Jacks - by [Shannon Ley](#) (*via Homebrew Headphones*). 02 Armadillo Foldable wired phones - by [Tony Larsson](#) (*via deDesigned*). 03 EQ-1 Headphones with adjustable headband - by [Chris Caswell](#) (*via Thingiverse*). 04 Shadowcraft Over-ear wireless headphones - by [Shadowcraft Designs](#) (*via Printables*). 05 Ploopy Headphones with Pico powered amp/DAC - by [Ploopy Co](#) (*via Github*). 06 Beats Bluetooth headphones w/ rechargeable batteries - by [ElectroNoobs](#).

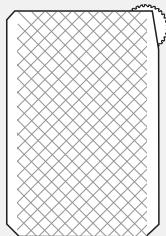
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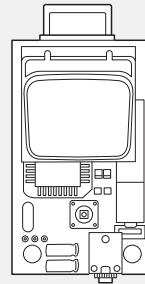
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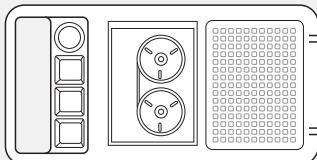
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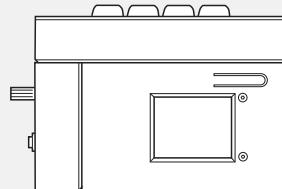
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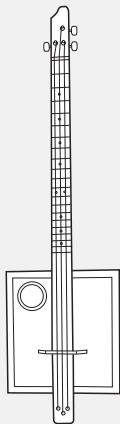
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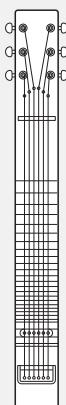
01 PiPod Raspberry Pi zero-powered portable music player - by Bram Rausch (*via Hackaday*). **02 Tangara** iPod-style DIY portable music player - by Cool Tech Zone (*via sourcehut*). **03 Bumpy** Features similar to an iPod shuffle - by Matt Keeter. **04 EchoMP3** Low power MP3 player. SD card storage - by Michel Bavin (*via TechDesign*). **05 Retro Audio Player** Cassette style MP3 player - by Max Kern (*via Hackaday*). **06 Walkperson** Made with Adafruit components - by Adafruit Industries (*via Printables*).

047 MUSIC & AUDIO / STRING INSTRUMENTS

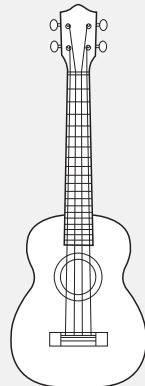
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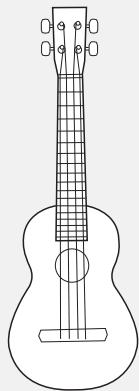
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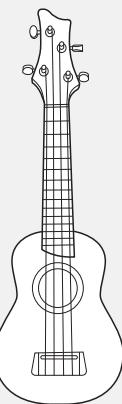
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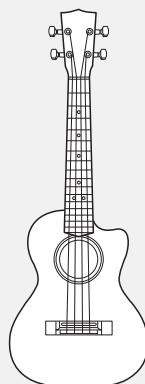
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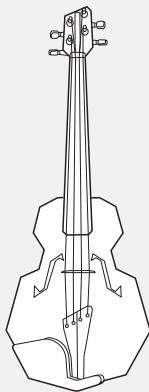


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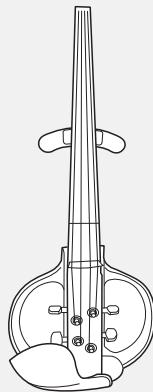


01 **Cigar Box Guitar** 3-string cigar box guitar plans - by Ben Baker (*via Cigar Box Nation*). 02 **Lap Guitar** Using a standard piece of 2x4 - by Shane Speal (*via Cigar Box Nation*). 03 **Ukelele** Detailed woodworking guide - by Matthias Wandel (*via WoodGears*). 04 **Concert Ukelele** Plastic concert ukelele - by Science_Envisions (*via Printables*). 05 **Soprano Ukulele** Printable soprano ukulele - by Nikola_F (*via Printables*). 06 **Tenor Ukulele** Guide for making a wood ukulele - by F_A_B_A_S (*via Instructables*).

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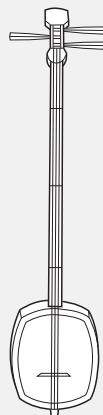
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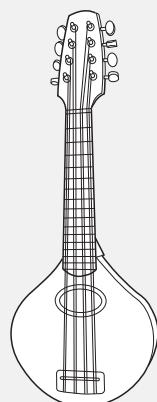
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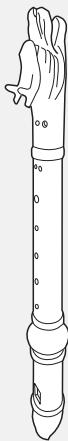
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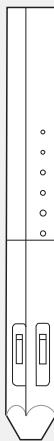
01 Modular Fiddle Four string modular violin design - by David Perry (*via Printables*). **02 EViolin** Electric violin using classic parts - by Stepan Ignatovich (*via Thingiverse*). **03 F-F-Fiddle** The original 3D-printed violin - by David Perry (*via OpenFab PDX*). **04 Hovalin** Functional acoustic violin design - by HovaLabs. **05 Shamisen** Fully playable 1:1 japanese shamisen - by Dusanius (*via Printables*). **06 Mandolin** Eight steel string mandolin with a 13.5" scale - by LoboCNC (*via Printables*).

049 MUSIC & AUDIO / WIND INSTRUMENTS

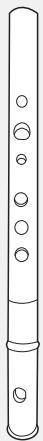
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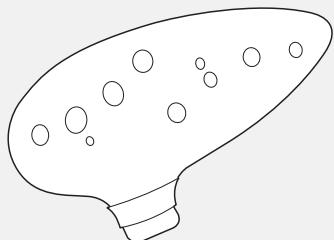
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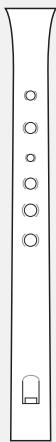


05



01 Dragon Recorder Playable dragon-themed recorder/flute design - by [P1lotz](#) (*via Printables*). **02 Double Flute** 3D-printable double native american flute F# - by [Ivan Gri](#) (*via Printables*). **03 Folk Flute** Design available in tenor, alto, and soprano - by [Paul Harrison](#) (*via Thingiverse*). **04 Kazoo** Functional kazoo, requires membrane plastic - by [PistonPin](#) (*via Printables*). **05 Ocarina** 12-hole playable ocarina with a stand - by [Mikolas Zuza](#) (*via Printables*).

01



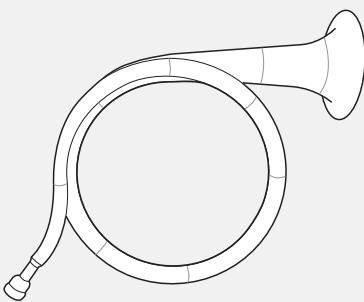
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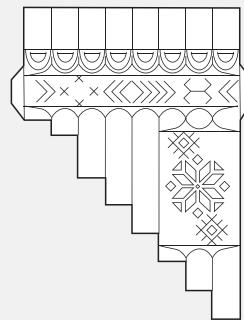
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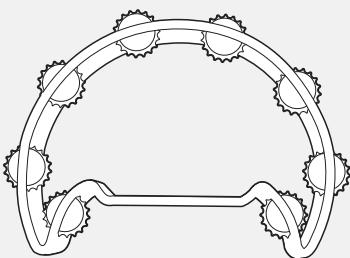
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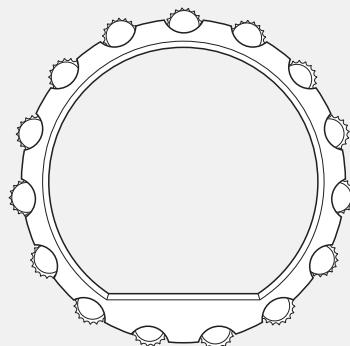
01 Folk Whistle In sopranino, soprano, alto and tenor sizes - by Paul Harrison (*via Thingiverse*). **02 Transverse Flute** A transverse flute designed for the key of C - by ORM (*via Printables*). **03 Recorder V3** Recorder flute with soprano and alto tunings - by lysithea81 (*via Printables*). **04 Horn** Simple 3D-printable trumpet/horn design - by Robo (*via Thingiverse*). **05 Pan Flute** 3D-printable pan flute (aka panpipes) - by DP Makes (*via Printables*).

051 MUSIC & AUDIO / PERCUSSION INSTRUMENTS

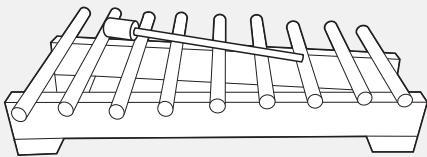
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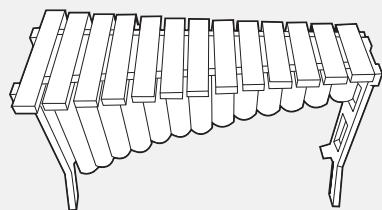
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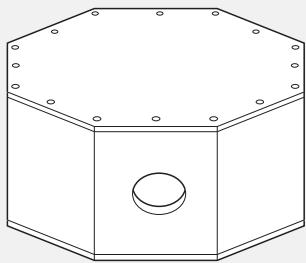


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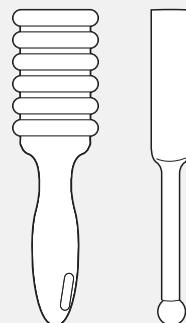


01 **Beer Tambourine** Utilizes beer bottle caps - by RostaP (*via Printables*). 02 **Tam'beer'ine** Another tambourine design that uses bottle caps - by Kyle Kreutz (*via Thingiverse*). 03 **Glockenspiel** Built using copper pipes - by arpruss (*via Instructables*). 04 **Mini Marimba** 13 Bar tuneable design, similar to a xylophone - by Equals Engineering (*via Thingiverse*).

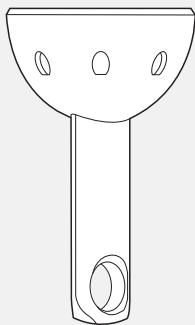
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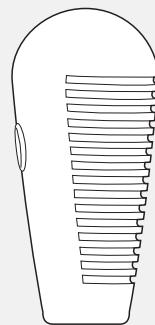
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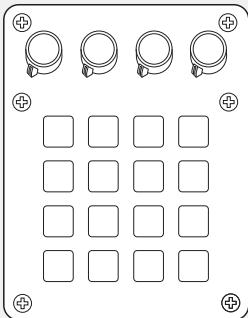
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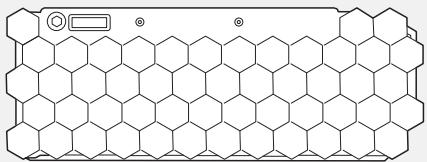
01 Cajon Snare Drum How to build a wood snare drum / cajon snare - by Johnny Brooke (*via Crafted Workshop*). **02 Guriro** Latin American scraping instrument (with stick) - by Corben (*via Instructables*). **03 Maracas** Print-in-place design with 16 internal beads - by Triple G Workshop (*via Printables*). **04 Guiro** Alternate design guiro scraping instrument - by craeen (*via Instructables*).

053 MUSIC & AUDIO / MIDI CONTROLLERS

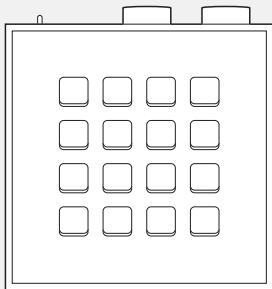
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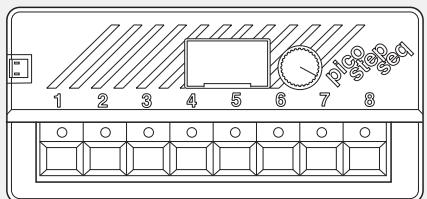
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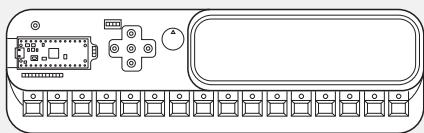


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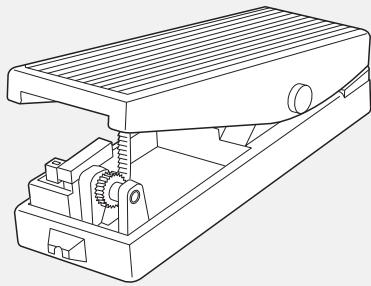


01 **Mini UNTztrument** MIDI controller works with ios & analog synths - by Ruiz Brothers (*via Adafruit*). 02 **0x33.board** 48-Key isomorphic MIDI key controller - by Sol Bekic (*via hw.s-ol.nu*). 03 **Sugarcube** Arduino-powered tactile music controller - by Amanda Ghassaei (*via Instructables*). 04 **PicoStepSeq** 8-step MIDI sequencer using a Raspberry Pi Pico - by Tod Kurt (*via Github*).

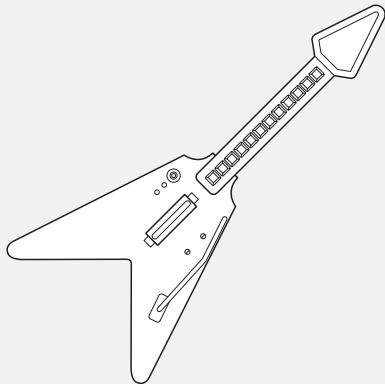
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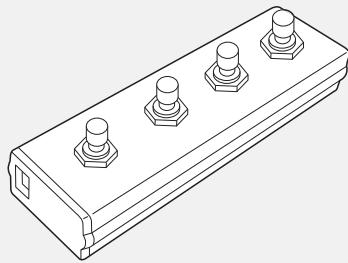
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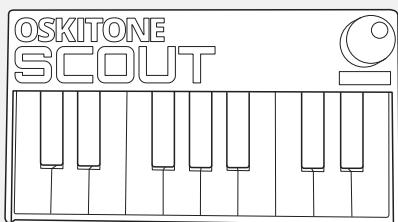
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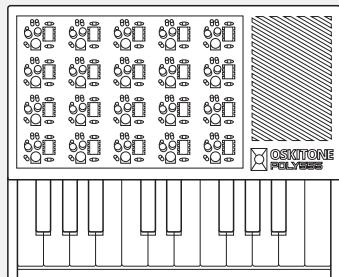
01 TR-Cowbell Raspberry Pi Pico 16-step MIDI sequencer - by *TreasureDev* (*via Printables*). 02 Expression Pedal Arduino powered. Uses potentiometer and button - by *Gustavo Leite Lopes* (*via Thingiverse*). 03 MX MIDI Guitar Hero inspired MIDI controller - by *Ruiz Brothers* (*via Adafruit*). 04 MIDIPedalBox USB pedal powered by CircuitPython - by *Tod Kurt* (*via Github*).

055 MUSIC & AUDIO / SYNTHESIZERS

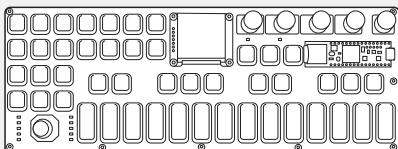
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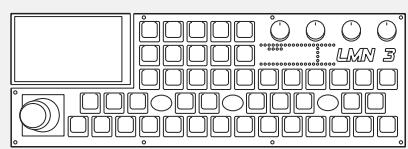
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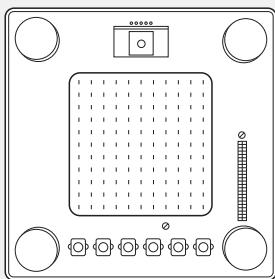


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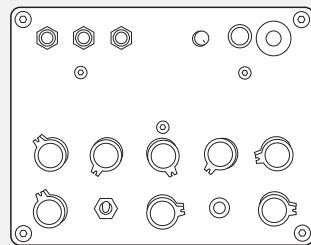


01 Scout Synth Arduino-compatible 17-key mono synth - by oskitone (*via Printables*). 02 POLY555 Synth Polyphonic instrument made from 555 timers - by oskitone (*via Printables*). 03 Portable Synth OP-1 inspired groovebox based around Teensy 4.1 - by Prajwal Tumkur Mahesh (*via Github*). 04 LMN-3 DAW-in-a-box with synth functions - by FundamentalFrequency (*via Github*).

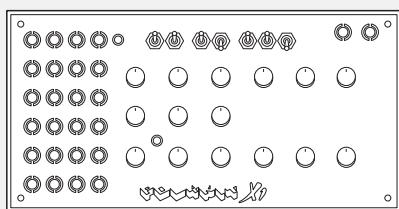
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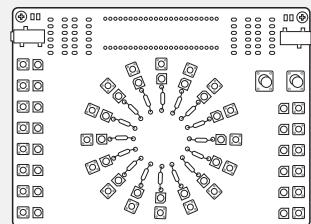
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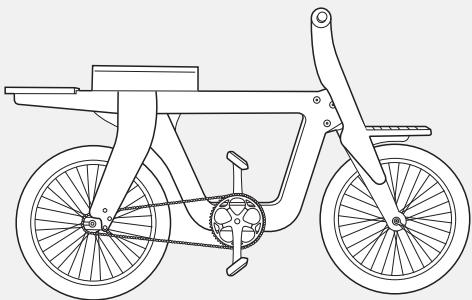


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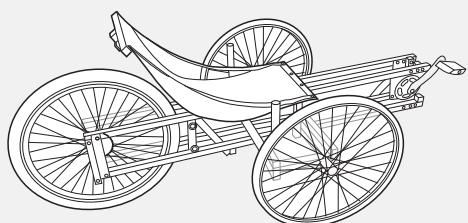


01 Open NSynth Super Experimental interface for the NSynth algorithm - by Google Creative Lab (*via Github*). **02** Lil Mono Synth Simple east coast style analog synthesizer - by diysynth (*via Github*). **03** Polykit X1 DIY semi-modular, analog, patchable synthesizer - by Polykit (*via Github*). **04** Polaron DIY drum machine for the teensy microcontroller - by zueblin (*via Github*)

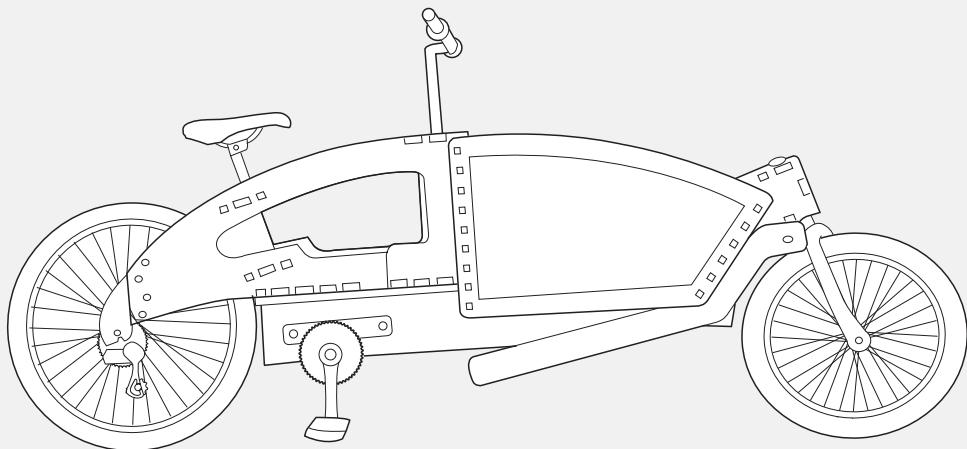
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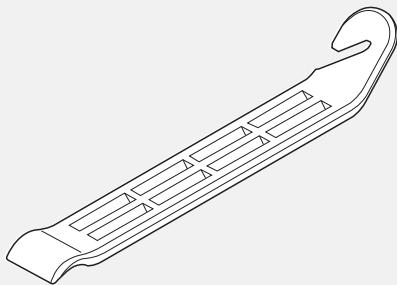


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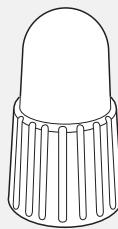


01 OpenBike Open hardware bicycle design made from plywood - by Arquimáñez (via OpenBike). 02 XYZ OneSeater Aluminium framed recumbent bike. Simple construction - by N55 with Till Wolfer. 03 Wik-E-Cargo Bike Cargo bike design with large storage space in front - by Aaron Moore (via CNC Craft).

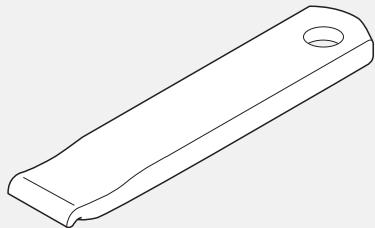
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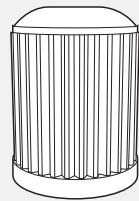
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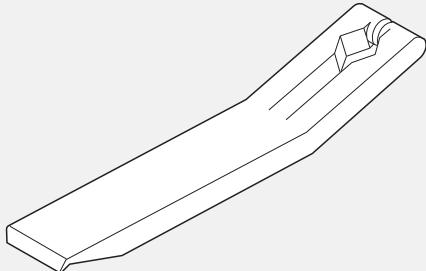
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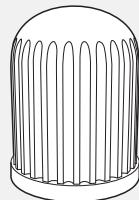
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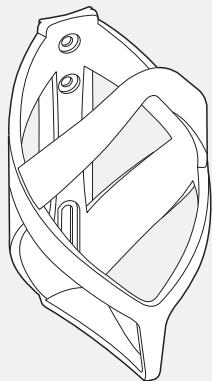
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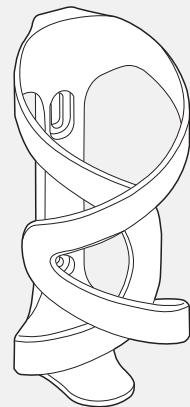
01 Tire Lever by [djedje_zr7](#) (*via Printables*). 02 Presta Valve Cap by [PouOu](#) (*via Printables*). 03 Tire Lever by [cmh](#) (*via Printables*). 04 Schrader Valve Cap by [pastaoceanfrog](#) (*via Printables*). 05 Tire Lever by [Piotr Zbierajewski](#) (*via Printables*). 06 Schrader Valve Cap by [Arrow_Raider](#) (*via Printables*).

059 CYCLING / BOTTLE CAGES & LOCK MOUNTS

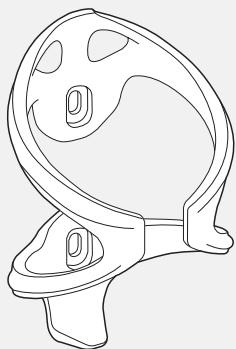
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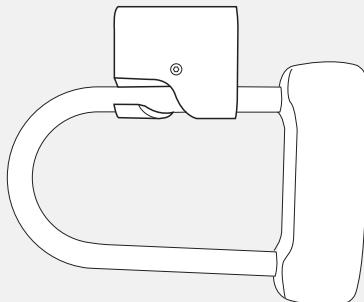
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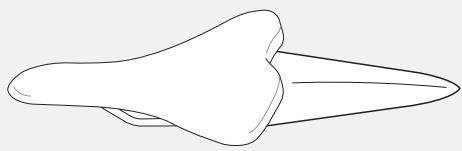


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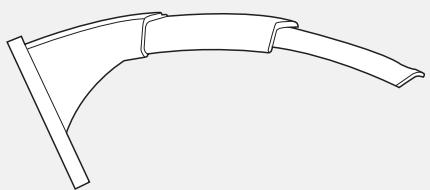


01 Bottle Cage (Frame Mount) - by Josef Franc (via Printables). 02 Universal Bottle Cage (Frame Mount) - by strshp (via Printables). 03 Bottle Cage (Frame Mount) - by Franc Falco (via Thingiverse). 04 Universal U-Lock Mount - by gandalf (via Printables)

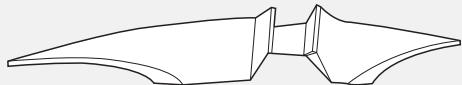
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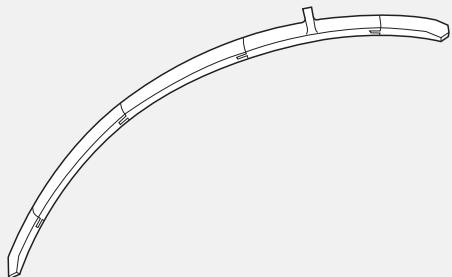
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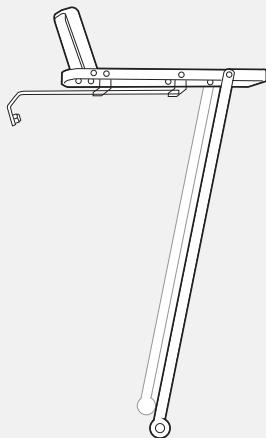
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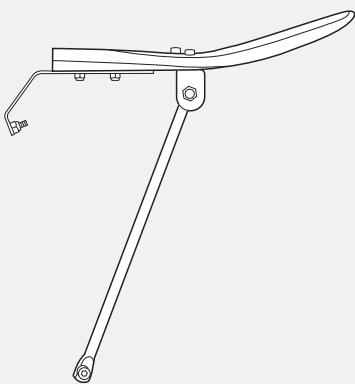
01 Ass Saver Mudguard - by fgebhart (via Printables). 02 Telescopic Mudguard - by Marco Bellucci (via Thingiverse).
03 Mountain Bike Mudguard - by Julian Goulding (via Thingiverse). 04 Racing Bike Mudguard - by Mitra Smit (via Thingiverse).

061 CYCLING / CARGO RACKS & MOUNTS

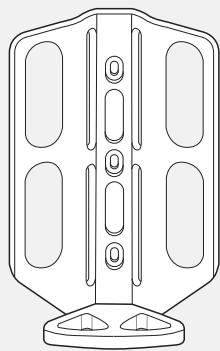
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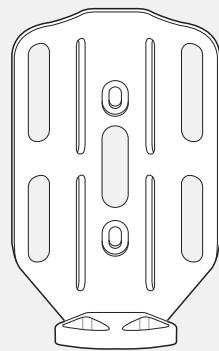
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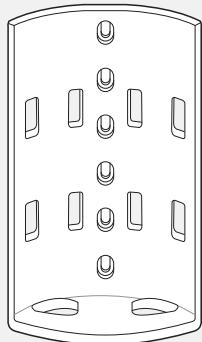


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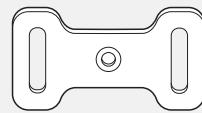


01 Front Rack Simple metal front rack design. Easy to replicate - by [Gary's Projects](#) (*via BikePacking*). **02 Deck Front Rack** Use an old skateboard deck to carry cargo - by [Dan Stranahan](#) (*via BikePacking*). **03 Cargo Rack** Can be mounted anywhere on a bike - by [Jake P](#) (*via Thingiverse*). **04 Anything Rack** Universal rack attaches to both frame and forks - by [JWP763](#) (*via Printables*).

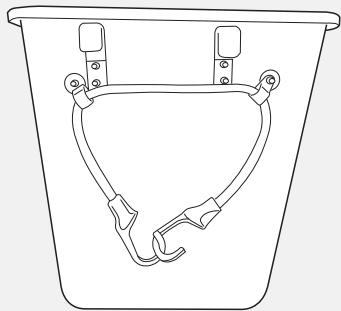
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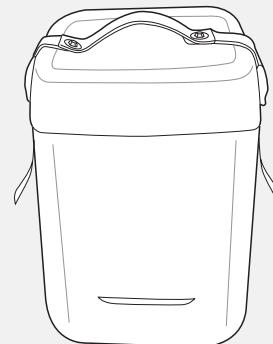
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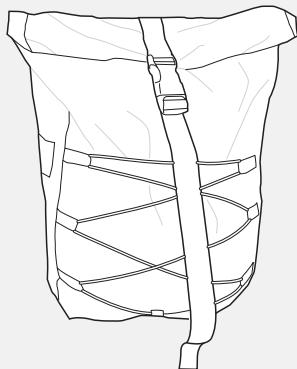
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01 **Cargo Cage** For bikes with 3 bolt type mounts - by scycotic (*via Thingiverse*). 02 **Bikepacking Tie Anchor** Simple way to strap light cargo to bicycle - by SparkCapacitor (*via Thingiverse*). 03 **Hard Shell Panniers** Inexpensive panniers made using plastic buckets - by m@Robertson (*via Tales on Two Wheels*). 04 **Canniers** Hard shell panniers made from plastic cans - by rackhackers.

063 CYCLING / PANNIERS & BAGS

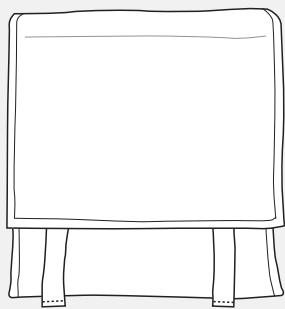
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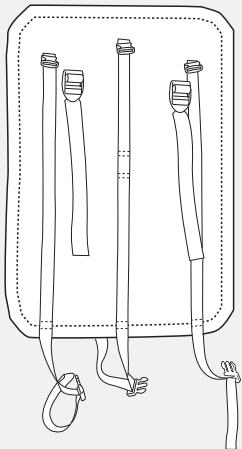


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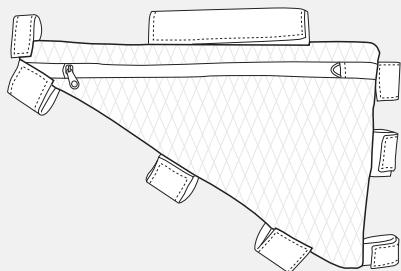


01 15L Pannier Roll top closure and compression straps - by Prickly Gorse (*via* MYOG Tutorials). 02 Bike Pannier Another pannier project. Requires sewing machine - by Paul Long (*via* Instructables). 03 Bicycle Pannier Old style pannier design. Fits over rear rack - by M Joy. 04 Stem Bag Small bag design, attaches to the handlebar stem - by Neza Peterca (*via* BikePacking).

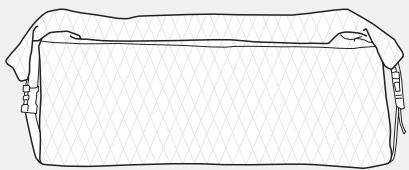
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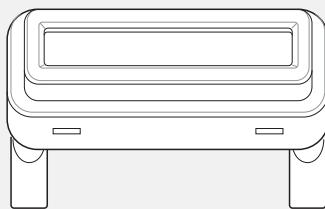
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01 Handlebar Bag Rollbag design that attaches to the handlebars - by *Sparetime Adventure*. **02 Frame Bag** Bag design that attaches inside the frame - by *Logan Watts* (*via BikePacking*). **03 Rack Top Bag** Bag that sits on top of rear rack - by *Prickly Gorse* (*via MYOG Tutorials*). **04 Speedometer** Arduino-powered speedometer using hall sensors - by *AngelR* (*via Printables*).

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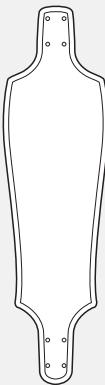
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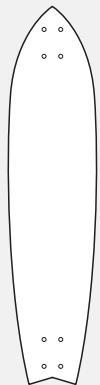
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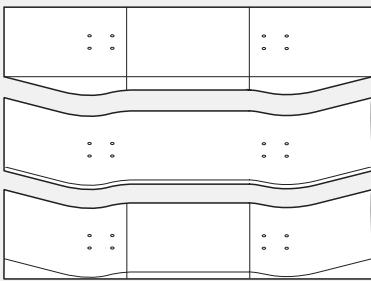


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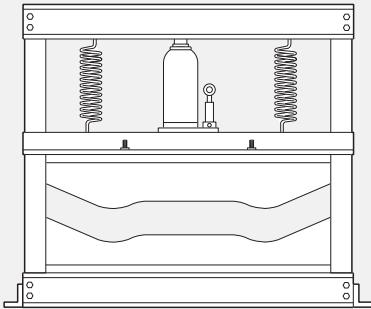


01 Blackbelt Longboard 3D-printable board using belt 3D printer - by Stephan Sch (via Thingiverse). **02** Penny Skateboard Small cruiser skateboard - by dagoma3D (via Thingiverse). **03** Land Minnow 23-inch smaller cruiser - by John21 (via Thingiverse). **04** Cruiser 36-inch cruiser design w/ kick tail - by Made by Marzipan. **05** Classic Longboard Birchwood longboard project - by Syed Hemu Rahman (via Shaping Elements). **06** Fishtail Board Surf style longboard - by Tamar Hannah (via 3x3 Custom).

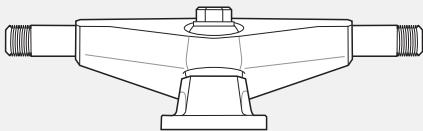
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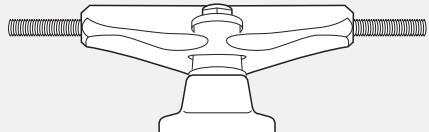
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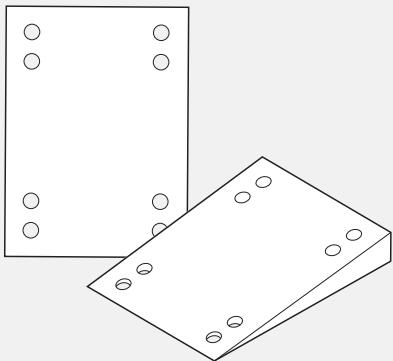
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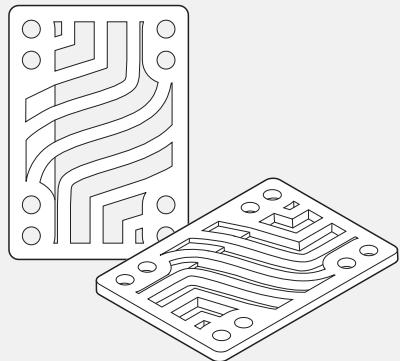
01 Deck Mold 3D-printable skate deck mold that screws together - by Chris McCann (*via Good Roads Collective*). 02 Bottle Jack Press Skateboard press that makes custom shaped wooden decks - by DIY Skate. 03 Modjul Trucks 3D-printable skateboard truck design - by Josh Wagner (*via Thingiverse*). 04 Skateboard Trucks 3D-printable skateboard truck design - by Daniel Norée.

067 SKATEBOARDING / RISERS & BUSHINGS

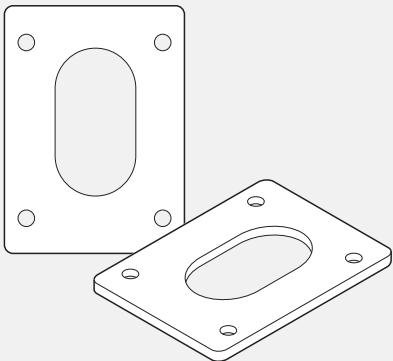
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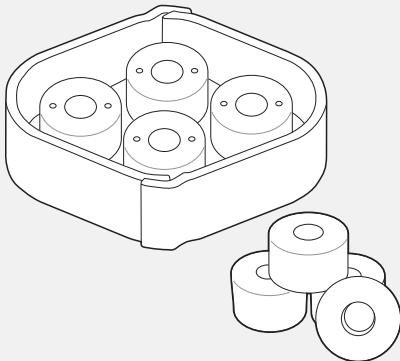
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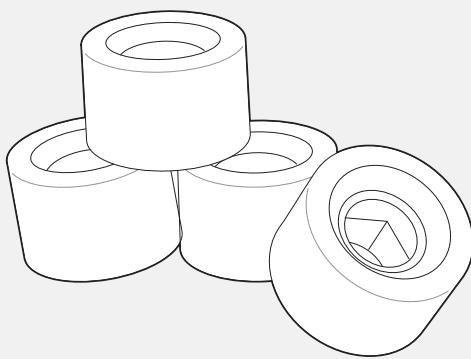
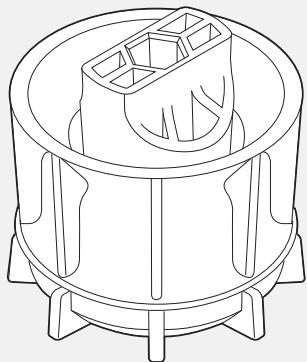


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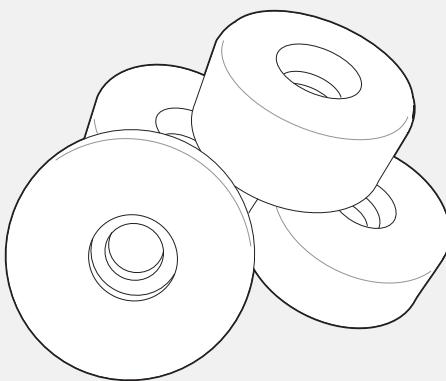
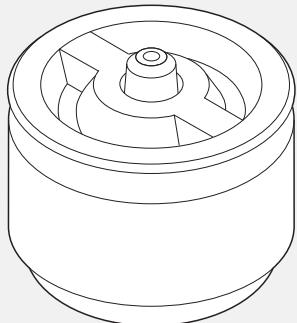


01 Truck Wedge Longboard truck wedge to customize turning circle - by David Farmer (*via Thingiverse*). **02 Riser Pad** Fits both skateboards & longboards. Multiple sizes - by Thingster (*via Printables*). **03 Riser Pad** 1/8-inch skateboard riser pads - by Daniel Zaleski (*via Printables*). **04 Bushing Kit** Urethane bushings using 3D-printed molds - by Chris McCann (*via Good Roads Collective*).

