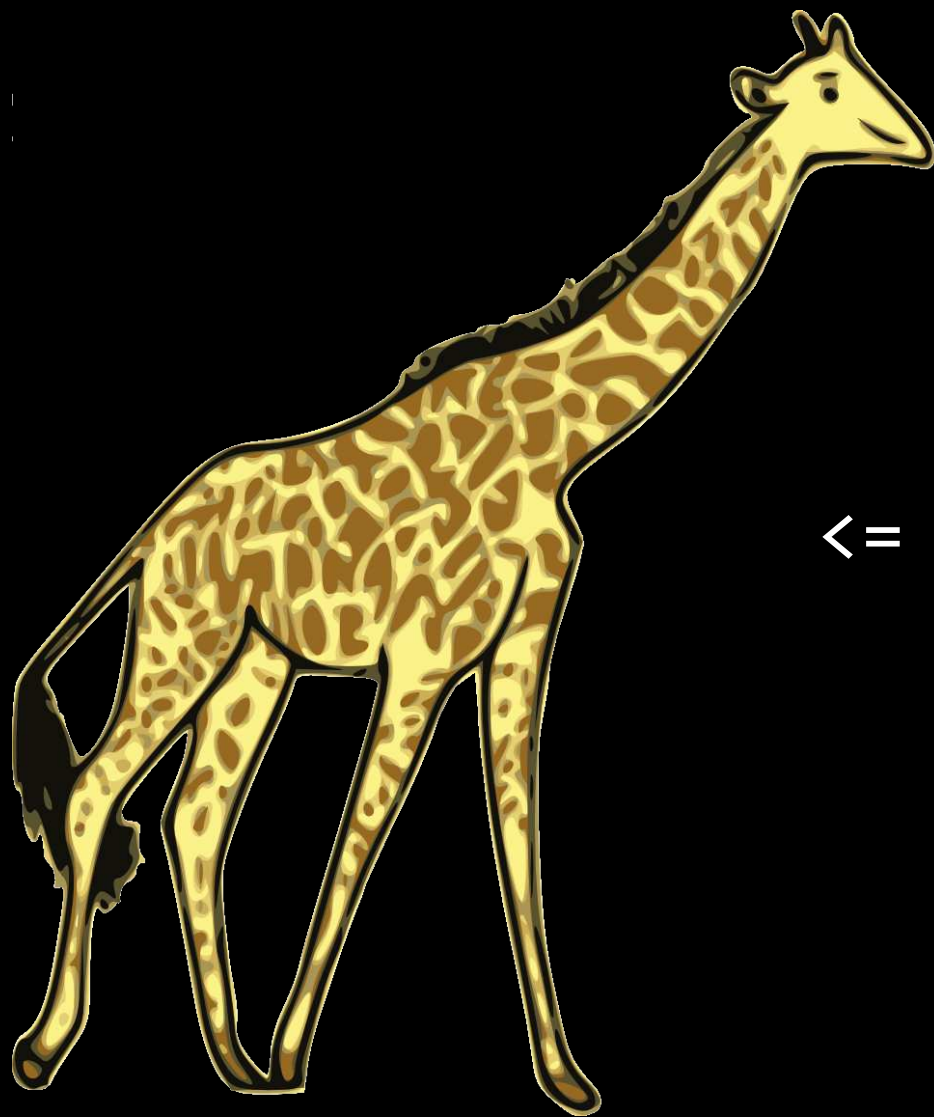




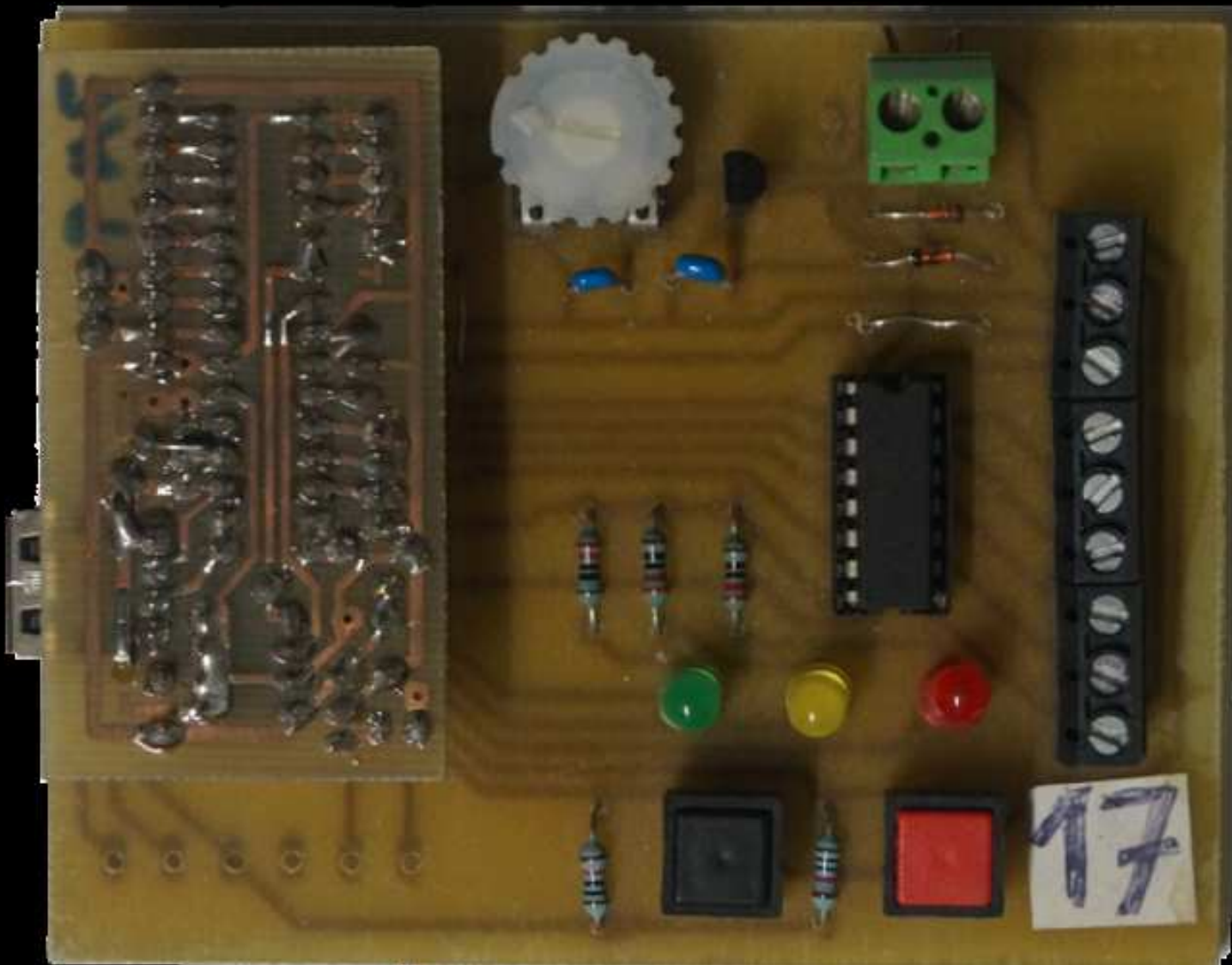
@31c3

luto



<= Robert Fischer







“USB-Master”

17



▶ Run



Untitled

File ▾

Menu ▾

```
1 ; Toggle the green LED and increment a byte-register by
2 ; Additionally the yellow LED is switched once an overfl
3 ; The red LED is toggled via an interrupt when the red b
4
5 ; ---- INIT
6     MOV     b0, 0x00|
7     MOV     b1, 0x20
8
9 ; Enable interrupts for the red button (= pin 2)
10 ; Pin:  7 6 5 4 3 2 1 0
11 ; Mask: 0 0 0 0 0 1 0 0 = 4dec
12     ENABLE 4
13
14
15 ; ---- Blink green and increment b0 by b1
16 main:
17     ADD     b0, b1
18     DEBUG  b0      ; send current value of b0 to de
19     JC     carry   ; jump if b0 had an overflow
20     TOGGLE 5      ; toggle green LED
21     PAUSE 30000   ; wait for ~450ms
22     JMP    main
23
24
```

