**VCO:**  
j5 and j3 : tri en square wave outs  
  
**RGB encoder:**  
j7 : chroma en luma ??

**Tip 1:**  
(1) The C8 hard key circuit can be adapted to provide a pulse width modulation CV and output. Just send the triangle wave into the key input and threshold becomes pulse-width.  
(2) There is a Square output on the C9 circuit. You can output it directly or use it with the triangle to drive a sawtooth waveshaper circuit.

**Tip 2:**

to get the same results as showed in this clip:

<http://www.youtube.com/watch?v=FpOEtm9aX0M>

solder the encoder jacks in this way:

-connect the red tip to the green switch

-connect the green tip to the blue switch

Now the colors are cascaded downward.

Use a Processor on each color channel output for more control.

You can also solder two switches between the cascade connectors, to be able to turn this option on and off. Maybe add some attenuators too!

**Tip 3:**

The Processor module can also be used to slow the frequency of a VCO.

Simply connect the output of the Processor to the CV input of the VCO.\

Now you can get a much slower rate!

You can still use the input of the processor to get more modulation done.

**Tip 4:**

Use multiples to get more functionality!

Add several Ramp outputs together to get cool new shapes. Combine with modulations. etc.