# ANSI.SYS CODES DOCUMENTATION AND MORE

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## COLOR TABLES

| PCB /TD | 0 / 8 | 4 / 12 | 2 / 10 | 6 / 14 | 1 / 9 | 5 / 13 | 3 / 11 | 7 / 15 |
|---|---|---|---|---|---|---|---|---|
| Intensity | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| Normal | Black | Red | Green | Yellow | Blue | Magenta | Cyan | White |
| **Bright** | Black | Red | Green | Yellow | Blue | Magenta | Cyan | White |

-Or -

## FOREGROUND COLORS

| Intensity = 0 | | | | | | | | Intensity = 1 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 4 | 2 | 6 | 1 | 5 | 3 | 7 | 8 | 12 / C | 10 / A | 14 /E | 9 | 13 / D | 11 / B | 15 / F | <- PCB / TD |
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 / A | 11 / B | 12 / C | 13 / D | 14 / E | 15 / F | |
| 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | |
| Black | Red | Green | Yellow | Blue | Magenta | Cyan | White | Black | Red | Green | Yellow | Blue | Magenta | Cyan | White | |
| 000000 | AA0000 | 00AA00 | AA5500 | 0000AA | AA00AA | 00AAAA | AAAAAA | 555555 | FF5555 | 55FF55 | FFFF55 | 5555FF | FF55FF | 55FFFF | FFFFFF | |

## BACKGROUND COLORS

| No intensity setting | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 0 | 4 | 2 | 6 | 1 | 5 | 6 | 7 | <- PCB / TD |
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | |
| 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | |
| Black | Red | Green | Yellow | Blue | Magenta | Cyan | White | |
| 000000 | AA0000 | 00AA00 | AA5500 | 0000AA | AA00AA | 00AAAA | AAAAAA | |

PCB / TD = PCBoard / TheDraw Color Numbering

## SET DISPLAY ATTRIBUTES

### Set Attribute **{ESC}[**<*attr*>**m**

Turns on a characteristic or attribute of the display, such as high intensity, blink, or foreground and background color.

<*attr*> specifies the display attribute to be turned on. More than one attribute can be specified by using a semicolon to separate the attribute numbers. <*attr*> can be any of the following:

| Text Attribute | Value |
|---|---|
| None | 0 |
| High Intensity (bold) | 1 |
| Underline (monochrome display only) | 4 |
| Blink | 5 |
| Reverse | 7 |
| Invisible | 8 |

| Color | Foreground | Background |
|---|---|---|
| Black | 30 | 40 |
| Red | 31 | 41 |
| Green | 32 | 42 |
| Yellow | 33 | 43 |
| Blue | 34 | 44 |
| Magenta | 35 | 45 |
| Cyan | 36 | 46 |
| White | 37 | 47 |

If you omit <*attr*>, all attributes are turned off (equivalent to specifying <*attr*> as 0).

*examples*

| | |
|---|---|
| *{ESC}[1m* | *High intensity.* |
| *{ESC}[1;5m* | *High intensity and blink.* |
| *{ESC}[30;46m* | *Black foreground, cyan background.* |
| *{ESC}[m* | *Turn off all attributes.* |
| *{ESC}[0m* | *Turn off all attributes.* |
| *{ESC}[0;1;36m* | *Turn off all attributes, then turn on high-intensity cyan foreground.* |

## CURSOR ACTIONS

| | | |
|---|---|---|
| ESC[#;#H **or** ESC[#;#f | Moves cursor to line #, column # | |
| ESC[#A | Moves cursor up # lines | |
| ESC[#B | Moves cursor down # lines | |
| ESC[#C | Moves cursor forward # spaces | |
| ESC[#D | Moves cursor back # spaces | |
| ESC[6n | Reports current cursor position in the format ESC[#;#R | |
| ESC[#;#R | Reported current cursor line & column | |
| ESC[s | Saves cursor position for recall later | |
| ESC[u | Return to saved cursor position | |
| Extended ANSI Standard Options | | |
| ESC[#Y | # vertical tabs | Default: 1 |
| ESC[#W | # tab control | Default: 0 |
| ESC[#Z | # backward tabs | Default: 1 |
| ESC[#G | horizontal absolute position # | Default: 1 |
| ESC[#I | # horizontal tabs | Default: 1 |
| ESC[#E | next line | Default: 1 |
| ESC[#F | preceding line | Default: 1 |
| ESC[#` | horizontal absolute position # | Default: 1 |
| ESC[#:#f | horizontal/vertical position | Default: 1;1 |
| ESC[#U | next page | Default: 1 |
| ESC[#V | preceding page | Default: 1 |
| ESC[#L | insert # lines | Default: 1 |
| ESC[#d | vertical position absolute | Default: 1 |
| ESC[#b | repeat character | Default: 1 |

## Cursor Up

**{ESC}[**<*row*>**A**

Moves the cursor up the specified number of rows without changing the column.

<*row*> is a number from 1 through 24 that specifies how many rows the cursor is to be moved up.
If you omit <*row*>, DOS moves the cursor up one row.

*examples*

*{ESC}[13A Move the cursor up 13 rows*
*{ESC}[A Move the cursor up 1 row*

## Cursor Down

**{ESC}[**<*row*>**B**

Moves the cursor down the specified number of rows without changing the column.

<*row*> is a number from 1 through 24 that specifies how many rows the cursor is to be moved down.
If you omit <*row*>, DOS moves the cursor down one row.

*examples*

*{ESC}[8B Move the cursor down eight rows.*
*{ESC}[B Move the cursor down one row.*

## Cursor Right

**{ESC}[**<*col*>**C**

Moves the cursor right the specified number of columns without changing the row.

<*col*> is a number from 1 through 79 that specifies how many columns that cursor is to be moved right.
If you omit <*col*>, DOS moves the cursor right one column.

*examples*

*{ESC}[40C Move the cursor right 40 columns.*
*{ESC}[C Move the cursor right one column.*

## Cursor Left

**{ESC}[**<*col*>**D**

Moves the cursor left the specified number of columns without changing the row.

<*col*> is a number from 1 through 79 that specifies how many columns the cursor is to be moved left.
If you omit <*col*>, DOS moves the cursor left one column.

*examples*

*{ESC}10[D Move the cursor left ten columns.*
*{ESC}[D Move the cursor left one column.*

## Move Cursor

**{ESC}[**<*row*>**;**<*col*>**H or {ESC}**<*row*>**;**<*col*>**f**

Moves the cursor to the specified row and column.

<*row*> is a number from 1 through 25 that specifies the row to which the cursor is to be moved. If you omit <*row*>, DOS moves the cursor to row 1. To omit <*row*> but specify <*col*>, enter the semicolon to show the <*row*> is omitted.
<*col*> is a number from 1 through 80 that specifies the column to which the cursor is to be moved. If you omit <*col*>, DOS moves the cursor to column 1.
If you omit both <*row*> and <*col*>, DOS moves the cursor to the home position (row 1, column 1--the upper left corner of the screen).

*examples*

*{ESC}[;10HMove the cursor to column 10, row 1.*
*{ESC}[H Move the cursor to row 1, column 1.*

## Save Cursor Position

**{ESC}[s**

Stores the current row and column position of the cursor.

You can move the cursor to this location with a Restore Cursor Position command.

*examples*

*{ESC}[s Save the current cursor position.*

## Report Cursor Position

**{ESC}[6n**

Returns the current row and column position of the cursor in the form **{ESC}[**<*row*>**;**<*col*>**R**.

<*row*> is a number from 1 through 25 that specifies the row where the cursor is located.
<*col*> is a number from 1 through 80 that specifies the column where the cursor is located.

*examples*

*{ESC}[6n Report the current cursor position.*

## Restore Cursor Position

**{ESC}[u**

Moves the cursor to the row and column position most recently saved with a Save Cursor Position command.

*examples*

*{ESC}[u Move the cursor the row and column last saved with a Save Cursor Position command.*

## ERASE FUNCTIONS

| | |
|---|---|
| ESC[2J | Clear screen and home cursor |
| ESC[1J | Erase from beginning of screen to cursor |
| ESC[0J ESC[J | Erase from cursor to end of screen |
| ESC[2K | Erase line containing cursor |
| ESC[1K | Erase from beginning of line to cursor |
| ESC[0K ESC[K | Clear to end of line |

### Erase Display {ESC}[2J

Erases the entire display (equivalent to the DOS Clear Screen or *CLS* command).

*examples* *{ESC}[2J* *Erase the screen.*

### Erase to End of Line {ESC}[K

Erases from the current cursor position through the end of the line that contains the cursor.

