Modular Synthesizer

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A modular synthesizer is a musical instrument that produces sounds by routing independent modules together. Modules such as oscillators, filters, delays, and sequencers allow for myriad sonic possibilities. Traditional modular synthesizers, most famously produced by Moog, date back to the mid-1960s. These synthesizers worked entirely in the analog domain. Our modular synthesizer will internally function in the digital domain, mimicking the components of the original synthesizers and adding some that would not have been possible. Modules for formant shifting and pitch correction will add more to an already vast arsenal of tools to create diverse soundscapes. Modules will be patched together using wires from and to the user data buses. As well, knobs and an intuitive GUI will allow for precision control over the modules and their parameters.