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原创

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工具集成

- <http://ctf.ssleye.com/>
- <https://tool.bugku.com/>
- <http://www.atoolbox.net/>
- <https://www.qqxiuzi.cn/daohang.htm>
- <https://www.online-toolz.com/>(国外)
- <https://www.dcode.fr/>(国外)
- <https://github.com/guyoung/CaptfEncoder>(离线工具)

ASCII编码对照表

- <http://ascii.911cha.com/>
- <https://tool.oschina.net/commons?type=4>
- https://tool.ip138.com/ascii_code/
- <http://www.51hei.com/mcu/4342.html>
- <http://c.biancheng.net/c/ascii/>

Base家族

Base64

- <https://the-x.cn/zh-cn/base64/>
这个站可根据解码出来的内容进行内容识别，识别成功可直接下载识别后的文件，有时候很方便
- <https://www.qqxiuzi.cn/bianma/base64.htm>
千千秀字的很多在线工具感觉都做得挺好的
- <http://www.atoolbox.net/Tool.php?Id=681>
Atoolbox也是个挺好的在线工具网站，在线工具很多
- <https://tool.chinaz.com/tools/base64.aspx>
- <https://tool.ip138.com/base64/>
- <http://ctf.ssleye.com/base64.html>

Base64编码是使用64个可打印ASCII字符，范围为 **A-Z**、**a-z**、**0-9** 以及 **+**、**/**

Base32

- <https://www.qqxiuzi.cn/bianma/base.php>
- <http://ctf.ssleye.com/base64.html>(可切换Base32)
- <http://www.atoolbox.net/Tool.php?Id=931>
- <http://www.cha128.com/archives/189/>

Base32编码是使用32个可打印字符，范围为字母 **A-Z** 和数字 **2-7**

Base16

- <https://www.qqxiuzi.cn/bianma/base.php?type=16>
- <http://ctf.ssleye.com/base64.html>(可切换Base16)
- <http://www.atoolbox.net/Tool.php?Id=930>

Base16编码使用16个ASCII可打印字符，范围为数字 0-9 和字母 A-F

Base58

- <http://www.atoolbox.net/Tool.php?Id=932>

Base58在Base64的基础上去除了几个看上去有容易产生歧义的字符：数字 0、大写字母 O、大写字母 I、小写字母 l，以及 +、/。所以Base58字符范围是 9 个数字、24 个大写字母、25 个小写字母

Base85

- <http://www.atoolbox.net/Tool.php?Id=934>
- <http://ctf.ssleye.com/base58w.html>

Base91

- <http://www.atoolbox.net/Tool.php?Id=935>
- <http://ctf.ssleye.com/base91.html>

进制编码

十六进制&字符转换

- <http://ctf.ssleye.com/hex.html>
- <http://string-functions.com/hex-string.aspx>
- <https://www.bejson.com/convert/ox2str/>
- <https://www.sojson.com/hexadecimal.html>
- <https://zixuephp.net/tool-str-hex.html>
- <https://www.online-toolz.com/tools/text-hex-converto.php>

字符串&十六进制转换脚本如下：

```
# -*- coding: utf-8 -*-

def str2hex(string):
    resstr = ''
    for char in string:
        hexstr = hex(int(ord(char)))[2:]
        resstr += hexstr
    print('[+]Text To Hex: {}'.format(resstr))

def hex2str(string):
    resstr = ''
    for i in range(0, len(string), 2):
        strnum = int(string[i:i+2], 16)
        if strnum < 128:
            resstr += chr(strnum)
        else:
            resstr += hex(strnum)
    print('[+]Hex To Text: {}'.format(resstr))

if __name__ == '__main__':
    string = "flag{mochu7_No_Girlfriend}"
    #str2hex(string)#字符串转十六进制
    #hex2str(string)#十六进制转字符
```