Labels

main

carry

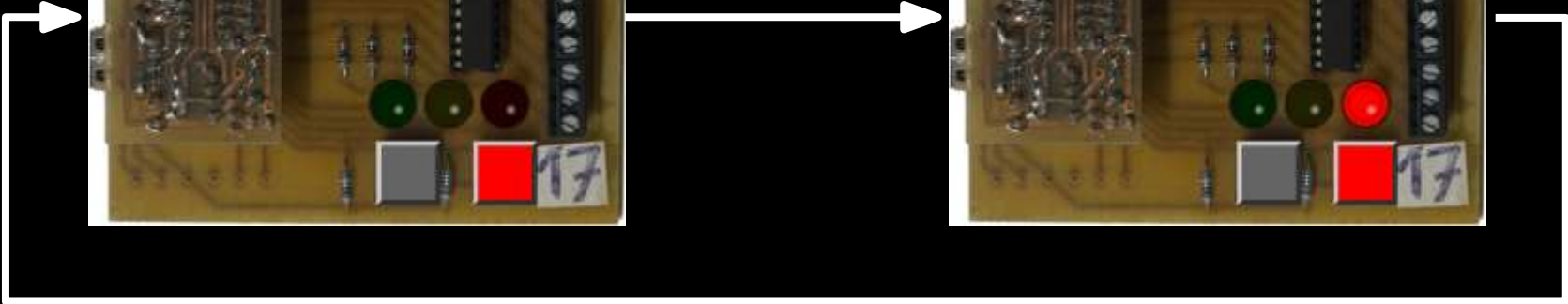
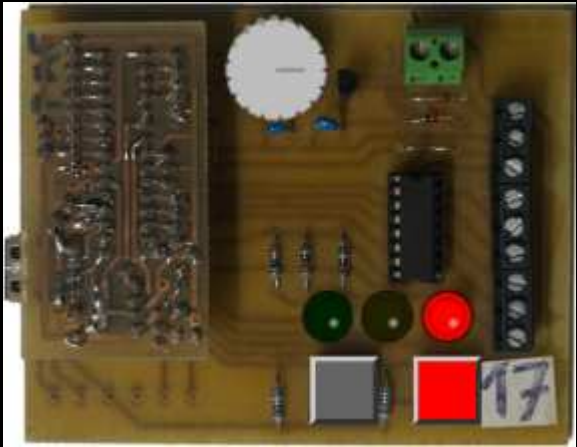
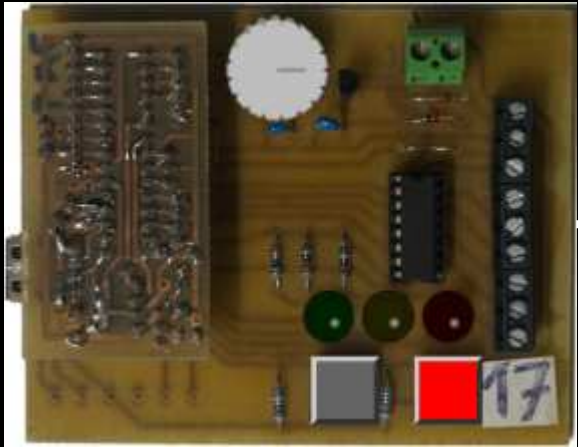
isr1

