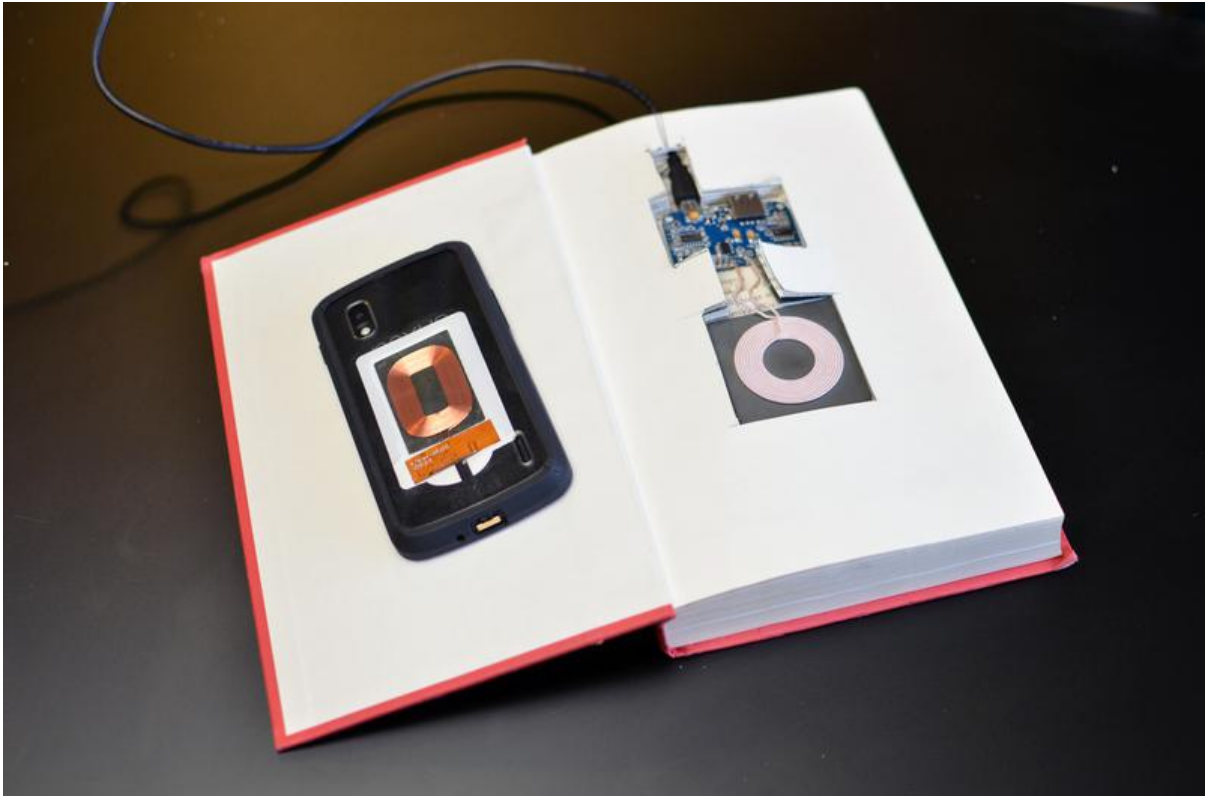




# Qi Charging Phone Case & Book

Created by Becky Stern



<https://learn.adafruit.com/qi-charging-phone-case-and-book>

Last updated on 2022-12-01 02:20:20 PM EST

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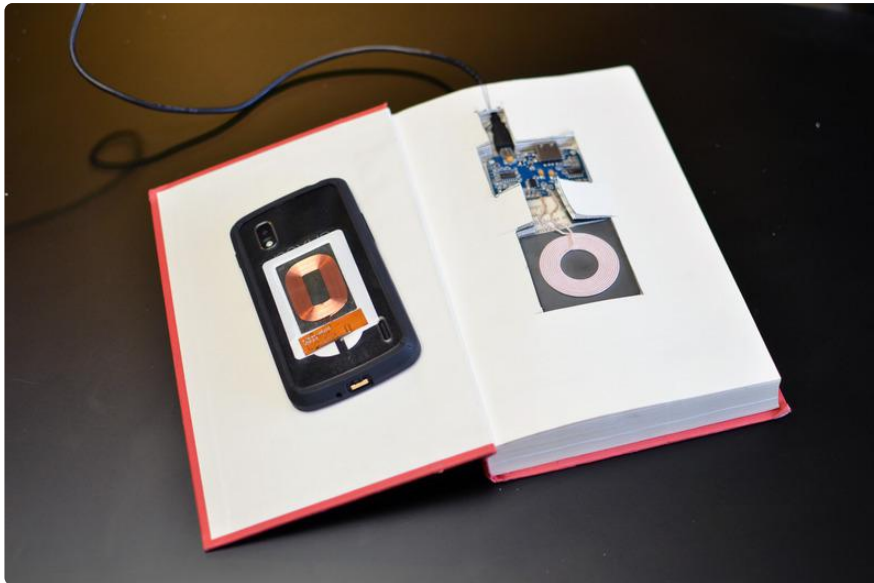
# Overview



