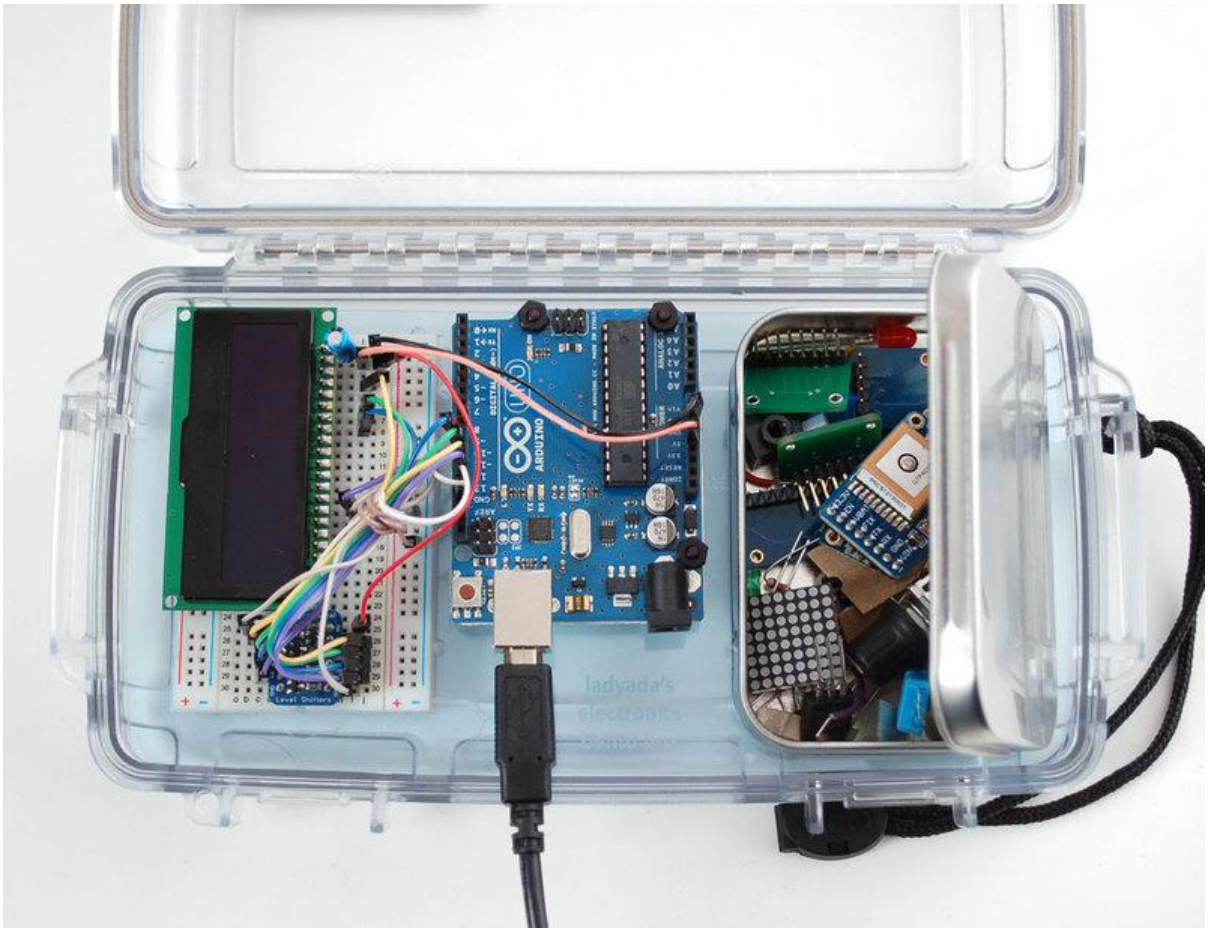
Lady Ada's Bento Box

Created by lady ada



https://learn.adafruit.com/lady-adas-bento-box

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Overview

Portage for your projects! Lady Ada's Bento Box (http://adafru.it/765) is a crush-proof, drop-proof & water-proof prototyping kit that combines the ultra-rugged Otterbox 3000 (http://adafru.it/339) with a storage tin (http://adafru.it/97) and half-size (400-point) breadboard (http://adafru.it/64) . In the middle is a spot for attaching an Arduino UNO (or any other PCB that has the same shape and mounting holes). There's plenty of clearance for wires (even ones with plastic bits on the end such as our premium jumper wires or wire bundles) and parts on the breadboard, and the box is so sturdy you never have to worry about any delicate parts inside getting damaged. Toss it in your backpack, suitcase, duffel bag and you can be sure to work on it when you get to school, work or home.

The Otterbox we were using has been sadly discontinued but here are the files if you want to mod & hack your own!