*examples* *{ESC}[K* *Erase from the cursor to the end of the line.*

## SET DISPLAY MODE

### Set Display Mode — {ESC}[=<*mode*>h

Sets the width and color capability of the display (generally equivalent to the DOS MODE command). This command can also be used to cause lines longer than 80 characters to be broken at the 80th character and continued on the next line, rather than truncated at the 80th column; this is called line wrap. It can be turned off with the Turn Off Line Wrap command. Note the equal sign (=) that precedes <*mode*>.

**ESC[=<*mode*>h (= is ? or char(63)**

| Display <Mode> | Value |
|---|---|
| 40 columns by 25 rows, black and white | 0 |
| 40 columns by 25 rows, color on | 1 |
| 80 columns by 25 rows, black and white | 2 |
| 80 columns by 25 rows, color on | 3 |
| 320 by 200 graphics, color on | 4 |
| 320 by 200 graphics, black and white | 5 |
| 640 by 200 graphics, black and white | 6 |
| Turn on line wrap | 7 |

*examples* *{ESC}[=1h* *Set the display to 40 by 25 color on.*

*{ESC}[=7h* *Continued lines longer than 80 characters, don't truncate them.*

### Turn Off Line Wrap — {ESC}[=7l

Causes lines longer than 80 characters to be truncated at the 80th character, rather than continued to the next line.

*examples* *{ESC}[=7l* *Truncate lines longer than 80 characters.*

## KEYBOARD COMMANDS

### Define Key

**{ESC}[**<*key code*>**;**<*result*>**p**

Assigns one or more characters to be produced when you press a key.

<*key code*> specifies the key to be defined. If the key is one of the **standard ASCII characters**, <*key code*> is a number from 1 through 127. If the key is a function key, keypad key, or a combination of the <Shift>, <Ctrl>, or <Alt> key and another key, <*key code*> is two numbers separated by a semicolon and can be found in the **ANSI.SYS key code** table.
<*result*> is the character or characters to be produced when a key is pressed. It can be specified as an **ASCII code**, an **ANSI.SYS key code**, a string enclosed in quotation marks, or any combination of codes and strings separated by semicolons.
To restore a key to its original meaning, enter a Define Key command that sets <*result*> equal to <*key code*>.

| *examples* | | |
|---|---|---|
| | *{ESC}[126;92p* | *Redefine the tilde <~> key as a backslash <\>.* |
| | *{ESC}[126;126p* | *Restore the tilde <~> key to its original meaning.* |
| | *{ESC}[0;112;"dir\|sort";13p* | *Redefine <Alt><F9> as a Directory command piped to a Sort command, followed by a Carriage Return.* |
| | *{ESC}[0;112;0;112p* | *Restore <Alt><F9> to its original meaning.* |

## ANSI.SYS KEY AND EXTENDED KEY CODES

| Key | Code | Shift- | Ctrl- | Alt- | Key | Code | Shift- | Ctrl- | Alt- | Key | Code | Shift- | Ctrl- | Alt- |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| a [A] | 97 | 65 | 1 | 0;30 | 1 [!] | 49 | 33 | | 0;120 | F1 | 0;59 | 0;84 | 0;94 | 0;104 |
| b [B] | 98 | 66 | 2 | 0;48 | 2 [@] | 50 | 64 | | 0;121 | F2 | 0;60 | 0;85 | 0;95 | 0;105 |
| c [C] | 99 | 67 | 3 | 0:46 | 3 [#] | 51 | 35 | | 0;122 | F3 | 0;61 | 0;86 | 0;96 | 0;106 |
| d [D] | 100 | 68 | 4 | 0;32 | 4 [$] | 52 | 36 | | 0;123 | F4 | 0;62 | 0;87 | 0;97 | 0;107 |
| e [E] | 101 | 69 | 5 | 0;18 | 5 [%] | 53 | 37 | | 0;124 | F5 | 0;63 | 0;88 | 0;98 | 0;108 |
| f [F] | 102 | 70 | 6 | 0;33 | 6 [^] | 54 | 94 | | 0;125 | F6 | 0;64 | 0;89 | 0;99 | 0;109 |
| g [G] | 103 | 71 | 7 | 0;34 | 7 [&] | 55 | 38 | | 0;126 | F7 | 0;65 | 0;90 | 0;100 | 0;110 |
| h [H] | 104 | 72 | 8 | 0;35 | 8 [*] | 56 | 42 | | 0;127 | F8 | 0;66 | 0;91 | 0;101 | 0;111 |
| i [I] | 105 | 73 | 9 | 0;23 | 9 [(] | 57 | 40 | | 0;128 | F9 | 0;67 | 0;92 | 0;102 | 0;112 |
| j [J] | 106 | 74 | 10 | 0;36 | 0 [)] | 48 | 41 | | 0;129 | F10 | 0;68 | 0;93 | 0;103 | 0;113 |
| k [K] | 107 | 75 | 11 | 0;37 | - [_] | 45 | 95 | | 0;130 | F11 | 0;133 | 0;135 | 0;137 | 0;139 |
| l [L] | 108 | 76 | 12 | 0;38 | = [+] | 61 | 43 | | 0;131 | F12 | 0;134 | 0;136 | 0;138 | 0;140 |
| m [M] | 109 | 77 | 13 | 0;50 | Home [7] | 0;71 | 55 | 0;119 | | Esc | 27 | | | 0;1 |
| n [N] | 110 | 78 | 14 | 0;49 | Up Arrow [8] | 0;72 | 56 | 0;141 | | PrtScrn | | | 0;114 | |
| o [O] | 111 | 79 | 15 | 0;24 | PgUp [9] | 0;73 | 57 | 0;132 | | Home | 0;71 | 55 | 0;119 | 0;151 |
| p [P] | 112 | 80 | 16 | 0;25 | Left Arrow [4] | 0;75 | 52 | 0;115 | | Up Arrow | 0;72 | 56 | | 0;152 |
| q [Q] | 113 | 81 | 17 | 0;16 | Right Arrow [6] | 0;77 | 54 | 0;116 | | PageUp | 0;73 | 57 | 0;132 | 0;153 |
| r [R] | 114 | 82 | 18 | 0;19 | End [1] | 0;79 | 49 | 0;117 | | Left Arrow | 0;75 | 52 | 0;115 | 0;155 |
| s [S] | 115 | 83 | 19 | 0;31 | Down Arrow [2] | 0;80 | 50 | 0;145 | | Right Arrow | 0;77 | 54 | 0;116 | 0;157 |
| t [T] | 116 | 84 | 20 | 0;20 | PgDn [3] | 0;81 | 51 | 0;118 | | End | 0;79 | 49 | 0;117 | 0;159 |
| u [U] | 117 | 85 | 21 | 0;22 | Ins [0] | 0;82 | 48 | 0;146 | | Down Arrow | 0;80 | 50 | | 0;160 |
| v [V] | 118 | 86 | 22 | 0;47 | Del [.] | 0;83 | 46 | 0;147 | | PageDown | 0;81 | 51 | 0;118 | 0;161 |
| w [W] | 119 | 87 | 23 | 0;17 | [5] | 53 | 53 | 0;143 | | Insert | 0;82 | 48 | | 0;162 |
| x [X] | 120 | 88 | 24 | 0;45 | * *(keypad)* | 42 | | 0;150 | 0;55 | Delete | 0;83 | 46 | | 0;163 |
| y [Y] | 121 | 89 | 25 | 0;21 | + *(keypad)* | 43 | | 0;144 | 0;78 | | | | | |
| z [Z] | 122 | 90 | 26 | 0;44 | - *(keypad)* | 45 | | 0;142 | 0;74 | | | | | |
| Backspace | 127 | | | 0;14 | / *(keypad)* | 47 | | 0;149 | 0;164 | | | | | |
| Enter | 13 | | | 0;28 | | | | | | | | | | |
| Tab | 9 | 0;15 | 0;148 | 0;165 | | | | | | | | | | |
| Enter *(keypad)* | 13 | | 0;166 | 0;166 | | | | | | | | | | |
| Null | 0;3 | | | | | | | | | | | | | |

***Notes:*** ***Standard Codes*** are single-byte numbers. ***Extended Codes*** are two-byte numbers. Extended codes always begin with zero.

## IMPORTANT ASCII CHARACTERS

| CHR | DEC | HEX | CHR | DEC | HEX |
|---|---|---|---|---|---|
| ESC | 27 | 1B | **f** | 102 | 66 |
| [ | 91 | 5B | **h** | 104 | 68 |
| ; | 59 | 3B | **l** | 108 | 6C |
| 0 | 48 | 30 | **m** | 109 | 6D |
| 1 | 49 | 31 | **n** | 110 | 6E |
| 2 | 50 | 32 | **s** | 115 | 73 |
| 3 | 51 | 33 | **u** | 117 | 75 |
| 4 | 52 | 34 | A | 65 | 41 |
| 5 | 53 | 35 | B | 66 | 42 |
| 6 | 54 | 36 | C | 67 | 43 |
| 7 | 55 | 37 | D | 68 | 44 |
| 8 | 56 | 38 | J | 74 | 4A |
| 9 | 57 | 39 | K | 75 | 4B |
| CR | 13 | 0D | TAB | 9 | 09 |
| LF | 10 | 0A | SPACE | 32 | 20 |

# "Block" ASCII display in Windows

There are 3 general options available to view Block ASCII's properly in Windows.