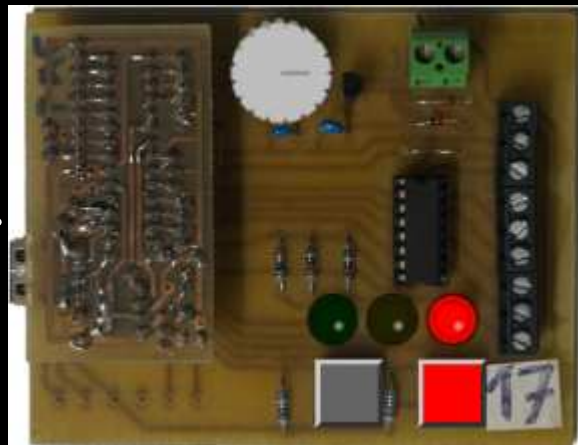
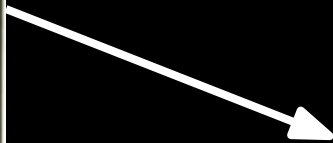
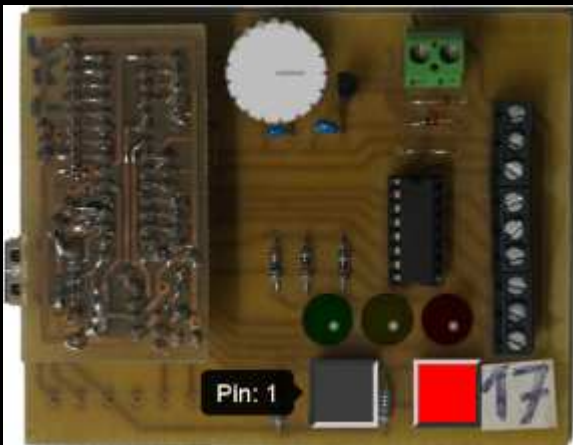
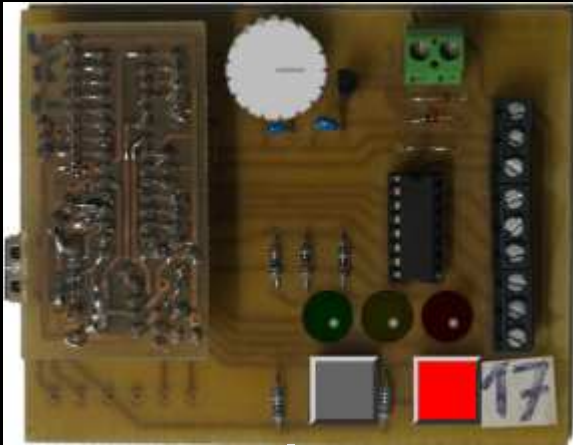
helloWorld

MOV Byte-Register, Byte-Literal

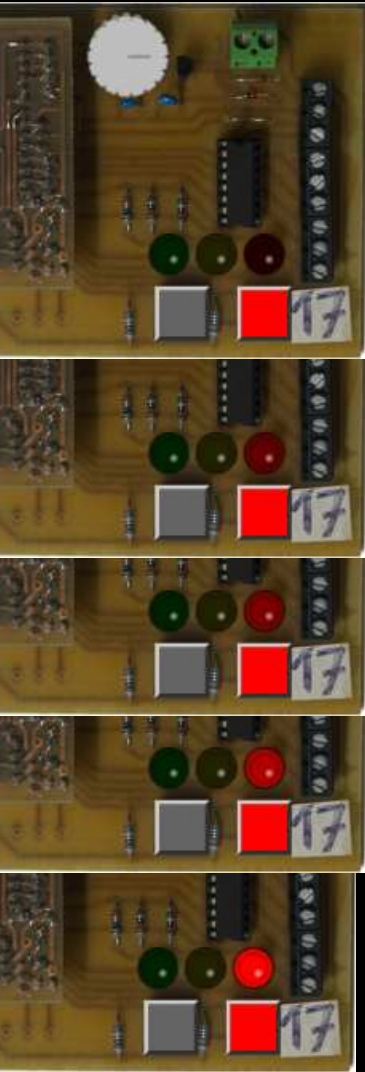
Writes the given literal value into the register.

```
1 loop:  
2 TOGGLE 3  
3 DELAY 30000  
4 JMP loop  
5
```





```
1 ; enable interrupts on pin 1
2     ENABLE 2
3
4 ; main program which does nothing
5 main:
6     JMP main
7
8
9 ; interrupt service routine
10 ; (called on interrupt)
11 isrl:
12     TOGGLE 3
13     RETI
14
15 ; interrupt table
16     ORG 0x102
17     DA isrl
18
```

```
1 main:
2 ; Read potentiometer value into the higher byte
3 ; of w0, which is b1.
4 ; This value will be used as T-on.
5     ADC     w0, 11
6
7     MOV     w1, w0    ; copy T-on to T-off
8     INV     b3       ; T-on + T-off = 255
9
10    HIGH    3        ; turn the LED on
11    DELAY   w0       ; wait for T-on
12    LOW     3        ; turn the LED off
13    DELAY   w1       ; wait for T-off
14
15    JMP     main
```

