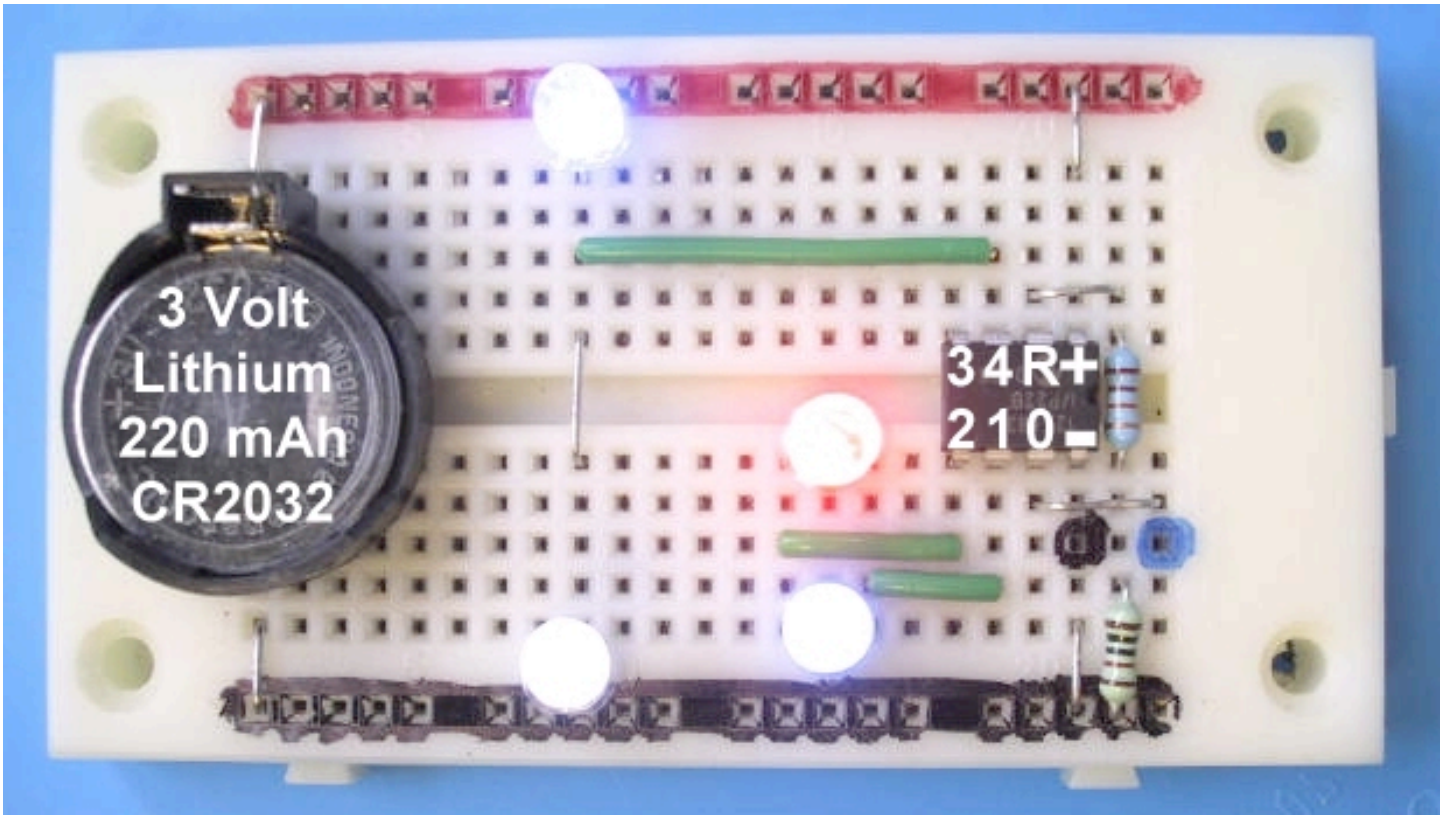
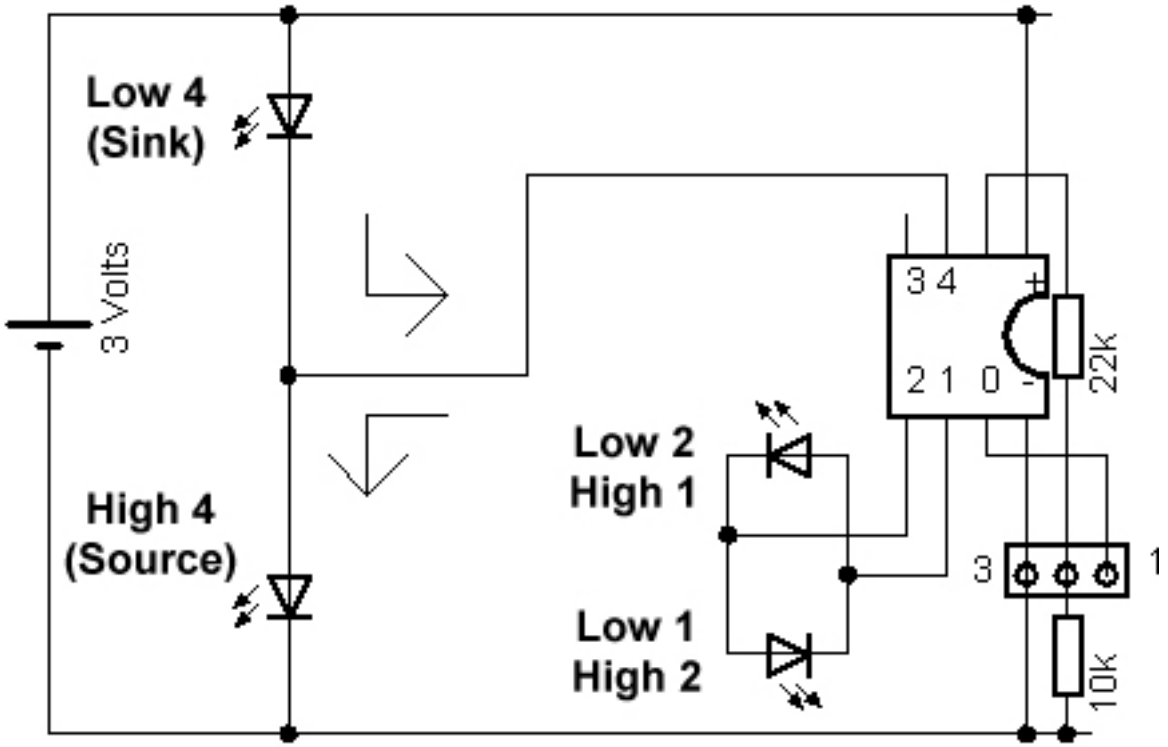
Two Alternative Methods of Driving Multiple LED's



- An output pin of a PICAXE can supply current (SOURCE) or take current (SINK)
- In this example Pin 4 is rapidly switching between HIGH and LOW to make it look as though both LED's are on at the same time. (Sum of both LED Must be < Vcc)
- To turn off both LED's Pin 4 can be made into an INPUT (Input 4)
- Optional current limiting resistors are not essential as picaxe outputs current limit



- Another method of driving multiple LED's is to connect them BETWEEN OP pins
- If Pin 1 is made HIGH and the Pin 2 LOW then the top LED will light up
- If Pin 2 is made HIGH and the Pin 1 LOW then the bottom LED will light up
- Looking at pins 1 and 2, how many LED's can be driven off an 08M with 4 OP pins ? Can you work out a general formula ?
- Look up http://en.wikipedia.org/wiki/Charlieplexing