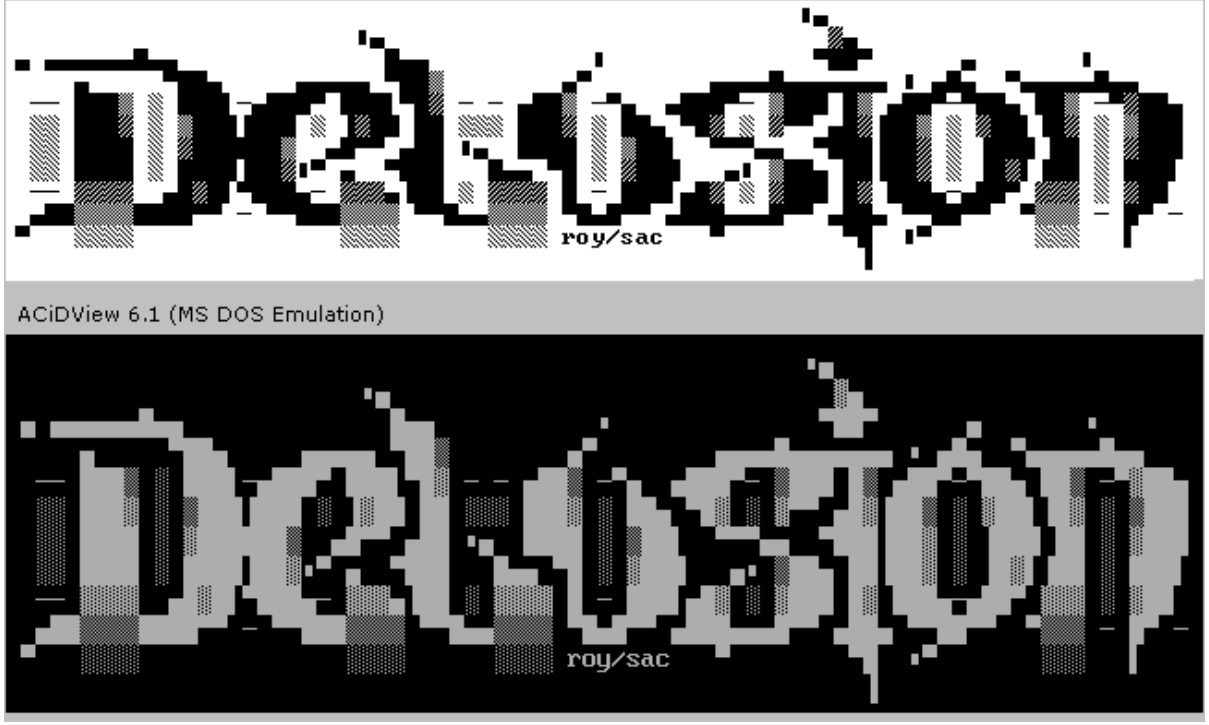
### *Option 1*

you have to open a DOS Window and use the classic "type" command or a classic MS DOS Text Viewer/Editor to display the ASCII properly.

### *Option 2*

you can also use Windows Notepad as alternative. You must set the Font used by Notepad to "Terminal". The result is not the same as in a MS DOS Window. It is more looking like an inverted version of it. You can design ASCII's that look great in a DOS Window and ugly in Notepad and vice versa or one that looks good in both. You can see what I mean in the following example (screenshot image).

Notepad with Font set to "Terminal"




### *Option 3*

Use a Windows Tool that emulates Block ASCII. The best Tool I know of is ACiD View for Windows.

p.s. for the best viewer and editor for ANSI and ASCII text art for Windows PC's, Macintosh , Linux or MS DOS, download the free tool PABLODRAW written by Curtis Wensley aka "Eto" at http://picoe.ca/products/pablodraw/

# ANSI.SYS

Defines functions that change display graphics, control cursor movement, and reassign keys

The ANSI.SYS device driver supports ANSI terminal emulation of escape sequences to control your system's screen and keyboard. An ANSI escape sequence is a sequence of ASCII characters, the first two of which are the escape character (1Bh) and the left-bracket character (5Bh). The character or characters following the escape and left-bracket characters specify an alphanumeric code that controls a keyboard or display function. ANSI escape sequences distinguish between uppercase and lowercase letters; for example, "A" and "a" have completely different meanings.

This device driver must be loaded by a DEVICE or DEVICEHIGH command in your CONFIG.SYS file.

**Note:**
In this topic uppercase letters in syntax and ANSI escape sequences indicate text you must type exactly as it appears.

## *Syntax*

```
DEVICE=[drive:][path]ANSI.SYS [/X] [/K] [/R]
```

## *Parameter*

[drive:][path]
Specifies the location of the ANSI.SYS file

## *Switches*

/X
Remaps extended keys independently on 101-key keyboards.

/K
Causes ANSI.SYS to treat a 101-key keyboard like an 84-key keyboard; this is equivalent to the command SWITCHES=/K. If you usually use the SWITCHES=/K command, you will need to use the /K switch with ANSI.SYS.

/R
Adjusts line scrolling to improve readability when ANSI.SYS is used with screen-reading programs (… Making computers to people with disabilities more accessible)

## ENTERING THE {ESC} CHARACTER

- *In DOS:* Press and hold the <Alt> key, then type 27 on the keypad.
- *In Windows:* Press and hold the <Alt> key, then type 0027 on the keypad.
- *Exceptions:* Sometimes the above keystrokes do not work. Try one of the following methods:
  - In MS-DOS EDITOR and QBASIC, type any one of these:
    - <Ctrl>P, <Alt>027
    - <Ctrl>P, <Ctrl>[
    - <Ctrl>P, <Esc>
  - In Microsoft WORD, use a macro:
    - Sub AsciiEscChar()
      ' Insert ASCII Esc character.
      Selection.TypeText Chr(027)
      End Sub
    - Save the file as "Text Only" or "MS-DOS Text".
  - In Microsoft NOTEPAD and WORDPAD:
    - Copy the {ESC} character from another text file and paste it into the document.

## ENABLING ANSI.SYS

Before using escape seqences, ANSI.SYS must be named as a device driver in the CONFIG system file.

*For Windows 95, Windows 98 and DOS:*

- Create or edit the CONFIG.SYS file. (Found in the root directory.)
- Add the following line to the file:
  DEVICE=<*path*>\ANSI.SYS

  where <*path*> is the full path of the ANSI.SYS file. (Usually found in the WINDOWS directory.)

- Save CONFIG.SYS with the new line.
- Check that a copy of ANSI.SYS exists in the specified path location.
- Restart the computer to complete the change.

*For Windows NT, Windows 2000 and Windows XP:*

- Create or edit the CONFIG.NT file. (Usually found in the WINNT\SYSTEM32 directory.)
- Add the following line to the file:

  DEVICE=%systemroot%\system32\ANSI.SYS

- Save CONFIG.NT with the new line.
- Check that a copy of ANSI.SYS exists in the specified path location.
- Restart the computer to complete the change.

*Restrictions:*

- Windows NT does not support ANSI.SYS escape sequences in Win32 Console applications.
- The Windows 2000/NT Command Interpreter, CMD.EXE, does not support ANSI.SYS. Use COMMAND.COM instead.

## USING ANSI.SYS ESCAPE SEQUENCES

Because ANSI.SYS commands control the console device, they must be typed at the keyboard or sent to the display.

- Put the ANSI.SYS commands in a file and display the file with the TYPE or COPY command.
- Use the PROMPT command with the **command prompt code**, $e.

  *Example:*
  prompt $e[1;37;44m (Set the text color to bright white and the screen color to blue.)

- Use the ECHO command in a **batch file**.

  *Example:*
  echo {ESC}[8;26H (Move the cursor to row 8, column 26.)

  *To execute a batch file containing ANSI commands in Windows 2000/NT, use one of the following methods:*

  - Open a DOS command prompt window and type the <*batch path*>.
  - Type %SystemRoot%\system32\COMMAND.COM /c <*batch path*> at the Run command line.
  - Create a program information file (PIF) by making a shortcut of COMMAND.COM, then set the *Cmd Line* property to the <*batch path*> and the *Advanced Program* properties to %SystemRoot%\system32\AUTOEXEC.NT and %SystemRoot%\system32\CONFIG.NT.
- Use the WRITE, PRINT or a similiar command in FORTRAN, C, BASIC, etc.