01

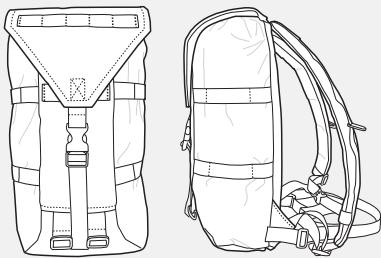


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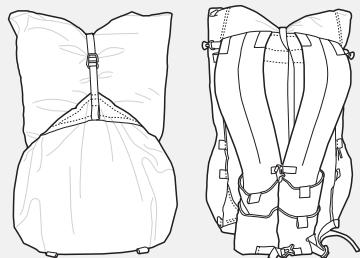


01 Cored Urethane Wheels 3D-printed mold for creating cored urethane wheels - by Chris McCann (via Good Roads Collective).
02 Coreless Urethane Wheels 3D-printed mold for creating coreless urethane wheels - by Chris McCann (via Good Roads Collective).

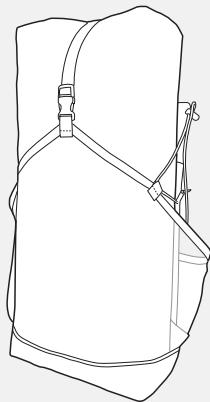
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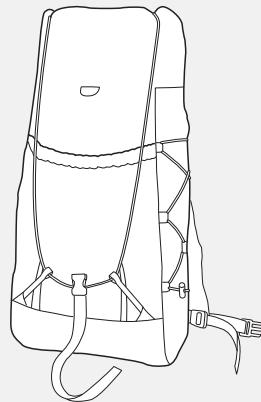
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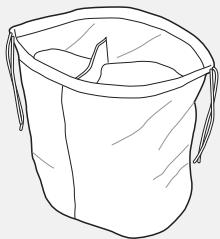


04



01 BC12 Backpack Bushcraft 12L. Heavy fabric & webbing - by Anders Jonsson. 02 Ultralight Backpack Lightweight 40L backpack. Multiple pockets - by TwoFoolsWalking (via Youtube). 03 Stitchback EZ Backpack design based around a large drysack - by Drew Soderborg (via Stitchback Gear). 04 LAB Pack 30L pack for sub multi-day trips - by Rodney Liwanag (via Thru Hiker).

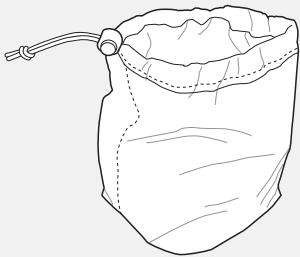
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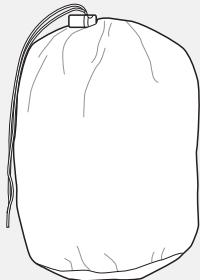
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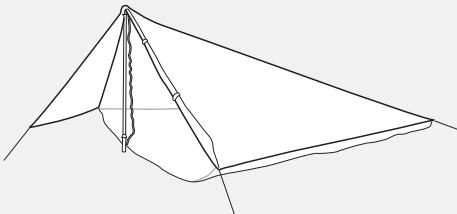


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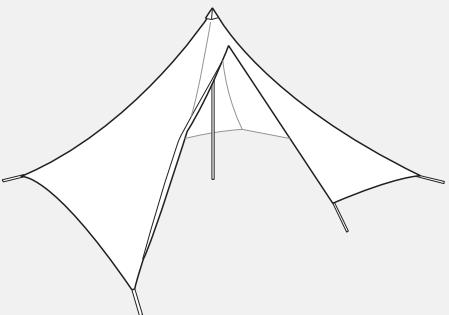


01 Gasket Bags - by Anders Jonsson. 02 Roll Top Stuff Sack - by David Helbig (via BikePacking). 03 Stuff Sack - by Backcountry Banter (via Youtube). 04 Roll Top Stuff Sack - by Jason Outdoors (via Youtube). 05 Stuff Sack Generator - by LearnMYOG. 06 Silnylon Stuff Sack - by Thru-hiker.

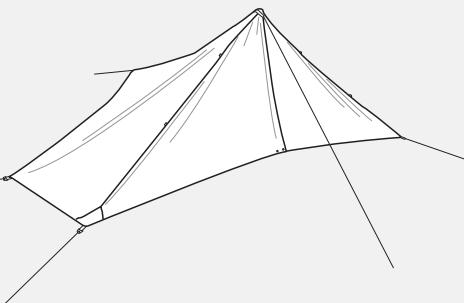
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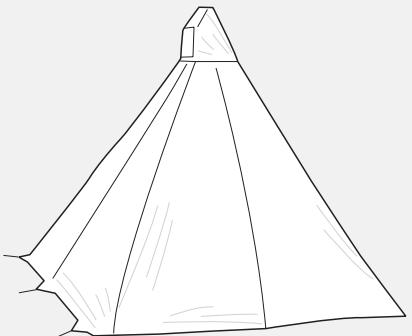
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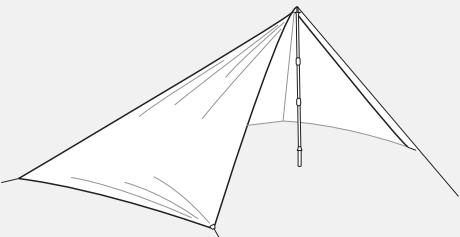
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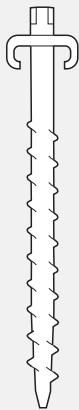


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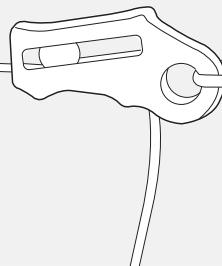


01 Jones Tent II How to make a two person tarp tent - by Phil Jones (*via Backpacking.net*). 02 Pyramid Tent Lightweight pyramid tarp tent. Weighs 655g packed - by Andrew Bishop (*via Trails and Tracks*). 03 YAFT V1.3 Yet Another Flat Tarp tutorial. Requires pole - by pto892 (*via Reddit*). 04 Pyramid Tent Larger multiperson pyramid tent design - by Anders Jonsson. 06 Stitchback HPT Ultralight tarp shelter that uses a trekking pole - by Drew Soderborg (*via Stitchback Gear*).

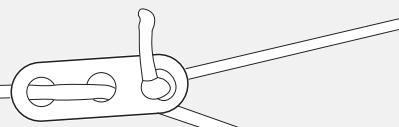
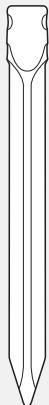
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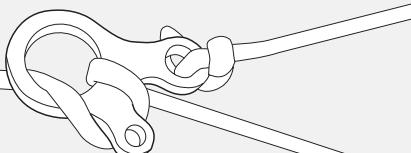
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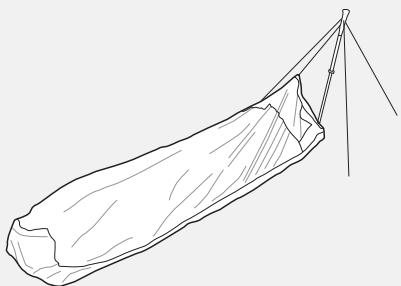
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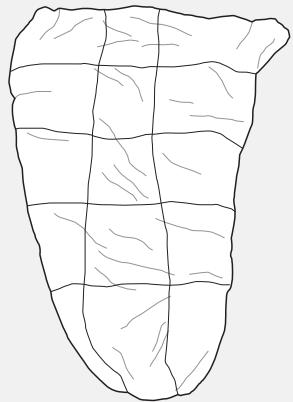
01 Printable Tent Peg - by FirstGizmo (via Printables). 02 Locking Rope Tensioner - by FirstGizmo (via Printables). 03 Printable Tent Stake - by MisterTech (via Thingiverse). 04 Printable Rope Tensioner - by Ty10y (via Printables). 05 Printable Rope Tensioner - by Ty10y (via Printables).

073 HIKING & CAMPING / SLEEPING

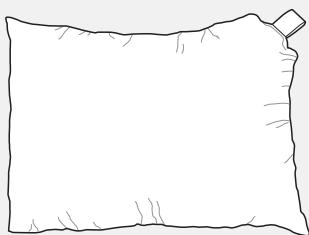
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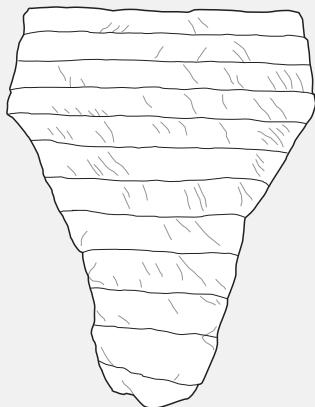
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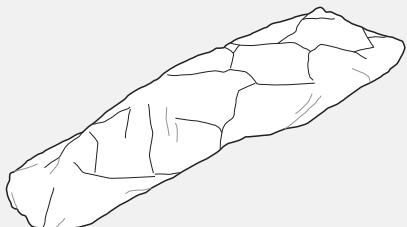
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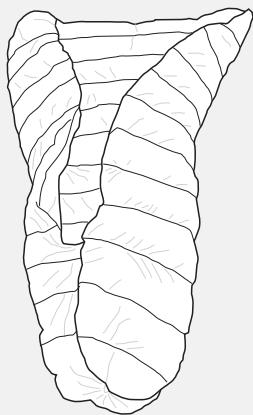


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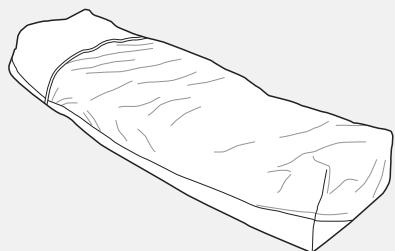


01 Bivvy Bag 150g Bivvy bag. Protects against both wind and bugs - by *Trail and Error*. 02 Ultralight Quilt Winter quilt, down to 20f. Weighs approx 600g packed - by *JennyM96* (*via Instructables*). 03 Lightweight Pillow - by *Joe B* (*via Backcountry Banter*). 04 Summer Quilt Tapered design with foot box. Ideal for over 40f temps - by *Jamie Shortt* (*via LytW8.com*). 05 Karo Step Quilt Baffle style quilt. Down insulation and foot box area - by *Drew Soderborg* (*via Stitchback Gear*).

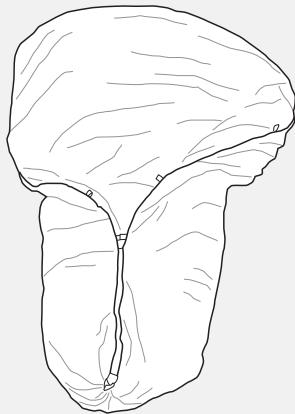
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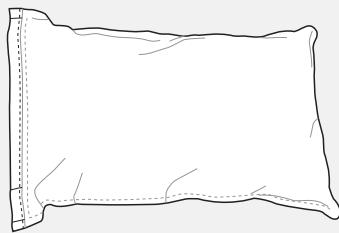
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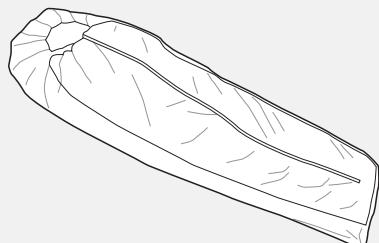
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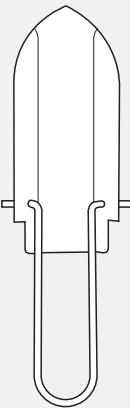
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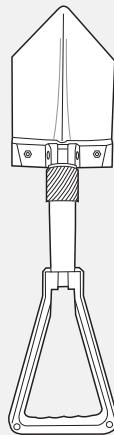
01 Winter Quilt Another down winter quilt design. Weighs approx 730g - by Andrew Bishop (via *Trails and Tracks*). **02 Bug Bivvy** 240g Bug bivvy. Simple, easy to make design - by Drew Soderborg (via *Stitchback Gear*). **03 Synthetic Quilt** Weighs approx 560g, and contains synthetic insulation - by Joe Brewer (via *Backcountry Banter*). **04 Hiking Pillow** - by Drew Soderborg (via *Stitchback Gear*). **05 Sleeping Bag Cover** Keeps your sleeping bag clean and dry. Central zipper - by Anders Jonsson.

075 HIKING & CAMPING / TOOLS

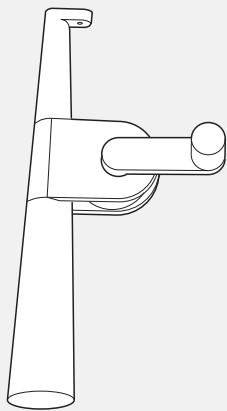
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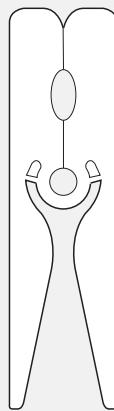
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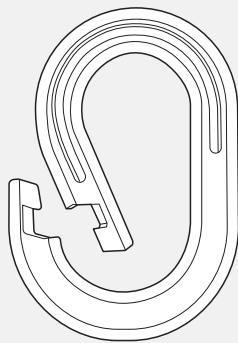


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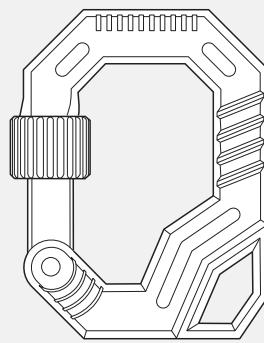


01 Folding Trowel by Drew Soderborg (via Stitchback Gear). 02 Foldable Shovel by Michal Fanta (via Printables). 03 Fishing Rod by Casey Johnson (via Thingiverse). 04 Springless Clothespins by Dan O'Connell (via Thingiverse).

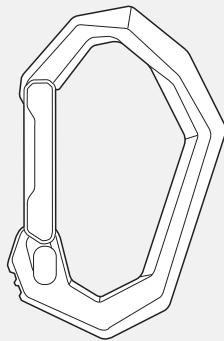
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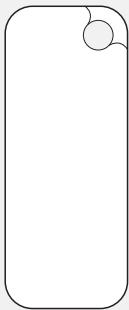
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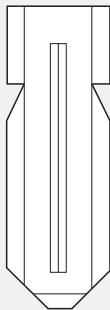
01 Oval Carabiner by TrocheHole (via Printables). 02 Screw Lock Carabiner by Luvem Studio (via Printables). 03 Origami Carabiner by ddf3d (via Thingiverse). 04 Female Urinating Device by Recursiv3D (via Printables).

077 HIKING & CAMPING / TOOLS

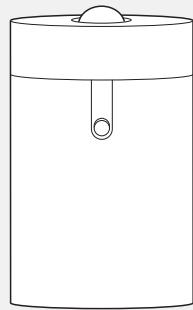
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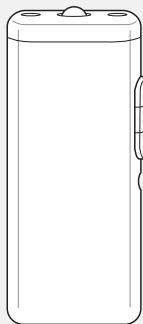
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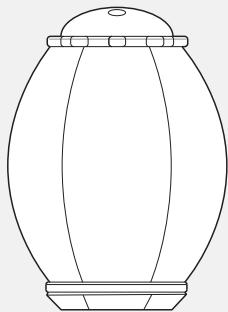
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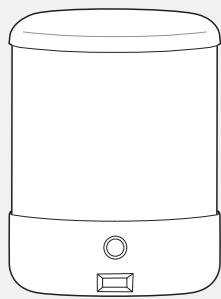
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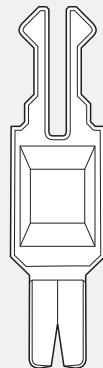


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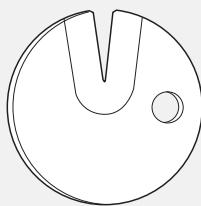


01 Loud Keyring Whistle by Prntmkr (*via Printables*). 02 Security Whistle by Qrome (*via Printables*). 03 Open Source Flashlight by Sean Hodgins (*via Github*). 04 Flashlight by Peter Fröhlich (*via Hackaday*). 05 Camping Lantern by unwohlpol (*via Printables*). 06 LED Camping Light by Márk Véner (*via Printables*).

01



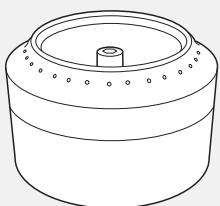
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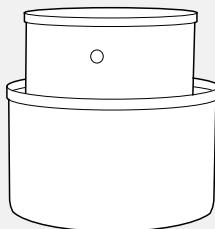
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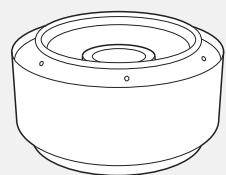
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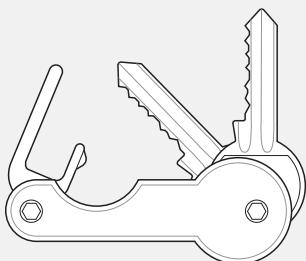
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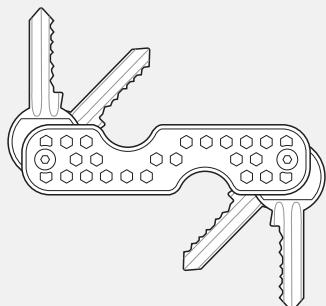
01 Tick Removal Tool by TaylorSteinf_1252185 (*via Printables*). 02 Tick Removal Coin by Fabian Veile (*via Printables*). 03 Screw Top Cutlery Container by Osprey (*via Printables*). 04 Pressurized Can Stove by Logan Watts (*via BikePacking*). 05 Green-Craft Stove by Neil Andrews (*via Youtube*). 06 Penny Stove by Logan Watts (*via BikePacking*).

079 EVERY DAY CARRY / KEY HOLDERS

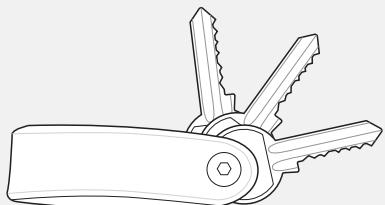
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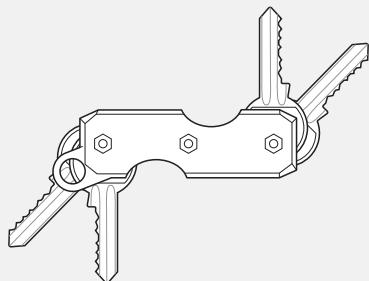
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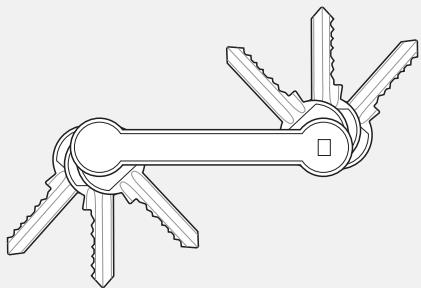
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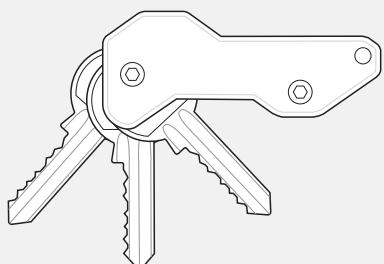
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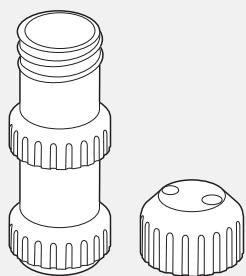
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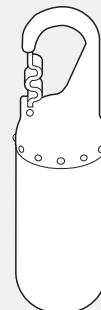
01 Swivel Lock Key Holder by Duy Nguyen (via Thingiverse). 02 Printable Key Holder by Jessica Stoop (via Thingiverse).

03 Wristband Key Holder by Mr_o_uk (via Instructables). 04 Proteus Key Holder by Protean Man (via Thingiverse). 05 Screwless Key Holder by Marcus Malmberg (via Thingiverse). 06 Single-Hand Key Organizer by Basti30 (via Printables).

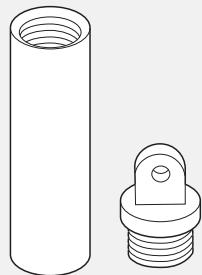
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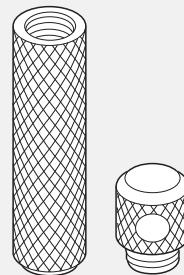
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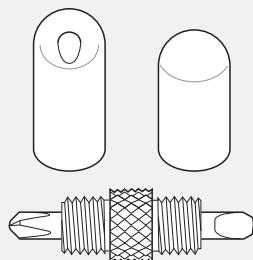
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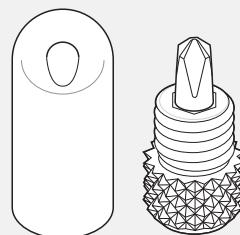
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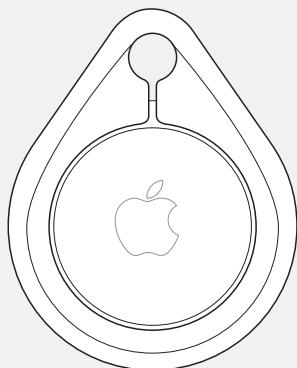
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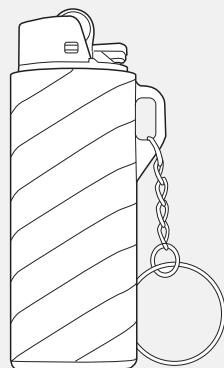
01 EDC Container by Meister Edel ([via Printables](#)). 02 Waterproof Capsule by LoboCNC ([via Printables](#)). 03 Key Fob Container by Murray Clark ([via Thingiverse](#)). 04 Pill Tube by Dedoper ([via Printables](#)). 05 Double Bit Driver by Blecheimer ([via Printables](#)). 06 Mini Bit Driver by Blecheimer ([via Printables](#)).

081 EVERY DAY CARRY / KEYCHAIN TOOLS

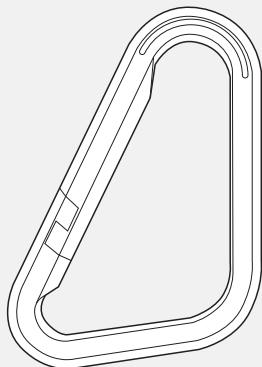
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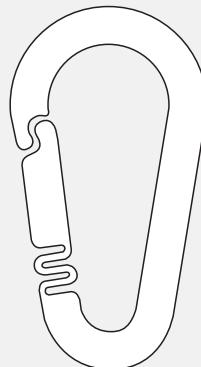
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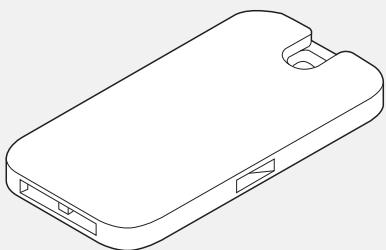


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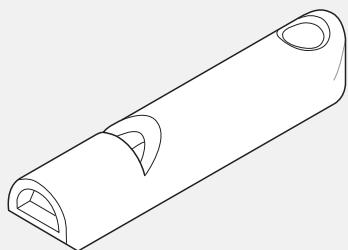


01 Airtag Keychain Holder by ThomasD (via Printables). 02 Bic Lighter Keychain Case by Grandpa 3DPrints (via Printables).
03 Carabiner by ManyHobbiesNoTalentClub (via Printables). 04 Carabiner by Filarte3D (via Printables).

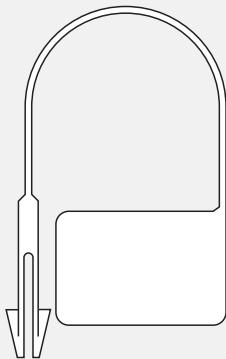
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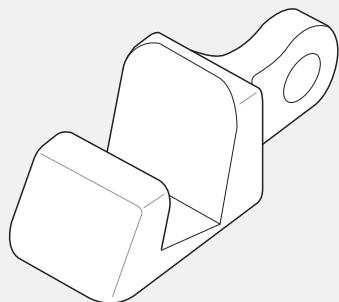
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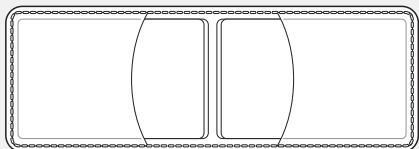
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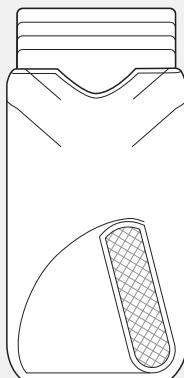
01 Flat Pocket Whistle by Jonas Daehnert (*via Printables*). 02 Small Whistle by Andreas G (*via Printables*). 03 Single Use Lock by Charlie Tuna (*via Thingiverse*). 04 Mini Phone Stand by Extrutim (*via Printables*).

083 EVERY DAY CARRY / WALLETS

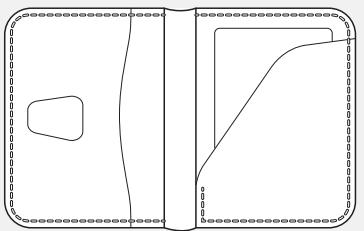
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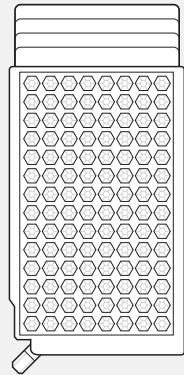
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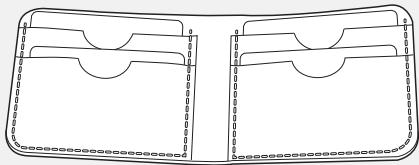
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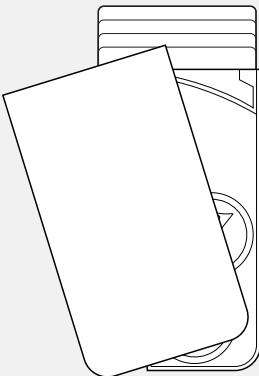


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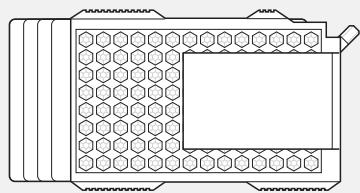


01 Leather Wallet Cut out using desktop CNC mill and hand stitched - by Mrballeng (*via Instructables*). **02 Cascade Card Wallet** Print-in-place design that fits multiple credit cards - by Hugo (*via Printables*). **03 Front Pocket Wallet** Classic style folded leather wallet with multi pockets - by MAKESUPPLY. **04 Slim Wallet** Printed wallet with card pop-up mechanism - by Aljaz Titoric (*via Thingiverse*). **05 Leather Wallet** Another classic-style folding leather wallet design - by MAKESUPPLY.

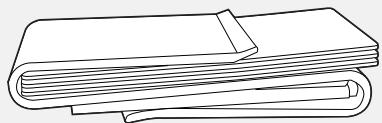
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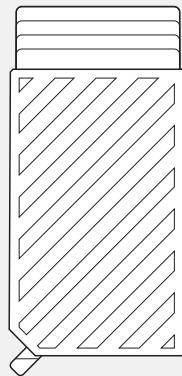
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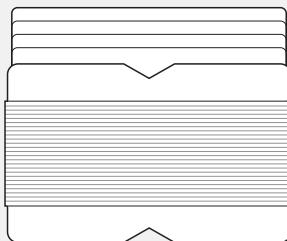
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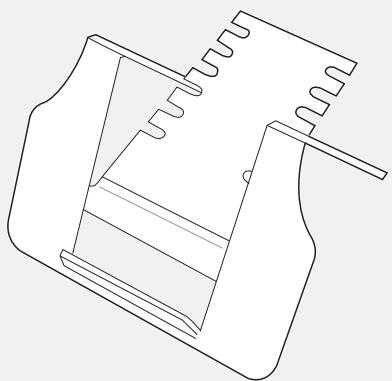


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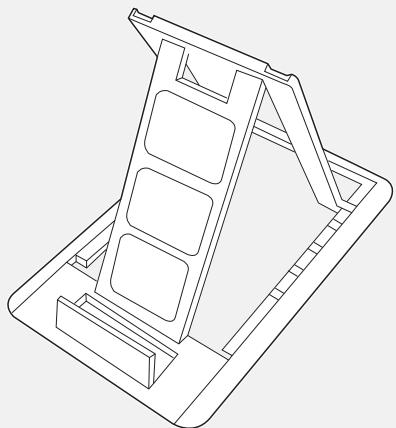


01 **Maker Wallet** Fully 3D-printed wallet, automatically pushes cards - *by Agustin Arroyo (via Printables)*. 02 **Slim Wallet Remix** Remixed version incorporating money clips or strap - *by Georgy Rakita (via Thingiverse)*. 03 **Pop-Up Wallet** Print-in-place pop-up design. Fits multiple cards - *by Kenny Hui (via Thingiverse)*. 04 **Double Money Clip Wallet** Wallet design fits both credit cards and notes - *by Ken Versus (via Thingiverse)*. 05 **Minimalist Wallet** 3D-printed wallet with simple elastic fabric band - *by NODE*.

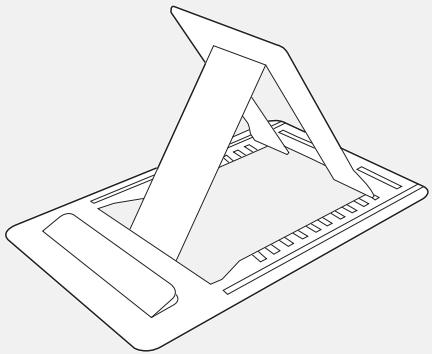
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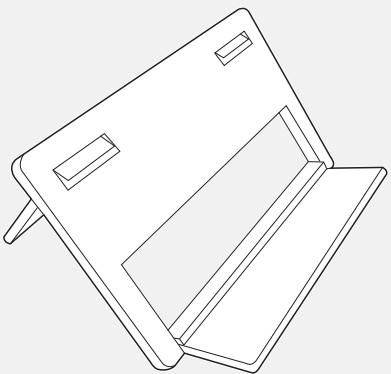
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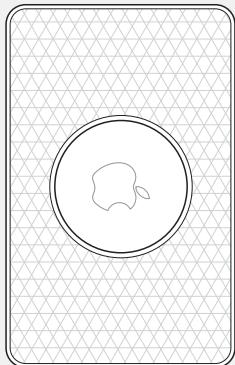


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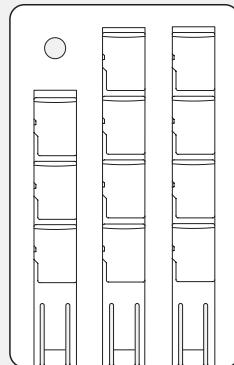


01 Phone Stand Ultra-thin print-in-place credit card sized stand - by GiskardReventlov (*via Printables*). **02 Folding Phone Stand** 2mm print-in-place folding phone stand - by Jackw01 (*via Thingiverse*). **03 Phone Stand** 0.8mm credit card sized folding phone stand - by JQ910 (*via Thingiverse*). **04 Phone Stand** Foldable phone stand fits in your wallet - by BetterDays (*via Printables*).

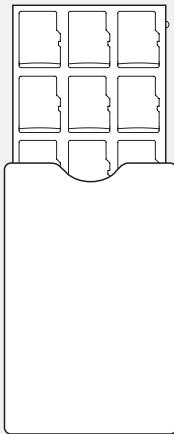
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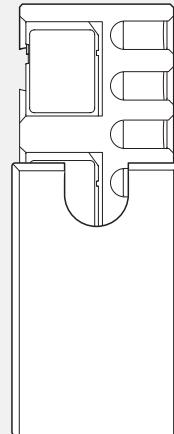
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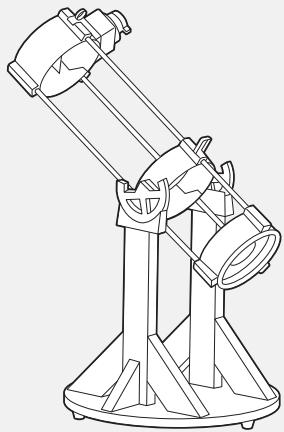


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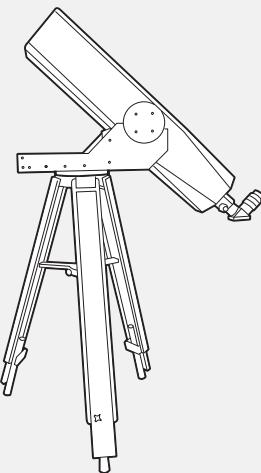


01 **AirTag Wallet Card** Carry an AirTag in your wallet - by [3DPrintNovesia](#) (*via Printables*). **02** **MicroSD Card** MicroSD storage in credit card form. Fits 14 cards - by [82 Amp](#) (*via Thingiverse*). **03** **MicroSD Card Lock** in place design that fits 12 microSD cards - by [Bkbilly Koulis](#) (*via Thingiverse*). **04** **Memory Card Case** Stores 5 microSD and 2 full size SD cards - by [Mmurase00](#) (*via Printables*).

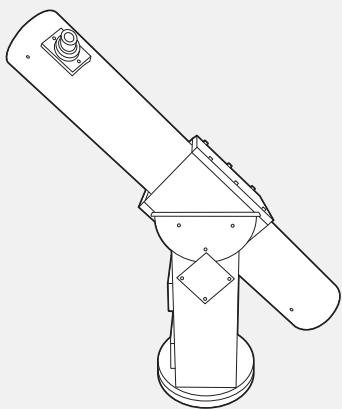
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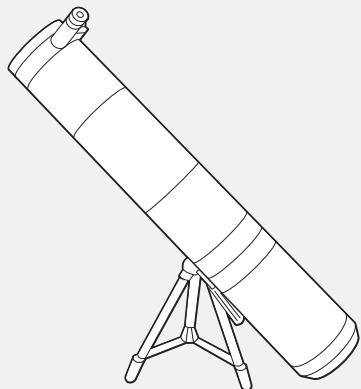
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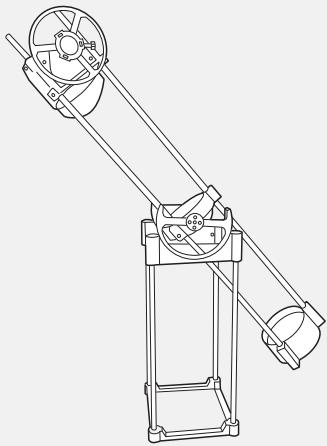


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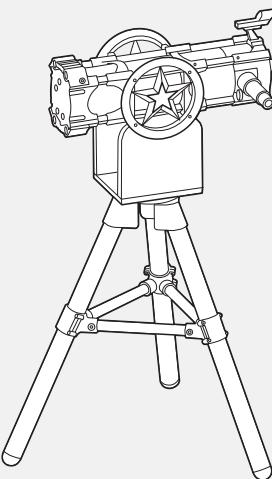


01 Leavitt High performance 8" reflector telescope - by Novel Tinker (*via Printables*). 02 Altair Wooden tripod mounted refracting telescope - by Gravitino (*via Instructables*). 03 Dobsonian 6" f/7.5 Newtonian-Dobsonian telescope design - by Springfield Telescope Makers (*via Stellafane*). 04 Newtonian Low cost, easy to assemble telescope - by Jamie (*via Printables*).

