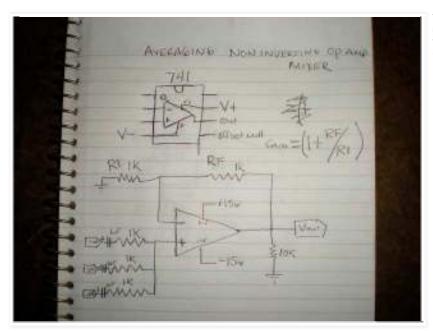
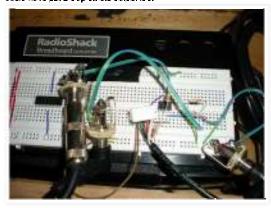
## Simple mixer for my modular synthesizer



This is my schematic for my Simple Mixer. By

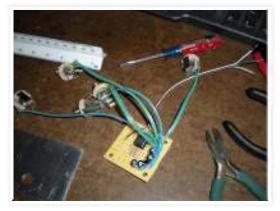
my schematic", I mean I found on the internet. There's no volume or tone control. I wanted to start with something simple and hard to screw up. Without getting into how op amps work, its non-inverting, which means that signals that enter, will have in the same phase. It's also set up as an "averaging" amp and not a "summing" amp, meaning that the volume after it in it is an average of the volumes before mixing. That doesn't mean it mixes all volumes evenly. Things that were louder in gin will be louder coming out.

| trund the schematic here and modified it just a little bit by adding some Caps on the input. From what I've come to understand, Caps will help filter out DC? I dunno, I'm really just kind of playing around over here. It occurs to me now that I wall have out a Cap on the output too.



I built it on a breadboard first without the caps and it seemed to work fine.

Sc I went ahead and tried out with the caps. It all grked so I stuck it in a perf board and soldered it





Turned it into a module.



The mixer is on the Right. just to the left of my Ring Modulator which I haven't written about because I'm Mil working on it. You can see the mixer has 4 injuts above and an output below.

I will these modules with the intent, to return to them--after my knowledge has grown-- and modify them. I will eventually add some trim pots to this through for volume control.

the of the cool things about building a modular th, is being able to work in steps. Each modules is solated and if one doesn't work, I can still chug and trying different stuff--teaching myself all along mr way. They also share a common power supply, meaning I don't have to build that circuit each time.



There's nothing quite like learning by necessity, and I've learned more about electronics in the last 3 months than I did in the II nears prior.

**p**: My portamento module worked but I'm waiting on some supplies to come from Jameco before I solder it up.

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