  *Example:*
  WRITE(*,*)'{ESC}[2J' (Clear the screen.)

## DOS Command Prompt Codes

**$$** Display the dollar sign, $

**$_** Move to a new line

**$B** Display the pipe symbol, |

**$D** Display the current system date

**$E** ASCII escape character, {ESC} (ASCII code 27)

**$G** Display the greater-than symbol, >

**$H** Cause the cursor to backspace, erasing the previous character

**$L** Display the less-than symbol, <

**$N** Display the current logged drive letter

**$P** Display the current logged directory path name

**$Q** Display the equals symbol, =

**$T** Display the current system time

**$V** Display the MS-DOS version number message

**$X***c* Imbeds the following character "*c*", verbatim, in the prompt string ("*c*" is a character, space, comma, or semicolon.)

### *Additional Windows 2000/NT Command Prompt Codes*

**$A** Display the ampersand symbol, &

**$C** Display the left parenthesis symbol, (

**$F** Display the right parenthesis symbol, )

**$S** Display a blank space

**$V** Display the Windows version number message

# PCBoard @-Sequences

Used by the Bulletin Board System (BBS) Software PCBoard by Clark Development Company for IBM PC/Compatible
General Color Coding Format: *@Xbf* where **"@X"** are literal and "b" standing for the background color code (0-7) and "f" for the foreground color code (0-F). See color code tables below.

## Background Colors

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| Black | Dark Blue | Dark Green | Dark Cyan | Dark Red | Purple | Brown | Gray |
| 000000 | 0000AA | 00AA00 | 00AAAA | AA0000 | AA00AA | AA5500 | AAAAAA |

## Foreground Colors

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A (10) | B (11) | C (12) | D (13) | E (14) | F (15) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Black | Dark Blue | Dark Green | Dark Cyan | Dark Red | Purple | Brown | Gray | Dark Gray | Blue | Green | Cyan | Red | Magenta | Yellow | White |
| 000000 | 0000AA | 00AA00 | 00AAAA | AA0000 | AA00AA | AA5500 | AAAAAA | 555555 | 5555FF | 55FF55 | 55FFFF | FF5555 | FF55FF | FFFF55 | FFFFFF |

*Examples:*

| | |
|---|---|
| @X1F | White Text on Blue Background |
| @X0E | Yellow Text on Black Background |
| @X70 | Black Text on Gray Background |

Commands and System Variables are enclosed by the AT sign "**@**". For example: the "clear screen" command is **@CLS@**. Other notable commands are: **@POFF@** = Turn of "Paging" (pause after 23 lines) and **@PON@** to turn "paging" back on.

## ASCII Code Table Code Page s 437 (US), 2152 (Windows) and 850 (Western Europe)

| | | | | | | Codepages 437 - Default (North America) | | | | | | Windows CP1252 | | | | | | Codepages 850 - Western Europe | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ASCII | | | | | | | | Unicode | | | | | Unicode | | | | | | Unicode | | | | |
| NUM | HEX | BIN | HTML | xHTML | OCT | CHAR | | NUM | HEX | HEX2 | HTML | CHAR | NUM | HEX | HEX2 | HTML | ChAR | NUM | HEX | HEX2 | HTML |
| 0 | 00 | 00000000 | | | 001 | | NULL | 0 | 0000 | 0x0000 | | | | | | | | | | | | | |
| 1 | 01 | 00000001 | | | 002 | ☺ | SOH | 1 | 0004 | 0x0004 | | | | | | | | | | | | | |
| 2 | 02 | 00000010 | | | 003 | ☻ | STX | 2 | 0008 | 0x0008 | | | | | | | | | | | | | |
| 3 | 03 | 00000011 | | | 004 | ♥ | ETX | 3 | 000C | 0x000C | | | | | | | | | | | | | |
| 4 | 04 | 00000100 | | | 005 | ♦ | EOT | 4 | 0010 | 0x0010 | | | | | | | | | | | | | |
| 5 | 05 | 00000101 | | | 006 | ♣ | ENQ | 5 | 0014 | 0x0014 | | | | | | | | | | | | | |
| 6 | 06 | 00000110 | | | 007 | ♠ | ACK | 6 | 0018 | 0x0018 | | | | | | | | | | | | | |
| 7 | 07 | 00000111 | | | 010 | | BEL | 7 | 001C | 0x001C | | | | | | | | | | | | | |
| 8 | 08 | 00001000 | | | 011 | | BS | 8 | 0020 | 0x0020 | | | | | | | | | | | | | |
| 9 | 09 | 00001001 | | | 012 | | TAB/HT | 9 | 0024 | 0x0024 | | | | | | | | | | | | | |
| 10 | 0A | 00001010 | | | 013 | | LF | 10 | 0028 | 0x0028 | | | | | | | | | | | | | |
| 11 | 0B | 00001011 | | | 014 | ♂ | VT | 11 | 002C | 0x002C | | | | | | | | | | | | | |
| 12 | 0C | 00001100 | | | 015 | ♀ | FF | 12 | 0030 | 0x0030 | | | | | | | | | | | | | |
| 13 | 0D | 00001101 | | | 016 | | CR | 13 | 0034 | 0x0034 | | | | | | | | | | | | | |
| 14 | 0E | 00001110 | | | 017 | ♫ | SO | 14 | 0038 | 0x0038 | | | | | | | | | | | | | |
| 15 | 0F | 00001111 | | | 020 | ☼ | SI | 15 | 003C | 0x003C | | | | | | | | | | | | | |
| 16 | 10 | 00010000 | | | 021 | ► | DLE | 16 | 0040 | 0x0040 | | | | | | | | | | | | | |

| | | | | | | Codepages 437 - Default (North America) | | | | | | Windows CP1252 | | | | | Codepages 850 - Western Europe | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ASCII | | | | | | | | Unicode | | | | | Unicode | | | | | Unicode | | | |
| NUM | HEX | BIN | HTML | xHTML | OCT | CHAR | | NUM | HEX | HEX2 | HTML | CHAR | NUM | HEX | HEX2 | HTML | ChAR | NUM | HEX | HEX2 | HTML |
| 17 | 11 | 00010001 | | | 022 | ◄ | DC1 | 17 | 0044 | 0x0044 | | | | | | | | | | | |
| 18 | 12 | 00010010 | | | 023 | ▯ | DC2 | 18 | 0048 | 0x0048 | | | | | | | | | | | |
| 19 | 13 | 00010011 | | | 024 | ‼ | DC3 | 19 | 004C | 0x004C | | | | | | | | | | | |
| 20 | 14 | 00010100 | | | 025 | ¶ | DC4 | 20 | 0050 | 0x0050 | | | | | | | | | | | |
| 21 | 15 | 00010101 | | | 026 | § | NAK | 21 | 0054 | 0x0054 | | | | | | | | | | | |
| 22 | 16 | 00010110 | | | 027 | ■ | SYN | 22 | 0058 | 0x0058 | | | | | | | | | | | |
| 23 | 17 | 00010111 | | | 030 | | ETB | 23 | 005C | 0x005C | | | | | | | | | | | |
| 24 | 18 | 00011000 | | | 031 | ↑ | CAN | 24 | 0060 | 0x0060 | | | | | | | | | | | |
| 25 | 19 | 00011001 | | | 032 | ↓ | EM | 25 | 0064 | 0x0064 | | | | | | | | | | | |
| 26 | 1A | 00011010 | | | 033 | | SUB | 26 | 0068 | 0x0068 | | | | | | | | | | | |
| 27 | 1B | 00011011 | | | 034 | ▯ | ESC | 27 | 006C | 0x006C | | | | | | | | | | | |
| 28 | 1C | 00011100 | | | 035 | ∟ | FS | 28 | 0070 | 0x0070 | | | | | | | | | | | |
| 29 | 1D | 00011101 | | | 036 | ↔ | GS | 29 | 0074 | 0x0074 | | | | | | | | | | | |
| 30 | 1E | 00011110 | | | 037 | ▲ | RS | 30 | 0078 | 0x0078 | | | | | | | | | | | |
| 31 | 1F | 00011111 | | | 040 | ▼ | US | 31 | 007C | 0x007C | | | | | | | | | | | |
| 32 | 20 | 00100000 | &#32; | &#x20; | 041 | SPACE | SP | 32 | 00A0 | 0x00A0 | | | | | | | | | | | |
| 33 | 21 | 00100001 | &#33; | &#x21; | 042 | ! | | 33 | 00A5 | 0x00A5 | &excl; | | | | | | | | | | |
| 34 | 22 | 00100010 | &#34; | &#x22; | 043 | " | | 34 | 00B0 | 0x00B0 | &quot; | | | | | | | | | | |