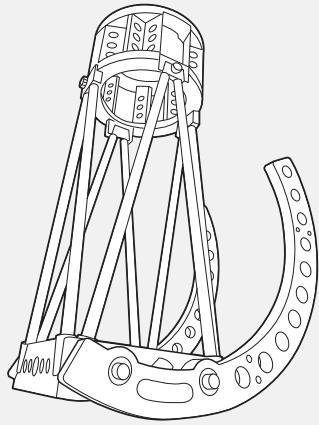
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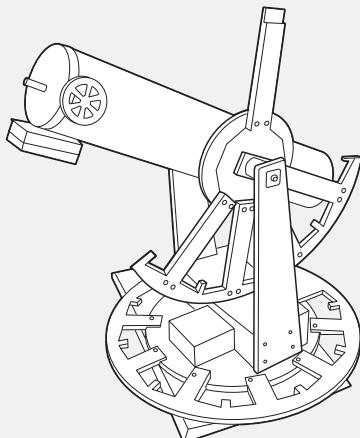
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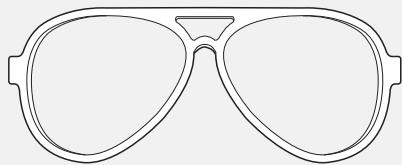


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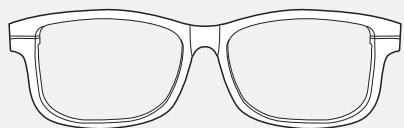


01 Hadley Metric remix of the Hadley 3D-printed telescope - by WiggleMeMore (*via Printables*). **02** Skyward150 150mm primary mirror, Newtonian reflector - by TenTelescopes. **03** Newtonian Reflector DIY 6" Newtonian reflector telescope build guide - by Rafael Fiol (*via Medium*). **04** PiKon 3D-printed telescope + Raspberry Pi Camera = PiKon - by Mark Wriggle (*via PiKonic*).

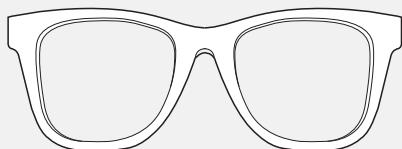
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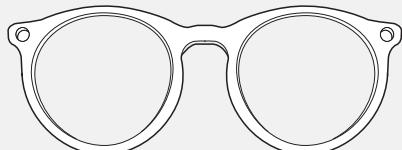
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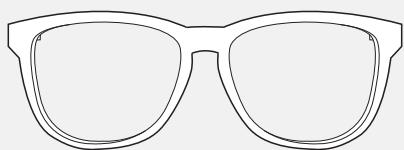
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01 Aviator Sunglasses - by Stamos P (via Thingiverse). 02 Modular Glasses - by Layer Labs (via Printables). 03 Okey Dokey Sunglasses Frame - by M Badia (via MyMiniFactory). 04 Simple Sunglasses - by Soto (via Thingiverse). 05 Smarch Smartglasses - by Samson March (via Github). 06 Wayfarer Style Frame - by Antonio Garcia (via Thingiverse).

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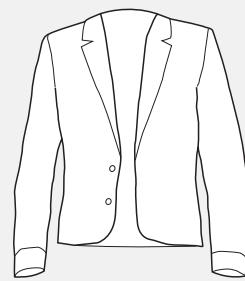
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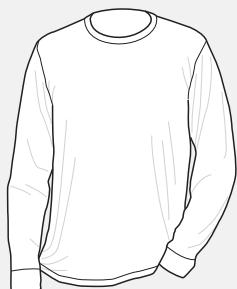
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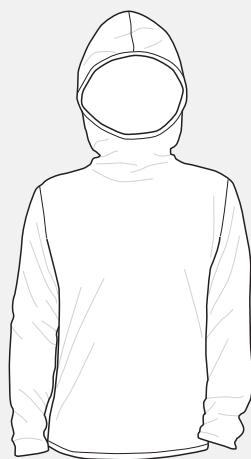
01 **Avelia Jacket** Bomber jacket pattern. No pockets - by *Shavonne Cruz* (*via Mood Fabrics*). 02 **Dean Jacket** Classic style jacket - by *Shavonne Cruz* (*via Mood Fabrics*). 03 **Cory Jacket** Water repellent jacket pattern - by *Shavonne Cruz* (*via Mood Fabrics*). 04 **Bent Block** Pattern design for coats & jackets - by *Joost De Cock* (*via FreeSewing*). 05 **Huey** Zip-up hoodie with optional front pockets - by *Joost De Cock* (*via FreeSewing*). 06 **Hugo** Hoodie design with raglan sleeves - by *Joost De Cock* (*via FreeSewing*).

091 FASHION / TOPS, JACKETS & COATS

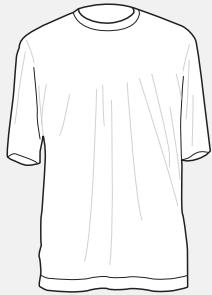
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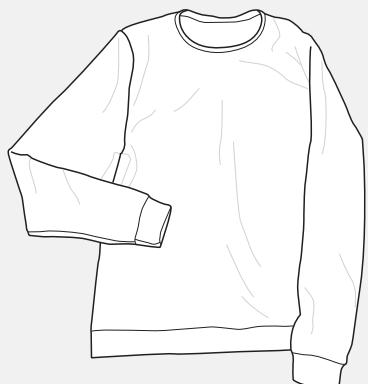
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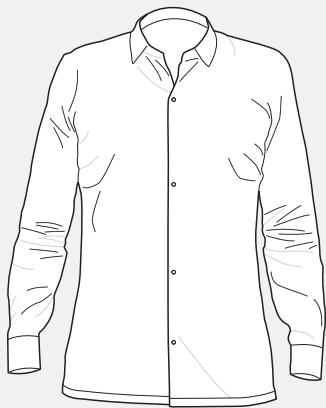


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01 Long Sleeve Tee Pattern & sewing instructions - by [Life Sew Savory](#). 02 Brian Block Hoodie sewing patterns - by [Joost De Cock](#) (via [FreeSewing](#)). 03 Brando Tee Tshirt sewing pattern - by [Shavonne Cruz](#) (via [Mood Fabrics](#)). 04 Sven Sweatshirt Sweater sewing pattern - by [Joost De Cock](#) (via [FreeSewing](#)). 05 Aaron A-Shirt Athletic shirt / tank top - by [Joost De Cock](#) (via [FreeSewing](#)).

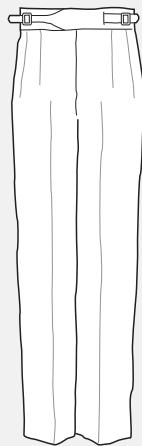
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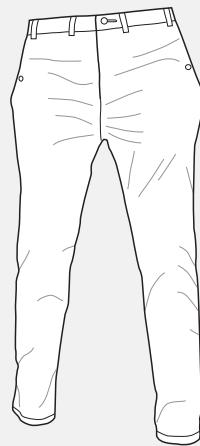
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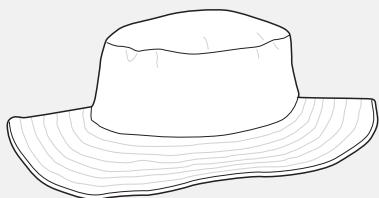
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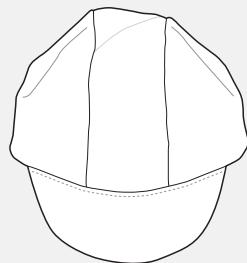
01 **Simon Shirt** Men's long shirt pattern - by Joost De Cock (*via FreeSewing*). 02 **Paco Pants** Pattern for casual style summer pants - by Joost De Cock (*via FreeSewing*). 03 **Basquiat Trousers** Pattern & instructions for classic style trouser - by Greg Dugdale (*via Mood Fabrics*). 04 **Charlie Chinos** Classic chino trouser pattern and sewing instructions - by Joost De Cock (*via FreeSewing*).

093 FASHION / HATS

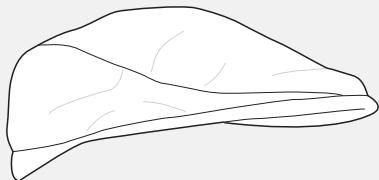
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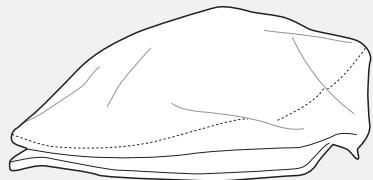
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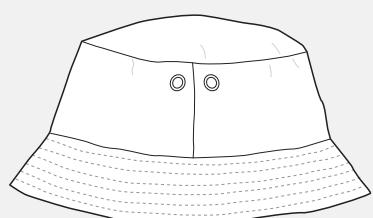
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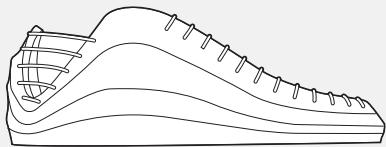


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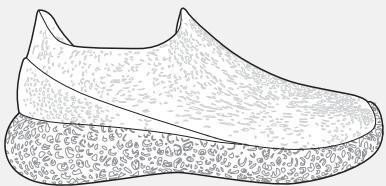


01 Flat Brim Hat How to make a brimmed hat - by *Melissa Mora* (via *Melly Sews*). **02 Cycling Cap** How to make a cycling cap - by *Franzi Wernsing* (via *BikePacking*). **03 Flat Cap** Gatsby-style flat cap sewing pattern - by *AboutGoodness*. **04 Florent Cap** Rounded flat cap with stiff brim - by *Quentin Felix* (via *FreeSewing*). **05 Beanie** Lightweight beanie design - by *Jelena* (via *Bernina*). **06 Bucket Hat** Quick and easy reversible bucket hat sewing pattern - by *Shavonne Cruz* (via *Mood Fabrics*).

01



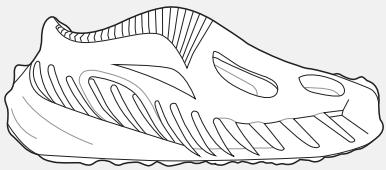
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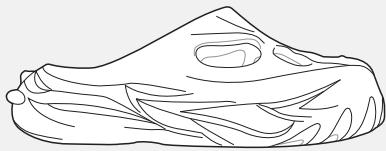
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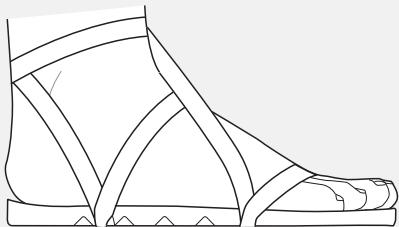


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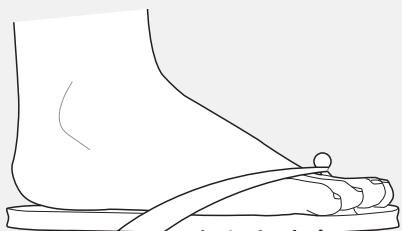


01 Modern Sneakers Uses TPU filament as laces - by Seppe Machielsen (*via Thingiverse*). **02 Running Shoes** Printable shoes using soft TPU filament - by Creality Cloud. **03 Waverrior Shoes** Rubber shoe including resizer- by Faizal Dhafin (*via Thingiverse*). **04 Dragon Horn Shoes** Dragon themed shoe. Requires TPU filament - by Creality Cloud. **05 Dragon Flame Shoes** Slide shoe designed in multiple sizes- by Creality Cloud. **06 Tora Shoe** Slip-on shoe using flexible filament - by RiverFamily (*via Thingiverse*).

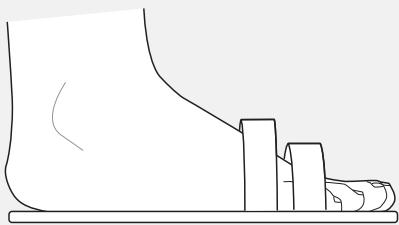
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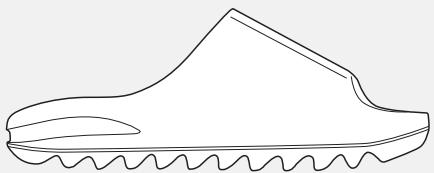
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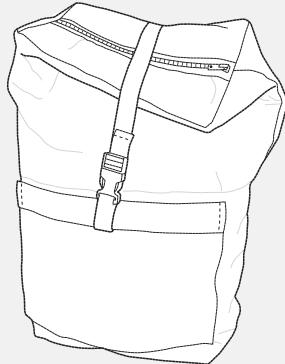


04



01 **Palmiga Sandals** 3D-printable sole design for ribbon sandal - by *Palmiga* (*via Thingiverse*). 02 **BPS Sandals** Printed with flexible rubber-like filament - by *Bill Yang* (*via Thingiverse*). 03 **Openstock Classics** 3D-printable and parametric sandal shoe design - by *Ibudmen* (*via Thingiverse*). 04 **Slides** Yeezy-style slide shoe design - by *Orangemn6* (*via Printables*).

01



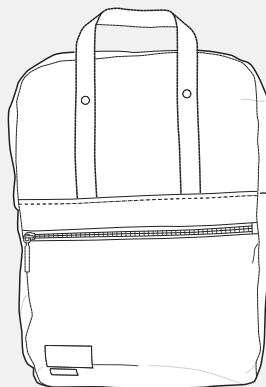
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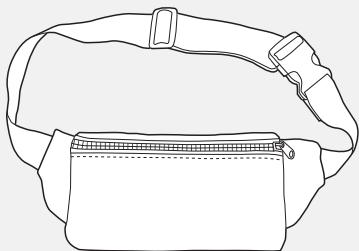
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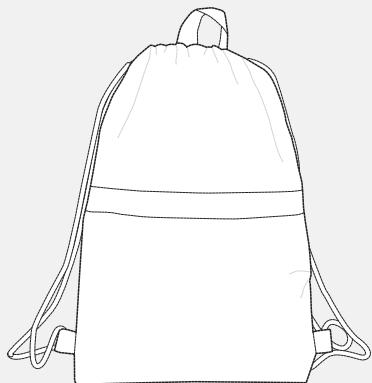
01 Canvas Backpack - by Jane and Sonja (via Sustain My Craft Habit). 02 Wanderlust Rucksack - by Hawthorne Supply Co.
03 Small Backpack - by So Sew Easy. 04 Laptop Backpack - by DIY Eule.

097 FASHION / BACKPACKS & FANNY PACKS

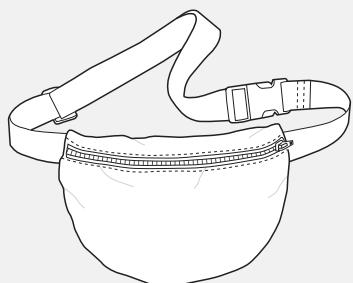
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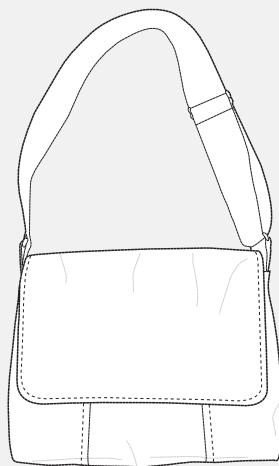
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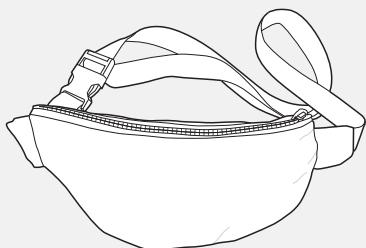
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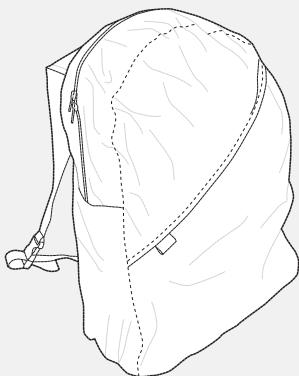


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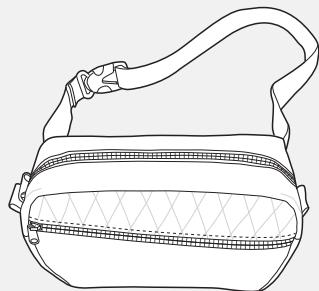


01 Two Zip Fanny Pack - by [Sew Can She](#). 02 Drawstring Backpack - by [Damjana Jakos](#) (*via AppleGreen Cottage*). 03 **Frankie Bum Bag** - by [Anna Alicia](#) (*via Frankie*). 04 Messenger Bag - by [No Time To Sew](#). 05 Fanny Pack - by [Anda Corrie](#) (*via Spoonflower*).

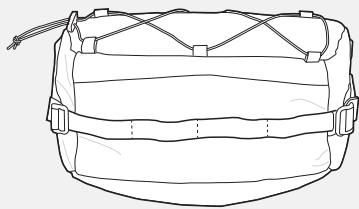
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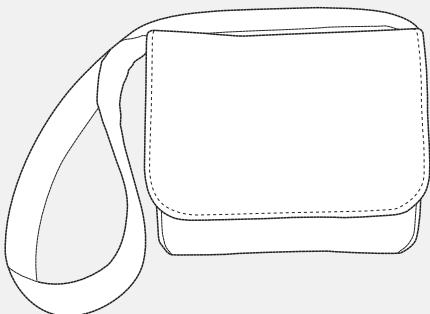
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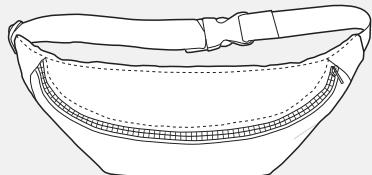
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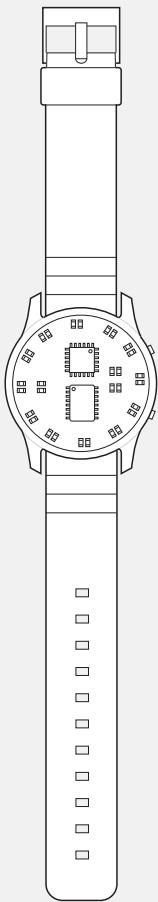
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01 Ultralight Backpack - by Sun (via Instructables). 02 Everyday Fanny Pack - by LearnMYOG. 03 Zipped Messenger Bag - by Heart of Mary. 04 Bikepacking Fanny Pack - by Neza Peterca (via BikePacking). 05 Classic Fanny Pack - by LearnCreateSew.

099 FASHION / WATCHES

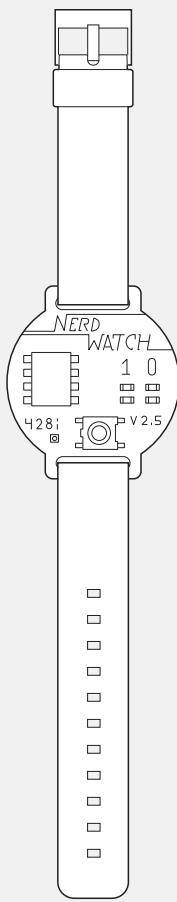
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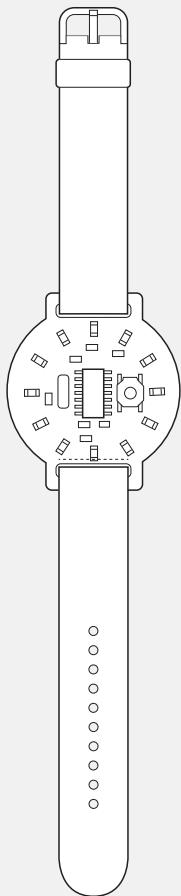


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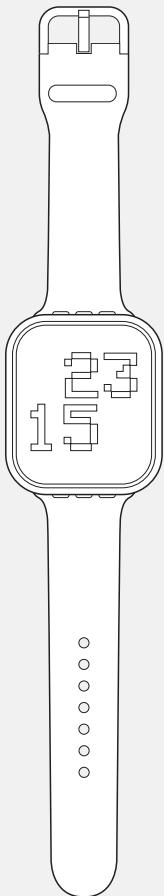


01 **IO Watch** - by Marijo Blazevic (*via Thingiverse*). 02 **SmarcWatch** - by Samson March (*via PCBWay*). 03 **The Nerd Watch** - by Bantam Tools (*via Instructables*).

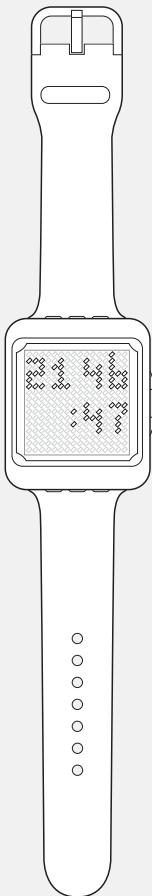
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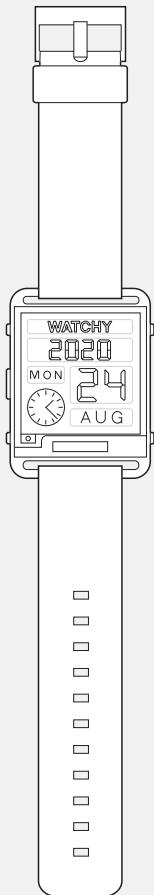


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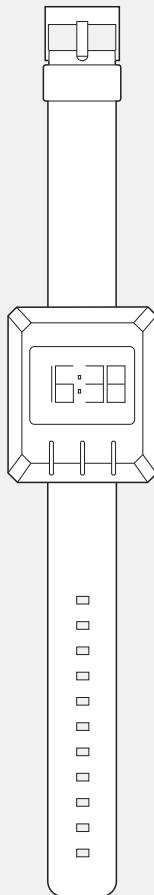


01 **Mega Tiny Time Watch** - by David Johnson-Davies (via Technoblogy). 02 **MutantW_V2** - by mutantCybernetics. 03 **LED Matrix Watch** - by Mile Electronics (via Hackaday).

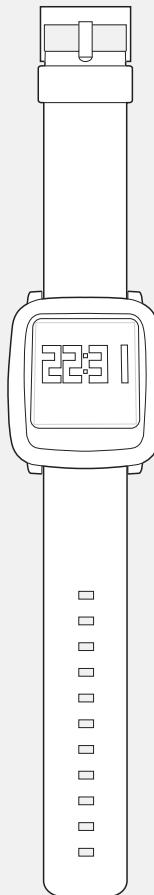
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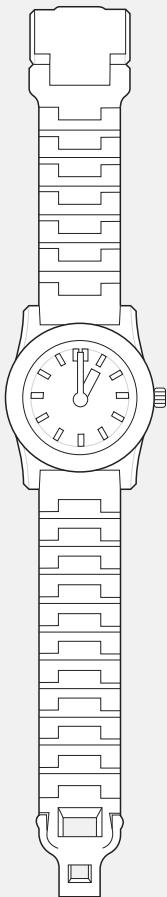
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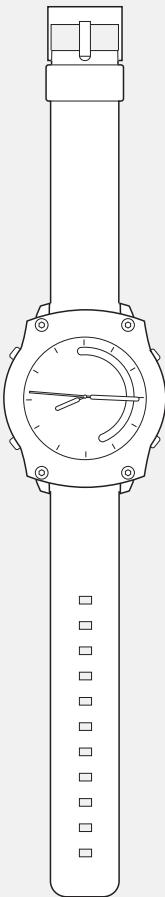
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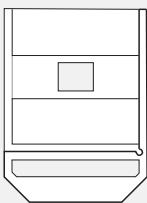
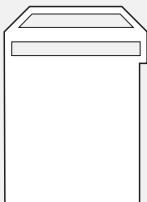


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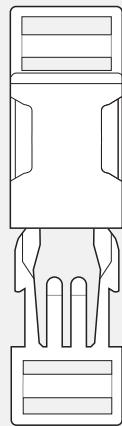


01 3D Printed Watch - by Printschmitzel.at (via Printables). 02 ZSWatch - by Jakob Krantz (via Github). 03 Open-SmartWatch - by pauls_3d_things (via Github.io).

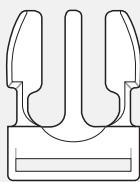
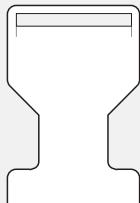
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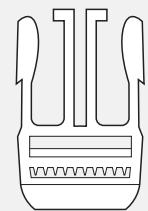
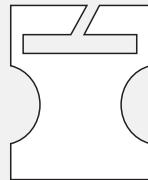
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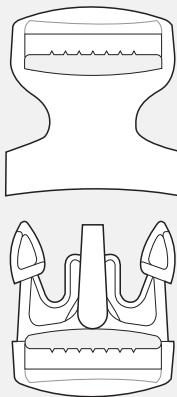


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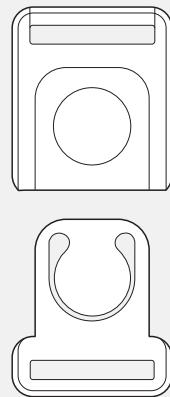


01 Magnetic Buckle - by Tiltman (*via Printables*). 02 Belt Buckle - by Matej (*via Printables*). 03 Bag Buckle - by MakerTeam (*via Printables*). 04 Bag Buckle - by M Pierre (*via MyMiniFactory*).

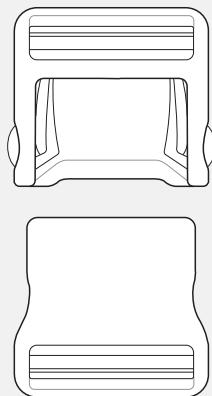
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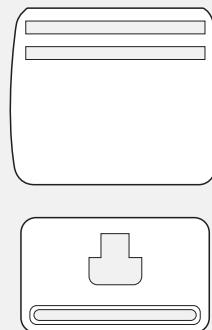
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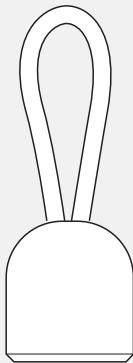


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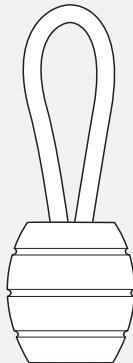


01 Backpack Strap Buckle - by Benoit Tarrade (via Thingiverse). 02 Low Profile Buckle - by Kevin (via Printables). 03 Robust Buckle - by Rorys3D (via Printables). 04 Belt Buckle for 38mm strap - by Djedje_zr7 (via Printables).

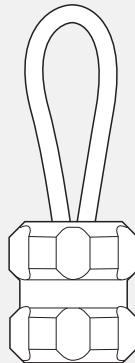
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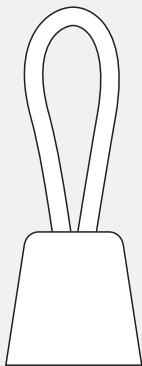
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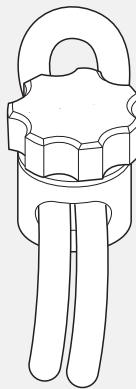
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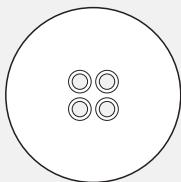


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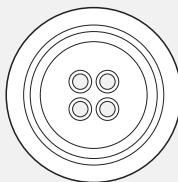


01, 02, 03 Paracord Zipper Pulls Collection (95) - by PenguinFeet (*via Printables*). 04 Easy Printable Zipper Pull- by Arenera (*via Printables*). 05 Adjustable Rope Clamp by Twotone74 (*via Printables*). 06 Zip Toggle by ByteSlinger (*via Printables*).

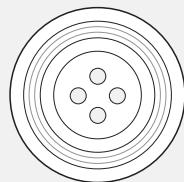
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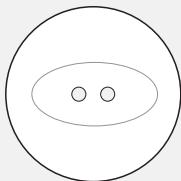
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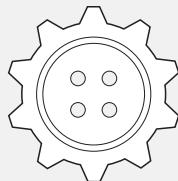
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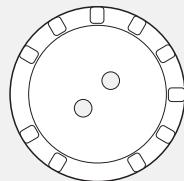
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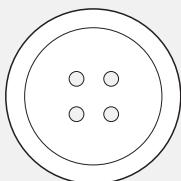
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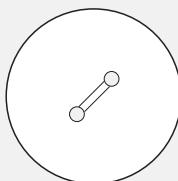
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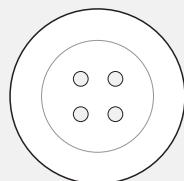
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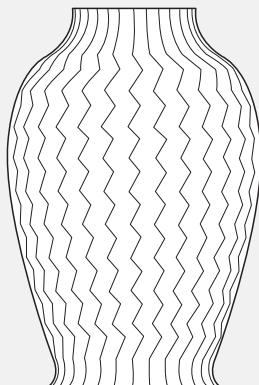


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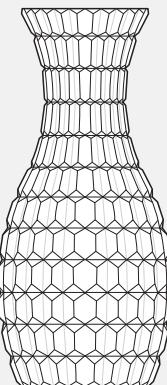


01, 02 Simple Printable Buttons - by Nadav Halwany (via Printables). 03, 04, 05, 06 Printable Button Collection (21) - by MORON (via Printables). 07, 08, 09 More Simple Buttons - by CavalierLabs (via Printables).

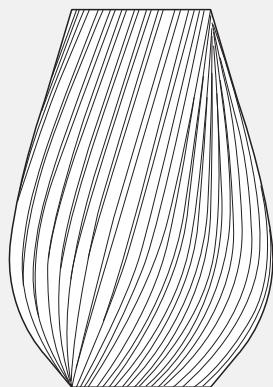
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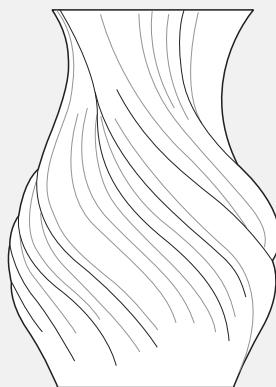
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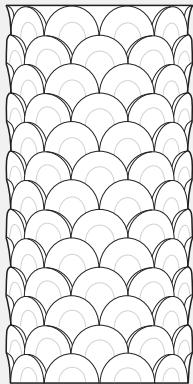


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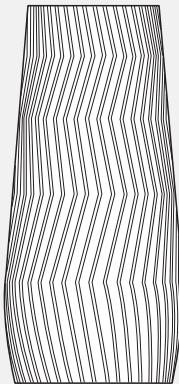


01 ZigZag Vase - by Slimprint (*via Printables*). 02 Faceted Vase - by William Pelletier (*via Thingiverse*). 03 Vase 650 - by xSteve (*via Printables*). 04 Blossom Vase - by Andreas Mass (*via Printables*).

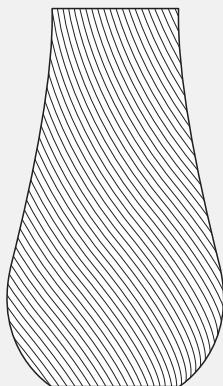
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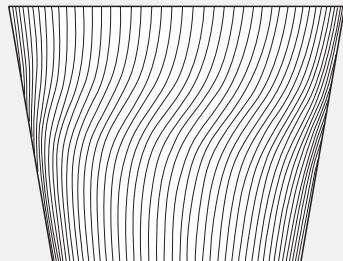
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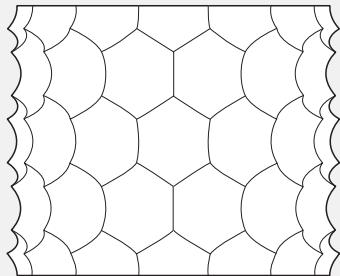


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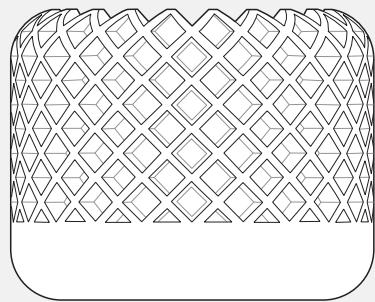


01 Fishscale Vase - by Orax (*via Printables*). 02 ZigZag Vase - by YSoft_be3D (*via Thingiverse*). 03 Spiral Vase - by Joey Muirhead (*via Thingiverse*). 04 Twisted Flower Pot - by Alecs.Form (*via Printables*).

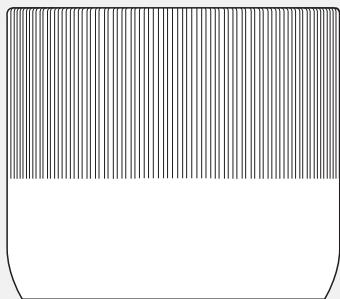
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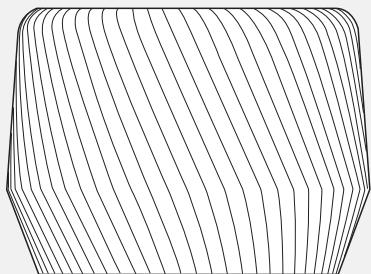
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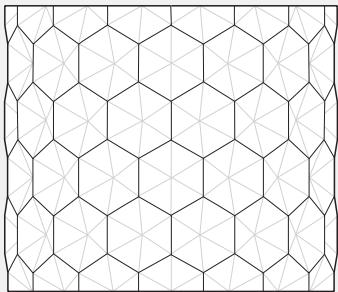


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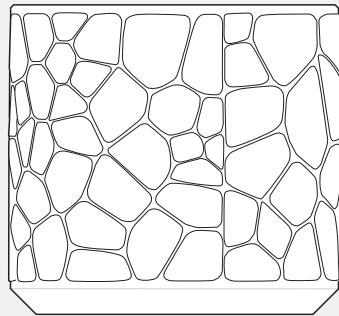


01 Anti-Sphere Plant Pot - by SASSy Design (*via Printables*). 02 Geometric Succulent Pot - by Max Schulte (*via Printables*).
03 Midcentury Planter - by Jordan Proctor (*via Printables*). 04 Geometric Planter - by Julian1111 (*via Printables*).

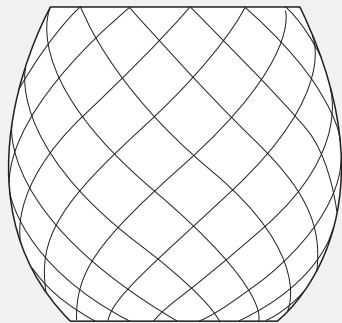
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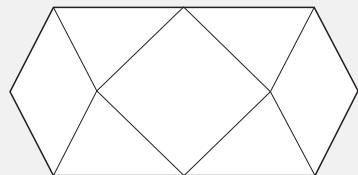
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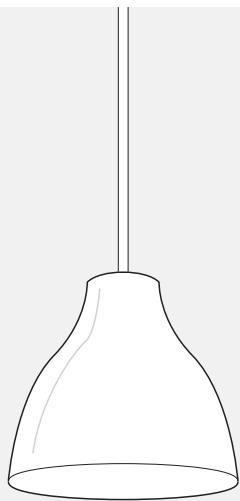


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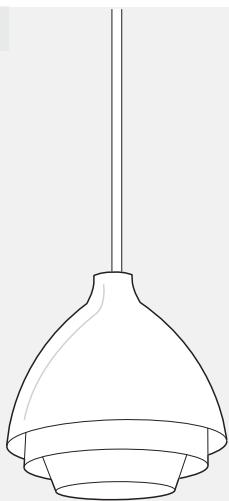


01 Inverted Hexagonal Planter - by SASSy Design (via Printables). 02 Curved Stone Vase - by Harms3D (via Printables).
03 Dragon Egg Plant Pot - by MechVince (via Printables). 04 Hexagonum Flower Pots - by HXP3D (via Printables).

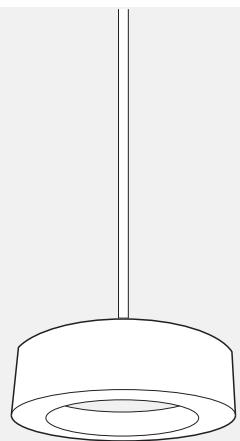
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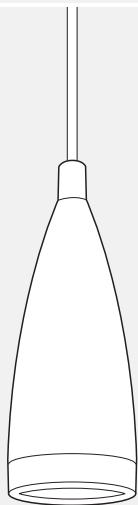
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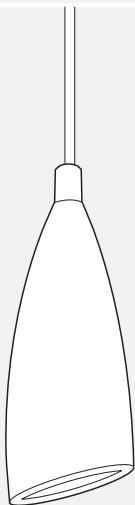
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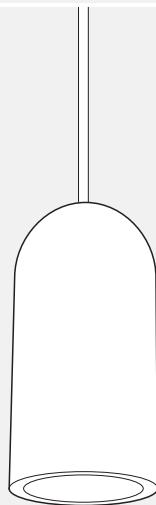
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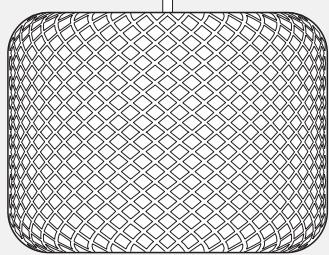


01 Concrete Pendant Lamp - by Bruno Bornstein (*via Curbly*). 02 Three Layer Lampshade - by Pavel (*via Printables*). 03 Circular Concrete Lamp - by Mike Montgomery (*via Modern Builds*). 04, 05 Concrete Pendant Lamp - by Ben Uyeda (*via HomeMade Modern*). 06 Concrete Pendant Lamp - by Chelsea Lipford Wolf (*via Checking in with Chelsea*).