DIY your own inductive charging phone case! It's easy to build a base charger from a recycled hardcover book and never plug in your phone again.

For this project you will need:

- [Univeral Qi wireless charging transmitter \(\)](#)
- [Universal Qi charging module \(\)](#) to match your phone (my Nexus 4 is [reverse short microUSB \(\)](#)) or [Qi charging sleeve \(if you have an iPhone 5\) \(\)](#)
- Phone case (mine is from [Rearth \(\)](#))
- Hardcover book you don't want to read
- Metal ruler
- Sharp utility or craft knife
- Pen or pencil
- USB cable



We'll put the charging module in the phone case and the charging transmitter inside the cover of the book. This project does involve some paper cutting with sharp blades, but is very simple. Let's get started!

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## Qi Phone Case

If your phone already has Qi charging support, you do not have to do this step!  
This is just to demonstrate how to do add Qi charging capability to non-Qi phones



Plug in the charging module to your phone's charging port, and tuck it against the back of the phone.



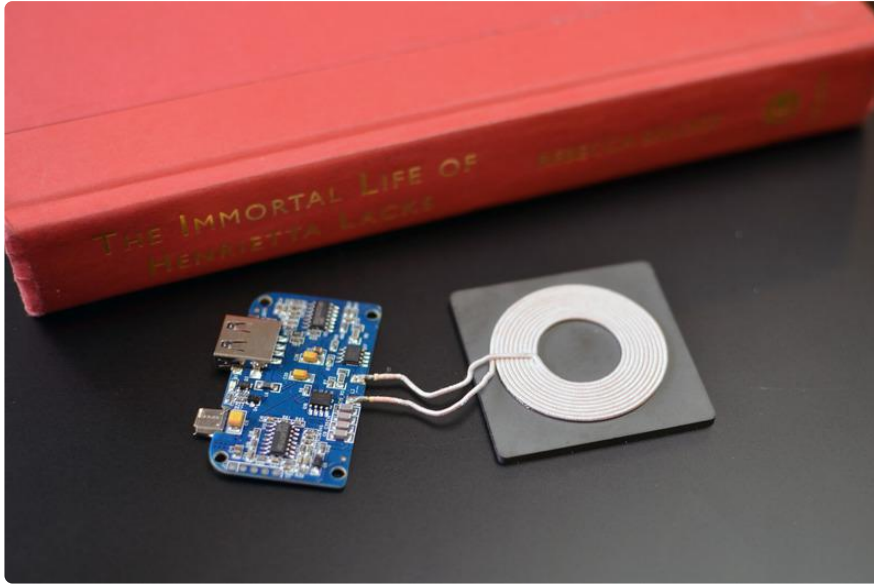
Snap your case on over the charging module.



Just for the look of it, I peeled off one of the stickers covering the charging coil. This lets it stick to the inside of the phone case, too!

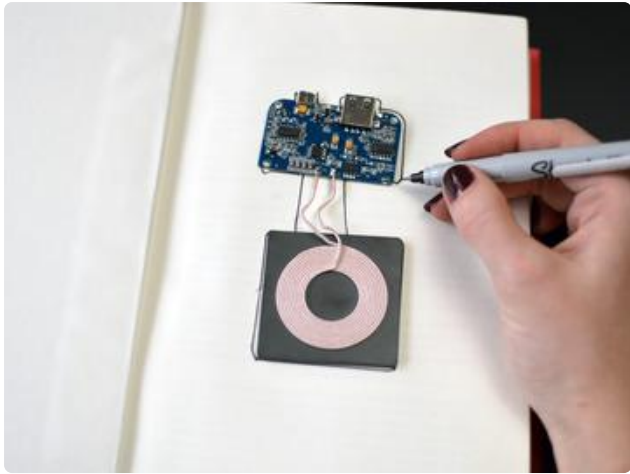
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# Qi Transmitter Book