| | | | | | | Codepages 437 - Default (North America) | | | | | | Windows CP1252 | | | | | Codepages 850 - Western Europe | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ASCII | | | | | | | | Unicode | | | | | Unicode | | | | | Unicode | | | |
| NUM | HEX | BIN | HTML | xHTML | OCT | CHAR | | NUM | HEX | HEX2 | HTML | CHAR | NUM | HEX | HEX2 | HTML | ChAR | NUM | HEX | HEX2 | HTML |
| 35 | 23 | 00100011 | # | # | 044 | # | | 35 | 00B7 | 0x00B7 | # | | | | | | | | | | |
| 36 | 24 | 00100100 | $ | $ | 045 | $ | | 36 | 00BD | 0x00BD | $ | | | | | | | | | | |
| 37 | 25 | 00100101 | % | % | 046 | % | | 37 | 00C6 | 0x00C6 | % | | | | | | | | | | |
| 38 | 26 | 00100110 | & | & | 047 | & | | 38 | 00D6 | 0x00D6 | & | | | | | | | | | | |
| 39 | 27 | 00100111 | ' | ' | 050 | ' | | 39 | 00E1 | 0x00E1 | ' | | | | | | | | | | |
| 40 | 28 | 00101000 | ( | ( | 051 | ( | | 40 | 00E6 | 0x00E6 | ( | | | | | | | | | | |
| 41 | 29 | 00101001 | ) | ) | 052 | ) | | 41 | 00EA | 0x00EA | ) | | | | | | | | | | |
| 42 | 2A | 00101010 | * | * | 053 | * | | 42 | 00EE | 0x00EE | * | | | | | | | | | | |
| 43 | 2B | 00101011 | + | + | 054 | + | | 43 | 00F3 | 0x00F3 | | | | | | | | | | | |
| 44 | 2C | 00101100 | , | , | 055 | , | | 44 | 00F9 | 0x00F9 | , | | | | | | | | | | |
| 45 | 2D | 00101101 | - | - | 056 | - | | 45 | 00FF | 0x00FF | – | | | | | | | | | | |
| 46 | 2E | 00101110 | . | . | 057 | . | | 46 | 03A3 | 0x03A3 | . | | | | | | | | | | |
| 47 | 2F | 00101111 | / | / | 060 | / | | 47 | 03B4 | 0x03B4 | / | | | | | | | | | | |
| 48 | 30 | 00110000 | 0 | 0 | 061 | 0 | | 48 | 03C4 | 0x03C4 | | | | | | | | | | | |
| 49 | 31 | 00110001 | 1 | 1 | 062 | 1 | | 49 | 2219 | 0x2219 | | | | | | | | | | | |
| 50 | 32 | 00110010 | 2 | 2 | 063 | 2 | | 50 | 2248 | 0x2248 | | | | | | | | | | | |
| 51 | 33 | 00110011 | 3 | 3 | 064 | 3 | | 51 | 2310 | 0x2310 | | | | | | | | | | | |
| 52 | 34 | 00110100 | 4 | 4 | 065 | 4 | | 52 | 2502 | 0x2502 | | | | | | | | | | | |
| 53 | 35 | 00110101 | 5 | 5 | 066 | 5 | | 53 | 2518 | 0x2518 | | | | | | | | | | | |

| | | | | | | Codepages 437 - Default (North America) | | | | | | Windows CP1252 | | | | | Codepages 850 - Western Europe | | | | |
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| ASCII | | | | | | | | Unicode | | | | | Unicode | | | | | Unicode | | | |
| NUM | HEX | BIN | HTML | xHTML | OCT | CHAR | | NUM | HEX | HEX2 | HTML | CHAR | NUM | HEX | HEX2 | HTML | ChAR | NUM | HEX | HEX2 | HTML |
| 54 | 36 | 00110110 | 6 | 6 | 067 | 6 | | 54 | 2534 | 0x2534 | | | | | | | | | | | |
| 55 | 37 | 00110111 | 7 | 7 | 070 | 7 | | 55 | 2552 | 0x2552 | | | | | | | | | | | |
| 56 | 38 | 00111000 | 8 | 8 | 071 | 8 | | 56 | 2556 | 0x2556 | | | | | | | | | | | |
| 57 | 39 | 00111001 | 9 | 9 | 072 | 9 | | 57 | 255A | 0x255A | | | | | | | | | | | |
| 58 | 3A | 00111010 | : | : | 073 | : | | 58 | 255E | 0x255E | : | | | | | | | | | | |
| 59 | 3B | 00111011 | ; | ; | 074 | ; | | 59 | 2562 | 0x2562 | ; | | | | | | | | | | |
| 60 | 3C | 00111100 | < | < | 075 | < | | 60 | 2566 | 0x2566 | < | | | | | | | | | | |
| 61 | 3D | 00111101 | = | = | 076 | = | | 61 | 256A | 0x256A | = | | | | | | | | | | |
| 62 | 3E | 00111110 | > | > | 077 | > | | 62 | 2584 | 0x2584 | > | | | | | | | | | | |
| 63 | 3F | 00111111 | ? | ? | 100 | ? | | 63 | 2591 | 0x2591 | ? | | | | | | | | | | |
| 64 | 40 | 01000000 | @ | @ | 101 | @ | | 64 | 0001 | 0x0001 | @ | | | | | | | | | | |
| 65 | 41 | 01000001 | A | A | 102 | A | | 65 | 0005 | 0x0005 | | | | | | | | | | | |
| 66 | 42 | 01000010 | B | B | 103 | B | | 66 | 0009 | 0x0009 | | | | | | | | | | | |
| 67 | 43 | 01000011 | C | C | 104 | C | | 67 | 000D | 0x000D | | | | | | | | | | | |
| 68 | 44 | 01000100 | D | D | 105 | D | | 68 | 0011 | 0x0011 | | | | | | | | | | | |
| 69 | 45 | 01000101 | E | E | 106 | E | | 69 | 0015 | 0x0015 | | | | | | | | | | | |
| 70 | 46 | 01000110 | F | F | 107 | F | | 70 | 0019 | 0x0019 | | | | | | | | | | | |
| 71 | 47 | 01000111 | G | G | 110 | G | | 71 | 001D | 0x001D | | | | | | | | | | | |
| 72 | 48 | 01001000 | H | H | 111 | H | | 72 | 0021 | 0x0021 | | | | | | | | | | | |

| | | | | | | Codepages 437 - Default (North America) | | | | | | Windows CP1252 | | | | | Codepages 850 - Western Europe | | | | |
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| ASCII | | | | | | | | Unicode | | | | | Unicode | | | | | Unicode | | | |
| NUM | HEX | BIN | HTML | xHTML | OCT | CHAR | | NUM | HEX | HEX2 | HTML | CHAR | NUM | HEX | HEX2 | HTML | ChAR | NUM | HEX | HEX2 | HTML |
| 73 | 49 | 01001001 | I | I | 112 | I | | 73 | 0025 | 0x0025 | | | | | | | | | | | |
| 74 | 4A | 01001010 | J | J | 113 | J | | 74 | 0029 | 0x0029 | | | | | | | | | | | |
| 75 | 4B | 01001011 | K | K | 114 | K | | 75 | 002D | 0x002D | | | | | | | | | | | |
| 76 | 4C | 01001100 | L | L | 115 | L | | 76 | 0031 | 0x0031 | | | | | | | | | | | |
| 77 | 4D | 01001101 | M | M | 116 | M | | 77 | 0035 | 0x0035 | | | | | | | | | | | |
| 78 | 4E | 01001110 | N | N | 117 | N | | 78 | 0039 | 0x0039 | | | | | | | | | | | |
| 79 | 4F | 01001111 | O | O | 120 | O | | 79 | 003D | 0x003D | | | | | | | | | | | |
| 80 | 50 | 01010000 | P | P | 121 | P | | 80 | 0041 | 0x0041 | | | | | | | | | | | |
| 81 | 51 | 01010001 | Q | Q | 122 | Q | | 81 | 0045 | 0x0045 | | | | | | | | | | | |
| 82 | 52 | 01010010 | R | R | 123 | R | | 82 | 0049 | 0x0049 | | | | | | | | | | | |
| 83 | 53 | 01010011 | S | S | 124 | S | | 83 | 004D | 0x004D | | | | | | | | | | | |
| 84 | 54 | 01010100 | T | T | 125 | T | | 84 | 0051 | 0x0051 | | | | | | | | | | | |
| 85 | 55 | 01010101 | U | U | 126 | U | | 85 | 0055 | 0x0055 | | | | | | | | | | | |
| 86 | 56 | 01010110 | V | V | 127 | V | | 86 | 0059 | 0x0059 | | | | | | | | | | | |
| 87 | 57 | 01010111 | W | W | 130 | W | | 87 | 005D | 0x005D | | | | | | | | | | | |
| 88 | 58 | 01011000 | X | X | 131 | X | | 88 | 0061 | 0x0061 | | | | | | | | | | | |
| 89 | 59 | 01011001 | Y | Y | 132 | Y | | 89 | 0065 | 0x0065 | | | | | | | | | | | |
| 90 | 5A | 01011010 | Z | Z | 133 | Z | | 90 | 0069 | 0x0069 | | | | | | | | | | | |
| 91 | 5B | 01011011 | [ | [ | 134 | [ | | 91 | 006D | 0x006D | [ | | | | | | | | | | |

