

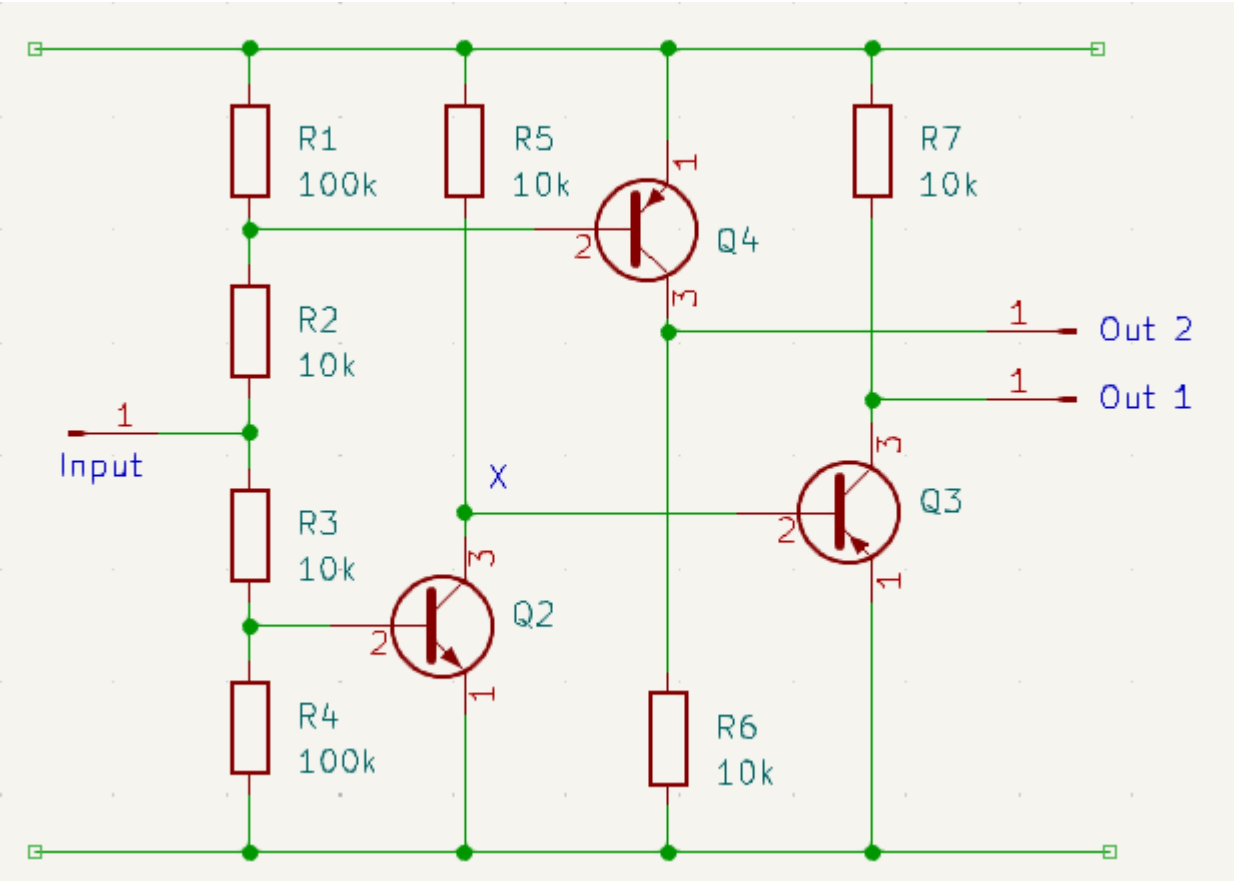
Three Output States from One Pin

See this thread for the original discussion/design of using one pin,set to High,Low or Hi Impedance to generate three output states to allow control to two outputs. Handy if you are short 1 pin. Initially used on the Picomite to use a single pin to control both Touch CS and SD CS on an LCD Panel.  
[A new Pico PCB for V5.09.00 - comments](#)