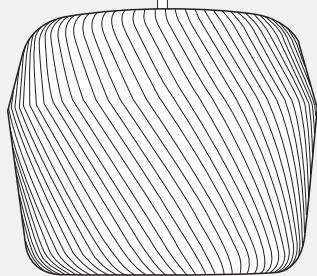


01 Classic Lampshade - by ÖE (via Printables). 02 Heart Pattern Lampshade - by Blue Hazel (via Printables). 03 Angular Lampshade - by __Sam__ (via Printables). 04 Folded Lampshade - by H Langemark (via Thingiverse). 05 Hanging Lampshade - by Russ Taber (via Thingiverse). 06 Geometric Lamp - by Alvaro Orasio Garcia (via Thingiverse).

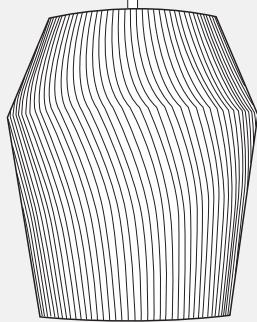
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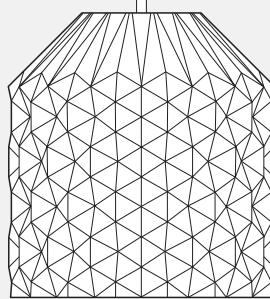
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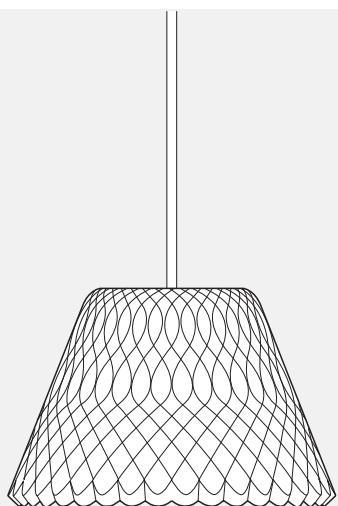


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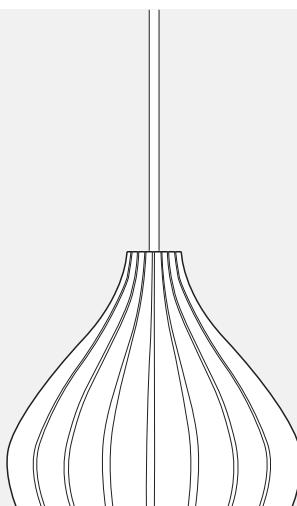


01 Geometric Spiral Lampshade - by Julian1111 (via Printables). 02 Spiral Lampshade - by Julian1111 (via Printables). 03 Skaftet Lampshade - by Alecs.Form (via Printables). 04 Inverted Hexagonal Lampshade - by RenanAz (via Printables).

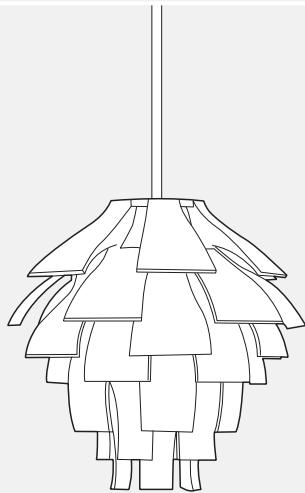
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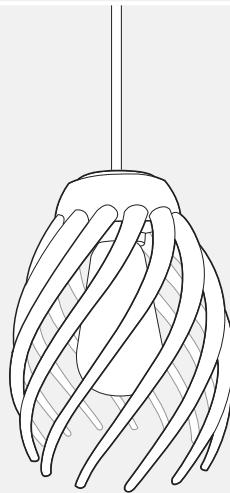
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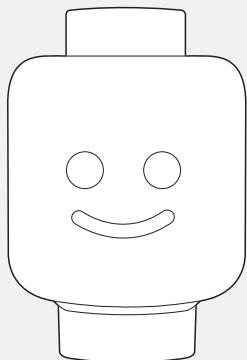


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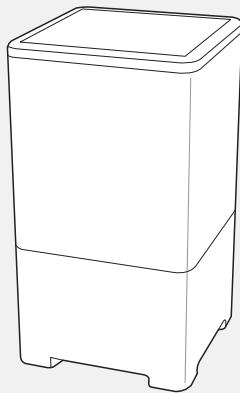


01 Basket Look Lampshade - by Blue Hazel (*via Printables*). 02 Urchin Lampshade - by Blue Hazel (*via Printables*). 03 Artichoke Lampshade - by gCreate (*via Thingiverse*). 04 Tentacle Lampshade - by Ripper (*via Printables*).

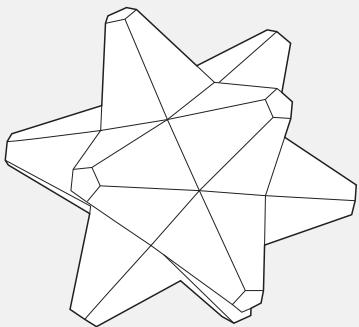
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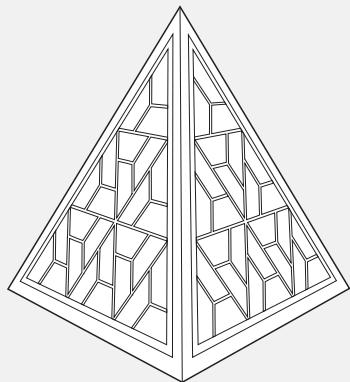
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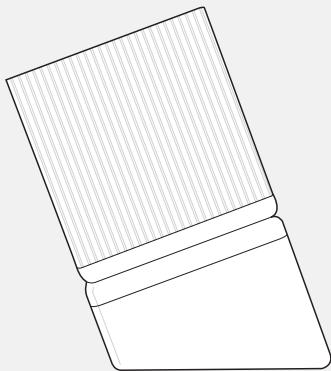


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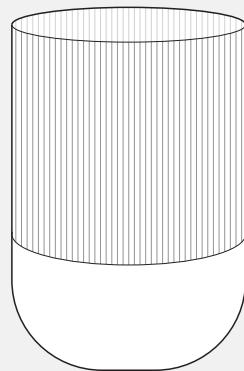


01 Brick Head Lamp - by Ruiz Brothers (*via Adafruit*). 02 Gyroid LED Lamp - by Whity (*via Printables*). 03 Star Fragment Lamp - by Ruiz Brothers (*via Adafruit*). 04 Tetrahedron Lamp - by Jal Shah (*via Printables*).

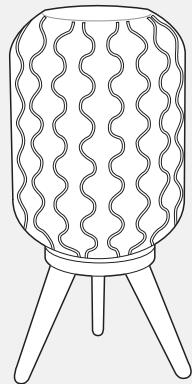
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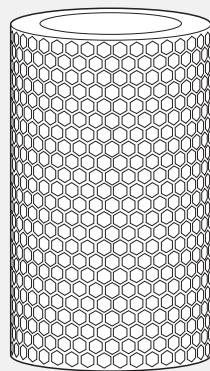
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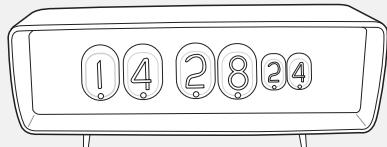


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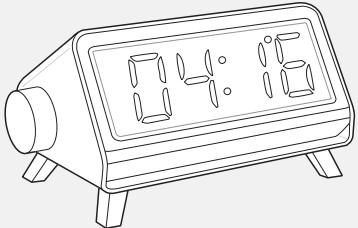


01 Lampe - by Agustin Flowalistik (via Thingiverse). 02 Maker Lamp - by Agustin Flowalistik (via Thingiverse). 03 Midcentury Lamp - by Catdad Workshop (via Printables). 04 Small HoneyComb Lamp Shade - by Tada (via Thingiverse).

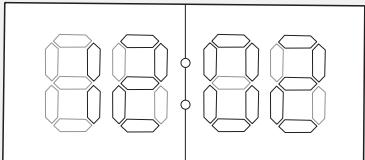
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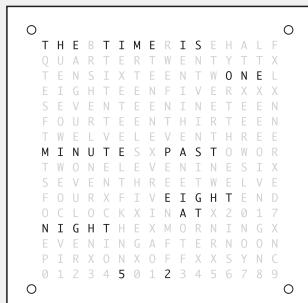
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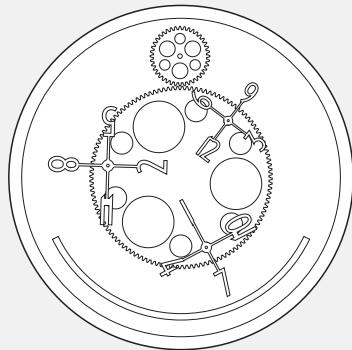
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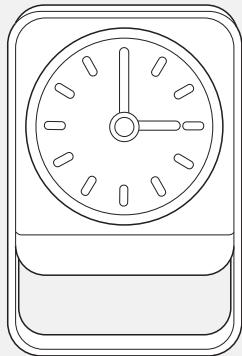


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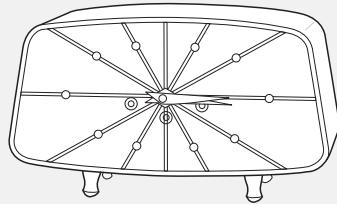


01 Nixie Digital Clock Midcentury-inspired case for Nixie tubes display - by *Clockspot* (*via Printables*). **02 Arduino Word Clock** Spells out the time in words with minute resolution - by *Brett Oliver* (*via Instructables*). **03 Digital Clock** Real-time clock with 1.2in 7-segment display - by *Ruiz Brothers* (*via Adafruit*). **04 Wandering Hour Clock** The hour points to the current minute - by *David Kingsman* (*via Printables*). **05 Kinetic Clock** Arduino clock that moves using little servos - by *alstroemeria* (*via Instructables*).

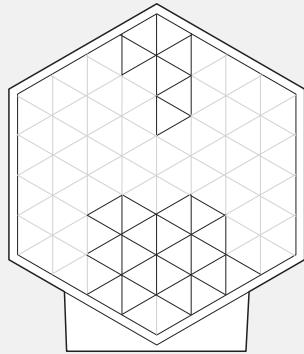
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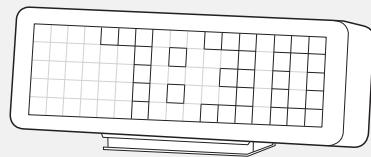
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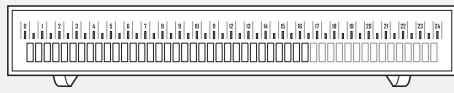
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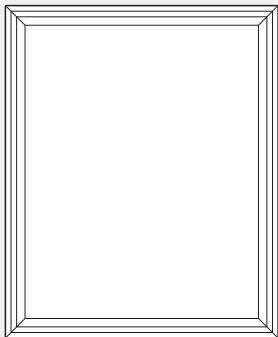
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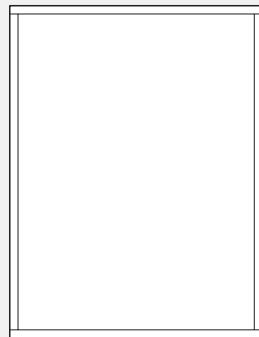
01 **Düdel Clock** 3D-printable Braun-inspired desktop clock - by [Vinh Truong](#) (*via Printables*). 02 **Welby Mantle Clock** Midcentury style replica vintage mantle clock - by [Mark Richardson](#) (*via Printables*). 03 **HexMatrix Clock** RGB LEDs triangular/hexagonal pixel matrix clock - by [Mukesh Sankhla](#) (*via Hackaday*). 04 **Lazy Grid Clock** Desktop LED grid clock using Arduino Pro Mini or Nano - by [Paralyze](#) (*via Instructables*). 05 **Linear Calendar Clock** Displays Google Calendar items- by [MaakBaas](#) (*via Hackaday*).

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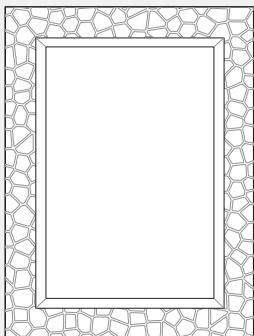
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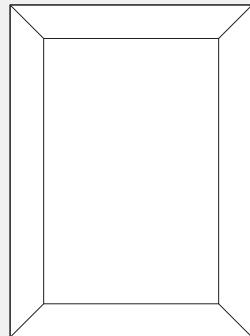
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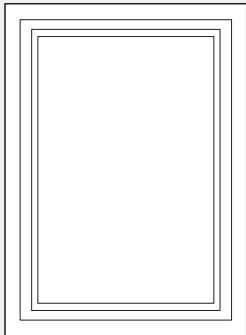


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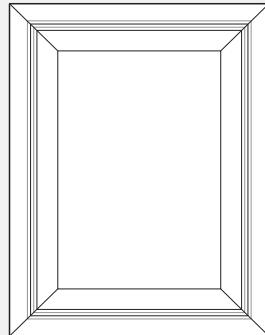


01 Custom Frames Make wooden frames without powertools - by *Mandi Johnson* (*via A Beautiful Mess*). **02 Floating Frame** Simple wooden floating frames - by *Ursula Carmona* (*via Homemade by Carmona*). **03 Abstract Picture Frame** Textured picture frame - by *JK_Printer* (*via Printables*). **04 Picture Frame** Simple printable picture frame in various sizes - by *Adam* (*via Printables*).

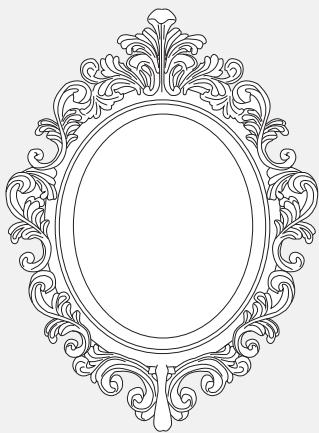
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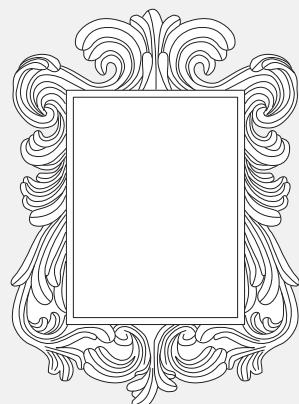
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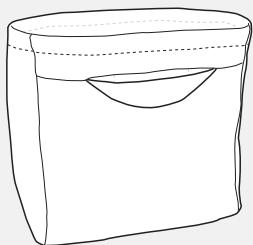


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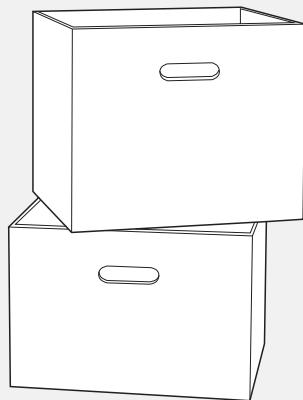


01 4x6 Picture Frame Small, simple frame design for 4x6 photos - by Ant Ant (*via Printables*). **02 Printable Picture Frame** Simple classic style frame to print - by Matthijsbos (*via Printables*). **03 Baroque Picture Frame** Classic oval shaped picture frame - by Grima Alexandre (*via Thingiverse*). **04 Victorian Picture Frame** Victorian-style picture frame - by Brownie2705 (*via Printables*).

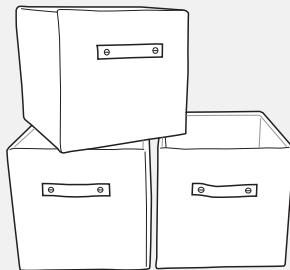
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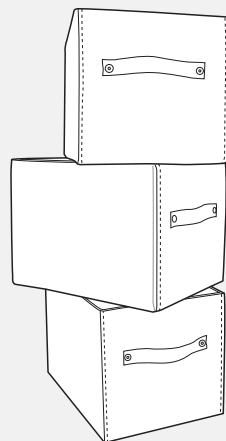
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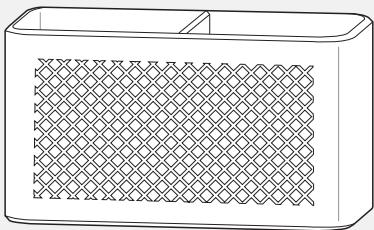


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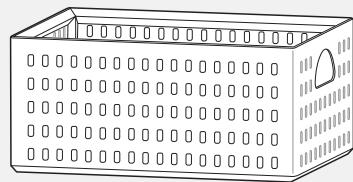


01 Fabric Storage Cubes Soft fabric storage cube sewing project - by *Sustain My Craft Habit*. **02 Plywood Storage Boxes** Custom-sized plywood storage box - by *Mandi Johnson (via A Beautiful Mess)*. **03 Storage Boxes** Custom sized foam board storage boxes - by *Northstory & Co.* **04 Storage Boxes** DIY storage using cardboard - by *Kati Farrer (via Crafting my Home)*. **05 Wood Storage Cubes** How to make wooden storage cubes from cedar planks - by *Lovely Etc.*

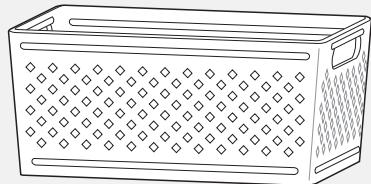
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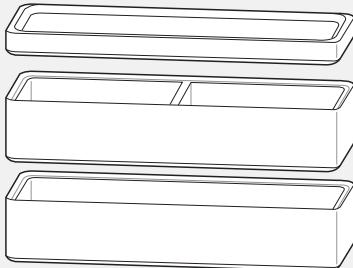
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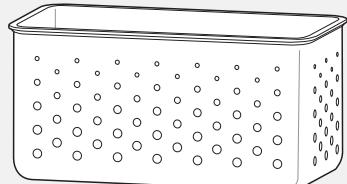
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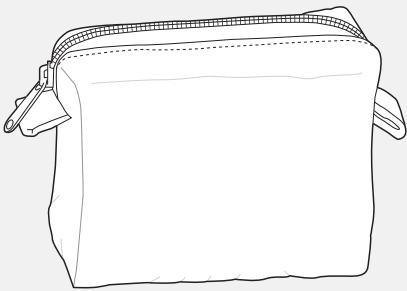


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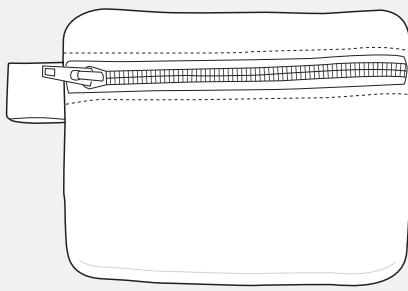


01 Organizer Grid pattern organizer with removable separator - by H3li0 (*via Printables*). **02 Stackable Basket** Printable baskets that can be stacked ontop each other - by Lars Lietzen (*via Printables*). **03 Storage Box** Minimalist Japanese-style stackable storage box - by H3li0 (*via Printables*). **04 Organizer Baskets** Lattice style baskets with handles. Various sizes - by Triple G Workshop (*via Printables*). **05 Basket** Simple 8x4x4 inch basket design - by Gjackets (*via Printables*).

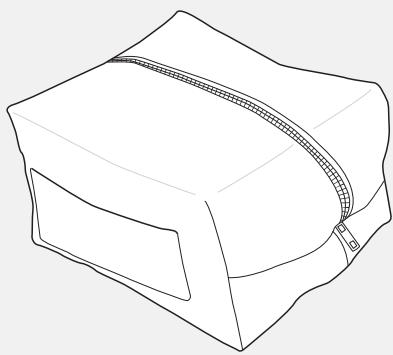
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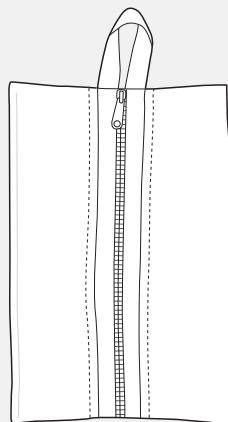
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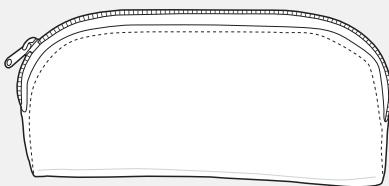


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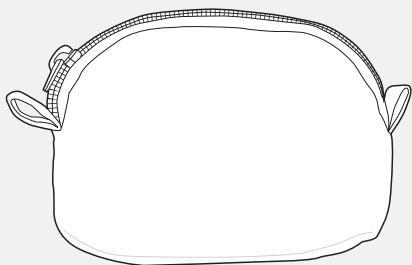


01 Boxy Zipper Pouch - by Sew Can She. 02 Easy Zipper Pouch - by Sew Can She. 03 Boxy Toiletry Bag - by Lindsay Wilkes (via The Cottage Mama). 04 Lay Flat Storage Bag - by Sew Can She.

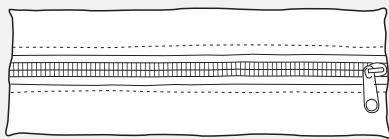
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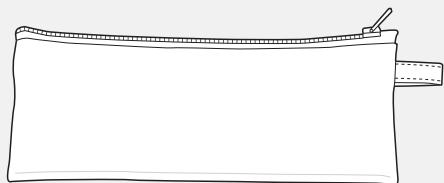
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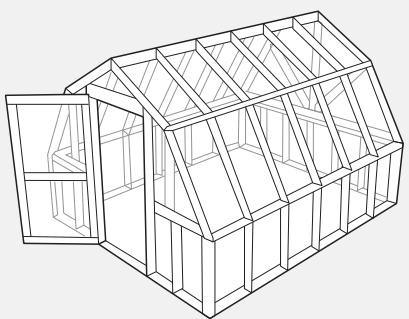


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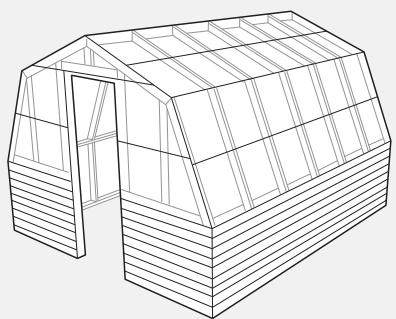


01 Long Zipper Pouch - by *Sew Can She*. 02 Zipper Coin Purse - by *Sew Can She*. 03 Pen Case - by *Damjana Jakos* (*via AppleGreen Cottage*). 04 Pencil Case - by *Damjana Jakos* (*via AppleGreen Cottage*).

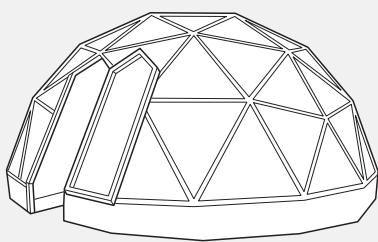
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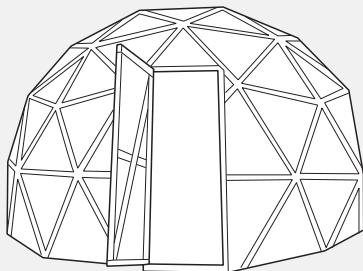
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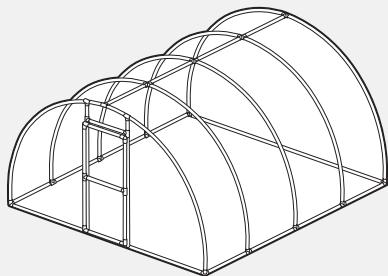


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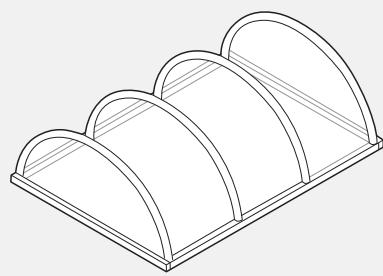


01 Barn Greenhouse 10x12ft Greenhouse plans - by Ovidiu (*via My Outdoor Plans*). 02 Barn Greenhouse 10x12ft Design with corrugated plastic/metal - by Ana White (*via Ana-White.com*). 03 Geodesic Dome Greenhouse All-wood cone joint dome design - by Northern Homestead. 04 Geodesic Dome Greenhouse 2 Alternate design with ABS pipe joints - by Northern Homestead.

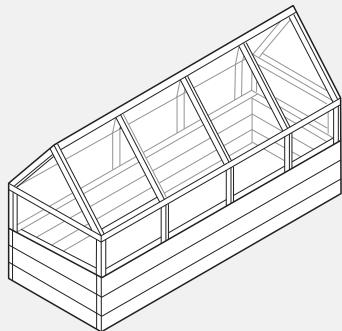
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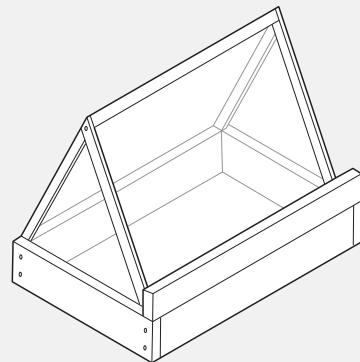
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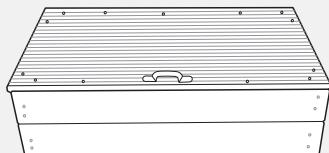


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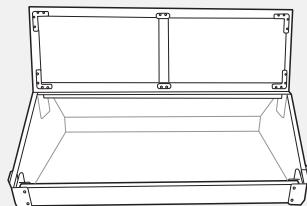


01 PVC Greenhouse Modular PVC pipe design. 13ft wide - *by PVCPlans*. **02 Cold Frame Hoop House** Fits on top of 4x4 raised bed - *by dstoudt70 (via Instructables)*. **03 Raised Bed Greenhouse** 3x16ft Long mini greenhouse design - *by Kerico (via Instructables)*. **04 Cold Frame Tent** A-Frame style design with door - *by Kirsten Dunn (via Dunn Lumber)*.

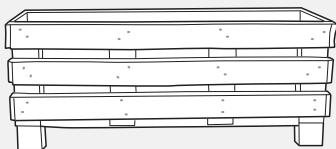
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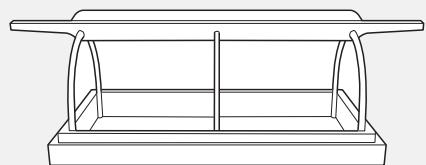
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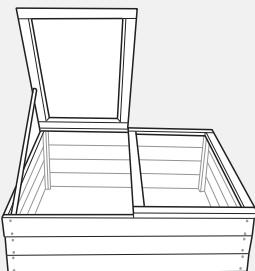
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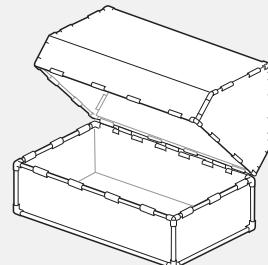
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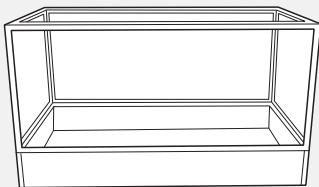


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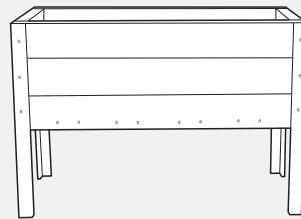


01 Cold Frame Simple hinged door design - by *The Grey Gardener* (*via Youtube*). **02 Modular Greenhouse** Incorporates 3D printed parts - by *Kerle Makerspace* (*via Printables*). **03 Strawberry Pallet Planter** Wooden pallet planter design - by *Tanya Anderson* (*via Lovely Greens*). **04 Cabbage Condo** PVC hoop planter design - by *Bookman14* (*via Instructables*). **05 Cold Frame** Double window cold frame - by *GrowVeg* (*via Youtube*). **06 PVC Cold Frame** PVC Pipe-based cold frame design - by *PVCPlans*.

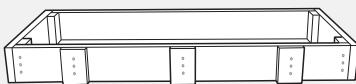
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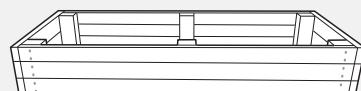
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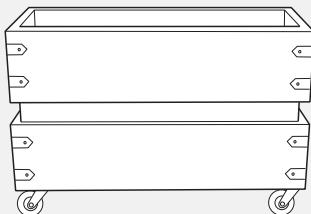
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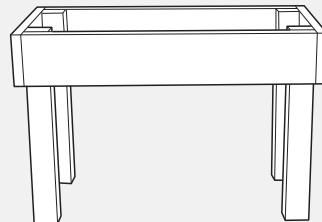
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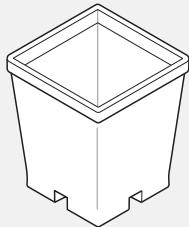


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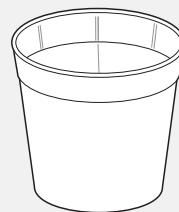


01 Raised Garden Bed Includes cover with hinges - *by HollyMann (via Instructables)*. **02 Raised Planter** Good for growing veg without bending - *by stincup (via Instructables)*. **03 Raised Vegetable Garden** Simple raised bed design - *by Alexandra Bandon (via This Old House)*. **04 Raised Bed** Easy raised garden bed - *by WoodLogger*. **05 Rolling Planter** Build a simple rolling planter - *by Elisha Albretsen (via Building Strong)*. **06 Raised Garden Boxes** Removes need for bending - *by Janet Fox (via Ana-White.com)*.

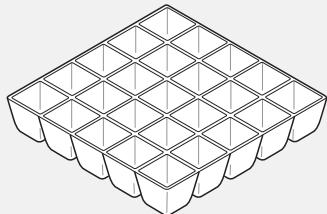
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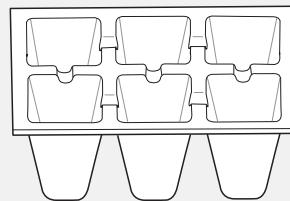
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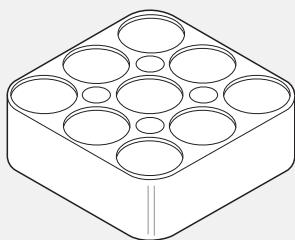
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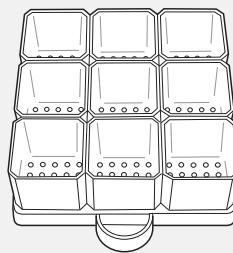
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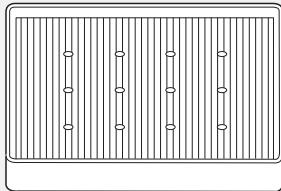


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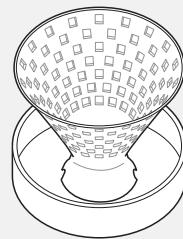


01 Generic Greenhouse Pots Stackable square pot design - by BioLumo (*via Thingiverse*). **02 Basic Nursery Pot** In 55mm and 85mm. Stackable design - by scitor (*via Printables*). **03 5x5 Seed Starter Trays** 187mm (7.3") squared 5x5 design - by Amdrin (*via Thingiverse*). **04 Seed Starter Tray Insert** In 4 and 6 cell variations - by BioLumo (*via Thingiverse*). **05 Jiffy Seedling Planter** 3x3 planet in stackable design - by tcp_j (*via Thingiverse*). **06 Seed Starter** Seed starter kit. Parametric - by Quint (*via Printables*).

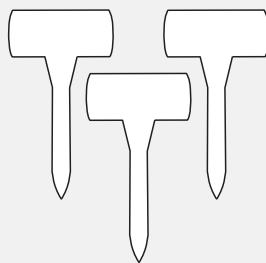
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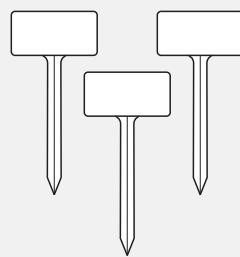
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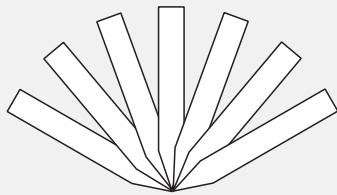
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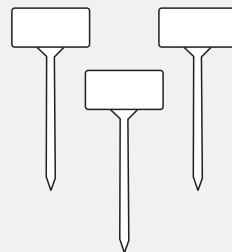
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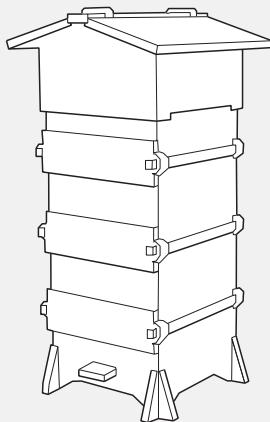


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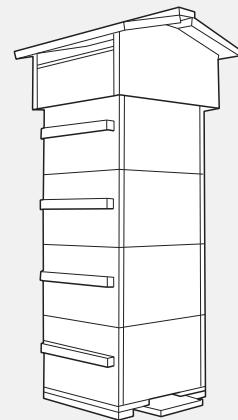


01 Seed Germinator Designed to germinate various size seeds - by *3Dmonios* (*via Printables*). **02 Self Watering Planter** Seedling planter. Uses coffee filters - by *Quenta* (*via Thingiverse*). **03 Plant Label Sign** Label signs for pots & plants - by *Merrild_* (*via Printables*). **04 Write-on Label** Simple, strong plant label - by *Rainbowstrikes* (*via Printables*). **05 Garden Stakes** Small laser cut garden stakes - by *electromrancher* (*via Thingiverse*). **06 Garden Label** Printable plant labels - by *Chillies* (*via Printables*)

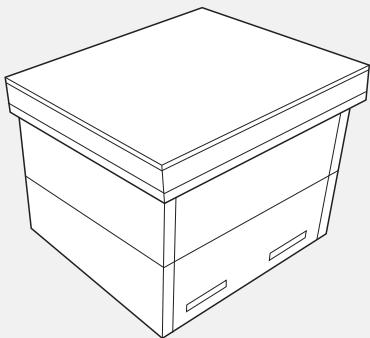
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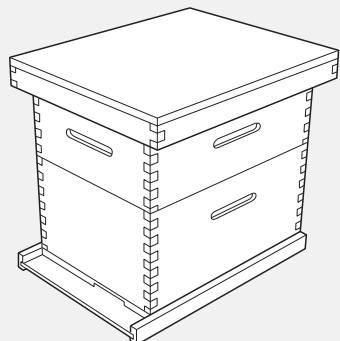
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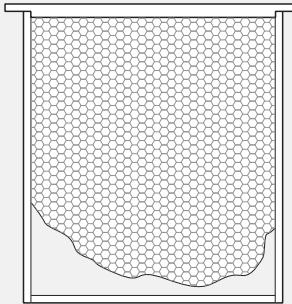


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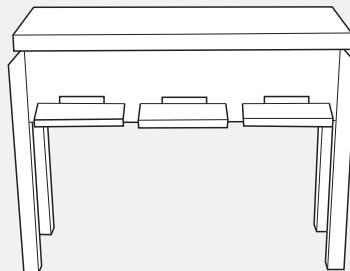


01 Barcelona Warré Beehive Warré hive design. Vertical top bar type - by Open Source Beehives (*via Obrary*). **02 The People's Hive** Plans for constructing a Warré hive - by David Heaf (*via BioBees*). **03 Layens Hive** Horizontal hive based on 19th century design - by *Horizontal Hive*. **04 Bee Hive** Simple design. Uses 3/4" soft wood sheeting - by Garden Way Research (*via OHO Wiki*).