二进制&字符转换

- <https://www.qqxiuzi.cn/bianma/erjinzhi.php>
- <https://www.online-toolz.com/tools/text-binary-convertor.php>
- <https://codebeautify.org/text-to-binary>(字符转二进制)
- <https://codebeautify.org/binary-to-text>(二进制转字符)
- http://www.txttool.com/wenben_strbinary.asp(字符转二进制)
- <http://www.5ixuexi.com/str/from-binary.php>(二进制转字符)

```
# -*- coding: utf-8 -*-

def bin2str(inputstr):
    for i in range(0, len(inputstr), 8):
        i = chr(int(inputstr[i:i+8], 2))
        print(i, end="")

def str2bin(inputstr):
    for i in inputstr:
        i = '{:0>8}'.format(bin(ord(i))[2:])
        print(i, end="")

if __name__ == '__main__':
    inputstr = 'flag{mochu7_want_a_girlfriend}'#需要二进制解码或者ASCII字符编码的字符
    #bin2str(inputstr)#二进制字符转为ASCII字符
    #str2bin(inputstr)#ASCII字符转为二进制字符
```

八进制&字符转换

- <https://www.qqxiuzi.cn/bianma/erjinzhi.php>
- <https://onlinetexttools.com/convert-text-to-octal>(字符转八进制)
- <https://onlinetexttools.com/convert-octal-to-text>(八进制转字符)
- <https://www.browsersling.com/tools/text-to-octal>(字符转八进制)
- <https://www.browsersling.com/tools/octal-to-text>(八进制转字符)

Url编码

- <https://tool.chinaz.com/tools/urlencode.aspx>
- <https://www.qqxiuzi.cn/bianma/URL%E5%AD%97%E7%AC%A6%E7%BC%96%E7%A0%81%E8%A7%A3%E7%A0%81.htm>
- <http://www.jsons.cn/urlencode>
- <https://www.bejson.com/enc/urlencode/>

编码所有字符脚本如下：

```
def urlencode(encodestr):
    codestr = ''
    for i in encodestr:
        i = '%' + hex(ord(i))[2:]
        codestr += i
    return codestr

if __name__ == '__main__':
    encodestr = 'https://mochu.blog.csdn.net/' #需要编码的字符
    print(urlencode(encodestr)) #如需多次编码循环嵌套即可，例如编码两次urlencode(urlencode(encodestr))
```

Unicode编码

- <http://www.atoolbox.net/Tool.php?ld=670>
- <http://tool.chinaz.com/tools/unicode.aspx>
- <https://r12a.github.io/app-conversion/>(Unicode code converter)

摩尔斯电码

- <http://www.zhongguosou.com/zonghe/moErSiCodeConverter.aspx>
- <https://www.bejson.com/enc/morse/>
- <https://www.qqxiuzi.cn/bianma/dianbao.php>
- <http://www.all-tool.cn/Tools/morse/>
- <http://www.jsons.cn/morse/>

敲击码

- <https://www.boxentriq.com/code-breaking/tap-code>
- <https://cryptii.com/pipes/tap-code>
- <http://ctf.ssleye.com/tapcode.html>

AAencode

- <http://www.atoolbox.net/Tool.php?Id=703>(编码&解码)
- <http://ctf.ssleye.com/aaencode.html>(编码&解码)
- <https://qqe2.com/ed/aaencode>(编码)
- <https://www.qtool.net/decode>(解码)

JJencode

- <http://www.atoolbox.net/Tool.php?Id=704>
- <http://hechaocheng.cn/tools/jjencode.html>
- <https://www.tooleyes.com/app/jjencode.html>

注意：JJencode是不可逆的

XXencode

- <http://web.chacuo.net/charsetxxencode>
- <http://www.atoolbox.net/Tool.php?Id=780>
- <http://ctf.ssleye.com/xxencode.html>

UUencode

- <http://web.chacuo.net/charsetuuencode>
- <http://www.atoolbox.net/Tool.php?Id=731>
- <https://www.qqxiuzi.cn/bianma/uuencode.php>
- <http://ctf.ssleye.com/uu.html>

PPencode

- <http://www.atoolbox.net/Tool.php?Id=719>
- <http://ctf.ssleye.com/ppencode.html>

Brainfuck

- <http://ctf.ssleye.com/brain.html>
- <https://www.dcode.fr/langage-brainfuck>
- <https://www.splitbrain.org/services/ook>
- <https://tool.bugku.com/brainfuck/>
- <http://bf.doleczek.pl/>(只能解码)

Ook!

