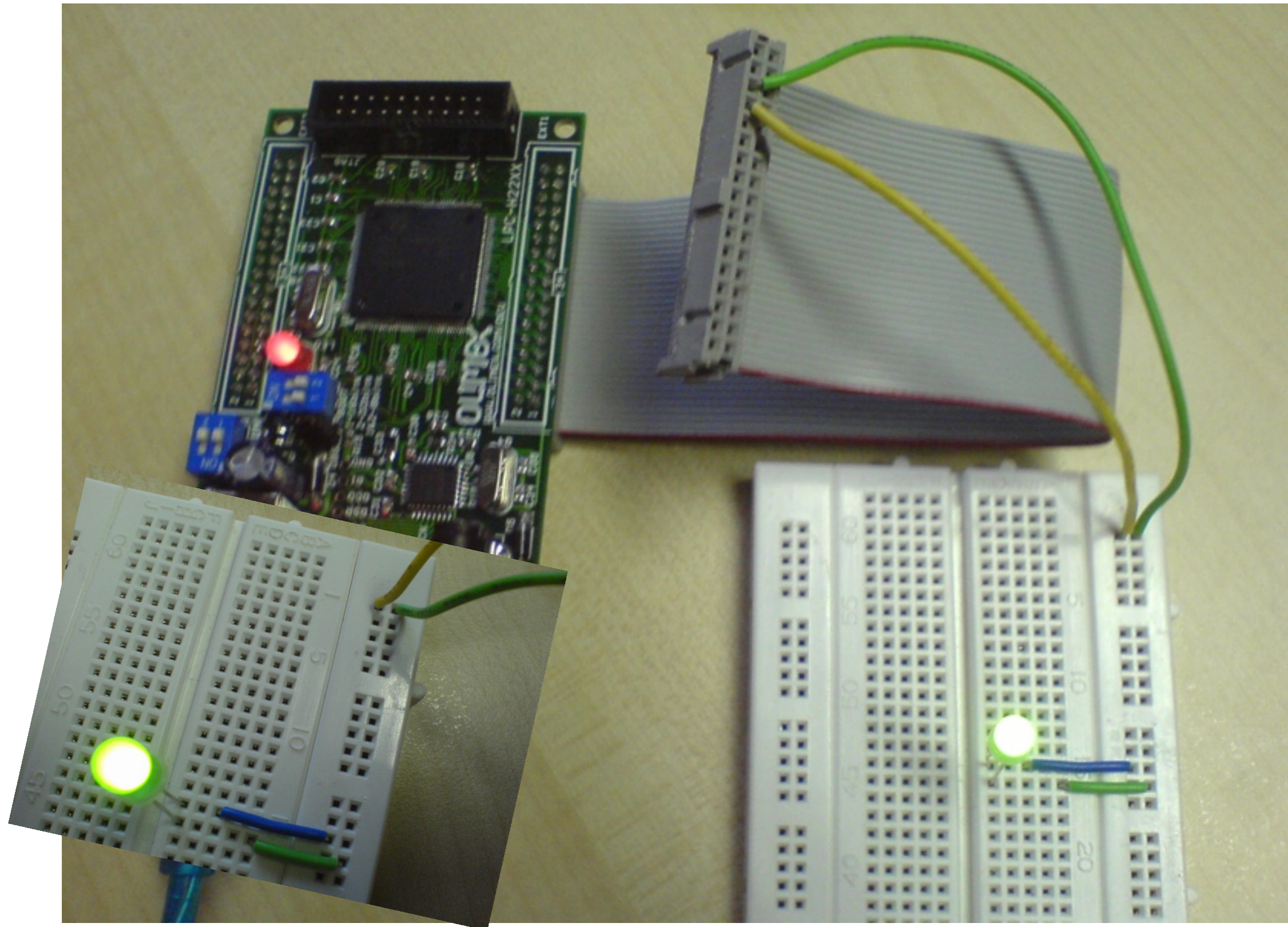
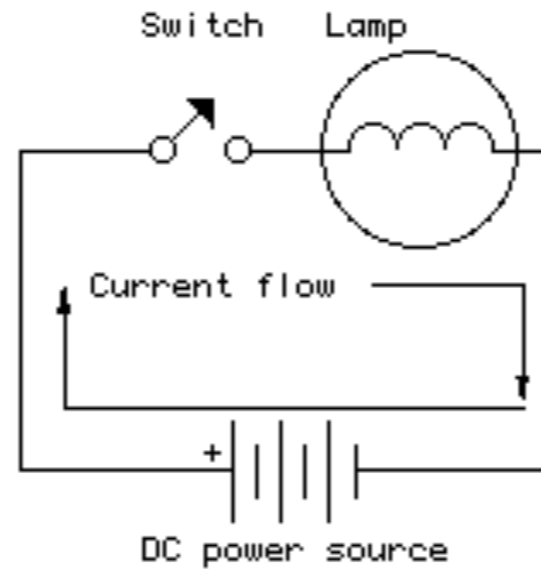
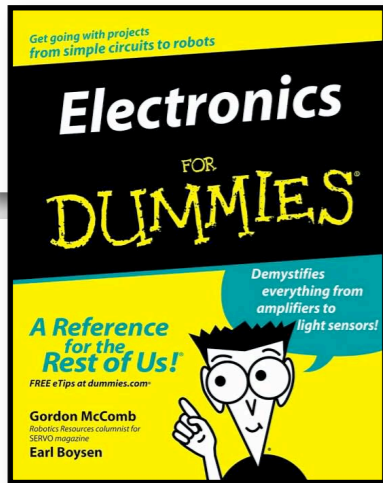