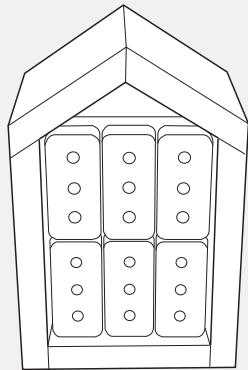
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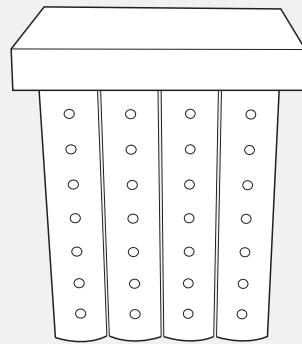
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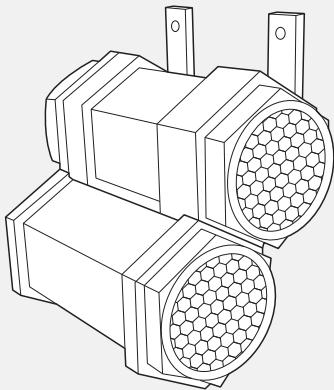


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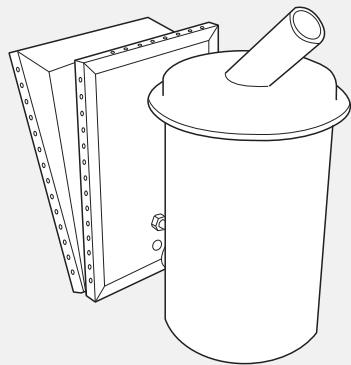


01 Layens Frame Honeycomb frame for Layens hive - by *Horizontal Hive*. **02 Long Langstroth Hive** Horizontal hive. Accepts 31 standard deep frames - by *Horizontal Hive*. **03 Bee Hotel** Small & simple bee house design - by *Sarah Fogle* (*via Ugly Duckling House*). **04 Bee House** Easy beginner bee house for solitary bees - by *WoodLogger*.

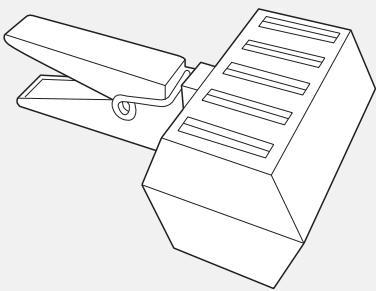
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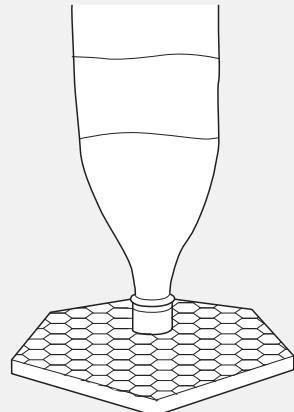
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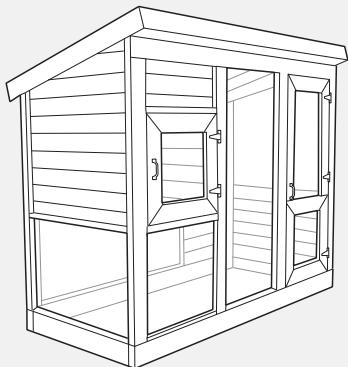


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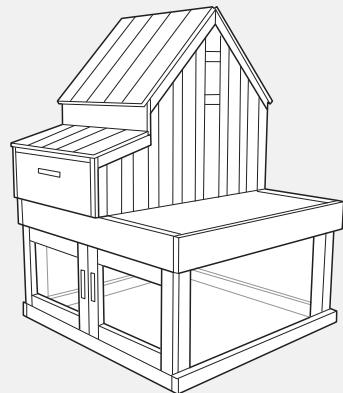


01 Solitary Bees Nest 3D Printable Design. Add bamboo or reeds inside - *by gillis (via Printables)*. 02 Bee Smoker Built with easy-to-locate materials - *by Garden Way Research (via OHO Wiki)*. 03 Cage for Queen Bee Small tool for catching queen bees - *by Robert S (via Printables)*. 04 Awesome Bee Feeder Simple bee feeder, incorporating a PET bottle - *by NicG (via Printables)*.

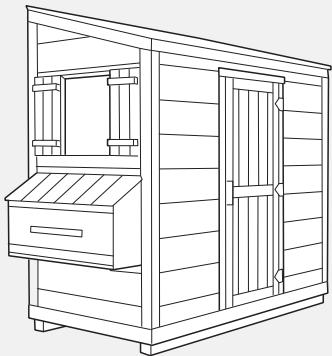
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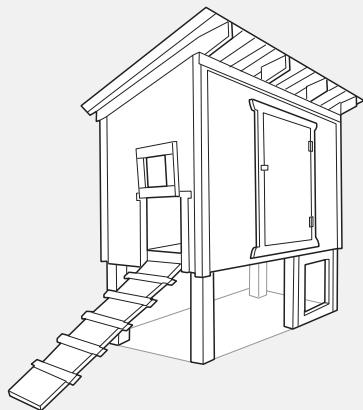
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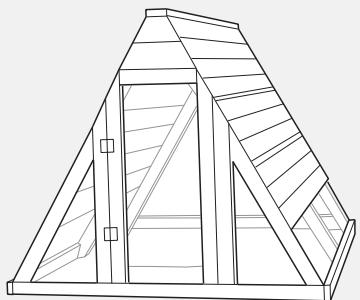


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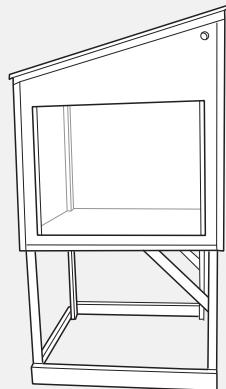


01 Hen Saloon Compact coop, size for 2-6 chickens - by Kericco (*via Instructables*). 02 Small Chicken Coop Includes planter, tray and nesting box - by Ana White (*via Ana-White.com*). 03 Shed Chicken Coop 8x4 Size. Can attach a run to side - by Ana White (*via Ana-White.com*). 04 Urban Chicken Coop 6x3 Raised coop design for backyards - by Lyanda Lynn Haupt (*via The Tangled Nest*).

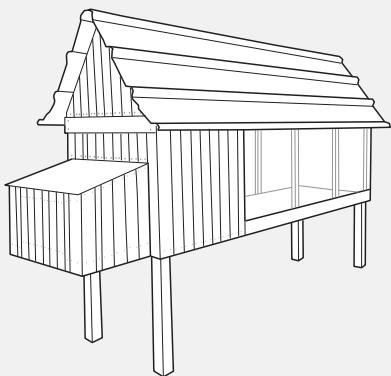
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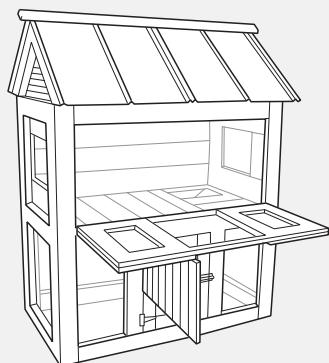
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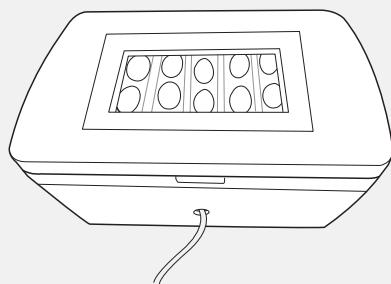


01 A-Frame Chicken Coop Suitable for 3-5 chickens - *by Ana White (via Ana-White.com)*. 02 Chicken Coop Big, cheap, strong design - *by bellinghammakerspace (via Instructables)*. 03 Long Chicken Coop 3x3x10 Long chicken coop design - *by Survivalist81 (via Instructables)*. 04 Small Chicken Coop 2x4 Size. Fits 3 chickens max - *by The Inspired Workshop*.

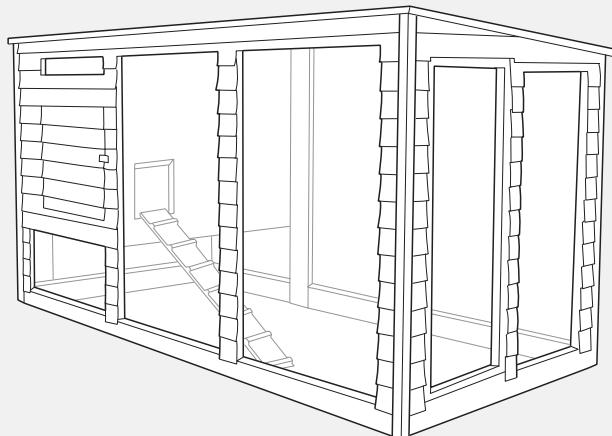
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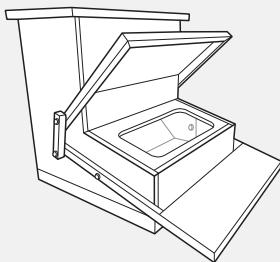


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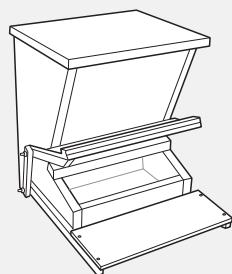


01 **Bluegrass Coop 5x10** Chicken coop design - by *MisterChicken* (*via Backyard Chickens*). 02 **Arduino Egg Incubator Basic** Arduino-controlled foam incubator - by *craineum* (*via Instructables*). 03 **Modern Chicken Coop 5x12**. Designed for up to six chickens - by *RogueEngineer* (*via Building Strong*).

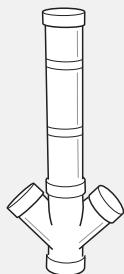
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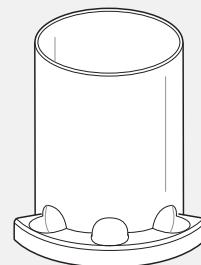
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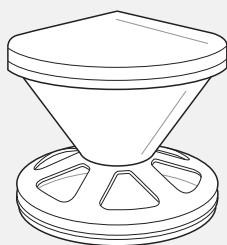
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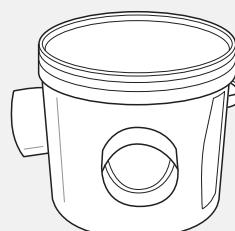
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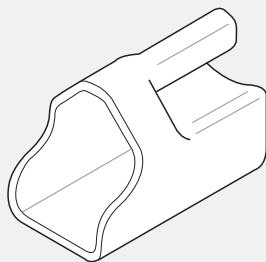


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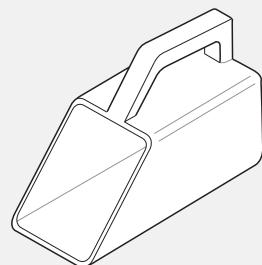


01 Treadle Feeder Designed to only open for chickens - by *Gallo del Cielo* (*via Backyard Chickens*). **02 Treadle Feeder** Another design w/ opening door - by *Rod Johnson* (*via Woodworking Corner*). **03 Feeding Station** Simple chicken feeder made from PVC pipe - by *CressidAM* (*via Instructables*). **04 Feeder** Stops chicks scratching feed - by *Lynola* (*via Printables*). **05 Small Feeder** For chicks - by *mstejska* (*via Printables*). **06 Simple Feeder** Mixes a bucket and PVC pipes - by *lonesoulsurfer* (*via Instructables*).

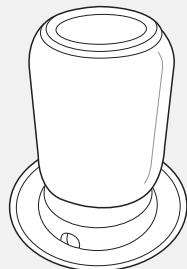
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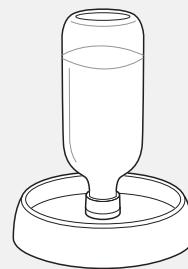
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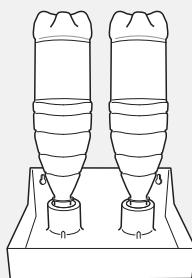
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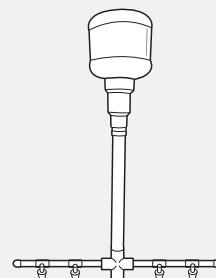
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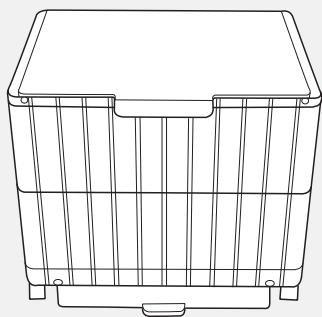


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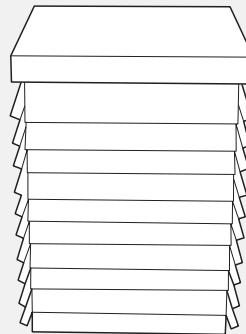


01 1L Feed Scoop Simple 3D printable feed scoop - by *WalPOW* (*via Thingiverse*). **02 Super Scooper** Scales to any size - by *Triple G Workshop* (*via Printables*). **03 Water Dispenser** For chicks, uses a regular mason jar - by *AutumnFrost* (*via Printables*). **04 Chook Water Bowl** Works with both PET and glass bottles - by *Polly-Jeanius* (*via Thingiverse*). **05 Double Chicken Waterer** Uses 2 PET bottles - by *Murdoc* (*via Printables*). **06 PVC Waterer** Keeps your flock watered - by *ugarxfish* (*via Instructables*).

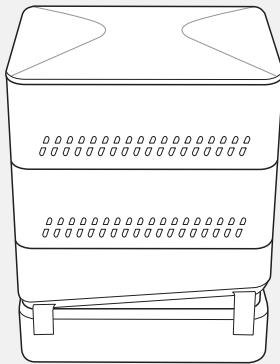
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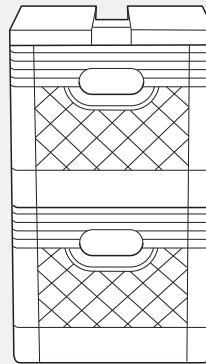
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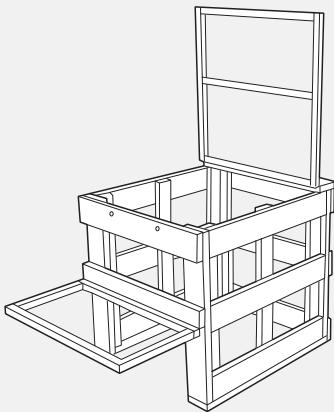


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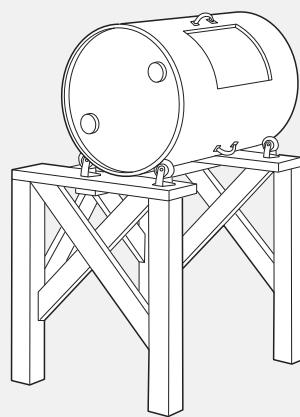


01 Vermicomposter Use worms to create natural fertilizer - by Quint (*via Printables*). **02 Hot Compost Bin** Temperature controlled using Arduino - by fotherby (*via Instructables*). **03 Modular Vermicomposter** Small vermicomposter for your kitchen - by Beef_Salad84 (*via Printables*). **04 Milkcrate Composter** Simple design using stacking crates - by a_abbond (*via Instructables*).

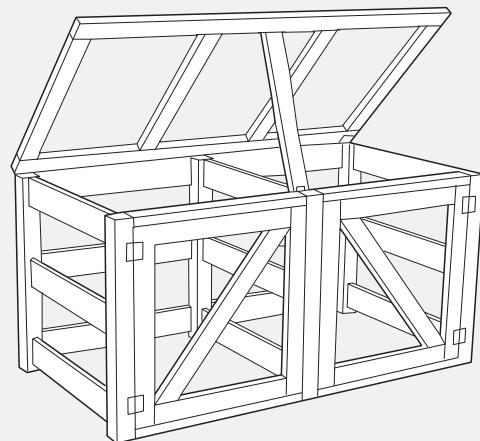
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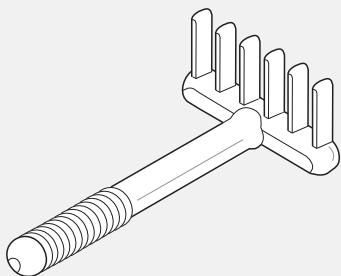


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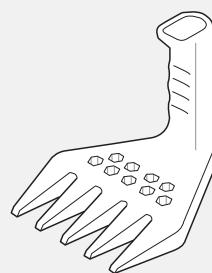


01 Compost Bin Simple robust backyard compost bin - by Jessi Wohlwend (*via Practically Functional*). **02 Tumbling Composter** Large, sturdy compost barrel - by Family Handyman (*via Family Handyman*). **03 Double Compost Bins** Large bins with roof and doors - by RogueEngineer.

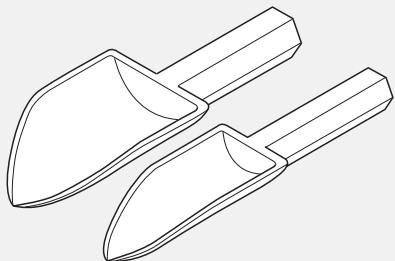
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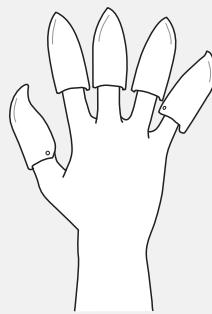
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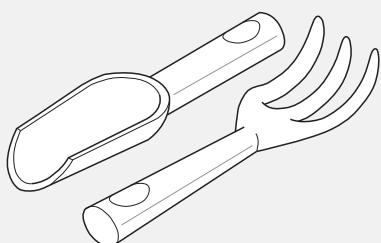
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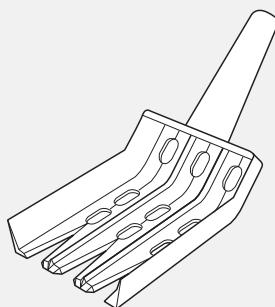
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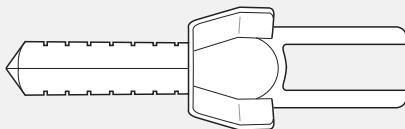


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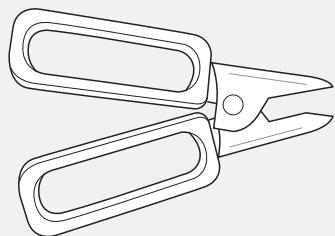


01 Garden Hand Rake Simple 3D printed rake - by MrHanjak (*via Printables*). **02 Ergonomic Tool** Garden tool with upright handle - by mudymaker (*via Printables*). **03 Garden Shovels** Two different garden shovels - by Whity (*via Printables*). **04 Glove Claws** Attachments for hand raking/digging - by Mian0109 (*via Printables*). **05 Gardening Tools** Contains both a hand rake and small shovels - by MrHanjak (*via Printables*). **06 Weeding Tool** Designed to remove weeds (inc roots) - by Jasper (*via Printables*).

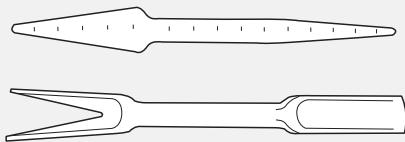
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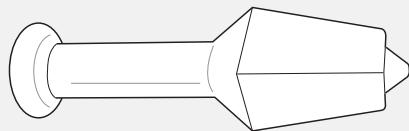
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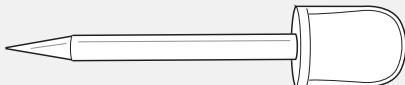
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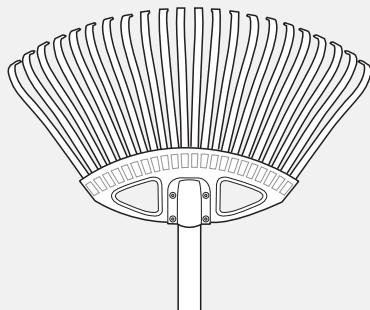
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01 Seed Planter Makes seed planting easy - by A_Str8 (*via Printables*). **02 Seedling Planter Scoop** Makes planting seedling pods easy - by MrC (*via Printables*). **03 Seedling Dibblers** Set of 2 mini dibblers for seedlings - by Phio79 (*via Printables*). **04 Seed Planting Tool** Pokes holes in soil to make planting easy - by ex-nerd (*via Thingiverse*). **05 Small Dibber** Double sided tool for planting - by Tango Five Creations (*via Printables*). **06 Rake** Simple rake with interchangeable teeth - by RostaP (*via Printables*).

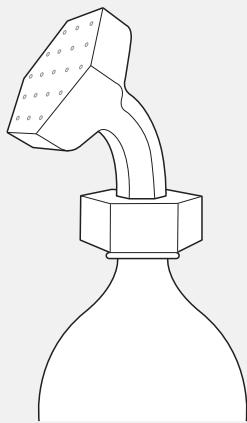
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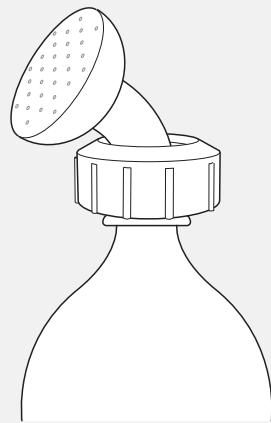
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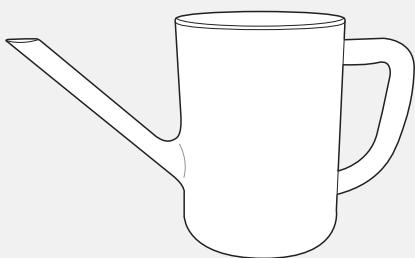


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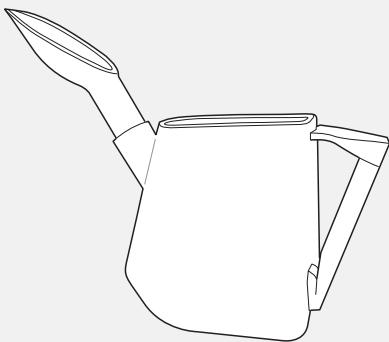


01 Watering Spike Customizable. Connects to PET bottles - by Joseph Clarke (*via Printables*). **02 Self-Watering Bottle** Attachment connects to PET bottles - by bweath (*via Printables*). **03 Watering Bottle Cap** No squeezing. Built-in anti-vacuum system - by Frankee (*via Printables*). **04 Watering Bottle Cap** Turn any bottle into a watering can - by agners (*via Printables*).

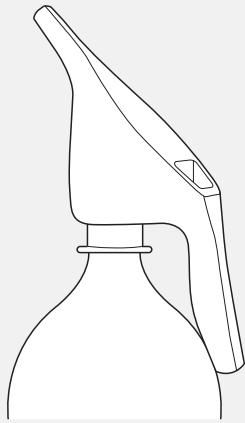
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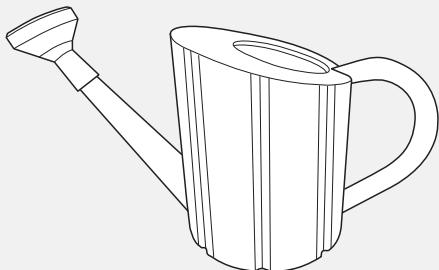
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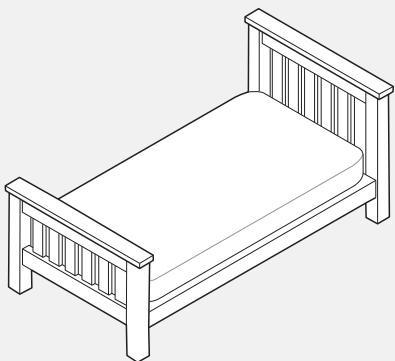


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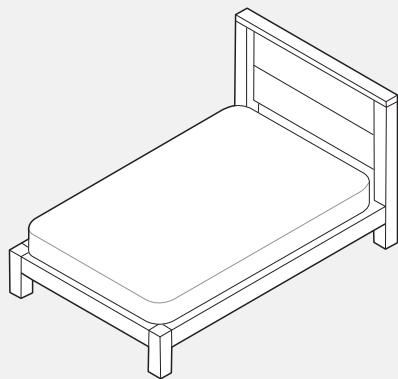


01 Mini Seedling Watering Can Simple, easy to print mini watering can - by *The save room* (*via Printables*). **02 Multipurpose Watering Can** Has detachable shovel and rake - by *Tim-Yannick* (*via Printables*). **03 Water Can** Connects to PET bottles for easy watering - by *Cisco3D* (*via Printables*). **04 Watering Can** Watering can + rose for watering plants - by *Les Kaye* (*via Printables*).

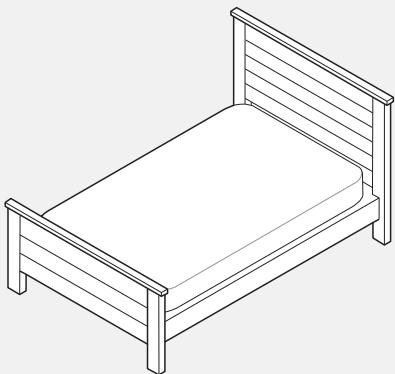
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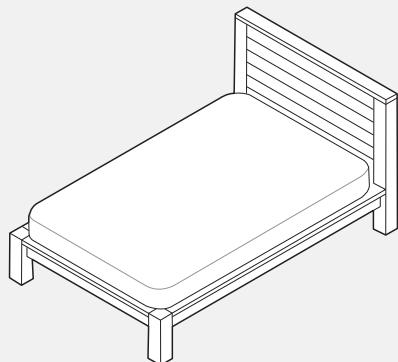
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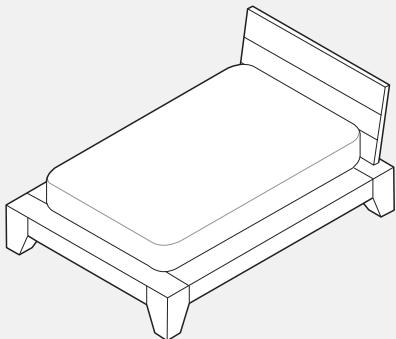


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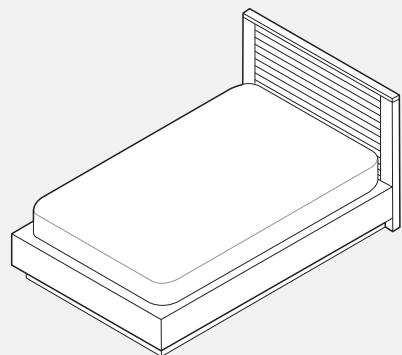


01 Twin-sized Bed - by Ana White (*via Ana-White.com*). 02 Modern Farmhouse Bed - by Ana White (*via Ana-White.com*).
03 Queen Size Farmhouse Bed - by The Creative Mom (*via KregTool*). 04 Modern Farmhouse Bed - by Ana White (*via Ana-White.com*).

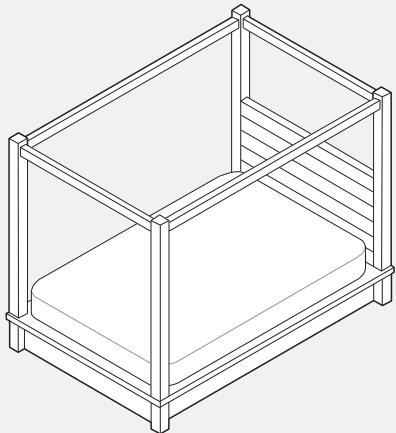
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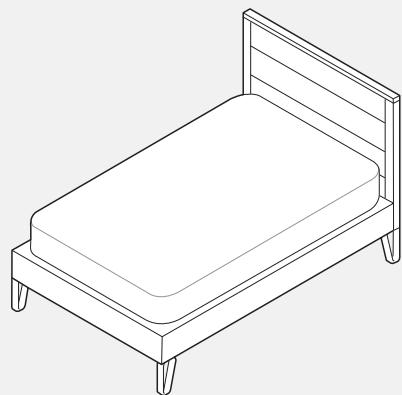
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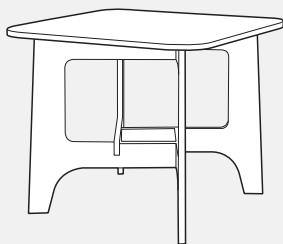


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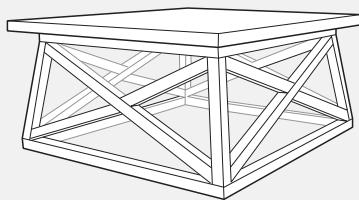


01 Platform Bed - by Kreg Tool. 02 Simple Floating Bed - by Ana White (*via Ana-White.com*). 03 Canopy Bed - by Shanty2Chic.
04 Modern Full Sized Bed - by Shanty2Chic.

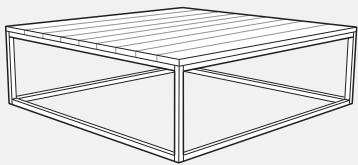
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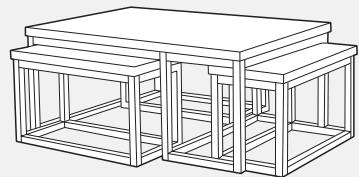
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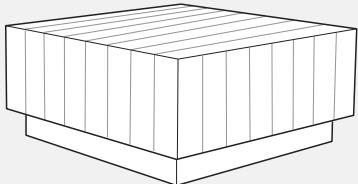
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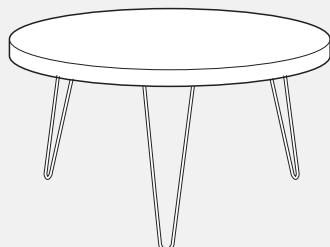
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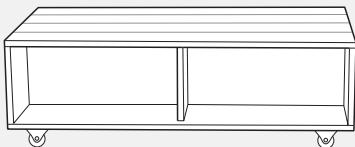


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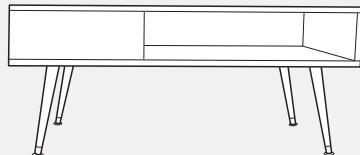


01 Cat in Bag CNC Table - by AtFAB. 02 Square Coffee Table - by Anika Gandhi (*via Anika's DIY Life*). 03 Industrial Coffee Table - by Kourtni Muñoz (*via House on Longwood Lane*). 04 Nesting Coffee Tables - by PneumaticAddict. 05 Square Coffee Table - by Amy Anderson (*via DIY Candy*). 06 Round Coffee Table - by Mike Montgomery (*via Modern Builds*).

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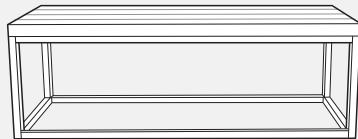
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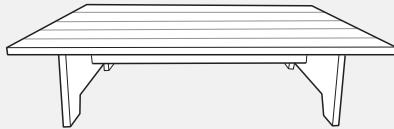
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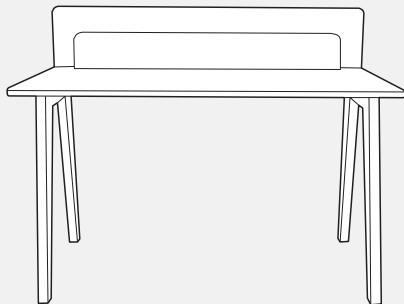


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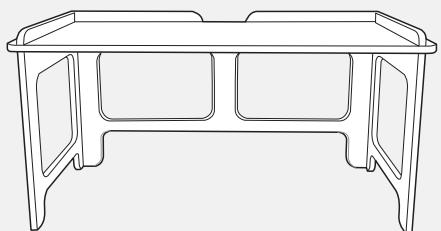


01 1x12 Coffee Table - by Ana White ([via Ana-White.com](http://Ana-White.com)). 02 Mid-Century Coffee Table - by Mike Montgomery ([via ModernBuilds.com](http://ModernBuilds.com)). 03 Elliot Coffee Table - by RogueEngineer. 04 Industrial Style Table - by Ana White ([via Ana-White.com](http://Ana-White.com)). 05 Large Coffee Table - by RogueEngineer. 06 Farmhouse Coffee Table - by HerToolBelt.

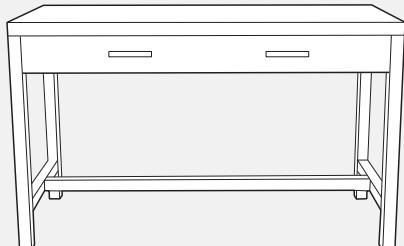
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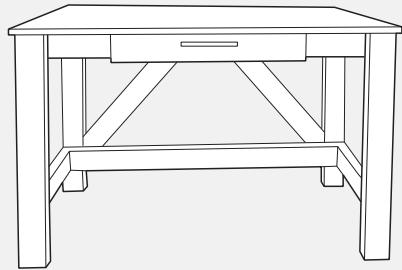


04



01 Lindsay Desk - by RogueEngineer. 02 Nell Desk - by Guy Wolstenholme (via Obrary). 03 Writing Desk with Drawer - by Ana White (via Ana-White.com). 04 Modern Wood Desk - by Kourtini Muñoz (via House on Longwood Lane).

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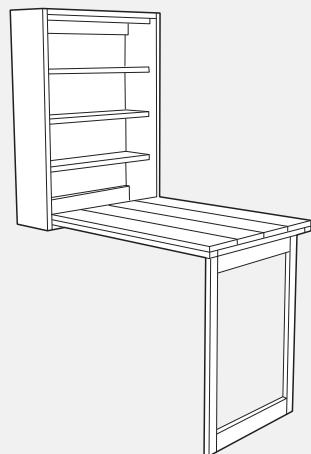


01 Brookstone Desk - by Ana White (*via Ana-White.com*). 02 Glitch Desk - by noThrow Design. 03 Simple Modern Desk - by Ana White (*via Ana-White.com*). 04 Waterfall Writing Desk - by Shanty2Chic.

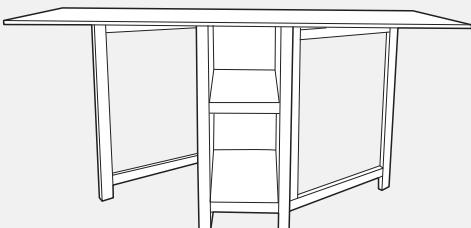
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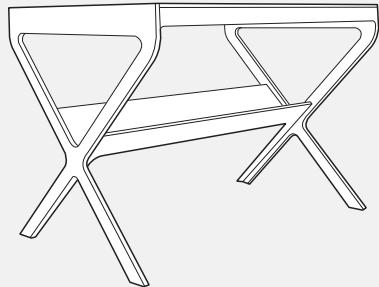
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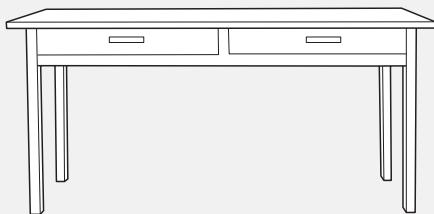


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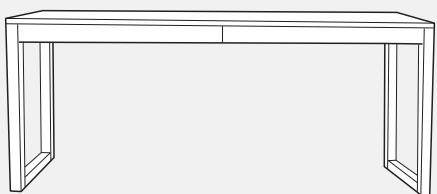


01 Flip Top Secretary Desk - by Shanty2Chic. 02 Wall-Mounted Murphy Desk - by Shanty2Chic. 03 Folding Desk - by Bettina Johnson (via Remodelaholic). 04 Clare CNC Desk - by Scott Austin (via Obrary).

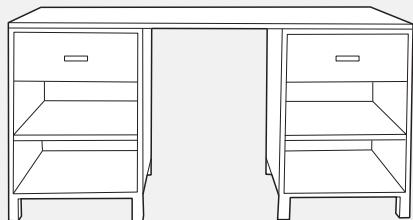
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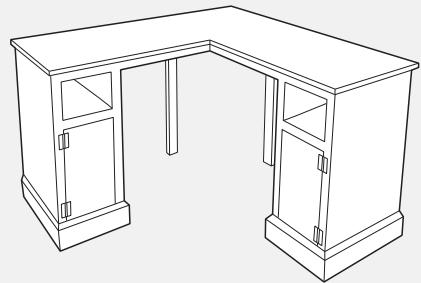
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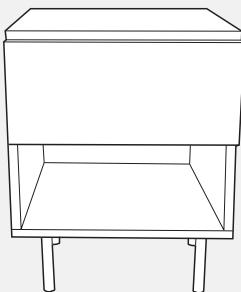


01 Simple Writers Desk - by Jen Woodhouse. 02 Long Desk - by Ana White (*via Ana-White.com*). 03 Cubby Storage Desk - by Shanty2Chic. 04 Corner Desk - by Shanty2Chic.

