#BadgeLife

Rick Badge @HackerLab





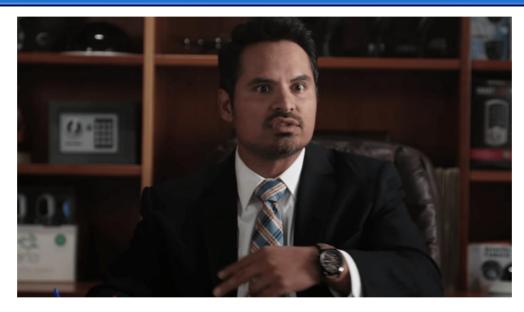
Welcome

- Handle: @soynerdito
- Name: Javier
- Developer
- I write the issues you exploit.





What is #BadgeLife

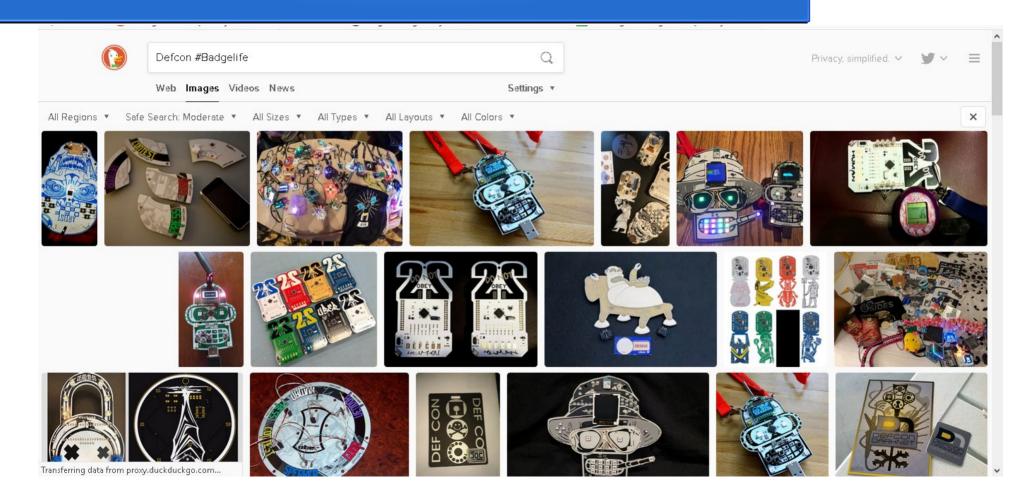


It's a long story

Origin

- One conference (Defcon)
- People do their own badges
- Other people are crazy searching for

Oh my!



How it all started

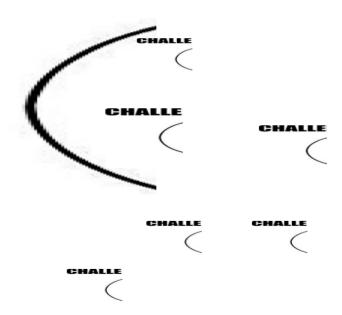
- One meetup
- One conversation
- Vamos a hacer un badge para BSides



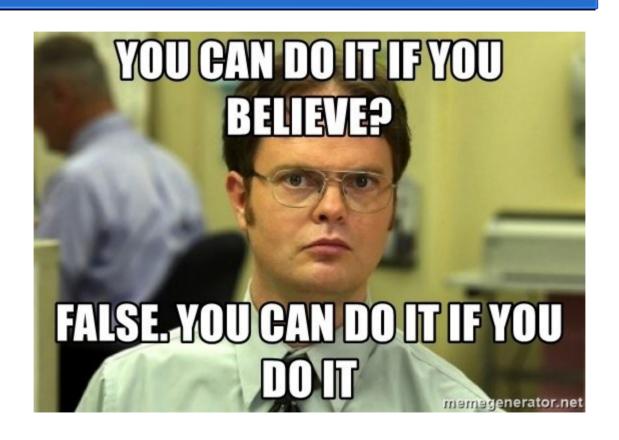
CHALLE

CHALLE





True that



Scared?