# Exercise: LED powered by uC

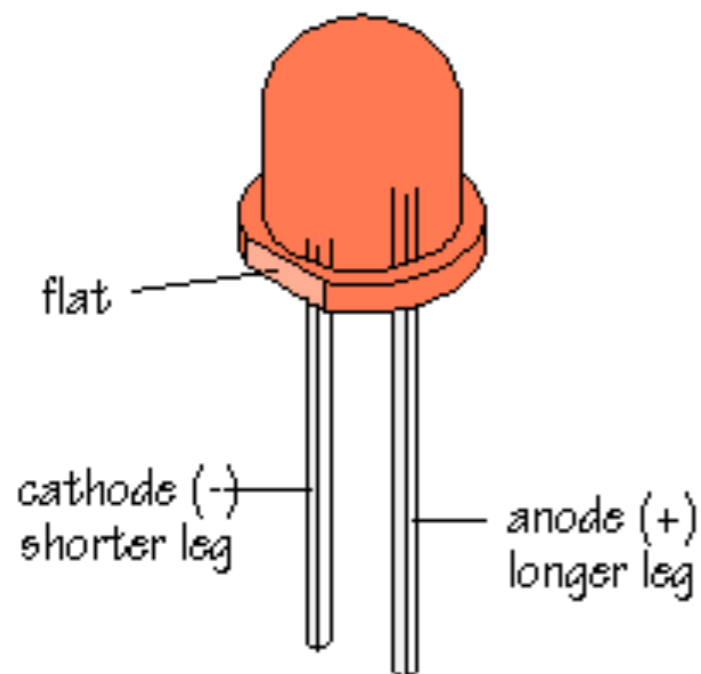


# Electronics for Dummies



**circuit**

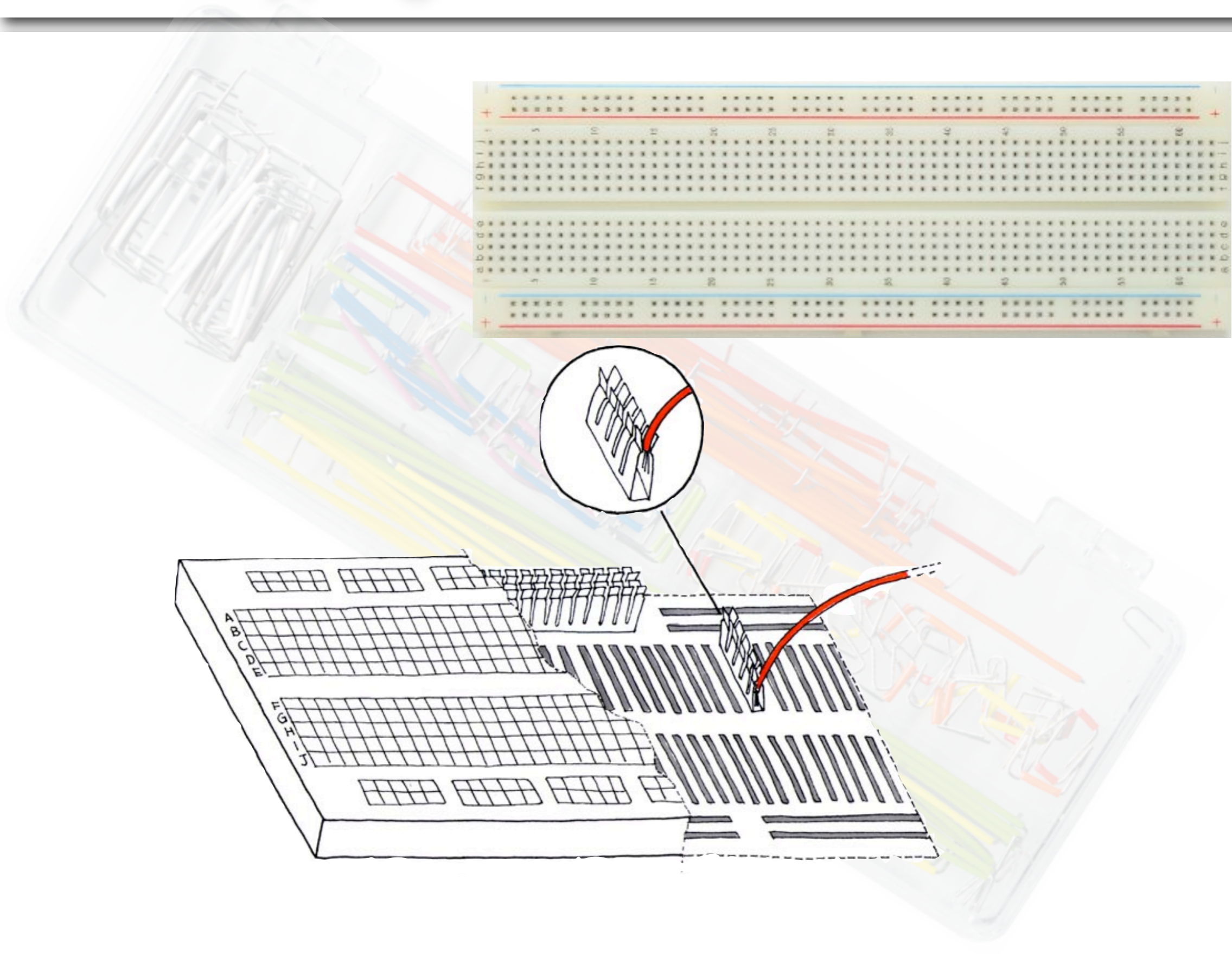
## polarity of a LED



**Ohm's law**

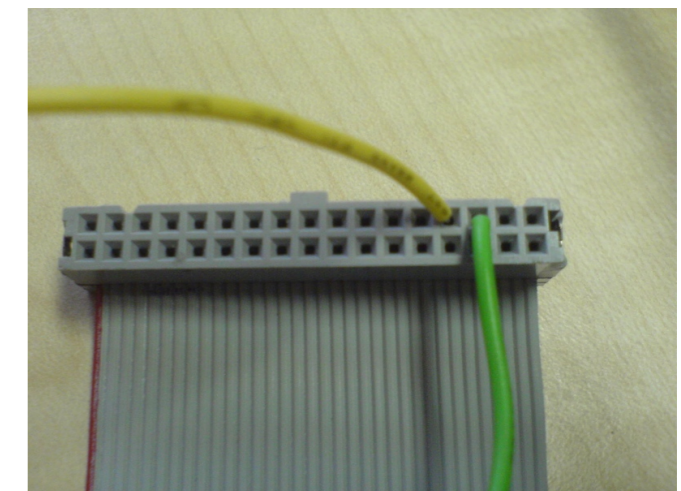
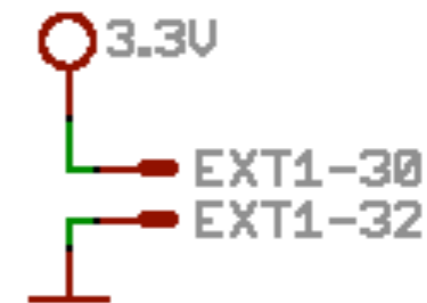
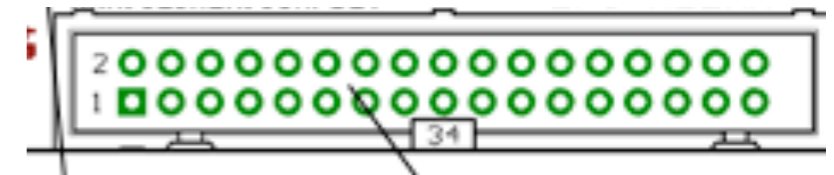
ampère	volt	ohm
↓	↓	↓
<b>I</b>	<b>=</b>	<b>V / R</b>
↑	↑	↑
current	voltage	resistance

# Prototyping a Circuit on a Breadboard



# Olimex LPC-H2214 Schematic Detail

P0.0/TXD0/PWM1	42	TXD0	EXT1-1
