Benjamin really liked the light pillow and the ocean wall hanging Jon says to try Resistors [= Fixereasea an decreases amount of current buzzer as 2nd steps. LED and photo resistor; nn = Variable resistor - photoresistor nom = See tutorial "A Simple Resistor Circuit" on Txplore, He shows how to measure \_1kg Battery T corrent w/multimeter. num = fixed resistor These resistors are connected in series LED and potentioneter: 1 goes to t 2 goes to LED 3 goes to ground or regative Battery T current of circuit never changes. Pot just creates a Woltage divider varying the Pulldown resistor connects GPIO to ground. amount of aurent voltage Pull-up resistor connects GPIO to t. Bringssignalize on either side of the divider. Kirchoff's law. use resistors worke Voltage ladder is more between 14 kg and 40 kg He showed the than I divider Signal with an oscilloscope. The tine was straight with pull-up/down resistors.

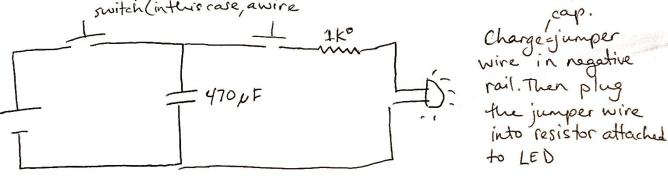
Eliot played with the jellyfish once I pointed it out to him. I don't remember what he said. "Catalina also played with it a bit, too even after Eliot walked away. I'll record Stella's voice in it on Thursday and see if Jon can program it in for Saturday's class.

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Capacitors:

\* Capacitors can store energy. In this example, you charge the capacitor then use it to light an LED until the energy Stored is used up.

switch (inthis case, awire , cap.



Refer to video 2 of capacitor sequence

· Using capacitors to clean up noisy signals. Uses an oscilliscope. Capacitor here removes the A/c component of the signal (num) and leaves the Dc(—). Maybe just show this video to the class since he uses a signal generator machine. Start about 7:30 into the third video.

What do the capacitors do in our oscillator circuit?