| | | | | | | Codepages 437 - Default (North America) | | | | | | Windows CP1252 | | | | | Codepages 850 - Western Europe | | | | |
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| ASCII | | | | | | | | Unicode | | | | | Unicode | | | | | Unicode | | | |
| NUM | HEX | BIN | HTML | xHTML | OCT | CHAR | | NUM | HEX | HEX2 | HTML | CHAR | NUM | HEX | HEX2 | HTML | ChAR | NUM | HEX | HEX2 | HTML |
| 92 | 5C | 01011100 | &#92; | &#x5C; | 135 | \ | | 92 | 0071 | 0x0071 | &bsol; | | | | | | | | | | |
| 93 | 5D | 01011101 | &#93; | &#x5D; | 136 | ] | | 93 | 0075 | 0x0075 | &rsqb; | | | | | | | | | | |
| 94 | 5E | 01011110 | &#94; | &#x5E; | 137 | ^ | | 94 | 0079 | 0x0079 | &circ; | | | | | | | | | | |
| 95 | 5F | 01011111 | &#95; | &#x5F; | 140 | _ | | 95 | 007D | 0x007D | &lowbar; | | | | | | | | | | |
| 96 | 60 | 01100000 | &#96; | &#x60; | 141 | ` | | 96 | 0060 | 0x0060 | &grave; | | | | | | | | | | |
| 97 | 61 | 01100001 | &#97; | &#x61; | 142 | a | | 97 | 00AA | 0x00AA | | | | | | | | | | | |
| 98 | 62 | 01100010 | &#98; | &#x62; | 143 | b | | 98 | 00B1 | 0x00B1 | | | | | | | | | | | |
| 99 | 63 | 01100011 | &#99; | &#x63; | 144 | c | | 99 | 00BA | 0x00BA | | | | | | | | | | | |
| 100 | 64 | 01100100 | &#100; | &#x64; | 145 | d | | 100 | 00BF | 0x00BF | | | | | | | | | | | |
| 101 | 65 | 01100101 | &#101; | &#x65; | 146 | e | | 101 | 00C7 | 0x00C7 | | | | | | | | | | | |
| 102 | 66 | 01100110 | &#102; | &#x66; | 147 | f | | 102 | 00DC | 0x00DC | | | | | | | | | | | |
| 103 | 67 | 01100111 | &#103; | &#x67; | 150 | g | | 103 | 00E2 | 0x00E2 | | | | | | | | | | | |
| 104 | 68 | 01101000 | &#104; | &#x68; | 151 | h | | 104 | 00E7 | 0x00E7 | | | | | | | | | | | |
| 105 | 69 | 01101001 | &#105; | &#x69; | 152 | i | | 105 | 00EB | 0x00EB | | | | | | | | | | | |
| 106 | 6A | 01101010 | &#106; | &#x6A; | 153 | j | | 106 | 00EF | 0x00EF | | | | | | | | | | | |
| 107 | 6B | 01101011 | &#107; | &#x6B; | 154 | k | | 107 | 00F4 | 0x00F4 | | | | | | | | | | | |
| 108 | 6C | 01101100 | &#108; | &#x6C; | 155 | l | | 108 | 00FA | 0x00FA | | | | | | | | | | | |
| 109 | 6D | 01101101 | &#109; | &#x6D; | 156 | m | | 109 | 0192 | 0x0192 | | | | | | | | | | | |
| 110 | 6E | 01101110 | &#110; | &#x6E; | 157 | n | | 110 | 03A6 | 0x03A6 | | | | | | | | | | | |

| | | | | | | Codepages 437 - Default (North America) | | | | | | Windows CP1252 | | | | | Codepages 850 - Western Europe | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ASCII | | | | | | | | Unicode | | | | | Unicode | | | | | Unicode | | | |
| NUM | HEX | BIN | HTML | xHTML | OCT | CHAR | | NUM | HEX | HEX2 | HTML | CHAR | NUM | HEX | HEX2 | HTML | ChAR | NUM | HEX | HEX2 | HTML |
| 111 | 6F | 01101111 | &#111; | &#x6F; | 160 | o | | 111 | 03B5 | 0x03B5 | | | | | | | | | | | |
| 112 | 70 | 01110000 | &#112; | &#x70; | 161 | p | | 112 | 03C6 | 0x03C6 | | | | | | | | | | | |
| 113 | 71 | 01110001 | &#113; | &#x71; | 162 | q | | 113 | 221A | 0x221A | | | | | | | | | | | |
| 114 | 72 | 01110010 | &#114; | &#x72; | 163 | r | | 114 | 2261 | 0x2261 | | | | | | | | | | | |
| 115 | 73 | 01110011 | &#115; | &#x73; | 164 | s | | 115 | 2320 | 0x2320 | | | | | | | | | | | |
| 116 | 74 | 01110100 | &#116; | &#x74; | 165 | t | | 116 | 250C | 0x250C | | | | | | | | | | | |
| 117 | 75 | 01110101 | &#117; | &#x75; | 166 | u | | 117 | 251C | 0x251C | | | | | | | | | | | |
| 118 | 76 | 01110110 | &#118; | &#x76; | 167 | v | | 118 | 253C | 0x253C | | | | | | | | | | | |
| 119 | 77 | 01110111 | &#119; | &#x77; | 170 | w | | 119 | 2553 | 0x2553 | | | | | | | | | | | |
| 120 | 78 | 01111000 | &#120; | &#x78; | 171 | x | | 120 | 2557 | 0x2557 | | | | | | | | | | | |
| 121 | 79 | 01111001 | &#121; | &#x79; | 172 | y | | 121 | 255B | 0x255B | | | | | | | | | | | |
| 122 | 7A | 01111010 | &#122; | &#x7A; | 173 | z | | 122 | 255F | 0x255F | | | | | | | | | | | |
| 123 | 7B | 01111011 | &#123; | &#x7B; | 174 | { | | 123 | 2563 | 0x2563 | &lcub; | | | | | | | | | | |
| 124 | 7C | 01111100 | &#124; | &#x7C; | 175 | \| | | 124 | 2567 | 0x2567 | | | | | | | | | | | |
| 125 | 7D | 01111101 | &#125; | &#x7D; | 176 | } | | 125 | 256B | 0x256B | &rcub; | | | | | | | | | | |
| 126 | 7E | 01111110 | &#126; | &#x7E; | 177 | ~ | | 126 | 2588 | 0x2588 | &tilde; | | | | | | | | | | |
| 127 | 7F | 01111111 | | | 200 | DEL | DEL | 127 | 2592 | 0x2592 | | | | | | | | | | | |
| 128 | 80 | 10000000 | &#128; | &#x80; | 201 | Ç | | 199 | 0002 | 0x0002 | &Ccedil; | € | 128 | 0080 | 0x0080 | &euro; | | | | | |
| 129 | 81 | 10000001 | &#129; | &#x81; | 202 | ü | | 252 | 0006 | 0x0006 | &uuml; | • | 129 | 0081 | 0x0081 | | | | | | |