P0.1/RXD0/PWM3/EINT0	49	RXD0	EXT1-3
P0.2/SCL/CAP0.0	50		EXT1-5
P0.3/SDA/MAT0.0/EINT1	58		EXT1-7
P0.4/SCK0/CAP0.1	59		EXT1-9
P0.5/MISO0/MAT0.1	61		EXT1-11
P0.6/MOSI0/CAP0.2	68		EXT1-13
P0.7/SSEL0/PWM2/EINT2	69		EXT1-15
P0.8/TXD1/PWM4	75		EXT1-17
P0.9/RXD1/PWM6/EINT3	76		EXT1-19
P0.10/RTS1/CAP1.0	78		EXT1-21
P0.11/CTS1/CAP1.1	83		EXT1-23
P0.12/DSR1/MAT1.0	84		EXT1-25
P0.13/DTR1/MAT1.1	85		EXT1-27
P0.14/DCD1/EINT1	92	BBL	EXT1-29
P0.15/RI1/EINT2	89		EXT1-31
P0.16/EINT0/MAT0.2/CAP0.2	100		EXT1-2
P0.17/CAP1.2/SCK1/MAT1.2	101		EXT1-4
P0.18/CAP1.3/MISO1/MAT1.3	121		EXT1-6
P0.19/MAT1.2/MOSI1/CAP1.2	122		EXT1-8
P0.20/MAT1.3/SSEL1/EINT3	123		EXT1-10
P0.21/PWM5/CAP1.3	4		EXT1-12
P0.22/CAP0.0/MAT0.0	5		EXT1-14
P0.23	6		EXT1-16
P0.24	8		EXT1-18
P0.25	21		EXT1-20
P0.27/AIN0/CAP0.1/MAT0.1	23		EXT1-22
P0.28/AIN1/CAP0.2/MAT0.2	25		EXT1-24
P0.29/AIN2/CAP0.3/MAT0.3	32		EXT1-26
P0.30/AIN3/EINT3/CAP0.0	33	LED	EXT1-28



red wire on number 1

# Olimex LPC-H2214 Schematic Detail