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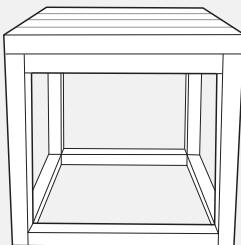
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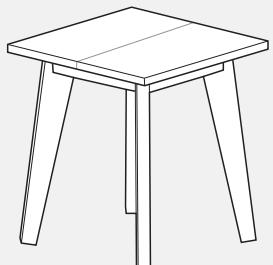
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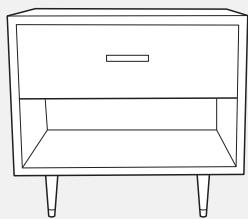


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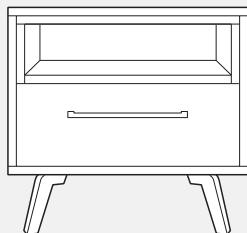


01 Round Mid Century Side Table - by Mandi Johnson (via A Beautiful Mess). 02 Mid Century Side Table - by RogueEngineer. 03 Three Leg End Table - by PneumaticAddict. 04 Snap Table - by CNC Craft. 05 Industrial Side Table - by Brad Rodriguez (via FixThisBuildThat). 06 Tapered Leg Side Table - by RogueEngineer.

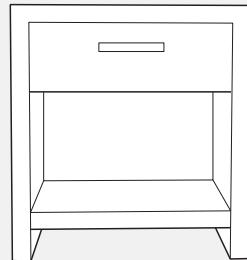
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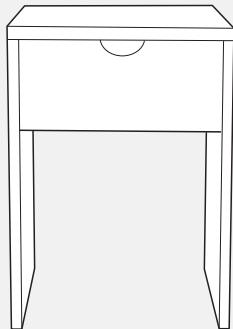
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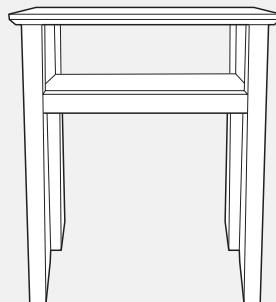
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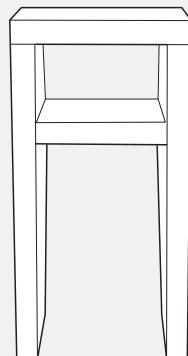
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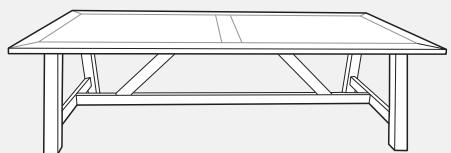


01 Midcentury Nightstand - by [Build Basic](#). 02 Midcentury Nightstand - by [Woodshop Diaries](#). 03 Waterfall Edge Nightstand - by [PneumaticAddict \(via KregTool\)](#). 04 Wood Nightstand - by [The Merrythought](#). 05 Ashley Nightstand - by [HerToolBelt](#).
06 Parsons Nightstand - by [Mandi Johnson \(via A Beautiful Mess\)](#).

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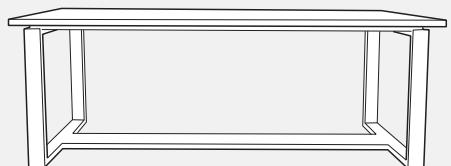
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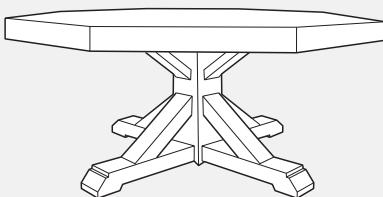


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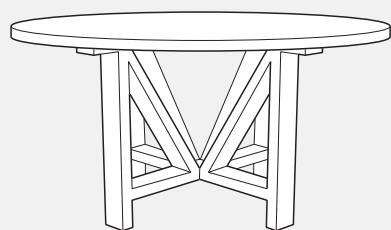


01 Modern Dining Table - by WoodBrew. 02 Outdoor Dining Table - by Todd Dermody (via Dunn Lumber). 03 Hardwood Dining Table - by Mike Montgomery (via Modern Builds). 04 Split Top Dining Table - by Mike Montgomery (via Modern Builds). 05 Costa Brava Table - by noThrow Design. 06 Concrete Dining Table - by Bri Venzke.

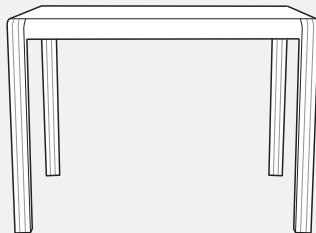
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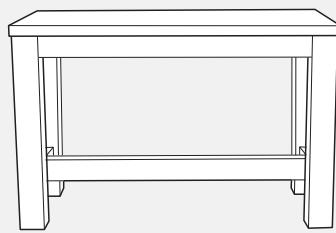
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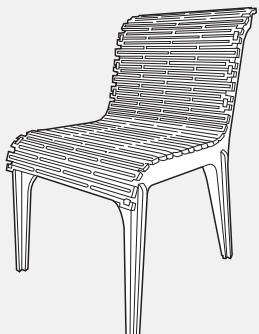


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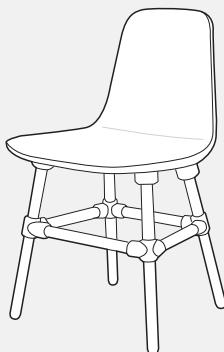


01 Octagon Dining Table - by Ashley Johnston (via Make it & Love it). 02 Round Trestle Dining Table - by RogueEngineer. 03 Layer Table - by Dyvik Design (via Obrary). 04 Counter Height Farmhouse Table - by Ana White (via Ana-White.com). 05 Chunky Dining Table - by Jen Woodhouse. 06 Floresta Dining Table - by noThrow Design.

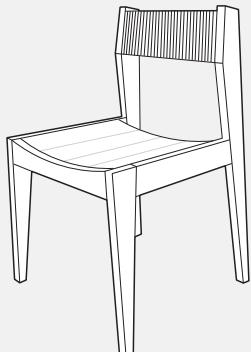
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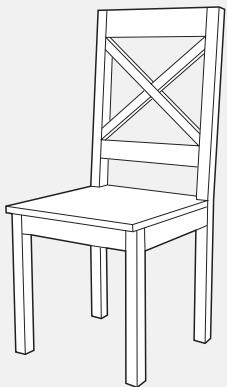
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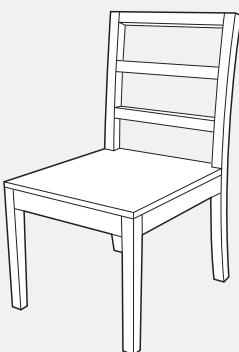
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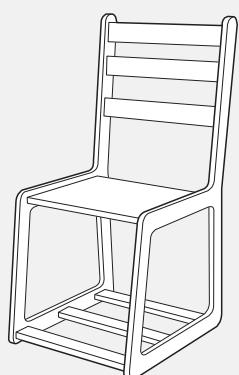
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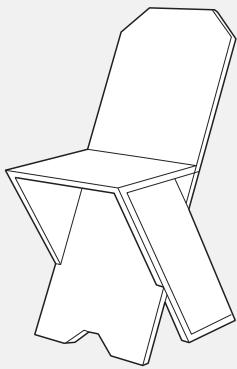


01 Alex Chair - by Alex Zhang (*via Obrary*). 02 Maker Puzzle Chair - by Bits&Parts. 03 Twine Chair - by noThrow Design. 04 Easy Dining Chair - by Designs by Studio C. 05 Anna Chair - by Designs by Studio C. 06 One Day Chair - by OomLout (*via Thingiverse*).

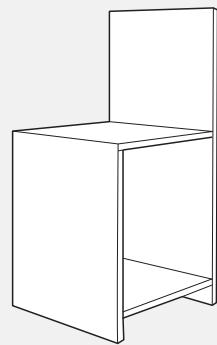
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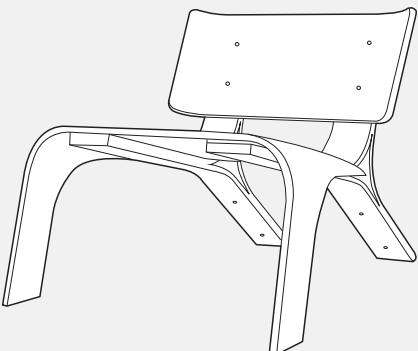
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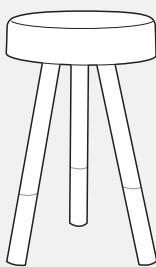


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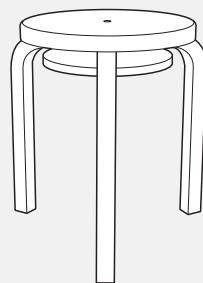


01 P9C Chair - by Alejandro Palandjoglou (via Instructables). 02 Modern Plank Chair - by Timisha Porcher (via Sawdust Girl). 03 Minimalist Plywood Chair - by Miranda Anderson (via MakeZine). 04 Layer Chair - by Dyvik Design (via Obrary). 05 CC Plywood Chair - by Kaj Niegmann (via Instructables).

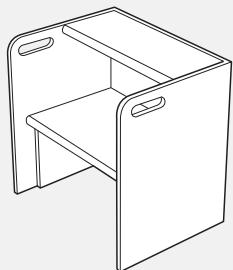
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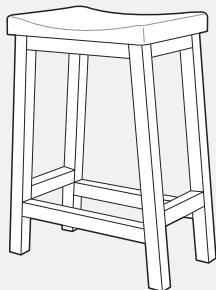
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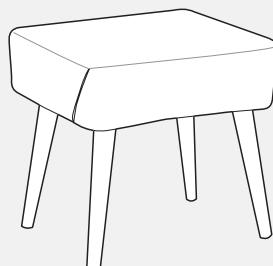
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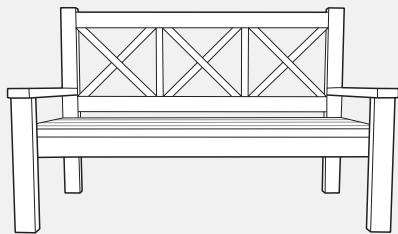


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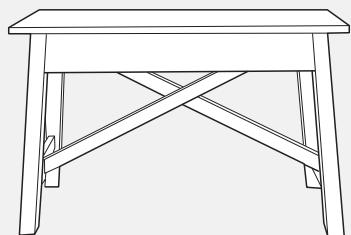


01 Concrete Bucket Stool - by Ben Uyeda (*via HomeMade Modern*). 02 Stackable Aalto Stools - by Will Patrick (*via Instructables*). 03 Wooden Step Stool - by Amy Anderson (*via DIY Candy*). 04 Layer Stool - by Dyvik Design (*via Thingiverse*). 05 Counter Height Bar Stool - by RogueEngineer. 06 No-Sew Footstool - by Build Basic.

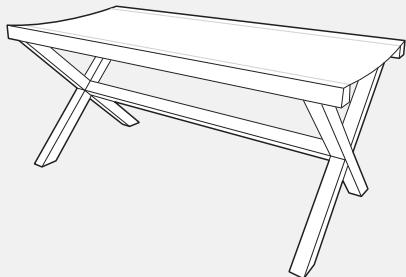
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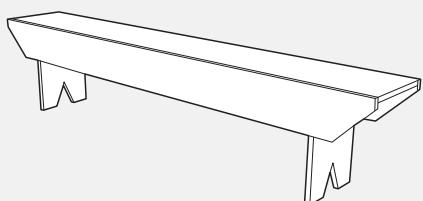
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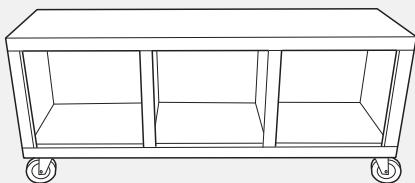
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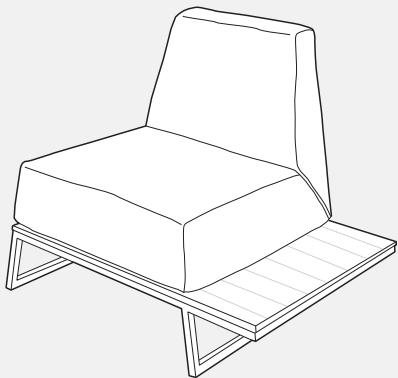


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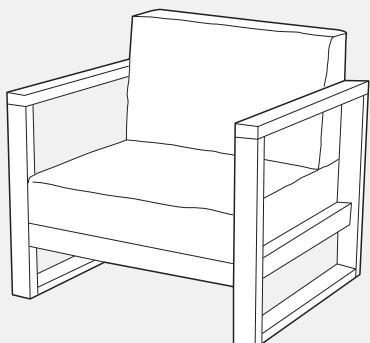


01 Large Outdoor Bench - by Ana White ([via Ana-White.com](http://Ana-White.com)). 02 Splayed Leg X Bench - by Ana White ([via Ana-White.com](http://Ana-White.com)).
03 Leather Directors Bench - by Elisha Albretsen ([via Remodelaholic](http://Remodelaholic)). 04 Primitive Bench - by Ana White ([via Ana-White.com](http://Ana-White.com)).
05 Rolling Cubby Bench - by Ana White ([via Ana-White.com](http://Ana-White.com)). 06 Outdoor Wood Bench - by Ana White ([via Ana-White.com](http://Ana-White.com)).

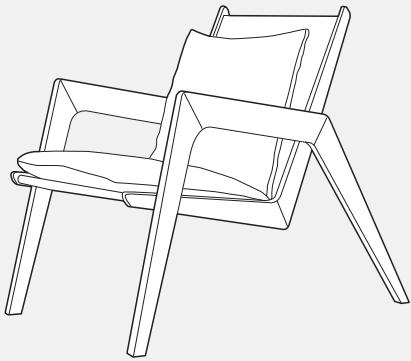
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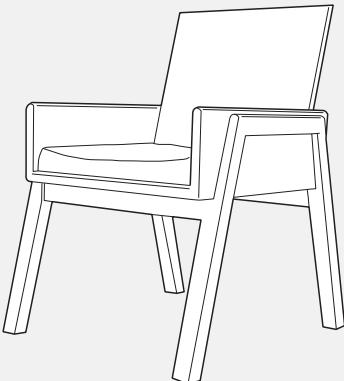
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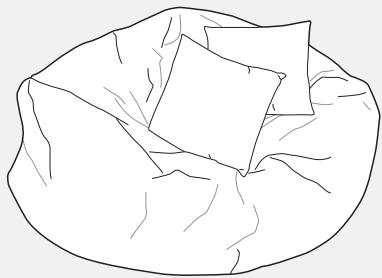


01 Bamboo One-Seater - by noThrow Design. 02 Modern Outdoor Chair - by Kourtni Muñoz (via House on Longwood Lane).
03 Midcentury Lounge Chair - by JonLee48 (via Instructables). 04 Stair Tread Armchair - by PneumaticAddict.

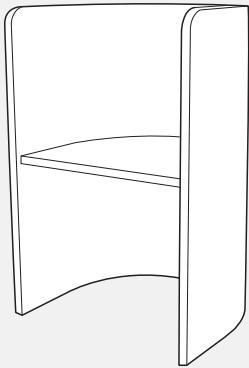
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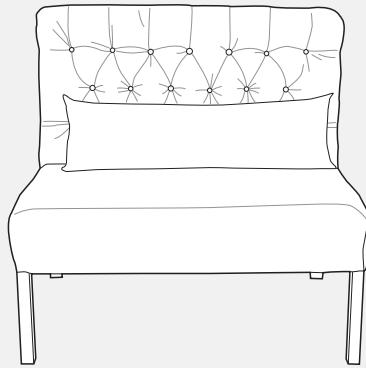
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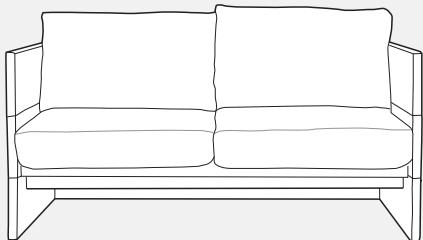


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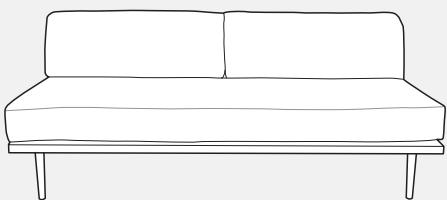


01 Bean Bag Chair - by Hungarican Journey. 02 Bean Bag Chair - by Mollie Johanson (via The Spruce Crafts). 03 Curved Plywood Chair - by 3X3 Custom. 04 Upholstered Settee - by Ana White (via Ana-White.com).

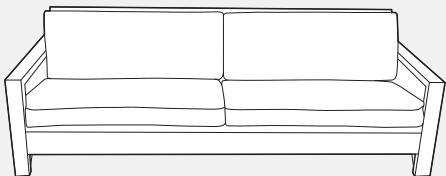
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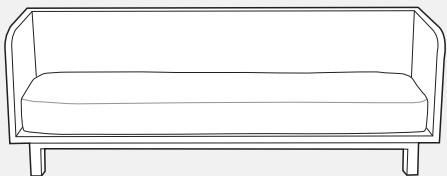
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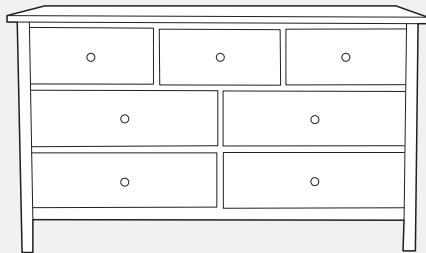


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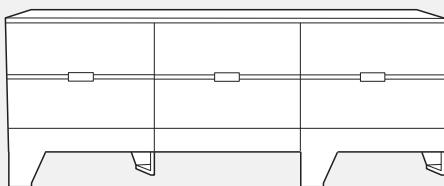


01 Box Sofa - by Ben Uyeda (via HomeMade Modern). 02 Midcentury Sofa - by Mike Montgomery (via Modern Builds).
03 Outdoor Sofa - by Ana White (via Ana-White.com). 04 Modern Sofa - by Polkilo (via Instructables).

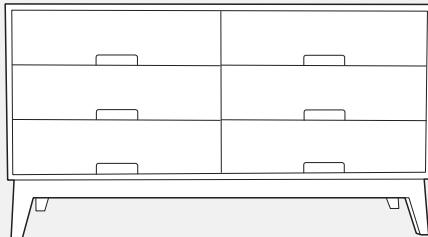
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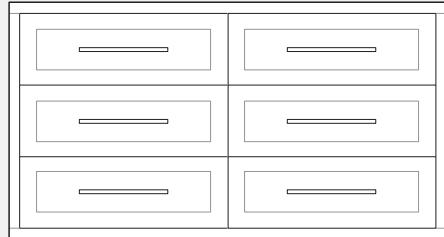
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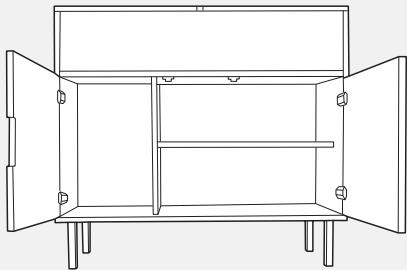


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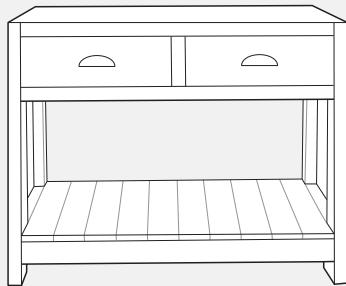


01 Extra Wide Dresser - by Ana White (*via Ana-White.com*). 02 Chest of Drawers - by AtFAB. 03 Steppe Dresser - by Lindsay Ballard (*via Makely*). 04 Minimalist Modern Dresser - by Ana White (*via Ana-White.com*).

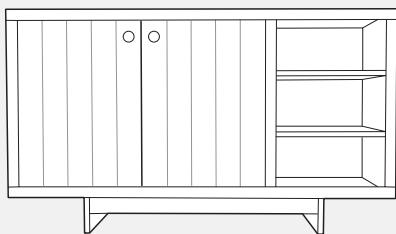
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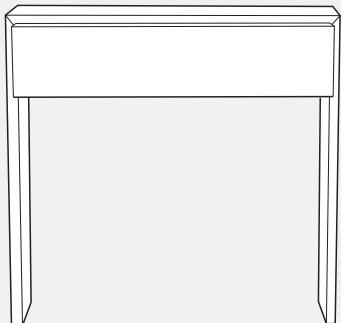
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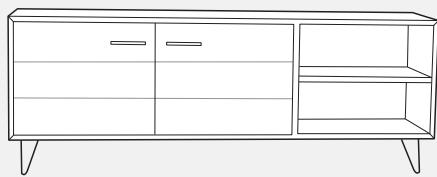


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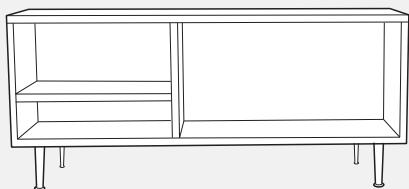


01 Record Console / Minibar - by PneumaticAddict. 02 Rustic Console Table - by The Navage Patch. 03 Midcentury Modern Console - by Ana White (*via Ana-White.com*). 04 Waterfall Console Table - by Jen Woodhouse.

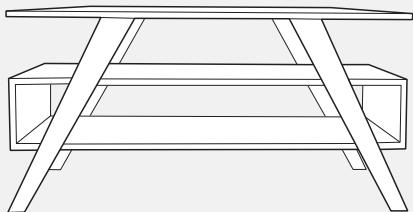
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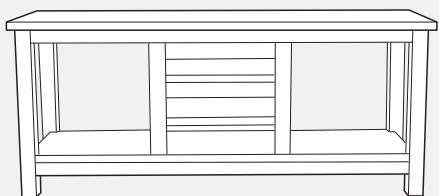
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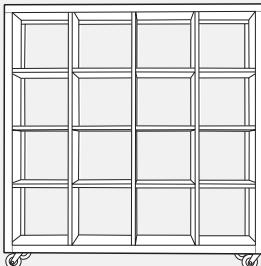
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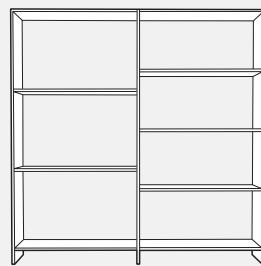
01 Long Modern Media Console - by Ana White (*via Ana-White.com*). 02 Midcentury Console Table - by Mike Montgomery (*via Modern Builds*). 03 Midcentury Media Console - by RogueEngineer. 04 Easy-To-Build TV Stand - by Kreg Tool.

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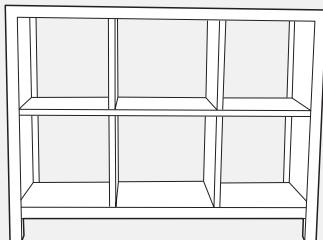
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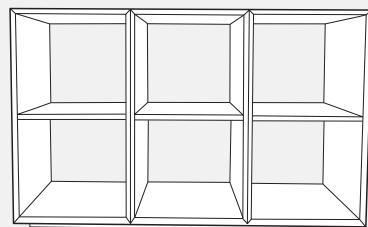
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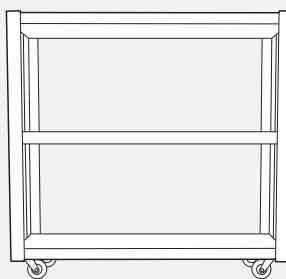
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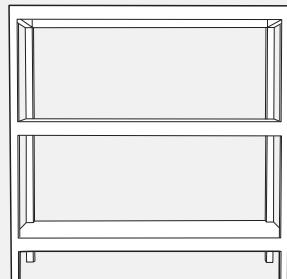
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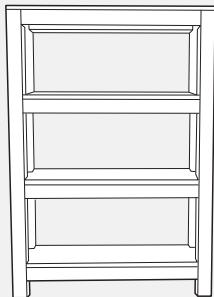


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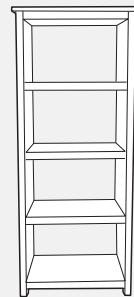


01 4x4 Rolling Cube Shelf - by Ana White ([via Ana-White.com](http://Ana-White.com)). 02 Modular 2x4 Face Frame Bookshelf - by Ana White ([via Ana-White.com](http://Ana-White.com)). 03 6 Cube Organizer - by Ana White ([via Ana-White.com](http://Ana-White.com)). 04 Storage Unit - by RogueEngineer. 05 Industrial Cart - by Ana White ([via Ana-White.com](http://Ana-White.com)). 06 Metal Industrial Bookshelf - by Mike Montgomery ([via ModernBuilds.com](http://ModernBuilds.com)).

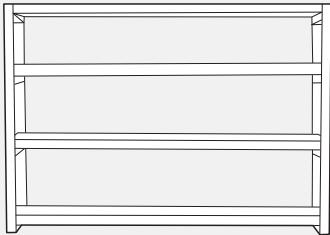
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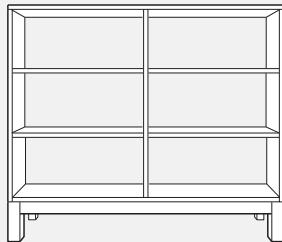
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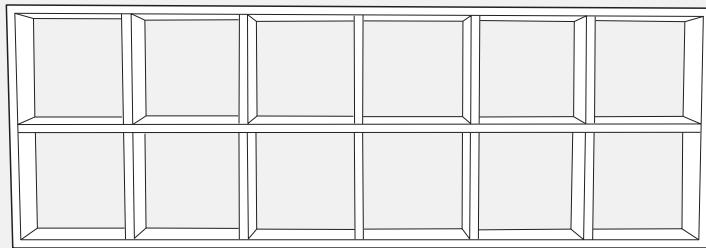
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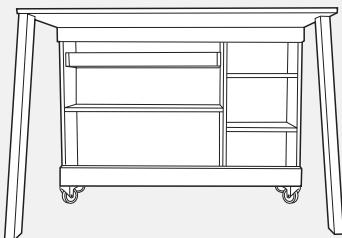


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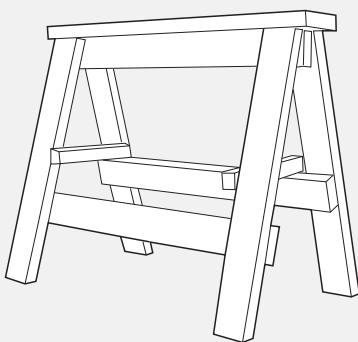


01 Easy Garage Shelves - by PneumaticAddict. **02 Rustic Bookshelf** - by Ana White (*via Ana-White.com*). **03 Ironbound Bookcase** - by Ben Uyeda (*via Homemade Modern*). **04 Plywood Bookshelf** - by Woodshop Diaries (*via Kreg Tool*). **05 Long Shelving Unit** - by Ana White (*via Ana-White.com*).

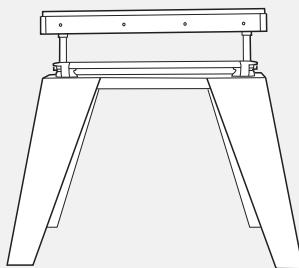
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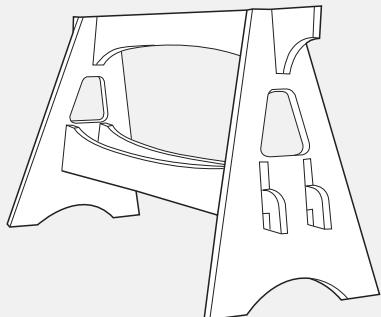
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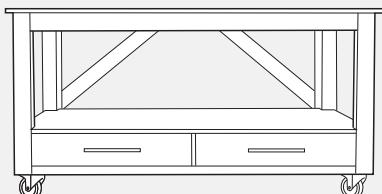
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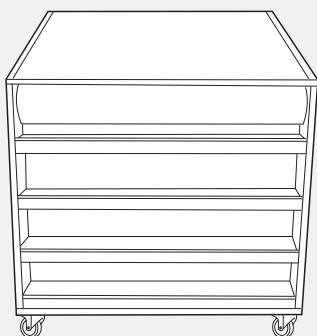


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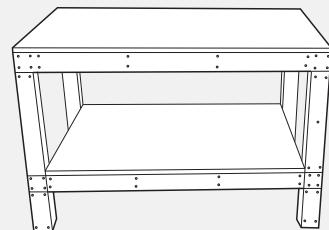


01 Folding Workbench - by Ana White ([via Ana-White.com](http://Ana-White.com)). 02 Heavy Duty Sawhorse - by PneumaticAddict. 03 Adjustable Sawhorse - by PneumaticAddict. 04 Plywood Sawhorse - by PnHoa Doan ([via Obrary](http://Obrary)). 05 Workbench - by Woodshop Diaries.

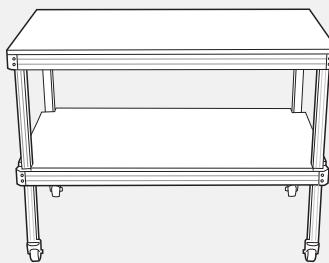
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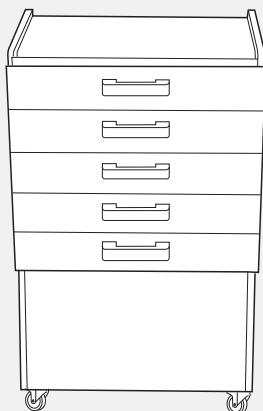
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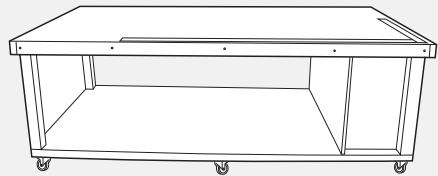
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01 Portable Workbench - by RogueEngineer. 02 Workshop Workbench - by Ana White (*via Ana-White.com*). 03 Workstation Cart - by Windell Oskay (*via Evil Mad Scientist*). 04 OpenBuilds Table - by OpenBuilds. 05 Mobile Workbench - by Woodshop Diaries.

171 MISC HARDWARE / HANDLES

01



02



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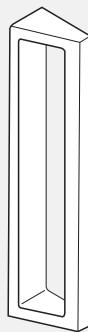
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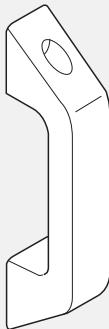


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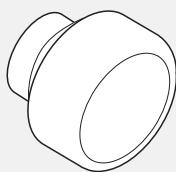


01, 02, 03, 04, 05, 06 Handle Collection Various 3D-printed drawer/cupboard handles - by djedje_zr7 (*via Printables*).

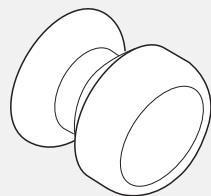
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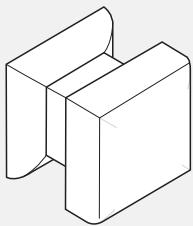
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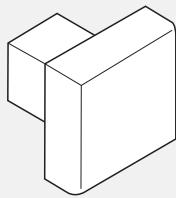
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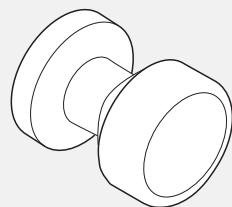
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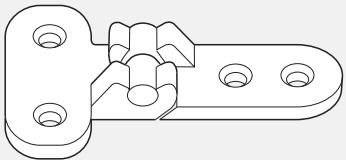


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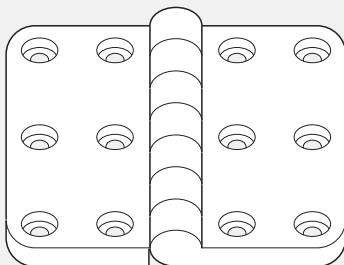


01, 02, 03, 04, 05, 06 General Purpose Handles Large collection of customizable handles for single & dual screw use - by *Code and Make* (*via Printables*)

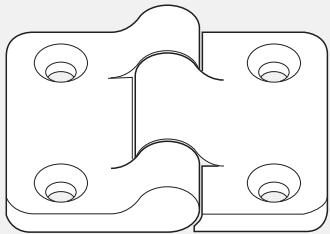
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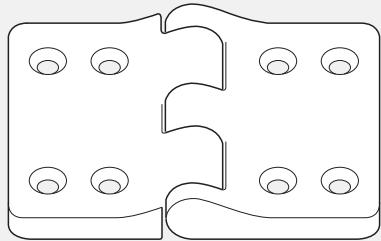
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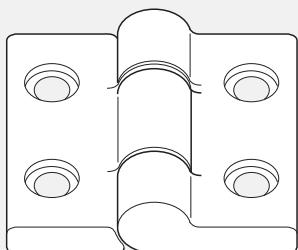
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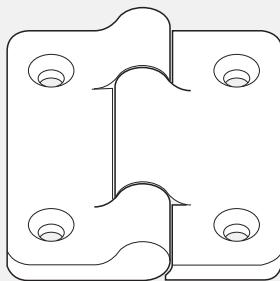


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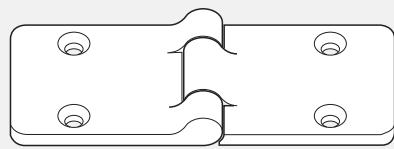


01 Modular Hinge Simple hinge design that clips together - by [JCW \(via Printables\)](#). **02 Parametric Hinge** Customizable parametric design for multi-sizes - by [Rohin Gosling \(via Thingiverse\)](#). **03 Hinge Generator** Generate and print all the hinges you need - by [ICant3DPrint \(via Printables\)](#). **04 Ridged Hinge** Print-in-place hinge. Works fine with PETG - by [Alex \(via Printables\)](#). **05 Simple Hinge** Another simple print-in-place hinge - by [remotelove \(via Printables\)](#).

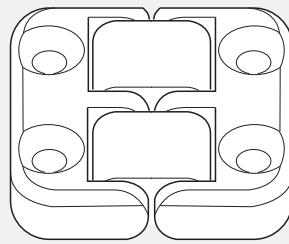
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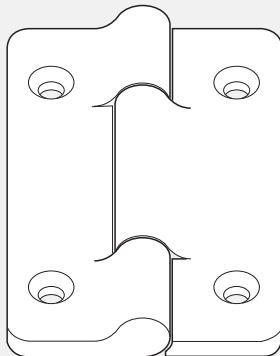
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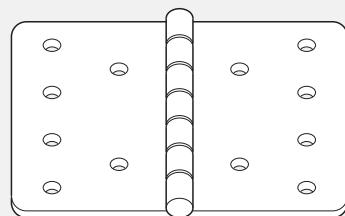
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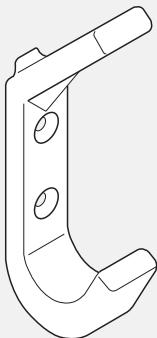


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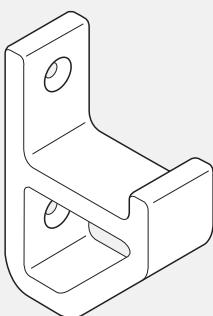


01, 02, 03 Hinge Generator Generate and print all the hinges you need - by [ICant3DPrint](#) (*via Printables*). **04 Reversible Hinge** Single print hinge that can swing both ways - by [ImAThingsGuy](#) (*via Printables*). **05 Printable Hinge** 3D-printed hinge. Comes in two different sizes - by [Josef Průša](#) (*via Printables*).

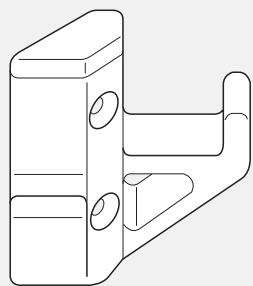
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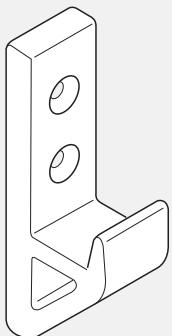
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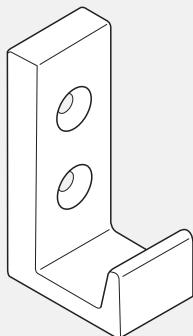
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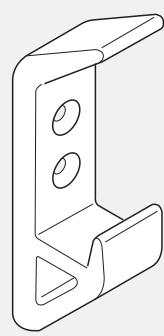
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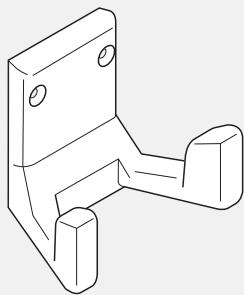


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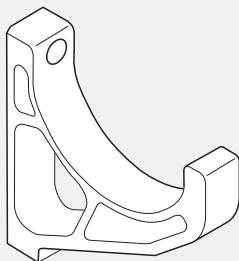


01 Coat Hook - by DusanJ (*via Printables*). 02 Multiple Purpose Hook - by Spicy Filament (*via Printables*). 03 Strong Dual Hook - by The3Designer (*via Printables*). 04, 05, 06 Wall Hook Collection (8 Designs) - by Buzzz (*via Printables*).