| | | | | | | Codepages 437 - Default (North America) | | | | | | Windows CP1252 | | | | | Codepages 850 - Western Europe | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ASCII | | | | | | | | Unicode | | | | | Unicode | | | | | Unicode | | | |
| NUM | HEX | BIN | HTML | xHTML | OCT | CHAR | | NUM | HEX | HEX2 | HTML | CHAR | NUM | HEX | HEX2 | HTML | ChAR | NUM | HEX | HEX2 | HTML |
| 130 | 82 | 10000010 | ‚ | ‚ | 203 | é | | 233 | 000A | 0x000A | é | ‚ | 130 | 0082 | 0x0082 | ‚ | | | | | |
| 131 | 83 | 10000011 | ƒ | ƒ | 204 | â | | 226 | 000E | 0x000E | â | ƒ | 131 | 0083 | 0x0083 | ƒ | | | | | |
| 132 | 84 | 10000100 | „ | „ | 205 | ä | | 228 | 0012 | 0x0012 | ä | „ | 132 | 0084 | 0x0084 | „ | | | | | |
| 133 | 85 | 10000101 | … | … | 206 | à | | 224 | 0016 | 0x0016 | à | … | 133 | 0085 | 0x0085 | … | | | | | |
| 134 | 86 | 10000110 | † | † | 207 | å | | 229 | 001A | 0x001A | å | † | 134 | 0086 | 0x0086 | † | | | | | |
| 135 | 87 | 10000111 | ‡ | ‡ | 210 | ç | | 231 | 001E | 0x001E | ç | ‡ | 135 | 0087 | 0x0087 | ‡ | | | | | |
| 136 | 88 | 10001000 | ˆ | ˆ | 211 | ê | | 234 | 0022 | 0x0022 | ê | ˆ | 136 | 0088 | 0x0088 | ˆ | | | | | |
| 137 | 89 | 10001001 | ‰ | ‰ | 212 | ë | | 235 | 0026 | 0x0026 | ë | ‰ | 137 | 0089 | 0x0089 | ‰ | | | | | |
| 138 | 8A | 10001010 | Š | Š | 213 | è | | 232 | 002A | 0x002A | è | Š | 138 | 008A | 0x008A | Š | | | | | |
| 139 | 8B | 10001011 | ‹ | ‹ | 214 | ï | | 239 | 002E | 0x002E | ï | ‹ | 139 | 008B | 0x008B | < | | | | | |
| 140 | 8C | 10001100 | Œ | Œ | 215 | î | | 238 | 0032 | 0x0032 | î | Œ | 140 | 008C | 0x008C | Œ | | | | | |
| 141 | 8D | 10001101 |  |  | 216 | ì | | 236 | 0036 | 0x0036 | ì | • | 141 | 008D | 0x008D | | | | | | |
| 142 | 8E | 10001110 | Ž | Ž | 217 | Ä | | 196 | 003A | 0x003A | Ä | Ž | 142 | 008E | 0x008E | Ž | | | | | |
| 143 | 8F | 10001111 |  |  | 220 | Å | | 197 | 003E | 0x003E | Å | • | 143 | 008F | 0x008F | | | | | | |
| 144 | 90 | 10010000 |  |  | 221 | É | | 201 | 0042 | 0x0042 | É | • | 144 | 0090 | 0x0090 | | | | | | |
| 145 | 91 | 10010001 | ‘ | ‘ | 222 | æ | | 230 | 0046 | 0x0046 | æ | ‘ | 145 | 0091 | 0x0091 | ‘ | | | | | |
| 146 | 92 | 10010010 | ’ | ’ | 223 | Æ | | 198 | 004A | 0x004A | &Aelig; | ’ | 146 | 0092 | 0x0092 | ’ | | | | | |
| 147 | 93 | 10010011 | “ | “ | 224 | ô | | 244 | 004E | 0x004E | ô | “ | 147 | 0093 | 0x0093 | “ | | | | | |
| 148 | 94 | 10010100 | ” | ” | 225 | ö | | 246 | 0052 | 0x0052 | ö | ” | 148 | 0094 | 0x0094 | ” | | | | | |

| | | | | | | Codepages 437 - Default (North America) | | | | | | Windows CP1252 | | | | | | Codepages 850 - Western Europe | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ASCII | | | | | | | | Unicode | | | | | Unicode | | | | | | Unicode | | | |
| NUM | HEX | BIN | HTML | xHTML | OCT | CHAR | | NUM | HEX | HEX2 | HTML | CHAR | NUM | HEX | HEX2 | HTML | ChAR | NUM | HEX | HEX2 | HTML |
| 149 | 95 | 10010101 | • | • | 226 | ò | | 242 | 0056 | 0x0056 | ò | • | 149 | 0095 | 0x0095 | • | | | | | |
| 150 | 96 | 10010110 | – | – | 227 | û | | 251 | 005A | 0x005A | û | – | 150 | 0096 | 0x0096 | – | | | | | |
| 151 | 97 | 10010111 | — | — | 230 | ù | | 249 | 005E | 0x005E | ù | — | 151 | 0097 | 0x0097 | — | | | | | |
| 152 | 98 | 10011000 | ˜ | ˜ | 231 | ÿ | | 255 | 0062 | 0x0062 | ÿ | ˜ | 152 | 0098 | 0x0098 | &tile; | | | | | |
| 153 | 99 | 10011001 | ™ | ™ | 232 | Ö | | 214 | 0066 | 0x0066 | Ö | ™ | 153 | 0099 | 0x0099 | ™ | | | | | |
| 154 | 9A | 10011010 | š | š | 233 | Ü | | 220 | 006A | 0x006A | Ü | š | 154 | 009A | 0x009A | š | | | | | |
| 155 | 9B | 10011011 | › | › | 234 | ¢ | | 162 | 006E | 0x006E | ¢ | › | 155 | 009B | 0x009B | > | ø | 248 | 00F8 | 0x00F8 | ø |
| 156 | 9C | 10011100 | œ | œ | 235 | £ | | 163 | 0072 | 0x0072 | £ | œ | 156 | 009C | 0x009C | œ | | | | | |
| 157 | 9D | 10011101 |  |  | 236 | ¥ | | 165 | 0076 | 0x0076 | ¥ | • | 157 | 009D | 0x009D | | Ø | 216 | 00D8 | 0x00D8 | Ø |
| 158 | 9E | 10011110 | ž | ž | 237 | ₧ | | 8359 | 007A | 0x007A | | ž | 158 | 009E | 0x009E | ž | × | 215 | 00D7 | 0x00D7 | × |
| 159 | 9F | 10011111 | Ÿ | Ÿ | 240 | ƒ | | 402 | 007E | 0x007E | ƒ | Ÿ | 159 | 009F | 0x009F | Ÿ | | | | | |
| 160 | A0 | 10100000 |   |   | 241 | á | | 225 | 00A2 | 0x00A2 | á | SPACE | 160 | 00A0 | 0x00A0 |   | | | | | |
| 161 | A1 | 10100001 | ¡ | ¡ | 242 | í | | 237 | 00AB | 0x00AB | í | ¡ | 161 | 00A1 | 0x00A1 | ¡ | | | | | |
| 162 | A2 | 10100010 | ¢ | ¢ | 243 | ó | | 243 | 00B2 | 0x00B2 | ó | ¢ | 162 | 00A2 | 0x00A2 | ¢ | | | | | |
| 163 | A3 | 10100011 | £ | £ | 244 | ú | | 250 | 00BB | 0x00BB | ú | £ | 163 | 00A3 | 0x00A3 | £ | | | | | |
| 164 | A4 | 10100100 | ¤ | ¤ | 245 | ñ | | 241 | 00C4 | 0x00C4 | ñ | ¤ | 164 | 00A4 | 0x00A4 | ¤ | | | | | |
| 165 | A5 | 10100101 | ¥ | ¥ | 246 | Ñ | | 209 | 00C9 | 0x00C9 | Ñ | ¥ | 165 | 00A5 | 0x00A5 | ¥ | | | | | |
| 166 | A6 | 10100110 | ¦ | ¦ | 247 | ª | | 170 | 00DF | 0x00DF | ª | ¦ | 166 | 00A6 | 0x00A6 | ¦ | | | | | |
| 167 | A7 | 10100111 | § | § | 250 | º | | 186 | 00E4 | 0x00E4 | º | § | 167 | 00A7 | 0x00A7 | § | | | | | |