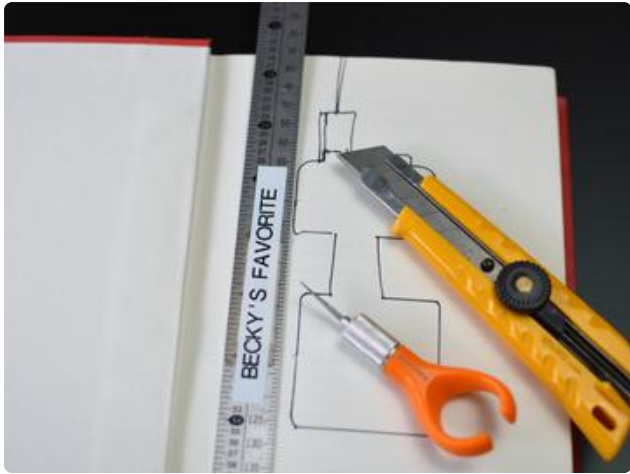
You can put the Qi transmitter in lots of things! Make an acrylic charging stand, put it in a cork trivet, or, like we're going to do, stash it in a hardcover book.

Make sure it's a book you don't want to read, as you'll be cutting it up!



Open the front cover and place the transmitter on the first page. Trace around the outline and set the transmitter aside.

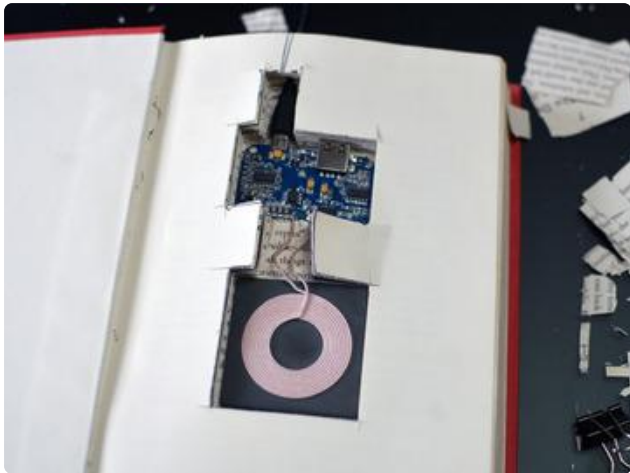
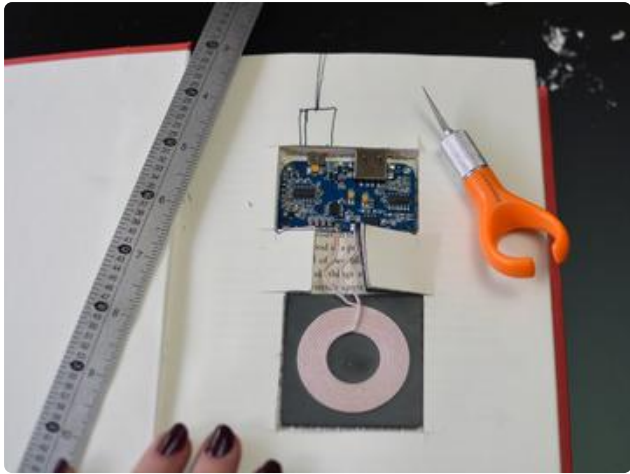




Use your favorite metal ruler and a utility or craft knife to cut through many layers of book pages along the outline. Watch your fingers!