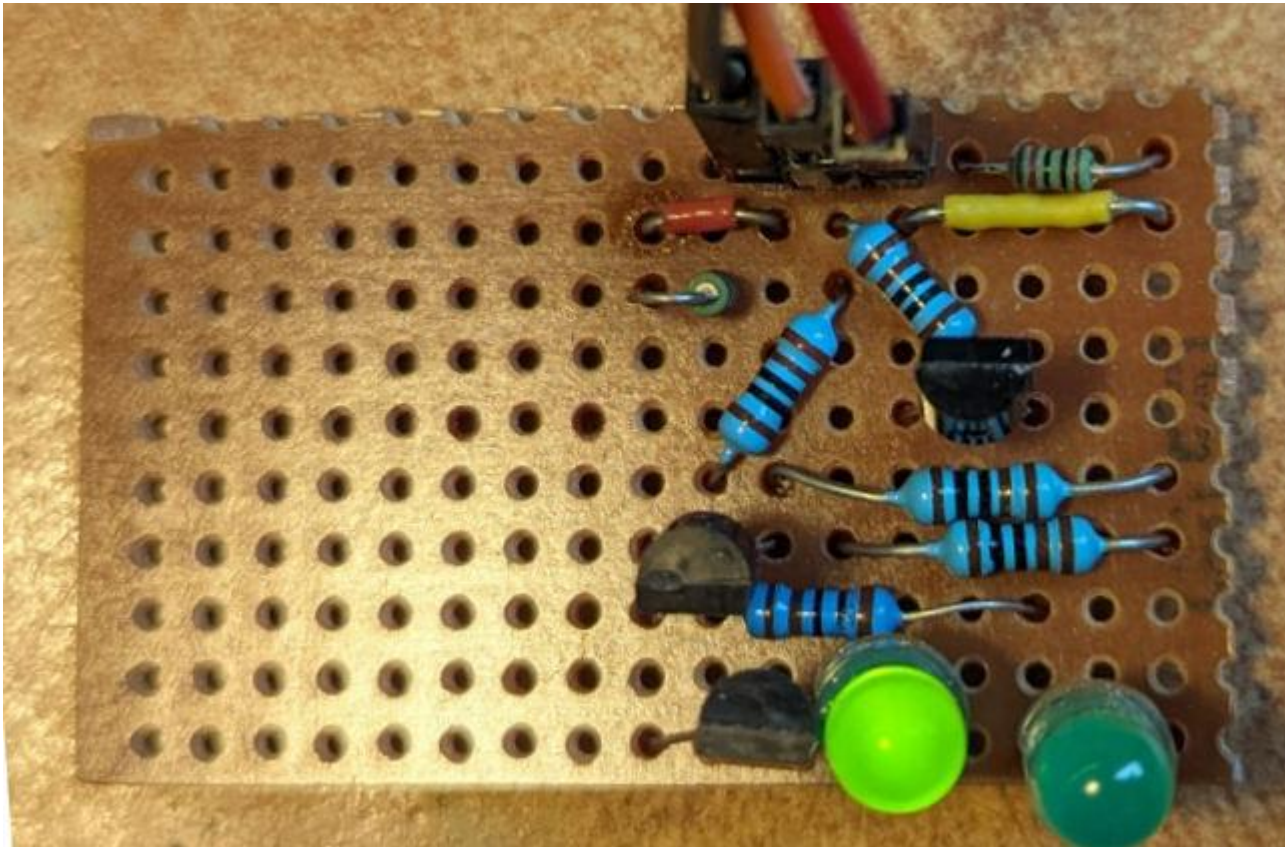
The Truth Table

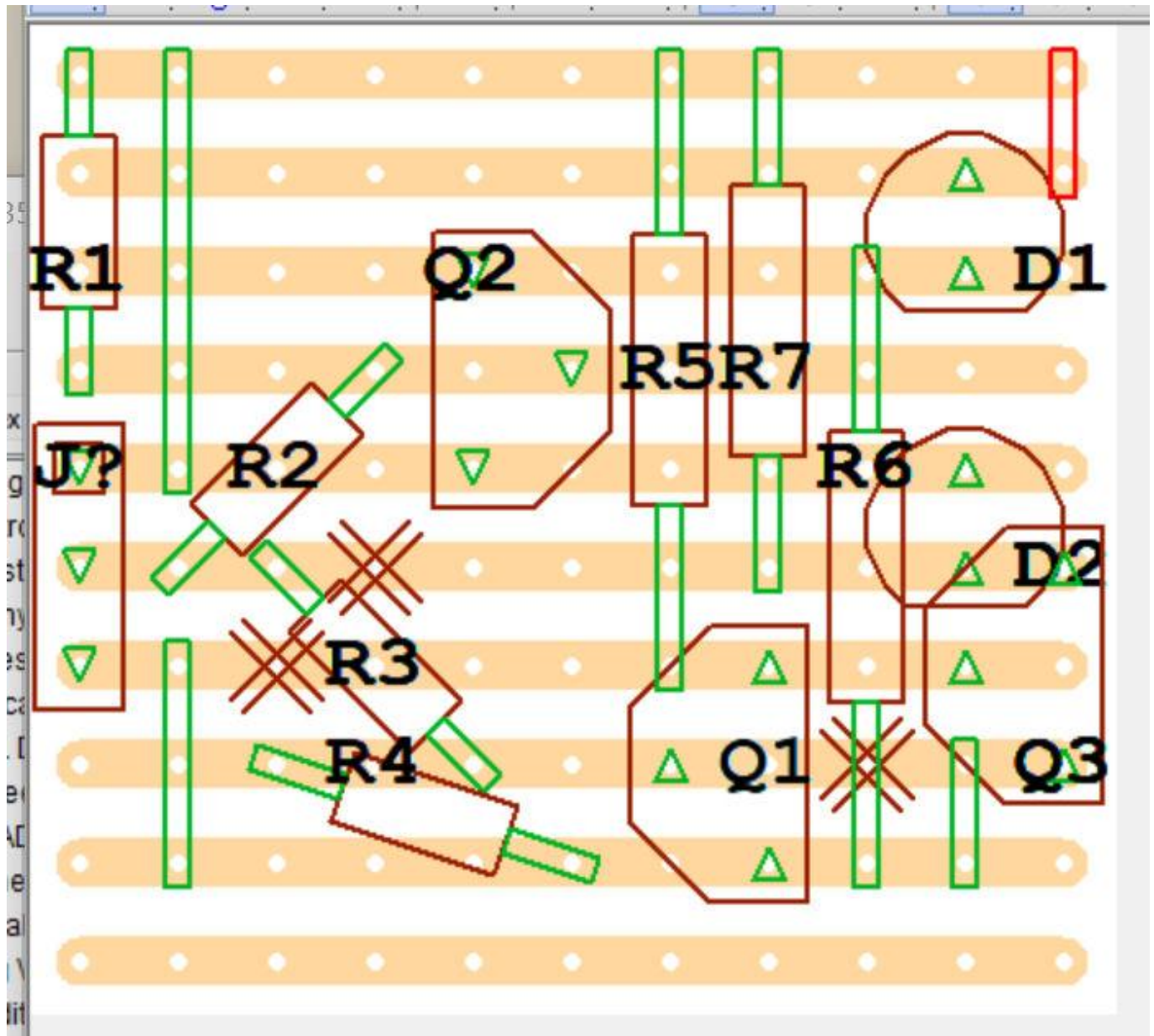
Pin Status	Output 1	Output 2
HiZ (set as input)	1	1
0 (set as output)	0	1
1 (set as output)	1	0

**The circuit** (courtesy @Turbo46 on TBS)  
*Note1: The symbol for Q3 is incorrect, should be an NPN the same as Q2*  
*Note2: Change all 10K to 1K and all 100K to 10K*



The circuit works when you change Q3 into an NPN transistor. Works perfectly. I've substituted 1k for all 10K and 10K for all 100K Three output states from one pin





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Last update: **2024/03/04 08:58**