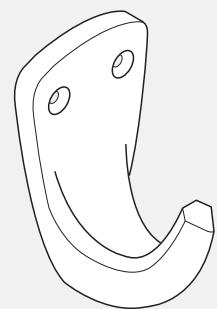
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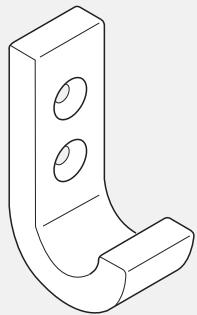
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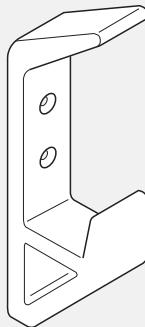
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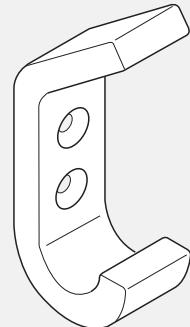
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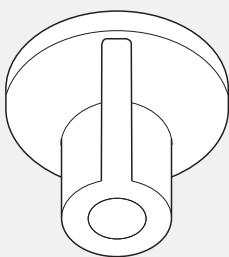


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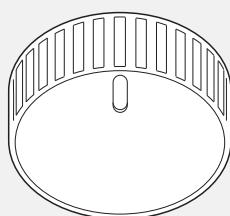


01 Split Wall Hook - by Sterflex3D (*via Printables*). 02 Strong Wall Hook - by itguru (*via Printables*). 03 Wall Hook - by PRSPR (*via Printables*). 04, 05, 06 Wall Hook Collection (8 Designs) - by Buzzz (*via Printables*).

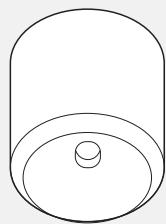
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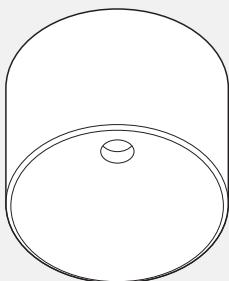
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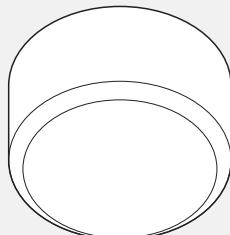
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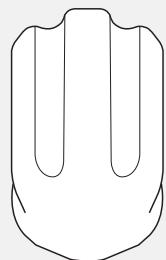
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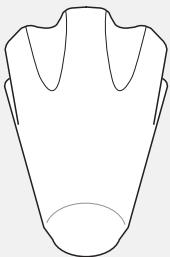


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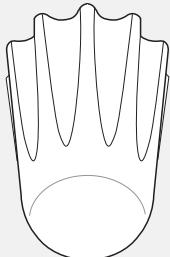


01, 02, 03, 04, 05 Replacement Knob Pack Customizable and modular 3D-printed knobs - by Bryce (*via Printables*).
06 Potentiometer Knobs Knobs designed for use on potentiometers - by ICant3DPrint (*via Printables*).

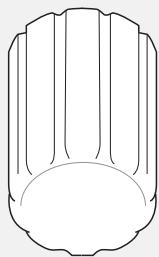
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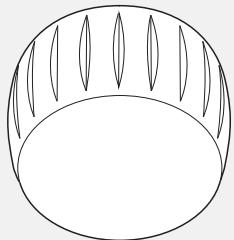
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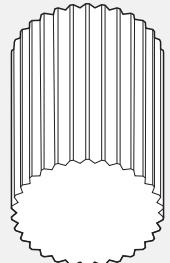
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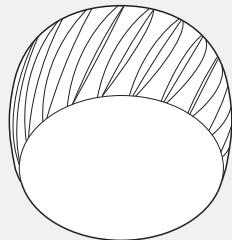
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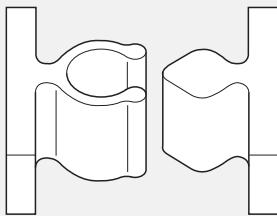


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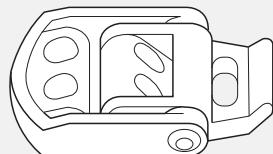


01, 02, 03, 04, 05, 06 Potentiometer Knobs designed for use on potentiometers - by *ICan3DPrint (via Printables)*.

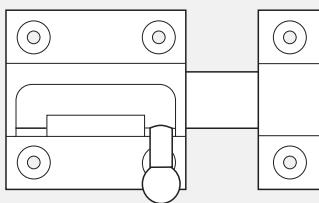
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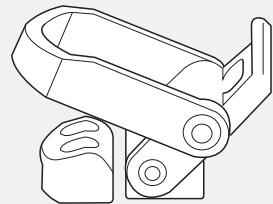
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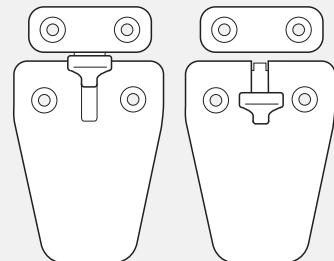
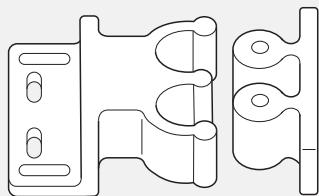
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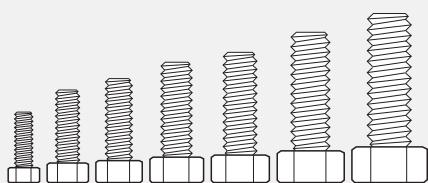


05



01 Door Latch Simple latch secures doors or folding shelves - *by Grant (via Printables)*. **02 Draw Latch** Small but sturdy latch. The design uses M3 bolts - *by Matereo (via Printables)*. **03 Sliding Latch** Simple sliding latch design. Print-in-place - *by Arturs Bricis (via Printables)*. **04 Spring Latch** Door lock can use rubber band or metal spring - *by Meister Edel (via Printables)*. **05 Strong Latch** Ultra strong latch for drawers or closets - *by M S (via Printables)*.

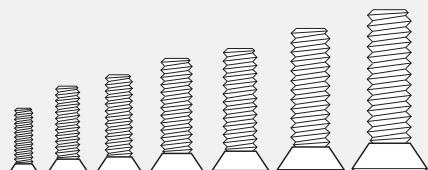
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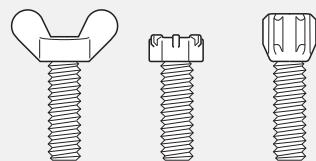
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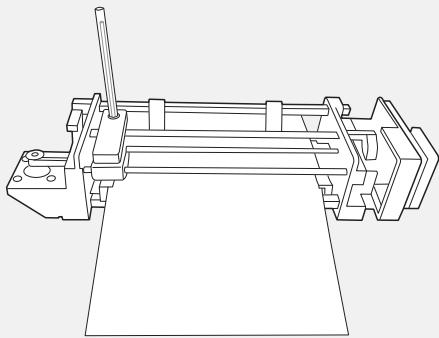


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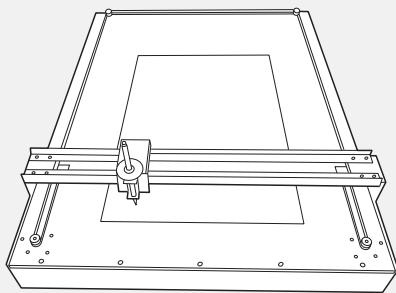


01, 02 M2-M20 Nuts & Bolts Functional nuts & bolts with parametric lengths - *by Asa (via Printables)*. **03 Screw/Bolt Generator** Fully customizable nuts, bolts, threaded rods - *by mattala (via Printables)*. **04 M3-M6 Handles** Collection for adding handles to nuts & screws - *by RemiRafael (via Printables)*. **05 M1-M42 Washers** Large collection with standard metric sizing - *by jer (via Printables)*.

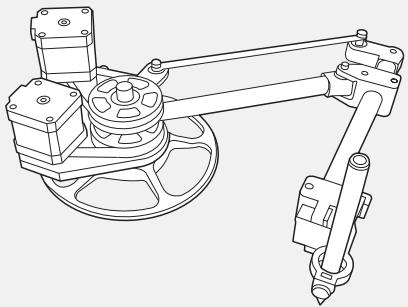
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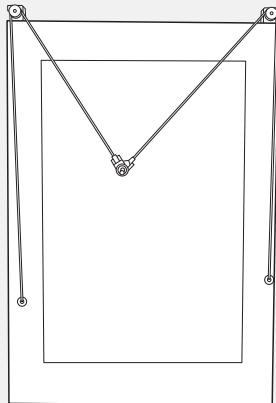
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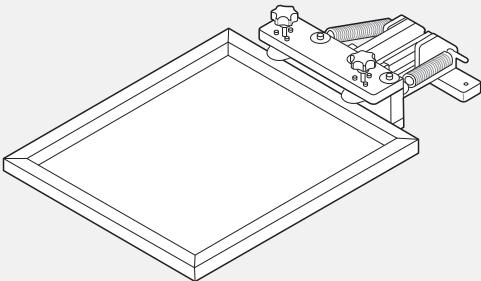


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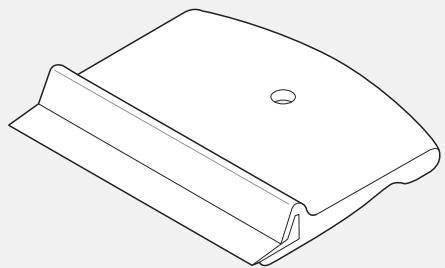


01 Pen Plotter Arduino-powered pen plotter, prints on A4 size paper - by Juan Gg (*via Thingiverse*). 02 CoreXY CNC Plotter A2 plotter design made from low cost components - by Lingib (*via Instructables*). 03 Drawbot Arduino-powered scara-style robotic drawing arm - by Ming Zhang (*via Thingiverse*). 04 Polarograph Drawing Machine Wall hanging pen plotter that draws on paper - by Sandy Noble (*via Instructables*).

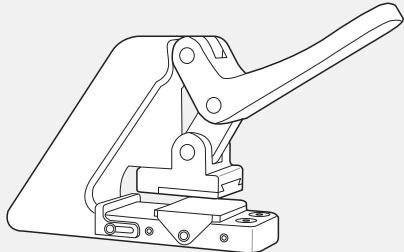
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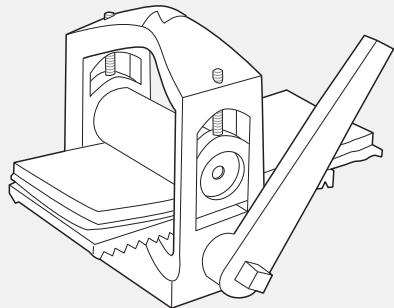
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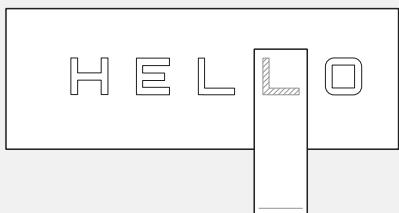


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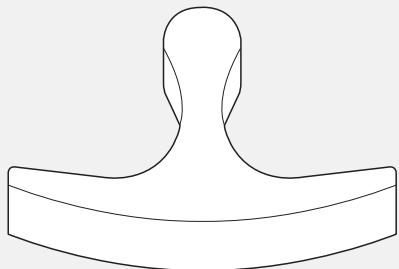


01 Screen Printing Press Open source one color A3-sized portable printing press - by *Mekanika*. **02 Mini Squeegee** Compact squeegee using TPU, useful for screen printing - by *MakeAnything* (*via MyMiniFactory*). **03 Embossing Press** Mostly printed toggle joint embossing paper press - by *Erik Cederb* (*via Printables*). **04 Open Press** Mini 3D-printed etching press for small scale prints - by *Martin Schneider* (*via Open Press Project*).

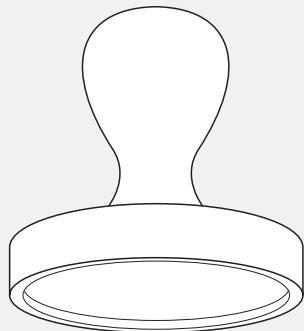
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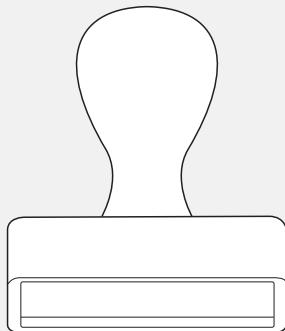
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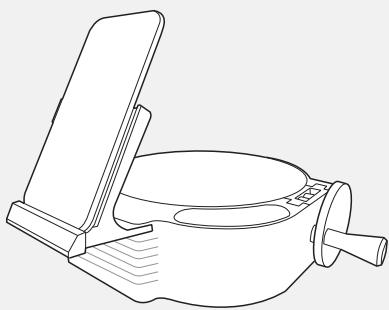


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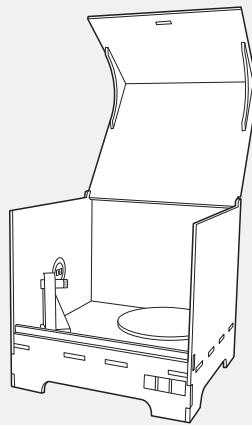


01 Paper Embosser Simple customizable living hinge hand embosser - by Andor Yoko (*via Printables*). **02 Rubber Stamp** Customizable rubber stamps that print easily in TPU rubber - by LoboCNC (*via Printables*). **03, 04 Custom Stamp** Customizable OpenSCAD design with swappable rubber part - by Cbaoth (*via Printables*).

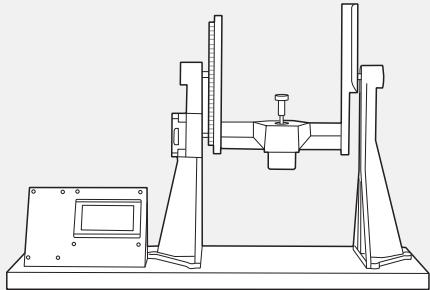
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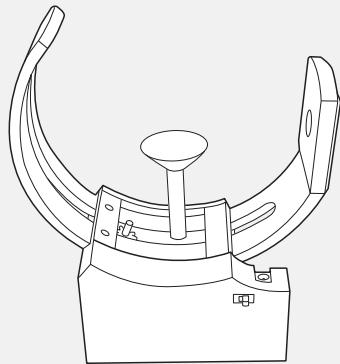
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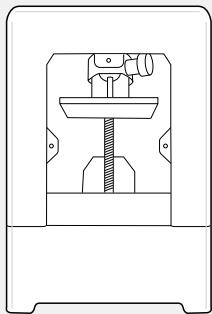


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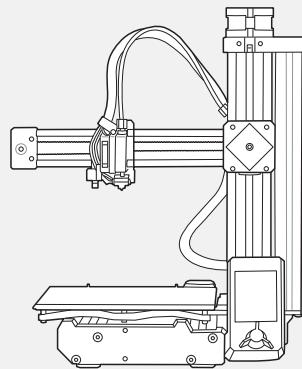


01 **\$30 3D Scanner** 3D-printable hand crank 3D scanner using a smartphone - by Dave Clarke (*via Thingiverse*). 02 **FabScanPi** Raspberry Pi camera based 3D scanner with wood case - by Mario Lukas (*via FabScan*). 03 **OpenScan Classic** Versatile scanner with scan volume of 18x18x18cm - by Thomas Megel (*via OpenScan*). 04 **OpenScan Mini** Raspberry Pi powered 3D scanner for smaller objects - by Thomas Megel (*via OpenScan*).

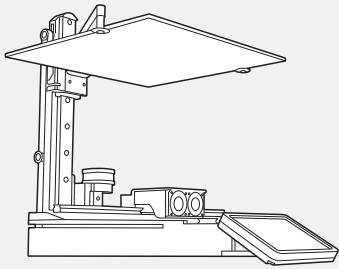
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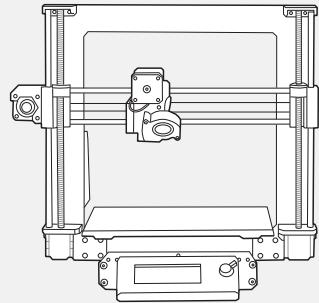
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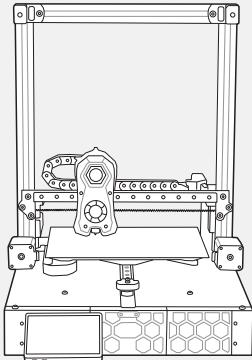


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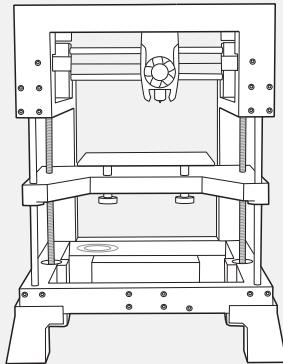


01 Lite3DP S1 Mini arduino-based open source hardware resin printer - *by Lite3DP*. 02 Original Prusa MINI+ FDM, 180x180x180mm build volume, small but mighty printer - *by Prusa3D (via Github)*. 03 Positron V3 FDM, 180x185x180mm build volume, fast upside down printer - *by KRALYN Design (via Github)*. 04 Original Prusa i3 MK3S FDM, 250x210x200mm build volume, heated bed, classic design - *by Prusa3D (via Github)*.

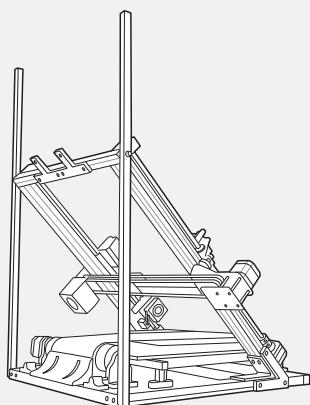
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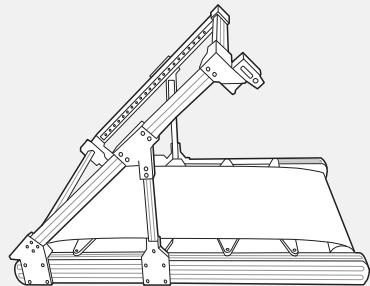
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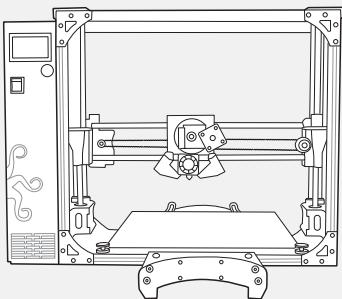


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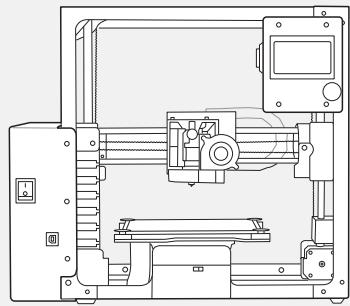


01 Voron Switchwire FDM, 250x210x240mm build volume, bed slinger printer design - *by Voron Design*. 02 The 100 FDM, 165x165x150mm build volume, super fast speed printer - *by MSztrc (via Github)*. 03 i3D FDM, 220x220x200mm build volume, conveyor belt printer - *by Swaleh Owais (via Hackaday)*. 04 White Knight FDM, 400mmx430x200mm build volume, conveyor belt printer - *by Karl Brown (via Github)*.

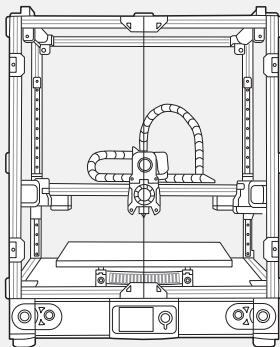
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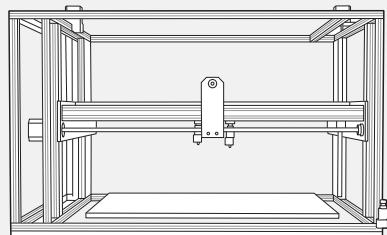
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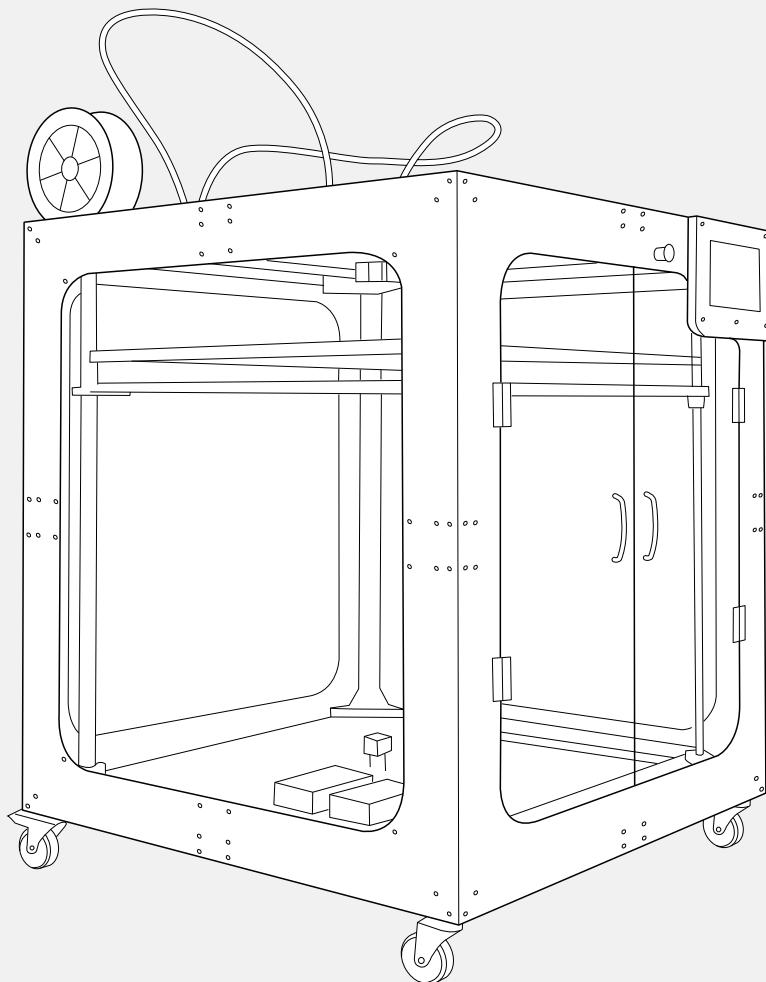


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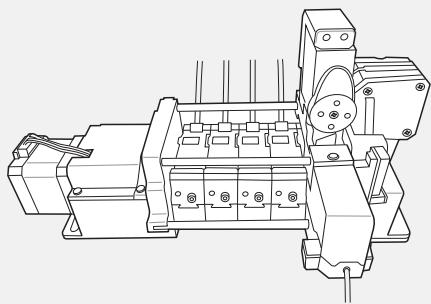
01 LulzBot TAZ Workhorse FDM, 280x280x285mm build volume, Marlin firmware - by Lulzbot. 02 Lulzbot Mini 2 FDM, 160x160x180mm build volume, Marlin firmware - by Lulzbot. 03 Voron 2.4 R2 FDM, 250x250x250mm to 350x350x350mm build volumes. Enclosed - by Voron Design. 04 Workhorse FDM, 600x350x350mm build volume, large scale 3D printer - by Shane Hooper (via OpenBuilds).

01

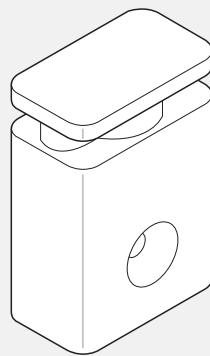


01 BigFDM FDM, 800x800x900mm build volume, very large scale 3D printer. Dual extruder with interchangeable nozzle. 2.85mm filament and 0.4 - 1mm nozzle sizes - by Fab Machines (*via Github*)

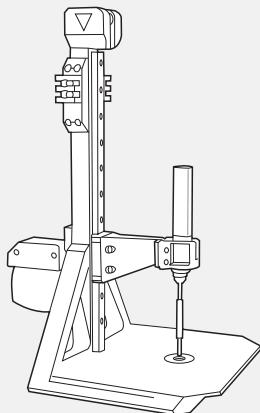
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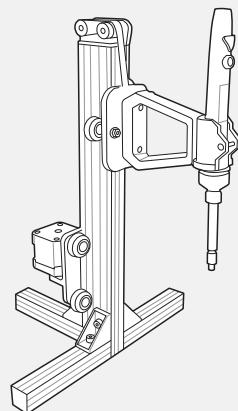
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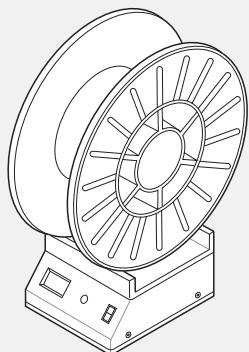
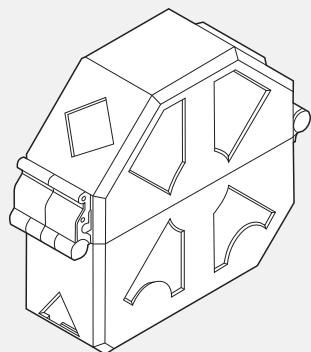
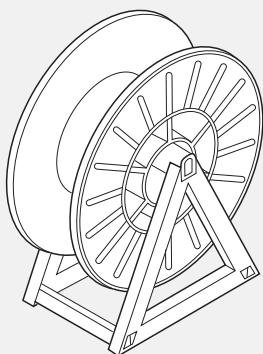
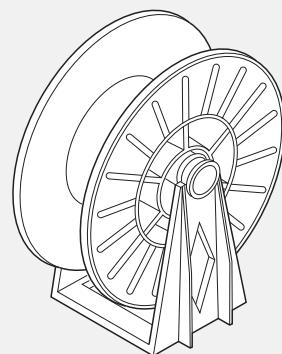
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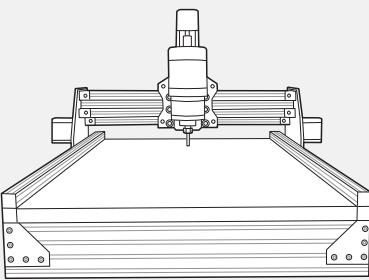


01 SMuFF V6 Machine that enables multi color and material printing - by *Technik Gegg* (*via Printables*). **02 Filament Cutter** Easily cuts filament at 45 degrees - by *Pomi* (*via Printables*). **03 Stealth Press** Precise heat set insert tool for soldering irons - by *Iconic FAB* (*via Printables*). **04 Jo Presser** Heat press tool that uses a modified soldering iron tip - by *Vector 3D* (*via Printables*).

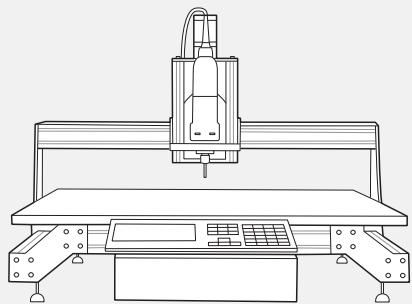
01 02 03 04 

01 Filament Scale Quickly weigh remaining filament - by *Whity* (*via Printables*). **02 Ultra Dry Spool Holder** Designed for moisture sensitive filaments - by *Gabriel Calin* (*via MyMiniFactory*). **03 Simple Spool Holder** Sturdy freestanding spool holder - by *MakeAnything* (*via MyMiniFactory*). **04 Spool Holder** Universal filament spool holder - by *3D Central* (*via MyMiniFactory*).

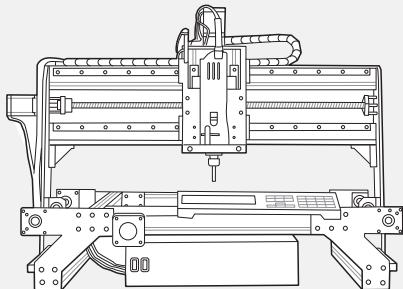
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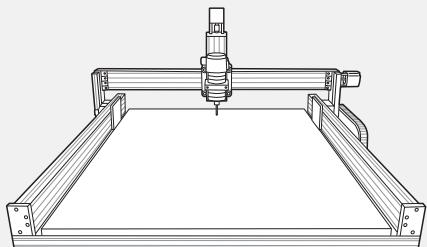
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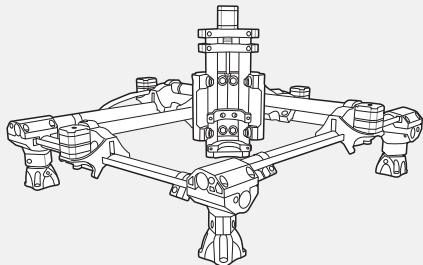


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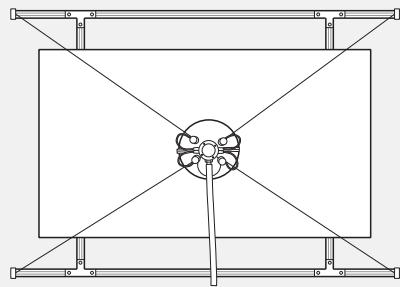


01 Ox CNC Machine Simple and strong cartesian style CNC router - by *Mark Carew (via OpenBuilds)*. **02 CNC Evo** Good solid starter CNC design in 3 different sizes - by *Mekanika*. **03 CNC Pro** Robust CNC machine design for precise milling - by *Mekanika*. **04 Lead CNC 1010** Larger modular CNC design with 1m x 1m footprint - by *Mark Carew (via OpenBuilds)*.

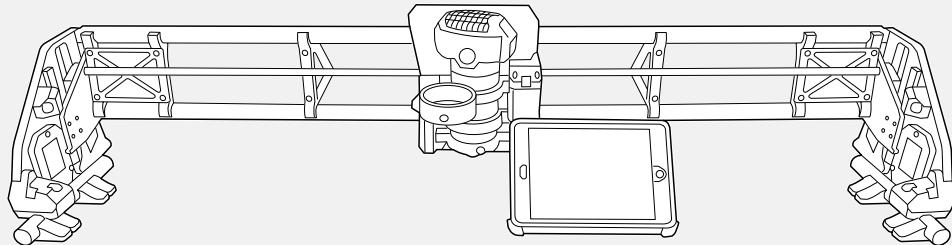
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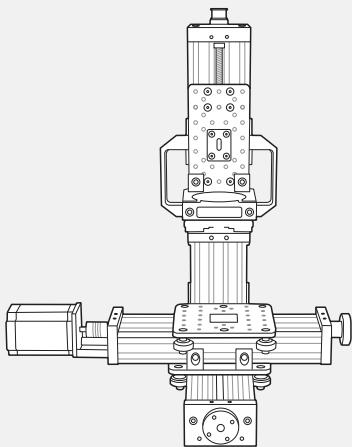


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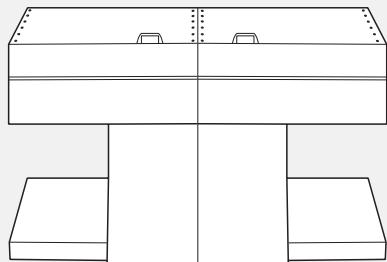


01 Mostly Printed CNC Inexpensive and versatile CNC platform with many uses - *by V1 Engineering*. **02 Maslow4** Vertical CNC router with large 4' x 8' work area - *by MaslowCNC*. **03 LowRider V3** Big router that can handle larger full sheet material. Attaches directly to workbench - *by V1 Engineering*.

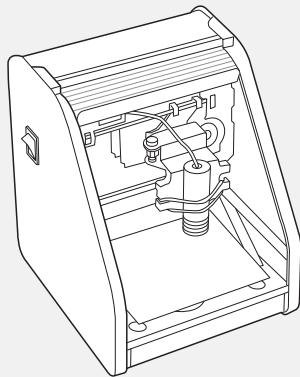
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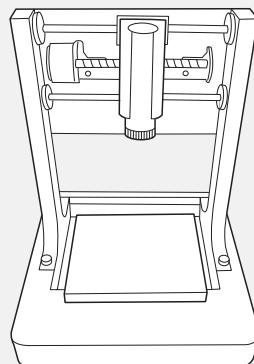
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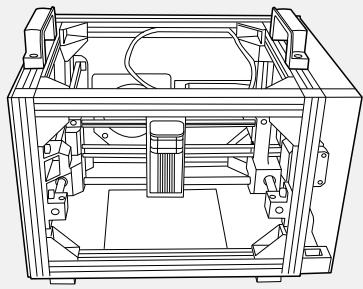


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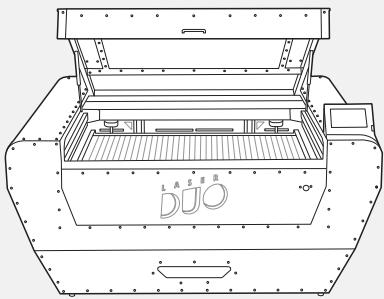


01 MiniMill Small desktop CNC mill with 120x180x80mm work area - by *Mark Carew* (*via OpenBuilds*). **02 Lasersaur** 1220x610mm working area cutter/engraver with 120W laser - by *Nordt Labs*. **03 Photon Printer** 100x80mm working area mini laser engraving machine - by *Stephen Brockett* (*via Thingiverse*). **04 Mini Engraver** 60x60mm working area mini engraver with 250mW laser - by *Maggie Shah* (*via Thingiverse*).

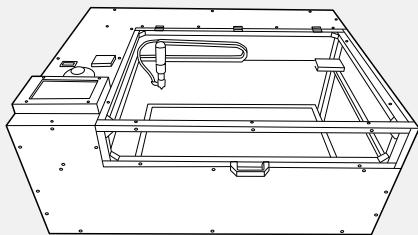
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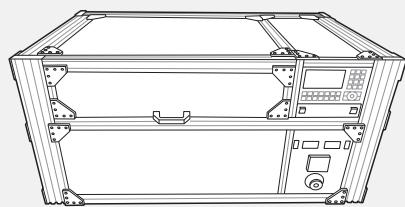
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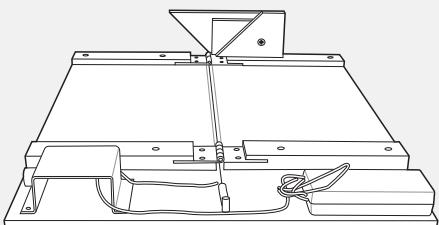


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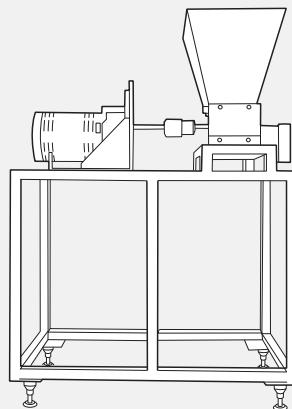


01 **Engravinator** 130x130mm working area open source laser engraver - by *Maniacal Labs*. 02 **LaserDuo** 1500x1000x500mm working area with 130W & 75W lasers - by *Daniele Ingrassia*. 03 **LS-Laser** 590x400x140mm working area Co2 laser cutter design - by *LukasK* (via *OpenBuilds*). 04 **Co2 Laser Cutter/Engraver** 300x600mm working area table top laser cutter/engraver - by *Pedro Fernandez* (via *OpenBuilds*).

