15:04 Text2COM
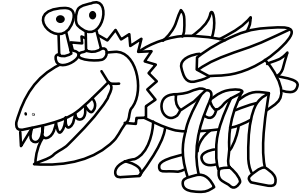Silver Jubilee Edition, specially re-mastered for PoC‖GTFO
by Saumil Shah (@therealsaumil),
with special help from Mr. Udayan Shah

```
START:
    MOV      SI,FILE      ; Start of Text File
    PUSH     CS
    POP      DS           ; Set Data Segment = Code Segment

CLEAR:
    MOV      AH,06        ; Scroll Up Window
    XOR      AL,AL        ; 0 = Clear Screen
    MOV      BH,07        ; White over Black
    XOR      CX,CX        ; Start at 0,0
    MOV      DH,18        ; row 22
    MOV      DL,4F        ; column 79
    INT      10           ; Video Services

    MOV      AH,02        ; Set Cursor Position
    XOR      DX,DX        ; 0,0
    XOR      BH,BH        ; Page number 0
    INT      10           ; Video Services

WRITECHAR:
    LODSB                 ; AL = [DS:SI]
    MOV      DL,AL        ; DL = character to write
    NOT      AL           ; 1's Complement
    XOR      AL,E5        ; E5 = 1's C (EOF)
    JZ       END          ; If EOF character, jump to END
    MOV      AH,02        ; Write Character
    INT      21           ; DOS Services

    MOV      AH,03        ; Get Cursor Position
    XOR      BH,BH        ; Page 0
    INT      10           ; Video Services. DH,DL = Row,Col

    CMP      DH,16        ; Is row 22?
    JLE      WRITECHAR    ; Jump if < 22 to WRITECHAR

    MOV      AH,09        ; Write $-Terminated String
    MOV      DX,PAGER     ; Address of Pager String
    INT      21           ; DOS Services

    MOV      AH,08        ; Read Single Character
    INT      21           ; DOS Services
    JMP      CLEAR        ; Jump to CLEAR

END:
    INT      20

PAGER:
    DB       '[Text2COM by Saumil Shah (c)1992] '
    DB       'Press Any Key... $'

FILE:
    ; Text content goes here.
```
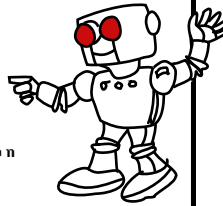
Text2COM generates self-displaying README.COM files by prefixing a short sequence of DOS Assembly instructions before a text file. The resultant file is an MS-DOS .COM program which can be executed directly from the command prompt.

The Text2COM code displays the contents of the appended file page by page.

Text2COM's executable code is created by MS-DOS's DEBUG program.

Then take any text file and concatenate it with README.BIN and store the resultant file as README.COM:

C:\>copy README.BIN+TEXT2COM.TXT README.COM

You now have a self-displaying README.COM file!

```
C:\>debug
-n README.BIN
-e 100 BE 78 01 0E 1F B4 06 30 C0 B7 07 31 C9 B6 18 B2
-e 110 4F CD 10 B4 02 31 D2 30 FF CD 10 AC 88 C2 F6 D0
-e 120 34 E5 74 1C B4 02 CD 21 B4 03 30 FF CD 10 80 FE
-e 130 16 7E E8 B4 09 BA 42 01 CD 21 B4 08 CD 21 EB C5
-e 140 CD 20 5B 54 65 78 74 32 43 4F 4D 20 62 79 20 53
-e 150 61 75 6D 69 6C 20 53 68 61 68 20 28 63 29 20 31
-e 160 39 39 32 5D 20 50 72 65 73 73 20 41 6E 79 20 4B
-e 170 65 79 2E 2E 2E 20 24 0A
-rcx
CX 0000
:78
-w
Writing 00078 bytes
-q
```