- <https://www.dcode.fr/langage-ook>
- <https://www.splitbrain.org/services/ook>
- <https://tool.bugku.com/brainfuck/>

Ook! 和 **Short Ook!** 看上去并不太相同, **Short Ook!** 是以 **!**、**.**、**?** 组成

Jsfuck

- <http://www.jsfuck.com/>
- <https://qqe2.com/ed/jsfuck>
- <https://www.sojson.com/jsfuck.html>

Emoji编码

- <http://www.atoolbox.net/Tool.php?Id=937>
- <https://github.com/pavelvodrazka/ctf-writeups/tree/master/hackyeaster2018/challenges/egg17/files/cracker>(上面解不出来可以尝试这个)
- <https://aghorler.github.io/emoji-aes/>(Emoji-AES)

BubbleBabble

- <http://ctf.ssleye.com/bubble.html>

社会主义核心价值观编码

- <http://www.atoolbox.net/Tool.php?Id=850>
- <http://ctf.ssleye.com/cvencode.html>
- <https://atool.vip/corevalue/>
- <https://sym233.github.io/core-values-encoder/>

与佛论禅编码

- <http://www.keyfc.net/bbs/tools/tudoucode.aspx>
- <http://hi.pcmoe.net/buddha.html>(新约佛论禅)

Quoted-printable编码

- <http://web.chacuo.net/charsetquotedprintable>
- <http://ctf.ssleye.com/quoted.html>
- <https://mothereff.in/quoted-printable>

Escape编码

- <https://www.w3xue.com/tools/escape/>
- <http://ctf.ssleye.com/escape.html>
- <https://tool.chinaz.com/tools/escape.aspx>

Handycode

- <http://kryptografie.de/kryptografie/chiffre/handy.htm>
- <http://ctf.ssleye.com/handycode.html>
- <https://gc.de/gc/handy/>

Punycode

- <http://ctf.ssleye.com/punycode.html>
- <https://www.punycoder.com/>

盲文编码

- <https://www.qqxiuzi.cn/bianma/wenbenjami.php?s=mangwen>
- <http://www.atoolbox.net/Tool.php?Id=837>
- <http://www.atoolbox.net/Tool.php?Id=839>
- <https://www.dcode.fr/braille-alphabet>

音符编码

- <https://www.qqxiuzi.cn/bianma/wenbenjami.php?s=yinyue>

MD5

- <https://cmd5.com/>
- <https://www.somd5.com/>
- <https://pmd5.com/>

AES

- <http://tool.chacuo.net/cryptaes>
- https://www.sojson.com/encrypt_aes.html
- <http://ctf.ssleye.com/caes.html>
- <https://tool.lmeee.com/jiami/aes>
- <https://oktools.net/aes>

DES

- <http://tool.chacuo.net/cryptdes>
- https://www.sojson.com/encrypt_des.html
- <https://oktools.net/des>
- <http://ctf.ssleye.com/cdes.html>
- <https://tool.lmeee.com/jiami/des>

3DES

- <http://tool.chacuo.net/crypt3des>
- https://www.sojson.com/encrypt_triple_des.html

RSA

- <http://tool.chacuo.net/cryptsapubkey>(公钥)
- <http://tool.chacuo.net/cryptsaprikey>(私钥)
- <https://www.devglan.com/online-tools/rsa-encryption-decryption>

栅栏密码

- <https://www.qqxiuzi.cn/bianma/zhalanmima.php>
- <http://www.atoolbox.net/Tool.php?ld=777>
- <http://ctf.ssleye.com/railfence.html>

Rot13密码

- [https://rot13.com/\(Rot1-25\)](https://rot13.com/(Rot1-25))
- <https://www.qqxiuzi.cn/bianma/ROT5-13-18-47.php>(ROT5/13/18/47)
- <http://ctf.ssleye.com/rot13.html>
- <http://www.mxcz.net/tools/rot13.aspx>

