

# ASCII Char to 4 bit integer

This is a very simple routine that converts an ASCII char contained in 'a' to a 4 bit number returned in 'a'. It can deal with upper/lowercase hex letters 'a'..'f' as well as 'A'..'F' and returns the error code 255 for nonvalid input like 'g'..'z', 'G'...'Z' or other non hex digits like interpunction, spaces, math symbols etc...

```
sec
sbc #'0'
bcc error

cmp #10
bcc return

nondigit
and #3f
cmp #('f'-'0'+1)
bcs error
cmp #('a'-'0')
bcc error

sbc #('a'-'0'-10)
rts
error
lda #255
return
rts
```

From:  
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