Bsides Badges



BSides2015 BSides2015



BSides2016



BSides2017/18

Jose again



Vamos a hacer uno para el Hackerlab!

Y...





Rick Badge

Brain = Attiny13A

Extras:

1 x 74HC164 Shift Register

8 x Leds

8 x 680 ohm resistors

1 x 12.5k resistor

1 x 47uF capacitor



Software

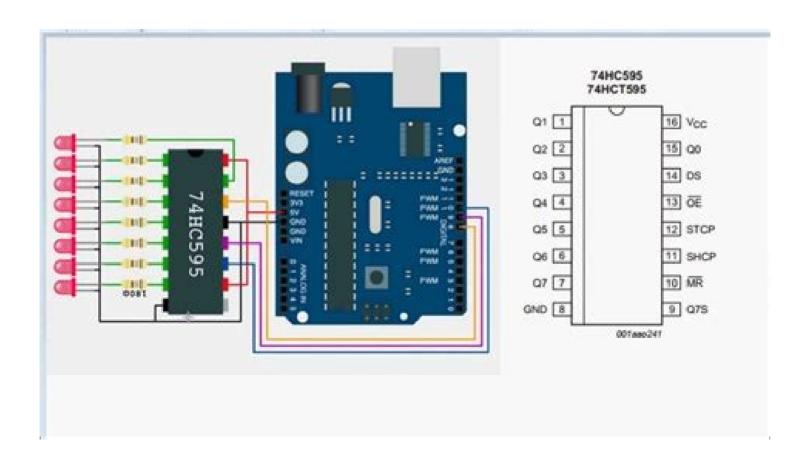
- Programming:
 - Arduino
- Drawing:
 - Inkscape
 - LibreCAD
 - Gimp
- PCB Design:
 - KiCAd