凯撒密码

- <https://www.qqxiuzi.cn/bianma/kaisamima.php>
- <http://ctf.ssleye.com/caesar.html>
- <http://www.atoolbox.net/Tool.php?ld=778>

```

def change(c,i):
    num=ord(c)
    if(num>=33 and num<=126):
        num=33+(num+i-33)%(94)#126-33=93
    return chr(num)

def kaisa_jiAmi(string,i):
    string_new=''
    for s in string:
        string_new+=change(s,i)
    print(string_new)
    return string_new

#本题有种暴力解密感觉
def kaisa_jiEmi(string):
    for i in range(0,94):
        print('第'+str(i+1)+'种可能:',end=' ')
        #区别在于 string 是该对象原本就是字符串类型, 而 str()则是将该对象转换成字符串类型。
        kaisa_jiAmi(string,i)

#你要知道input输入的数据类型都是string
def main():
    print('请输入操作, 注意不是平常26种:')
    choice=input('1:恺撒加密,2:凯撒穷举解密.请输入1或2: ')
    if choice=='1':
        string=input('请输入需要加密字符串: ')
        num=int(input('请输入需要加密的KEY: '))
        kaisa_jiAmi(string,num)
    elif choice=='2':
        string=input('请输入需要解密字符串: ')
        kaisa_jiEmi(string)
    else:
        print('输入错误, 请重试')
        main()

if __name__=='__main__':
    main()

```

维吉尼亚密码

- <https://www.qqxiuzi.cn/bianma/weijiniyamima.php>
- <http://ctf.ssleye.com/vigenere.html>
- <http://www.atoolbox.net/Tool.php?ld=856>
- <https://www.dcode.fr/vigenere-cipher>

猪圈密码

- <http://ctf.ssleye.com/pigpen.html>
- <https://67tool.com/details/zqmmjm>
- <http://www.metools.info/code/c90.html>(解密)
- <http://www.metools.info/code/c89.html>(加密)

培根密码

- <https://tool.bugku.com/peigen/>
- <http://ctf.ssleye.com/baconian.html>

关键字密码

- <http://rumkin.com/tools/cipher/caesar-keyed.php>(大小写精确)
- <http://ctf.ssleye.com/keyword.html>(大小写不精确)
- <https://www.secretcodebreaker.com/keyword.html>(大小写不精确)

希尔密码

- <http://www.atoolbox.net/Tool.php?Id=914>
- https://www.tooleyes.com/app/hill_cipher.html

A1z26密码

- <http://www.atoolbox.net/Tool.php?Id=916>
- <http://ctf.ssleye.com/a1z26.html>

仿射密码

- <http://www.atoolbox.net/Tool.php?Id=911>
- <http://ctf.ssleye.com/affine.html>
- <https://www.dcode.fr/affine-cipher>
- https://www.tooleyes.com/app/affine_encode.html

自动密钥密码

- <https://www.dcode.fr/autoclave-cipher>
- <http://www.atoolbox.net/Tool.php?Id=920>
- <http://ctf.ssleye.com/autokey.html>

Snow隐写

- <http://fog.misty.com/perry/ccs/snow/snow/snow.html>

零宽度字符隐写

- <https://yuanfux.github.io/zero-width-web/>(范围更广)
- https://330k.github.io/misc_tools/unicode_steganography.html
- <https://offdev.net/demos/zwsp-steg-js>

OCR图片文字识别

- https://www.onlineocr.net/zh_hant/
- <http://ocrmaker.com/>
- <https://github.com/miaomiaosoft/PandaOCR/>

二维码修补

- <https://merricx.github.io/qrazybox/>

Pyc反编译

- <https://tool.lu/pyc/>
- <https://www.toolnb.com/tools/pyc.html>
- <http://tools.bugscanner.com/decompile/>

歌曲识别

- <https://www.acrcloud.com/identify-songs-music-recognition-online/>

逆序&大小写转换

- <https://www.qqxiuzi.cn/zh/daoxu/>(逆序)
- <http://www.atoolbox.net/Tool.php?Id=831>(逆序)
- <https://www.iamwawa.cn/daxiaoxie.html>(大小写转换)
- <https://bigtosmall.bmcx.com/>(大小写转换)

pcap&pcapng流量包修复

- <https://f00l.de/hacking/pcapfix.php>