BentoBox-3000-POWER-V0.5-outlines-AI9.ai

https://adafru.it/xDW

BentoBox-3000-STORAGE-V0.2-outlines-AI9.ai

https://adafru.it/xDX

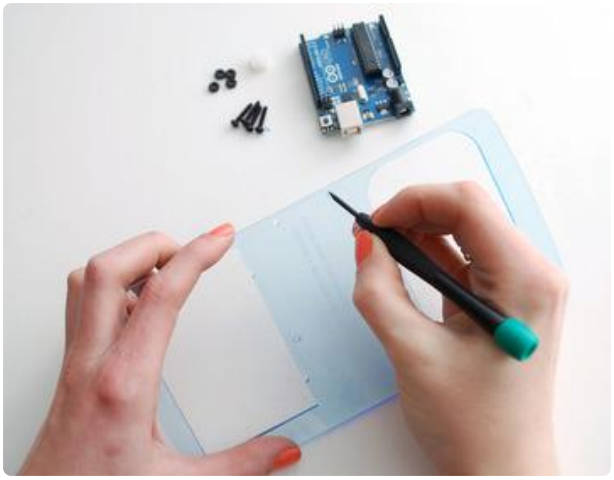
Parts List

The kit includes the following items:

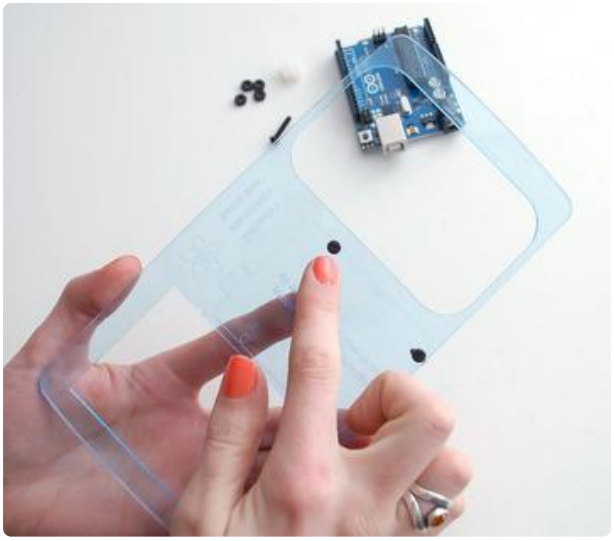
- Laser cut acrylic plate
- Otterbox 3000
- Altoids-sized mint tin
- Mounting hardware for attaching an Arduino to the plate and sticky foam to attach the tin to the Otterbox

Assembly

Pop out the acrylic cutouts.

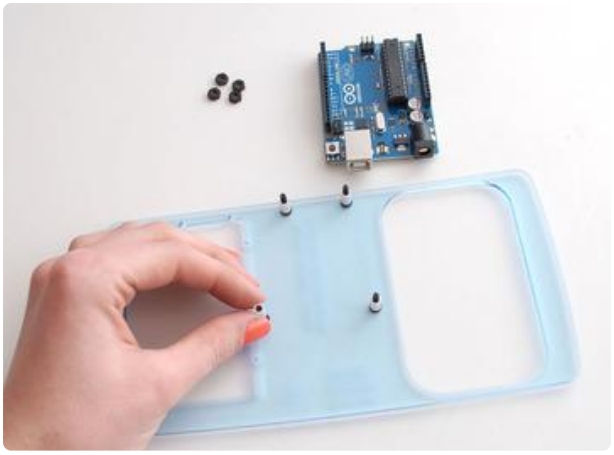


Use something small and pointy to pop out the acrylic bits from the mounting holes.

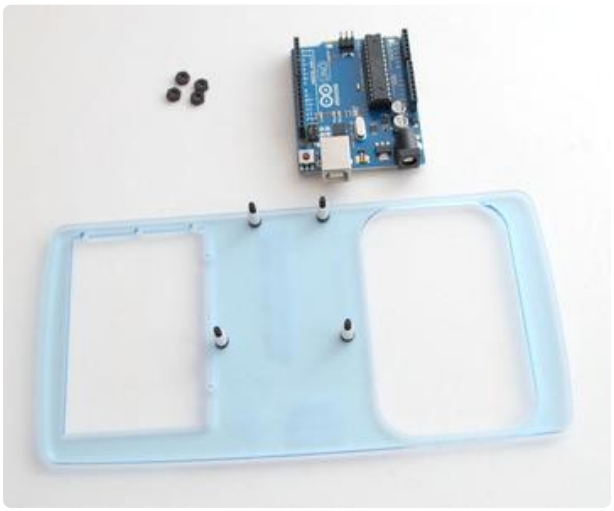


Insert the screws from the bottom side of the acrylic.