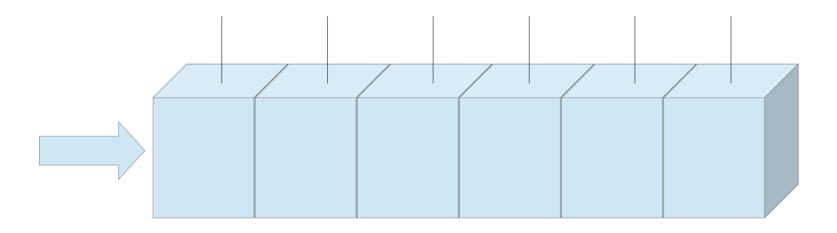


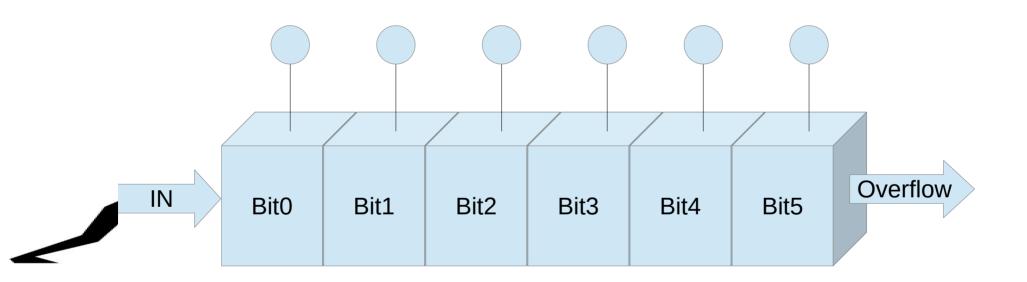


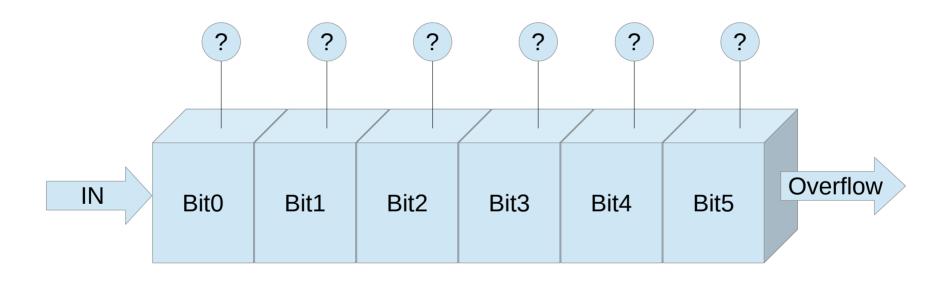


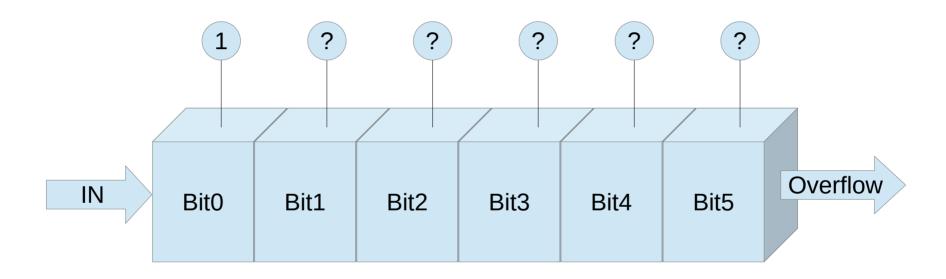


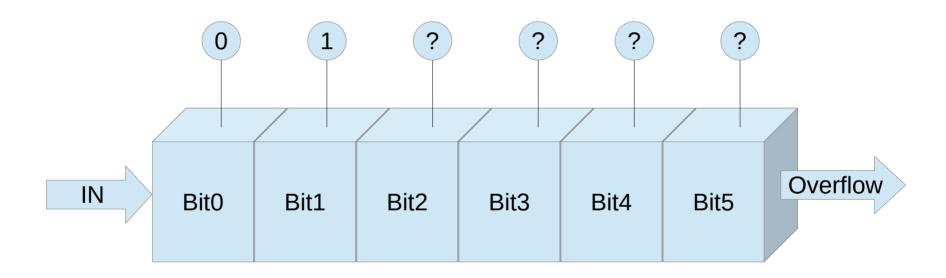


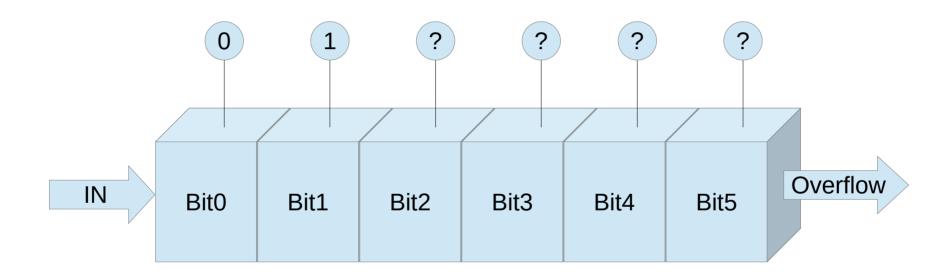












And that's a shift register, serial to parallel

Components

Through Hole

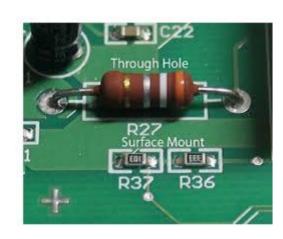




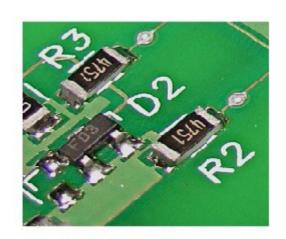
Surface Mount





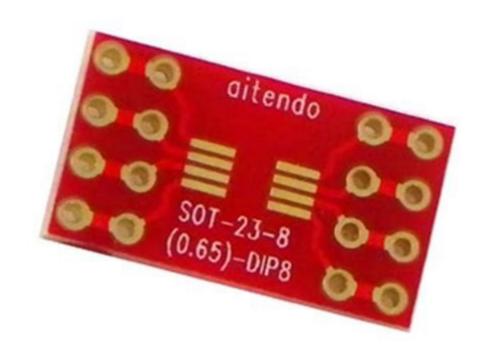


Surface mount resistor when compared to the size of a normal resistor