Step Step Back Break Continue Jump to Status: Break: Breakpoint

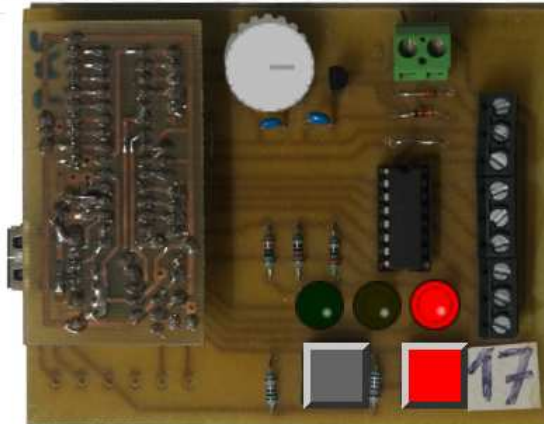
```
1 main:
2     ADC     w0, 11
3     RANDOM b5
4     PUSH   b5
5
6     MOV     w1, w0 ; copy T-on to T-off
7     INV     b3     ; T-on + T-off = 255
8
9     HIGH    3     ; turn the LED on
10    DELAY   w0     ; wait for T-on
11    LOW     3     ; turn the LED off
12    DELAY   w1     ; wait for T-off
13
14    JMP     main
15
```

Debug RAM ROM Registers Breakpoints

Registers


Format: [HEX](#) Stack

	C	Z	PC	SP	w0	b5	w1	b3	Stack
6	0	0	000c	028c	0000	fa	00ff	ff	86
5	0	0	000a	028c	0000	fa	0000	00	ee
4	0	0	0007	028c	0000	fa	00ff	ff	2e
3	0	0	0005	028b	0000	fa	00ff	ff	69
2	0	0	0003	028b	0000	b4	00ff	ff	31
1	0	0	0000	028b	0000	b4	00ff	ff	> dd












Open Source! Woop!



PUBLIC  **yasp / yasp**









yasp is a fully functional web-based assembler development environment, including a real assembler, emulator and debugger. <http://yasp.me> — Edit


 697 commits  3 branches  1 release  3 contributors


 branch: **master**  **yasp** / 

Added: Complex Help generation task for grunt

 **metzzo** authored 13 days ago latest commit [a8ab38d5c5](#) 

 doc	Added: FileDialog doc	2 months ago
 src	Fixed: Padding properly set in "show registers on hover"	2 months ago
 .gitignore	Added: Complex Help generation task for grunt	13 days ago
 Gruntfile.js	Added: Complex Help generation task for grunt	13 days ago
 JSDOC_INDEX.md	added index file for jsdoc	3 months ago
 LICENSE.txt	yasp is now GPLv3	4 months ago
 README.md	grunt: renamed "commandjs" to "commands"	3 months ago
 package.json	removed empty mail.js, cleanup gitignore and package.json	3 months ago

 **README.md**



yasp is a fully functional web-based assembler development environment, including a real assembler, emulator and debugger. The assembler dialect is a custom which is held very simple so as to keep the learning curve as



BREAK ; halts the CPU.
; **any Questions?**

<http://yasp.me/>

... and thanks for all the fish!

DECT: LUTO (5886)