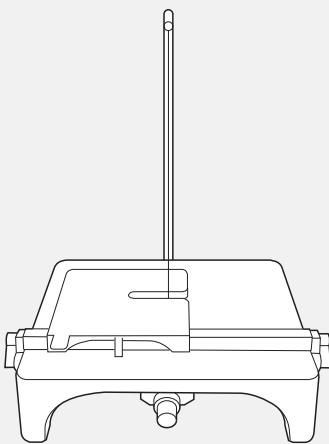
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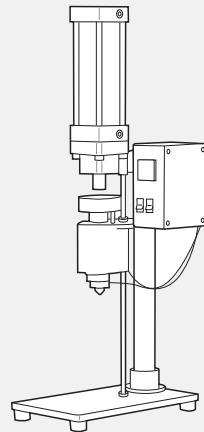
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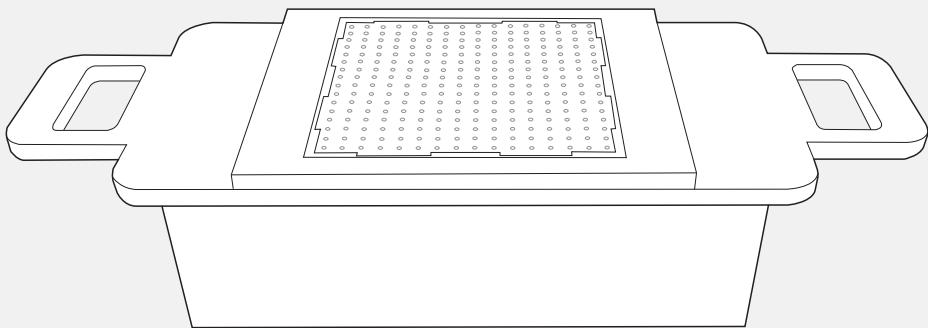
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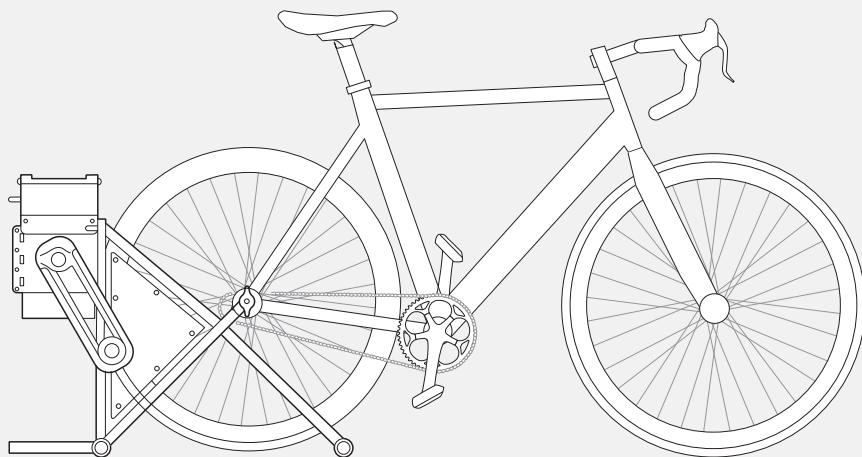
01 Acrylic Bending Tool Make 45, 90 and 135 degree bends in acrylic sheeting - by *DIY Perspective* (*via Instructables*).

02 Shredder Machine High powered shredder for recycling various plastics - by *PreciousPlastic*. 03 Hot Wire Foam Cutter 3D-printable foam cutter using simple electronics - by *Elite_Worm* (*via Thingiverse*). 04 NPS_Air Press Injector Desktop injection molding machine for recycled plastics - by *NoPlasticSunday* (*via Precious Plastic*).

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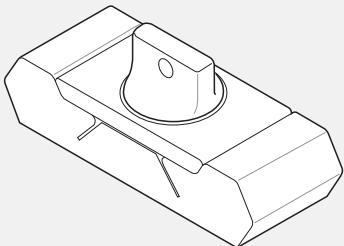


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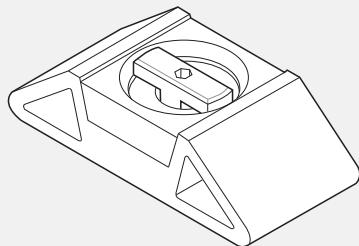


01 Desktop Vacuum Former 200x200mm vacuum table, can handle 1mm thick PET - by Lekey (*via OpenBuilds*). 02 Bicycle Shredder V2 How to build a bicycle-powered plastic shredder - by Kunststoffschniede (*via Precious Plastic*).

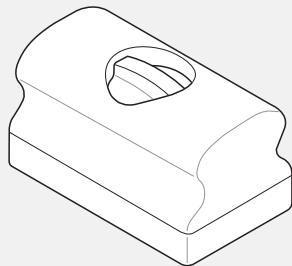
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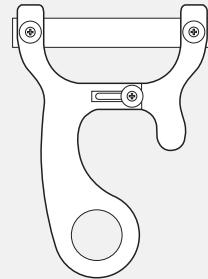
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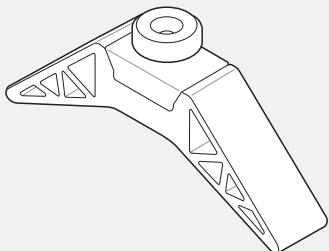
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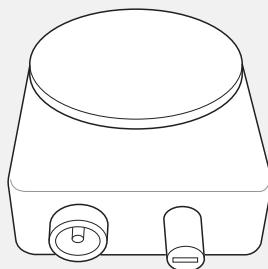
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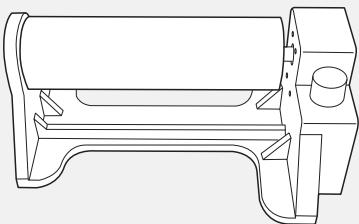


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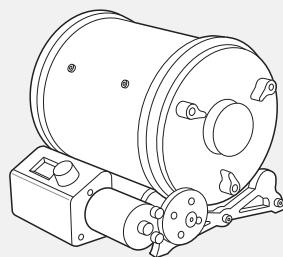


01 Sanding Block - by Mische (via Printables). 02 Sanding Wedge - by Ralf Hörrhager (via Printables). 03 Sanding Block - by PointNemo (via Printables). 04 Curved Surface Sander - by Valera Perinski (via Thingiverse). 05 Cylindrical Surface Sander - by Valera Perinski (via Thingiverse). 06 Disc Sander - by Valera Perinski (via Thingiverse).

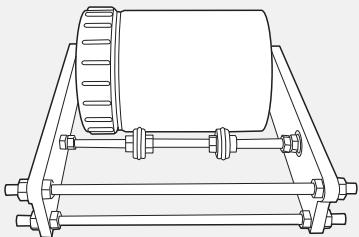
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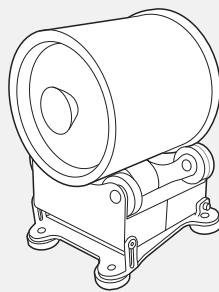
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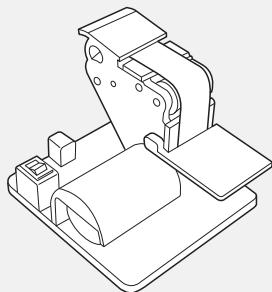
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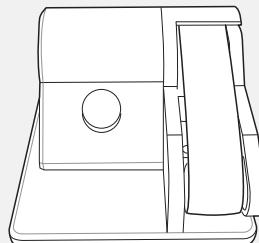
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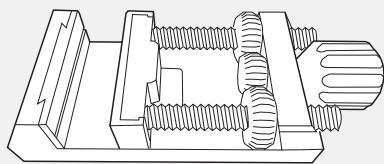


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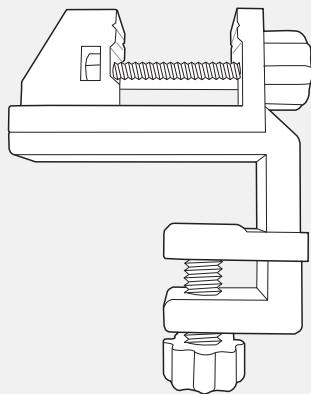


01 Drum Sander - by Ryan Magid (via Thingiverse). 02 Rotary Tumbler - by Valera Perinski (via Thingiverse). 03 Rock Tumbler - by _T_3_D (via Thingiverse). 04 Reittec Polisher - by Michael Reitter (via Thingiverse). 05 Mini Sanding Machine - by Kendin Yap (via Thingiverse). 06 Mini Belt Sander - by FSanders (via Printables).

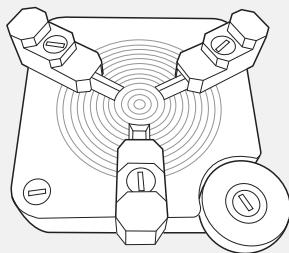
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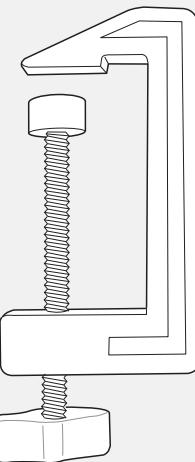
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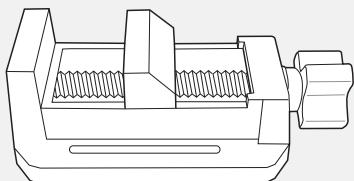
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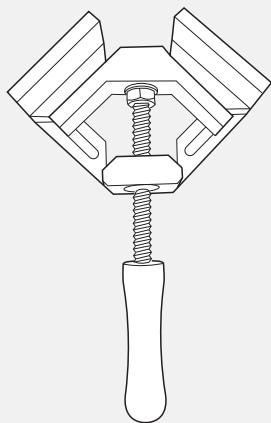


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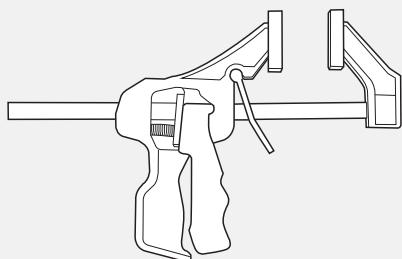


01 Machine Vise - by Christoph Laimer (via Thingiverse). 02 Mini Table Vise - by HD_Creator (via Printables). 03 Swappable Jaw Vise - by Sneaks (via Printables). 04 Table Clamp (55mm) - by Diogo Marcon (via Thingiverse). 05 Mini Desktop Vise - by Matthew Kendall (via Thingiverse).

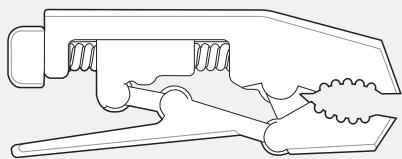
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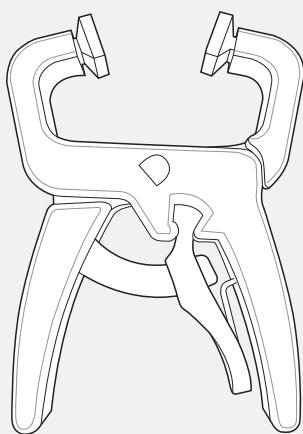
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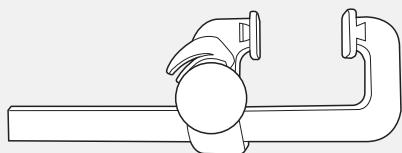
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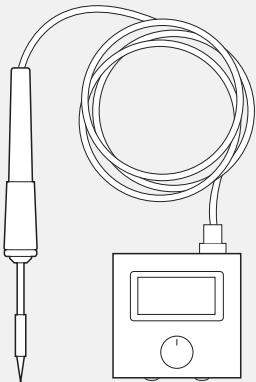
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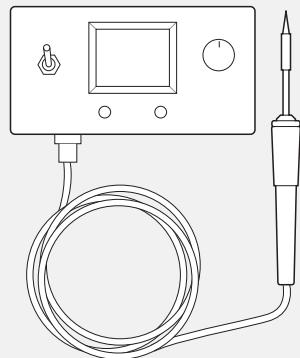
01 Corner Clamp - by [RestoreDoctor](#) (*via Printables*). 02 Quick Grip Trigger Clamp - by [Arran Mollet](#) (*via Thingiverse*).
03 Handi-Clamp - by [LoboCNC](#) (*via Printables*). 04 Vise Grip - by [Adam Cook](#) (*via Printables*). 05 Quick Clamp - by [LoboCNC](#) (*via Printables*)

201 MAKER TOOLS / ELECTRONICS TOOLS

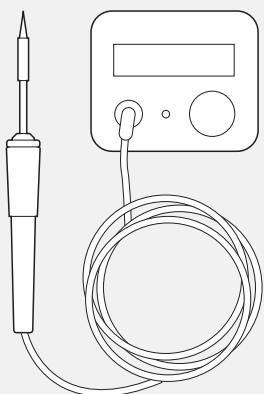
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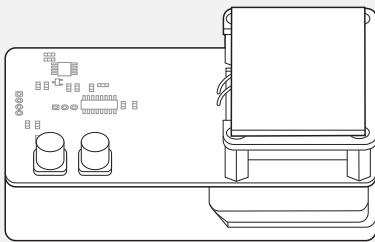


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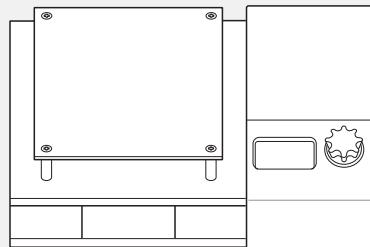


01 Hakko Revenge Smaller & more user friendly soldering station - *by Marius Taciu (via Hackaday)*. **02 Soldering RT1** Soldering station compatible with Weller RTX tips - *by Riccardo Pittini (via Hackaday)*. **03 Soldering Station Homebrew Hakko 907** digital soldering station - *by ASCAS (via Instructables)*. **04 USB-C Soldering Pen** USB-PD powered controller unit for Weller RT-tips - *by Thomas Leputsch (via Hackaday)*.

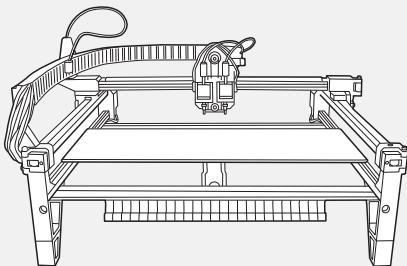
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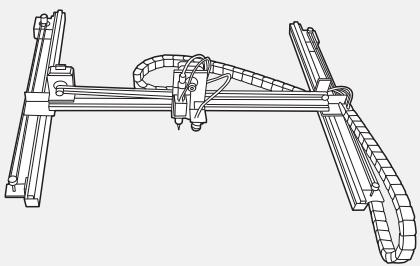
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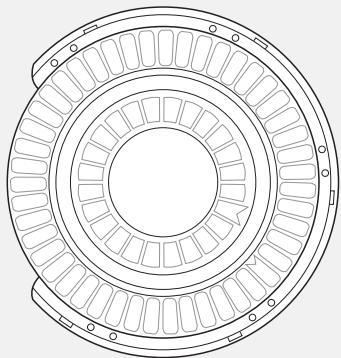
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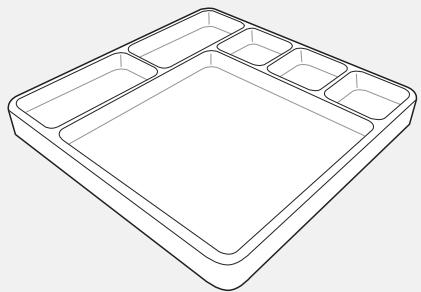
01 **USB-C Hotplate** USB-PD powered surface mount reflow hotplate - by *Toby Chui* (*via Hackaday*). 02 **Tim's Hotplate** Arduino-based heating plate for SMD soldering - by *Tim Jackson* (*via Instructables*). 03 **LumenPnP** Pick-and-place machine for mid-scale electronics manufacturing - by *Opulo* (*via Github*). 04 **SimplePnP** Open hardware PCB assembly pick-and-place machine - by *Ottoragam* (*via Github*).

203 MAKER TOOLS / ELECTRONICS TOOLS

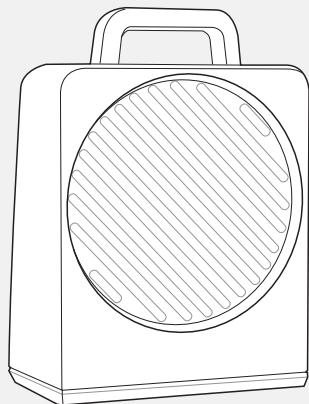
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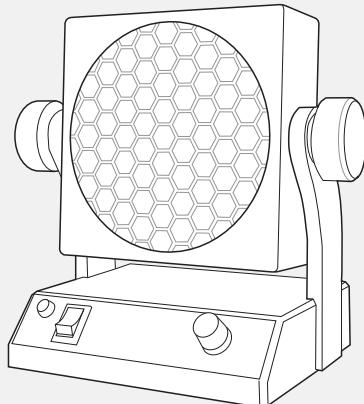
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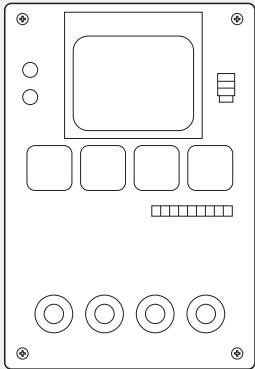


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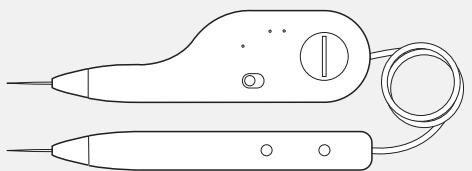


01 Pick-N-Place Wheel 3D-printed solution for manual PCB assembly - by Ahmed Oyenuga (*via Hackster*). **02 Parts Trays** Component storage while working on electronics - by Orax (*via Printables*). **03 Fume Extractor** Simple battery powered solder fume extractor - by SNASA (*via Printables*). **04 Heavy Duty Extractor** Battery powered solder fume extractor using PC fan - by Lewosh (*via Printables*).

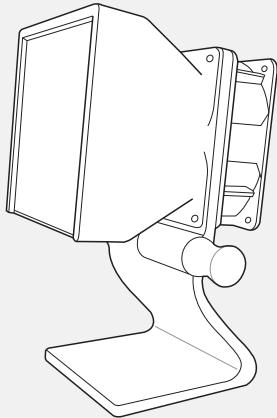
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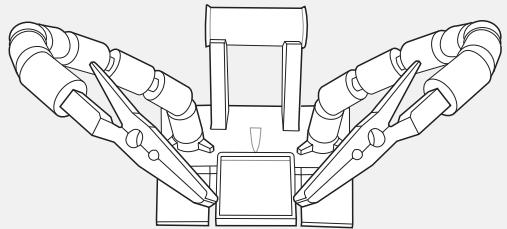
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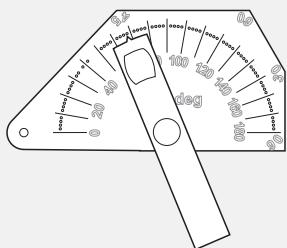


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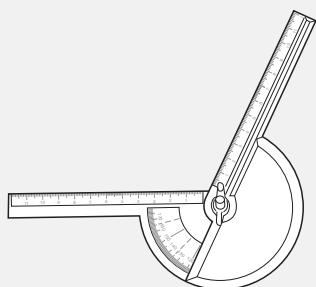


01 Multimeter STM32-based open source multimeter. Lots of features - *by MartinD (via Github)*. **02 Circuit Tester** Check contacts, batteries, diodes, resistors & more - *by Valera Perinski (via Thingiverse)*. **03 Solder Fume Extractor** Simple fume extractor with integrated filter - *by SneakyPoo (via Thingiverse)*. **04 Flexi Adjustable** helping hands system for soldering - *by Michele Schwarz (via Thingiverse)*.

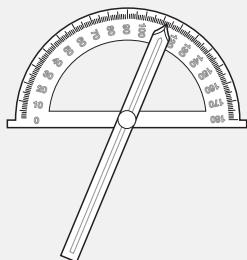
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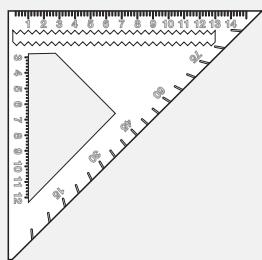
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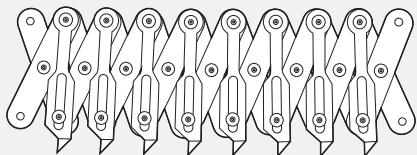
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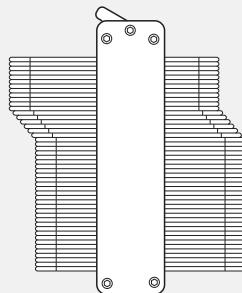
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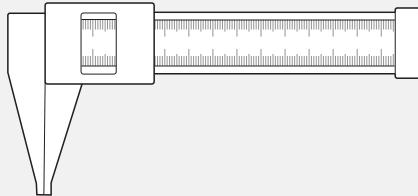


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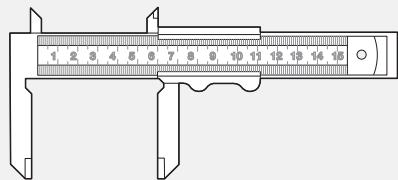


01 Angle Measuring Tool - by PhDGoSlowAncient (via Printables). **02 Goniometer** - by Svw (via Printables). **03 Protractor** - by Kenny93 (via Printables). **04 Speed Square (160mm)** - by Roman Slezak (via Printables). **05 Equal Space Divider** - by Dsk001 (via Printables). **06 Lockable Contour Gauge** - by Tjalf (via Printables).

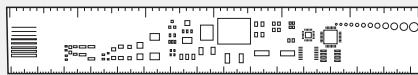
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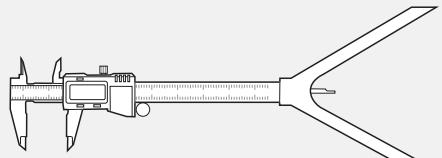
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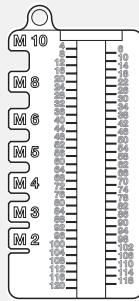
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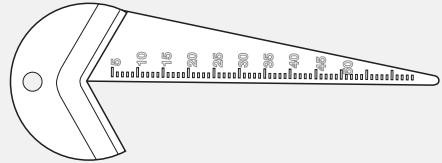
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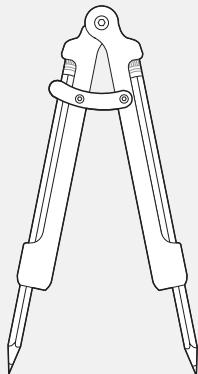


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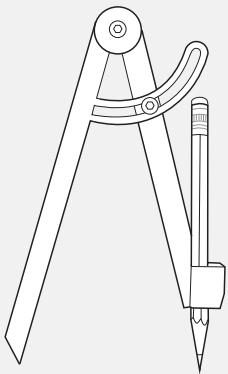


01 Parametric Caliper - by Route 3D6 (*via Thingiverse*). **02** Steel Rule Caliper - by Nir Livne (*via Instructables*). **03** Adafruit PCB Ruler - by Adafruit Industries (*via Github*). **04** Radius Caliper Attachment - by Sorrenaveria (*via Printables*). **05** Screw Measuring Tool - by Boogie (*via Printables*). **06** Radius Tool - by joe (*via Printables*).

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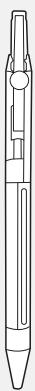
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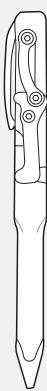
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01 3D-Printed Compass - by Like_Lettuce (*via Thingiverse*). 02 Drawing Compass - by Matt Braddock (*via Printables*). 03 Flexible Pen - by Platzhalter (*via Printables*). 04 Chassepot Pen - by DMUX (*via Printables*). 05 Mechanical Pen - by Kammerermarkci (*via Printables*). 06 Refillable Gravity Pencil - by Fabian Veile (*via Printables*).

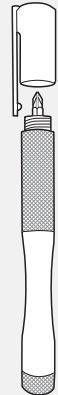
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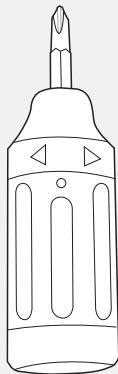
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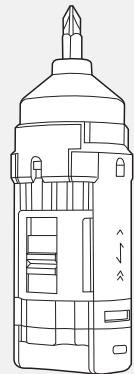
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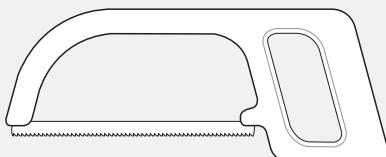
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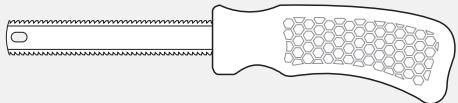
01 Electric Screwdriver - by Asi ([via Printables](#)). **02 Electric Screwdriver** - by Citrionyx ([via Thingiverse](#)). **03 Pencil Screwdriver** - by Blecheimer ([via Printables](#)). **04 Ratchet Screwdriver** - by Max Michal ([via Thingiverse](#)). **05 Mini Ratchet Screwdriver** - by Martin Rigatoni ([via Printables](#)). **06 2-Speed Screwdriver** - by Revolver3DPrints ([via Printables](#)).

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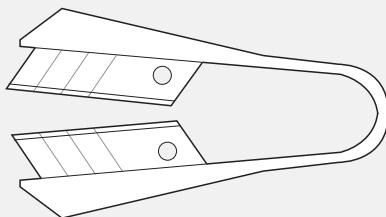
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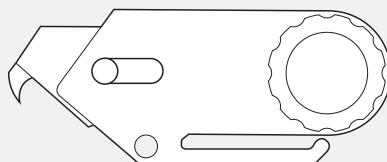
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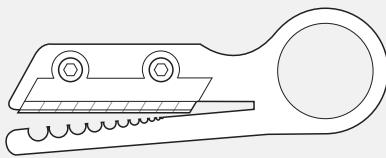
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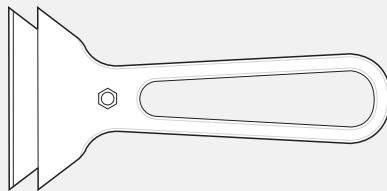
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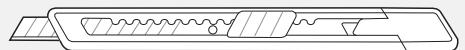


01 Junior Hacksaw - by Matthew Kendall (*via Thingiverse*). 02 Handle Saw - by Valera Perinski (*via Thingiverse*). 03 Snap-Off Blade Shears - by Jon Nordby (*via Thingiverse*). 04 Small Box Cutter - by Michal Fanta (*via Printables*). 05 Wire Stripper - by Ritirik Ghosh (*via Thingiverse*). 06 Utility Blade Scraper - by BTR3D (*via Printables*).

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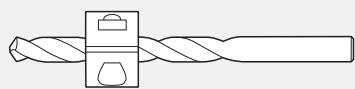
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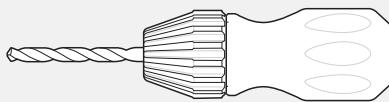
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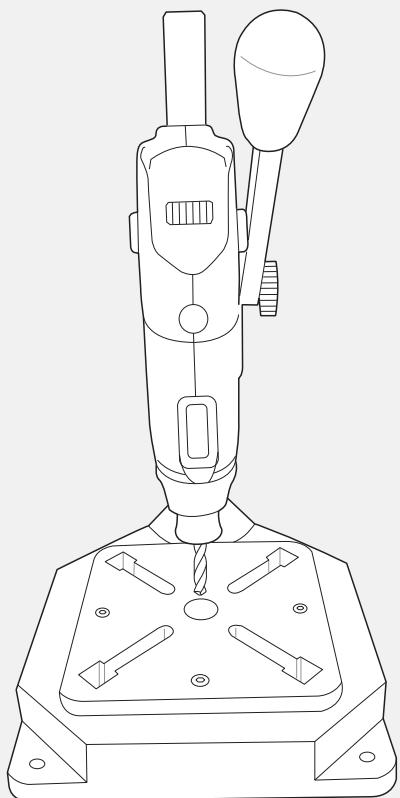
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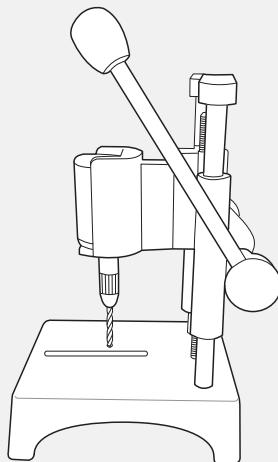
01 Xacto Blade Handle - by Matticus Finch (*via Printables*). **02** Snap-Off Craft Knife - by Michal Fanta (*via Printables*). **03** Craft Knife - by DP Makes (*via Printables*). **04** Drill Depth Guide- by Mishkin2 (*via Printables*). **05** Hand Drill by Krzysztof Domoradzki (*via Thingiverse*). **06** Hand Drill by Valera Perinski (*via Thingiverse*).

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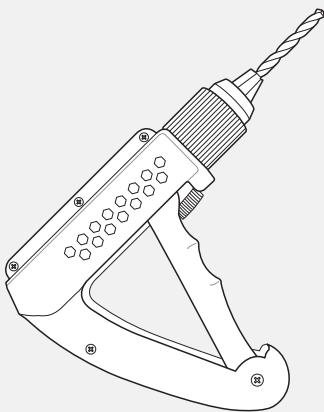


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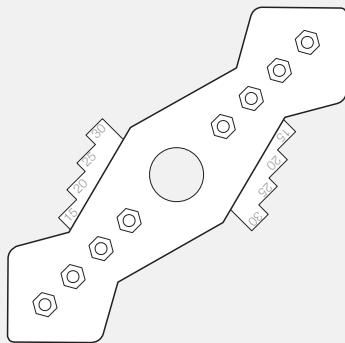


01 Dremel Drill Press - by Pejvl2000 (*via Printables*). 02 Mini PCB Drill - by Ján Müller (*via Thingiverse*). 03 Dremel Drill Bit Sharpener - by Marius Gheorghescu (*via Thingiverse*).

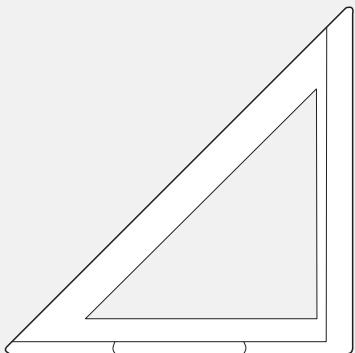
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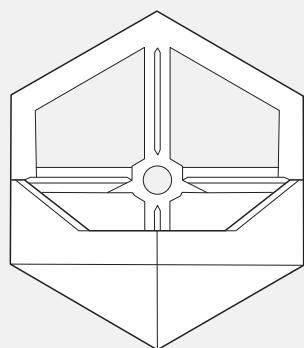
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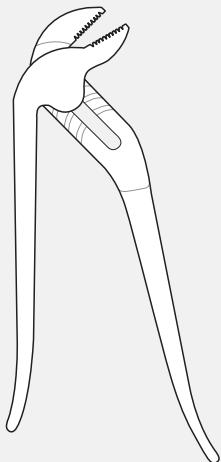
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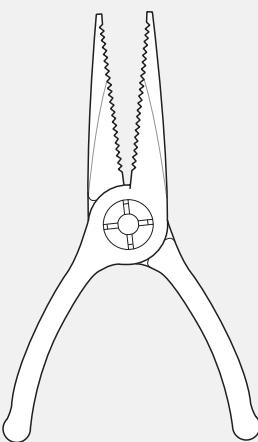
01 Hand Squeeze Drill - by Frank Soul (*via Printables*). 02 Centering Drill Guide - by ChrisAeroEngineering (*via Printables*).
03 90-Degree Drill Guide - by RobSmo (*via Printables*). 04 Drill Guide w/ Dust Collector - by Bearlord (*via Printables*).

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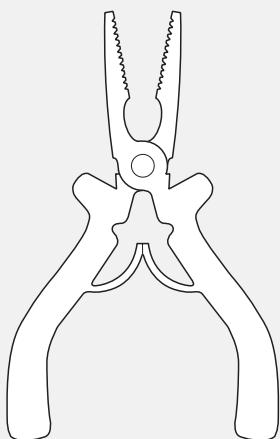
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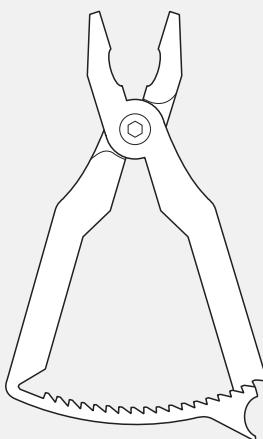
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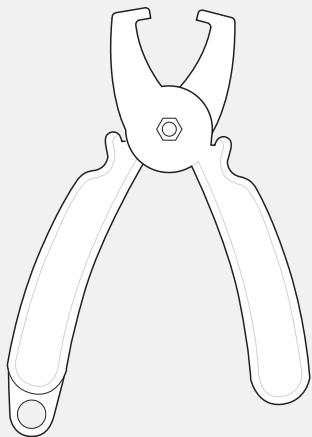


04



01 Adjustable Pliers - by John Steuben (via Thingiverse). 02 Nose Pliers - by JAP (via Thingiverse). 03 Self-Opening Pliers - by Shawn Gano (via MyMiniFactory). 04 Clamping Pliers - by Thorgraum (via Printables).

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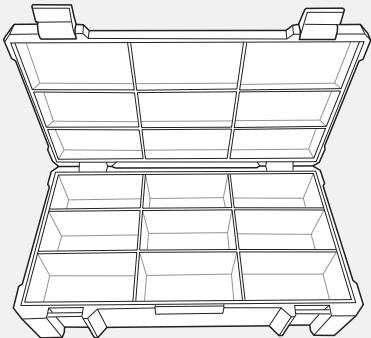


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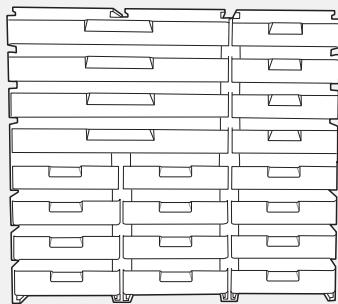


01 JST Connector Pliers - by Micro Center (*via Printables*). 02 Precision Tweezers - by M4NU (*via Printables*). 03, 04 General Purpose Tweezer Collection - by e&h Design (*via Thingiverse*).

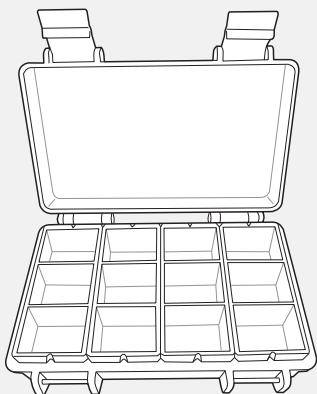
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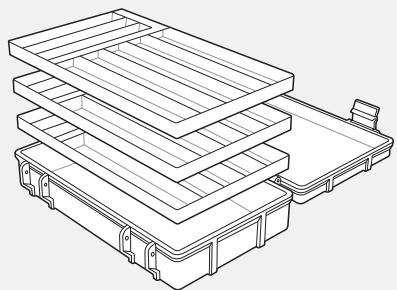
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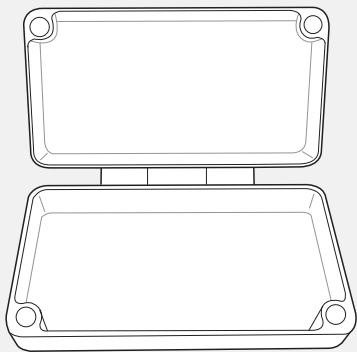


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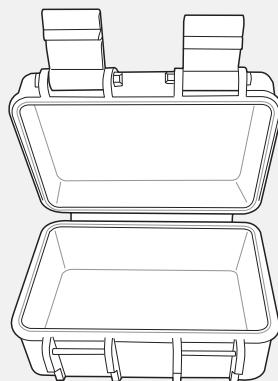


01 Parametric Organizer - by Kermit (*via Printables*). 02 Modular Drawer System - by LR3DUK (*via Printables*). 03 Toolbox with Modular Slots - by Whity (*via Printables*). 04 Toolbox with Inserts - by Whity (*via Printables*).

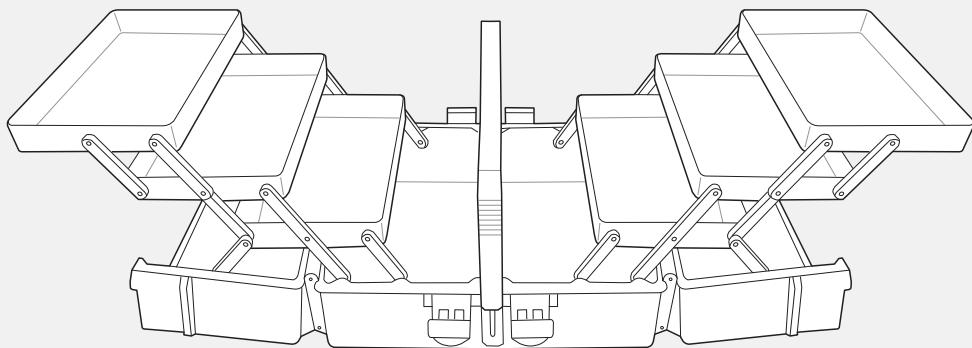
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01 Box with Magnetic Closure - by Slavik Kopanov (via Printables). 02 Rugged Toolbox - by Whity (via Printables). 03 SBox Cantilever Toolbox - by Michal Fanta (via Printables).