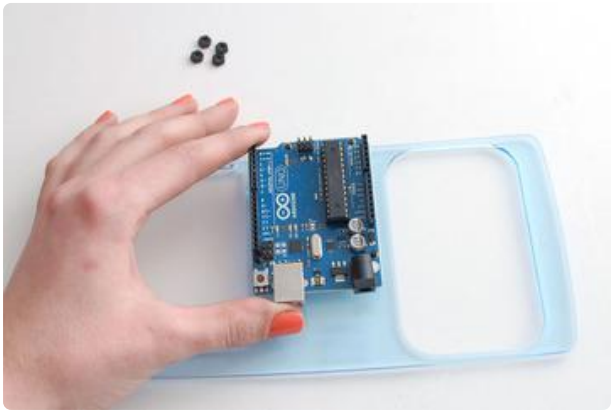
Place on a flat surface.



Add standoffs.

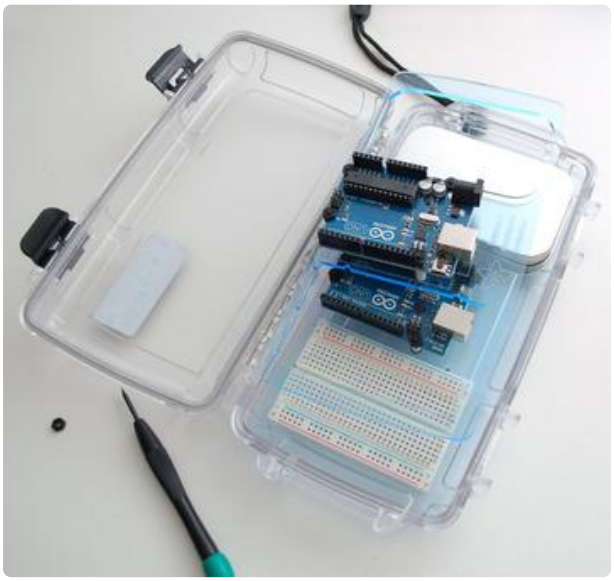


The standoffs set the Arduino high enough for the USB port to clear the edge of the Otterbox. Both the screws and standoffs are nonconductive nylon.



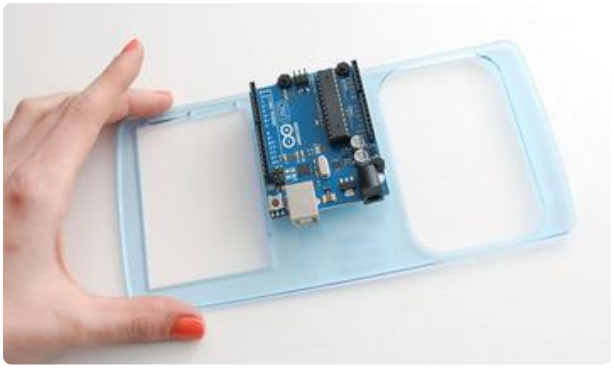
Seat your Arduino board on the screws.

Place the hex nuts atop the Arduino and tighten the screws with a screwdriver.



Rev 2 Arduino boards will accommodate all four hex nuts, but rev 3 Arduinos have more headers that prevent the hex nut from fitting.

No big deal, three screws will hold your rev 3 board just fine.



Place the acrylic with Arduino inside the Otterbox. Use one of the foam tape pieces to secure the acrylic to the Otterbox if desired (but not required).

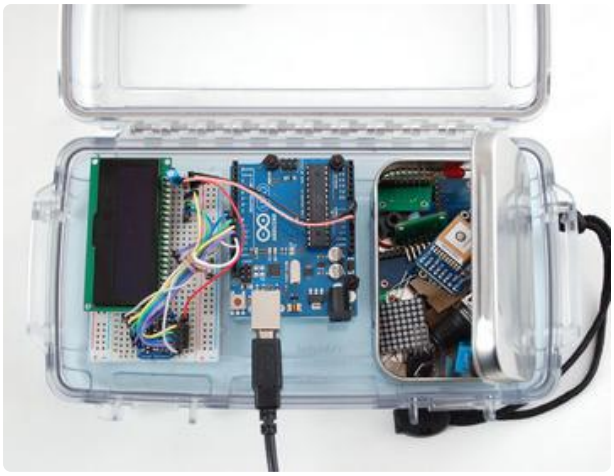
Affix two foam tape pieces to the bottom of the storage tin.

Peel off the other side of the sticky tapes and stick the tin in the righthand cutout with the hinge on the right.

Peel the adhesive cover from the bottom of the breadboard and stick it to the Otterbox in the lefthand cutout.

That's it!

Now you have a sturdy way to transport your project! Throw it in your bag, dunk it underwater, etc.



There's plenty of clearance to accommodate your project, and storage for other parts.

The USB cable clears the edge of the Otterbox for convenient programming.

You can even add shields!

Enjoy!