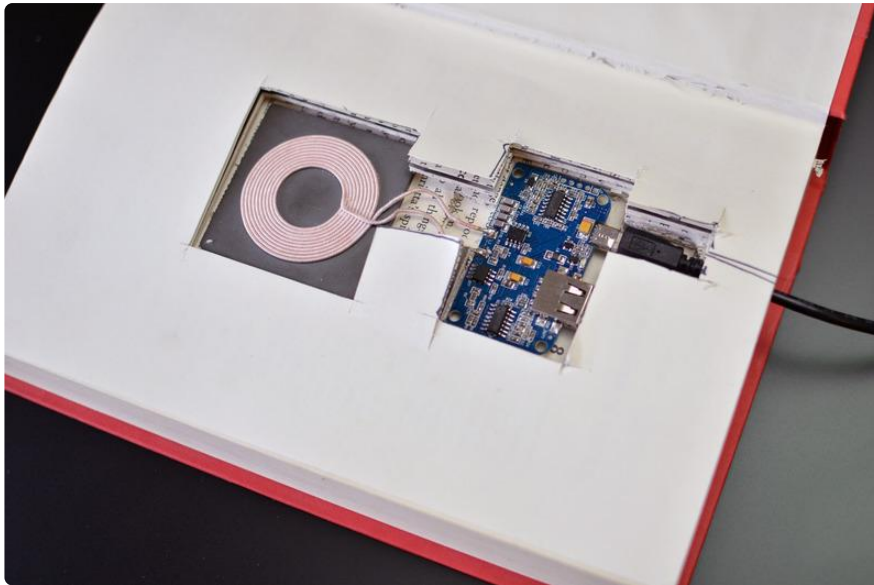




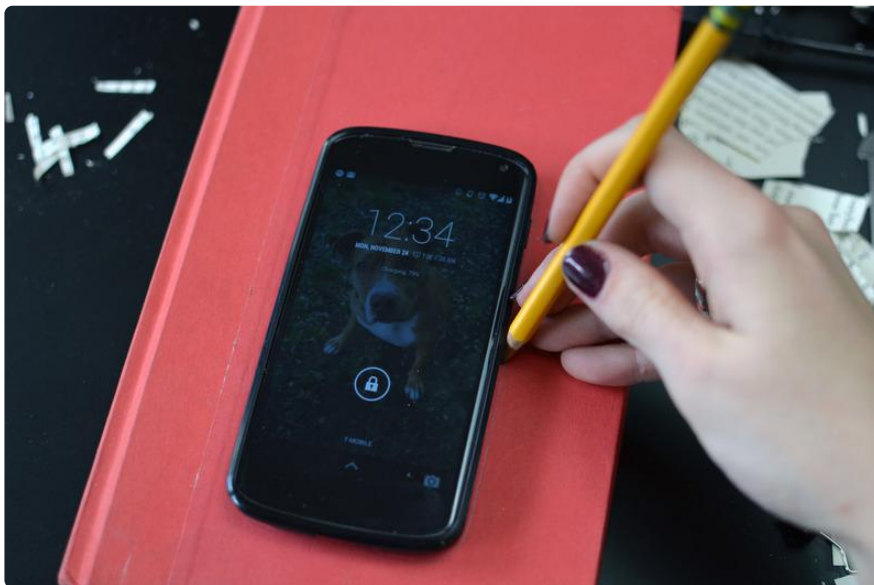


The coil should be as close to the cover as possible, but you might want to make the spot for the circuit a bit deeper so the USB connector is completely submerged in pages.

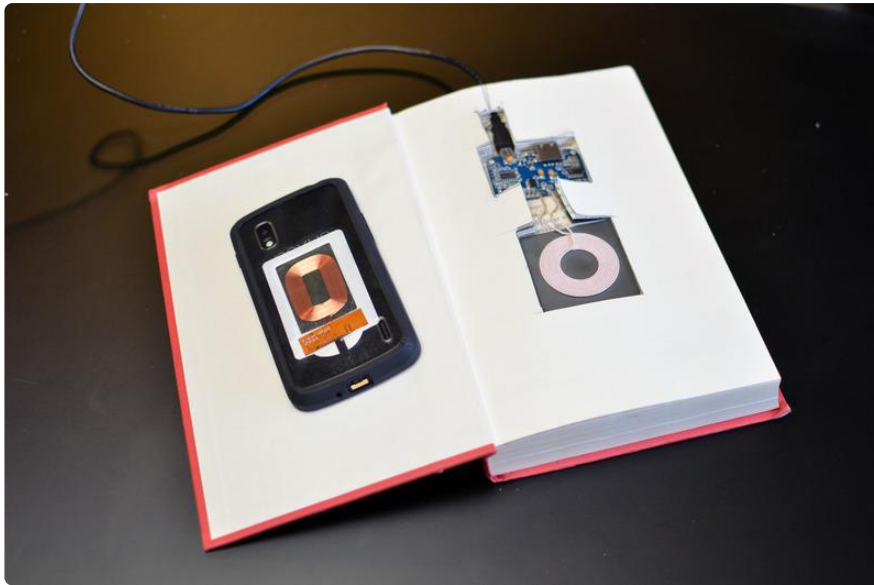
Don't forget to cut a channel for the USB cable!



Make sure the book can close fully, and plug in the USB cable to verify the phone will charge when placed on top.



Next place the phone on the book while its closed, lining up the coils so it's charging. Then trace around the phone with a pen or pencil so you'll know where to put it when you want it to charge!



That's it! Go out there and enjoy your charger!

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## Use it!



Never fumble in the dark for a power cord again! Now you can just set your phone on your book overnight to charge.