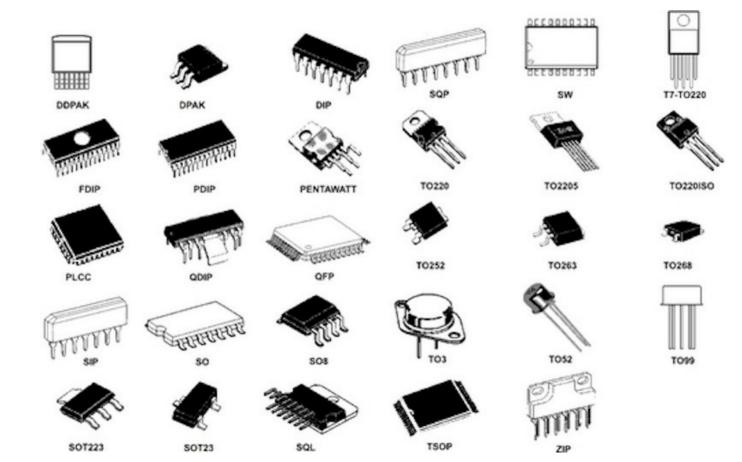


Surface mount resistors mounted on a PCB

Adapters Surface mount to through hole

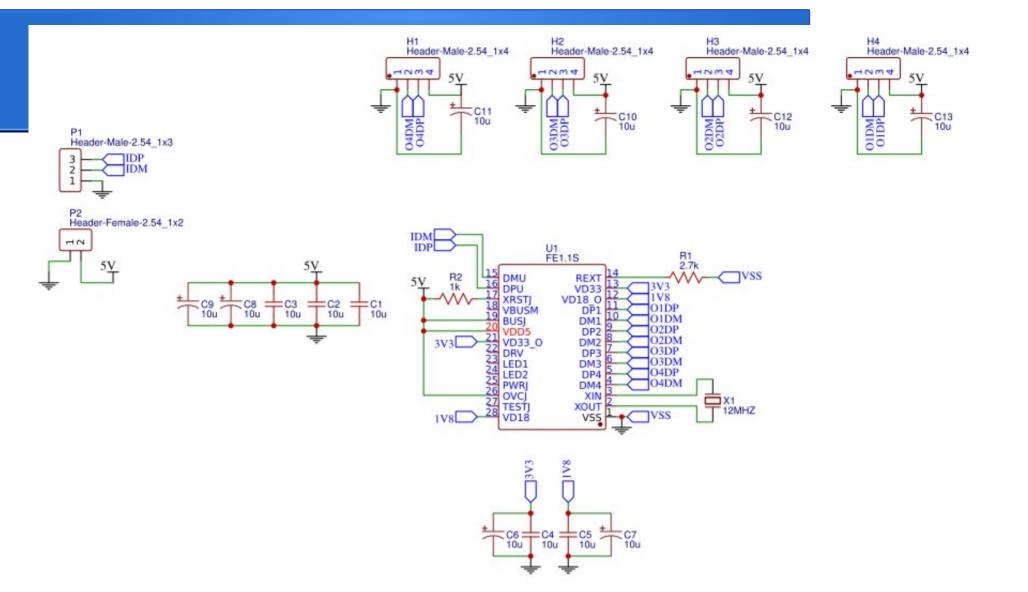


Package Families



Some Surface mount Package sizes

Package type	Size in inches	Size in mm
0201	0.024" x 0.012"	0.6 mm x 0.3 mm
0402	0.04" x 0.02"	1.0 mm x 0.5 mm
0603	0.063" x 0.031"	1.6 mm x 0.8 mm
0805	0.08" x 0.05"	2.0 mm x 1.25 mm
1206	0.126" x 0.063"	3.2 mm x 1.6 mm
1210	0.12" x 0.10"	3.2 mm x 2.6 mm
2020	0.20" x 0.20"	5.08 mm x 5.08 mm



Good Tutorial Contextual Electronics (Youtube)

