Community Music Schools of Toronto



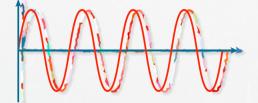


After patching the first VCO to the **MOD IN** of the second VCO, adjust the tuning of the 1st VCO to see how it changes the resulting sound (frequency modulation).



Patch 13

FM Synthesis (Frequency Modulation)



Instead of using the filter (VCF) to modulate complex waves, **frequency modulation** allows you to *build* rich and complex sounds from simple sine waves.

Using one audible signal (sine wave) from one VCO to modulate the frequency of the second VCO, you can generate harmonic complexity and create sound 'coloring' and new timbres.

Increase the MOD AMOUNT to create interesting timbres and sound complexity.

The **sine** wave offers a smooth tone with no harmonic complexity. But when you use a sine wave to modulate another VCO, you can create rich timbres and complex sounds!





sine wave

sine wave

Effects to Mixer or to DAW