

http://people.net/old/regex.html

Go

FEB MAR OCT

08

2015 2016 2017

61 captures

8 Jun 2009 - 30 Sep 2018

About this capture

Example of POSIX regex in C

I just wanted to show an example of using regular expressions in C.

```
#include <sys/types.h>
#include <regex.h>

int regcomp(regex_t *preg, const char *regex, int cflags);
    Prepare your regex for fast processing
int regexexec(const regex_t *preg, const char *string, size_t nmatch, regmatch_t pmatch[], int eflags);
    Do the matching
void regfree(regex_t *preg);
    Free your compiled regex for a new "compiling"
size_t regerror(int errcode, const regex_t *preg, char *errbuf, size_t errbuf_size);
    Retrieve some more information on why the regexexec() failed

#include <sys/types.h>
#include <regex.h>
#include <stdio.h>

int main(int argc, char *argv[]){
    regex_t regex;
    int reti;
    char msgbuf[100];

    /* Compile regular expression */
    reti = regcomp(&regex, "^a[:alnum:]", 0);
    if( reti ){ fprintf(stderr, "Could not compile regex\n"); exit(1); }

    /* Execute regular expression */
    reti = regexexec(&regex, "abc", 0, NULL, 0);
    if( !reti ){
        puts("Match");
    }
    else if( reti == REG_NOMATCH ){
        puts("No match");
    }
    else{
        regerror(reti, &regex, msgbuf, sizeof(msgbuf));
        fprintf(stderr, "Regex match failed: %s\n", msgbuf);
        exit(1);
    }

    /* Free compiled regular expression if you want to use the regex_t again */
    regfree(&regex);

    return 0;
}
```

Author [Per-Olof Pettersson](#)