| | | | | | | Codepages 437 - Default (North America) | | | | | | Windows CP1252 | | | | | | Codepages 850 - Western Europe | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ASCII | | | | | | | | Unicode | | | | | Unicode | | | | | | Unicode | | | |
| NUM | HEX | BIN | HTML | xHTML | OCT | CHAR | | NUM | HEX | HEX2 | HTML | CHAR | NUM | HEX | HEX2 | HTML | ChAR | NUM | HEX | HEX2 | HTML |
| 168 | A8 | 10101000 | ¨ | ¨ | 251 | ¿ | | 191 | 00E8 | 0x00E8 | ¿ | ¨ | 168 | 00A8 | 0x00A8 | ¨ | | | | | |
| 169 | A9 | 10101001 | © | © | 252 | ⌐ | | 8976 | 2310 | 0x2310 | | © | 169 | 00A9 | 0x00A9 | © | ® | 174 | 00AE | 0x00AE | ® |
| 170 | AA | 10101010 | ª | ª | 253 | ¬ | | 172 | 00F1 | 0x00F1 | ¬ | ª | 170 | 00AA | 0x00AA | ª | | | | | |
| 171 | AB | 10101011 | « | « | 254 | ½ | | 189 | 00F6 | 0x00F6 | ½ | « | 171 | 00AB | 0x00AB | « | | | | | |
| 172 | AC | 10101100 | ¬ | ¬ | 255 | ¼ | | 188 | 00FB | 0x00FB | ¼ | ¬ | 172 | 00AC | 0x00AC | ¬ | | | | | |
| 173 | AD | 10101101 |  |  | 256 | ¡ | | 161 | 0393 | 0x0393 | ¡ | | 173 | 00AD | 0x00AD |  | | | | | |
| 174 | AE | 10101110 | ® | ® | 257 | « | | 171 | 03A9 | 0x03A9 | « | ® | 174 | 00AE | 0x00AE | ® | | | | | |
| 175 | AF | 10101111 | ¯ | ¯ | 260 | » | | 187 | 03C0 | 0x03C0 | » | ¯ | 175 | 00AF | 0x00AF | ¯ | | | | | |
| 176 | B0 | 10110000 | ° | ° | 261 | ░ | | 9617 | 207F | 0x207F | ░ | ° | 176 | 00B0 | 0x00B0 | º | | | | | |
| 177 | B1 | 10110001 | ± | ± | 262 | ▒ | | 9618 | 221E | 0x221E | ▒ | ± | 177 | 00B1 | 0x00B1 | ± | | | | | |
| 178 | B2 | 10110010 | ² | ² | 263 | ▓ | | 9619 | 2264 | 0x2264 | ▓ | ² | 178 | 00B2 | 0x00B2 | ² | | | | | |
| 179 | B3 | 10110011 | ³ | ³ | 264 | │ | | 9474 | 2321 | 0x2321 | | ³ | 179 | 00B3 | 0x00B3 | ³ | | | | | |
| 180 | B4 | 10110100 | ´ | ´ | 265 | ┤ | | 9508 | 2510 | 0x2510 | | ´ | 180 | 00B4 | 0x00B4 | ´ | | | | | |
| 181 | B5 | 10110101 | µ | µ | 266 | ╡ | | 9569 | 2524 | 0x2524 | | µ | 181 | 00B5 | 0x00B5 | µ | Á | 193 | 00C1 | 0x00C1 | Á |
| 182 | B6 | 10110110 | ¶ | ¶ | 267 | ╢ | | 9570 | 2550 | 0x2550 | | ¶ | 182 | 00B6 | 0x00B6 | ¶ | Â | 194 | 00C2 | 0x00C2 | Â |
| 183 | B7 | 10110111 | · | · | 270 | ╖ | | 9558 | 2554 | 0x2554 | | · | 183 | 00B7 | 0x00B7 | · | À | 192 | 00C0 | 0x00C0 | À |
| 184 | B8 | 10111000 | ¸ | ¸ | 271 | ╕ | | 9557 | 2558 | 0x2558 | | ¸ | 184 | 00B8 | 0x00B8 | ¸ | © | 169 | 00A9 | 0x00A9 | © |
| 185 | B9 | 10111001 | ¹ | ¹ | 272 | ╣ | | 9571 | 255C | 0x255C | | ¹ | 185 | 00B9 | 0x00B9 | ¹ | | | | | |
| 186 | BA | 10111010 | º | º | 273 | ║ | | 9553 | 2560 | 0x2560 | | º | 186 | 00BA | 0x00BA | º | | | | | |

| | | | | | | Codepages 437 - Default (North America) | | | | | | Windows CP1252 | | | | | Codepages 850 - Western Europe | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ASCII | | | | | | | | Unicode | | | | | Unicode | | | | | Unicode | | | |
| NUM | HEX | BIN | HTML | xHTML | OCT | CHAR | | NUM | HEX | HEX2 | HTML | CHAR | NUM | HEX | HEX2 | HTML | ChAR | NUM | HEX | HEX2 | HTML |
| 187 | BB | 10111011 | » | » | 274 | ╗ | | 9559 | 2564 | 0x2564 | | » | 187 | 00BB | 0x00BB | » | | | | | |
| 188 | BC | 10111100 | ¼ | ¼ | 275 | ╝ | | 9565 | 2568 | 0x2568 | | ¼ | 188 | 00BC | 0x00BC | ¼ | | | | | |
| 189 | BD | 10111101 | ½ | ½ | 276 | ╜ | | 9564 | 256C | 0x256C | | ½ | 189 | 00BD | 0x00BD | ½ | ¢ | 162 | 00A2 | 0x00A2 | ¢ |
| 190 | BE | 10111110 | ¾ | ¾ | 277 | ╛ | | 9563 | 258C | 0x258C | | ¾ | 190 | 00BE | 0x00BE | ¾ | ¥ | 165 | 00A5 | 0x00A5 | ¥ |
| 191 | BF | 10111111 | ¿ | ¿ | 300 | ┐ | | 9488 | 2593 | 0x2593 | | ¿ | 191 | 00BF | 0x00BF | ¿ | | | | | |
| 192 | C0 | 11000000 | À | À | 301 | └ | | 9492 | 0003 | 0x0003 | | À | 192 | 00C0 | 0x00C0 | À | | | | | |
| 193 | C1 | 11000001 | Á | Á | 302 | ┴ | | 9524 | 0007 | 0x0007 | | Á | 193 | 00C1 | 0x00C1 | Á | | | | | |
| 194 | C2 | 11000010 | Â | Â | 303 | ┬ | | 9516 | 000B | 0x000B | | Â | 194 | 00C2 | 0x00C2 | Â | | | | | |
| 195 | C3 | 11000011 | Ã | Ã | 304 | ├ | | 9500 | 000F | 0x000F | | Ã | 195 | 00C3 | 0x00C3 | Ã | | | | | |
| 196 | C4 | 11000100 | Ä | Ä | 305 | ─ | | 9472 | 0013 | 0x0013 | | Ä | 196 | 00C4 | 0x00C4 | Ä | | | | | |
| 197 | C5 | 11000101 | Å | Å | 306 | ┼ | | 9532 | 0017 | 0x0017 | | Å | 197 | 00C5 | 0x00C5 | Å | | | | | |
| 198 | C6 | 11000110 | Æ | Æ | 307 | ╞ | | 9566 | 001B | 0x001B | | Æ | 198 | 00C6 | 0x00C6 | &Aelig; | ã | 227 | 00E3 | 0x00E3 | ã |
| 199 | C7 | 11000111 | Ç | Ç | 310 | ╟ | | 9567 | 001F | 0x001F | | Ç | 199 | 00C7 | 0x00C7 | Ç | Ã | 195 | 00C3 | 0x00C3 | Ã |
| 200 | C8 | 11001000 | È | È | 311 | ╚ | | 9562 | 0023 | 0x0023 | | È | 200 | 00C8 | 0x00C8 | È | | | | | |
| 201 | C9 | 11001001 | É | É | 312 | ╔ | | 9556 | 0027 | 0x0027 | | É | 201 | 00C9 | 0x00C9 | É | | | | | |
| 202 | CA | 11001010 | Ê | Ê | 313 | ╩ | | 9577 | 002B | 0x002B | | Ê | 202 | 00CA | 0x00CA | Ê | | | | | |
| 203 | CB | 11001011 | Ë | Ë | 314 | ╦ | | 9574 | 002F | 0x002F | | Ë | 203 | 00CB | 0x00CB | Ë | | | | | |
| 204 | CC | 11001100 | Ì | Ì | 315 | ╠ | | 9568 | 0033 | 0x0033 | | Ì | 204 | 00CC | 0x00CC | Ì | | | | | |
| 205 | CD | 11001101 | Í | Í | 316 | ═ | | 9552 | 0037 | 0x0037 | | Í | 205 | 00CD | 0x00CD | Í | | | | | |

| | | | | | | Codepages 437 - Default (North America) | | | | | | Windows CP1252 | | | | | | Codepages 850 - Western Europe | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ASCII | | | | | | | | Unicode | | | | | Unicode | | | | | | Unicode | | | |
| NUM | HEX | BIN | HTML | xHTML | OCT | CHAR | | NUM | HEX | HEX2 | HTML | CHAR | NUM | HEX | HEX2 | HTML | ChAR | NUM | HEX | HEX2 | HTML |
| 206 | CE | 11001110 | &#206; | &#xCE; | 317 | ╬ | | 9580 | 003B | 0x003B | | Î | 206 | 00CE | 0x00CE | &Icirc; | | | | | |
| 207 | CF | 11001111 | &#207; | &#xCF; | 320 | ╧ | | 9575 | 003F | 0x003F | | Ï | 207 | 00CF | 0x00CF | &Iuml; | ¤ | 164 | 00A4 | 0x00A4 | &curren; |
| 208 | D0 | 11010000 | &#208; | &#xD0; | 321 | ╨ | | 9576 | 0043 | 0x0043 | | Ð | 208 | 00D0 | 0x00D0 | &ETH; | ð | 240 | 00F0 | 0x00F0 | &eth; |
| 209 | D1 | 11010001 | &#209; | &#xD1; | 322 | ╤ | | 9572 | 0047 | 0x0047 | | Ñ | 209 | 00D1 | 0x00D1 | &Ntilde; | Đ | 208 | 00D0 | 0x00D0 | &ETH; |
| 210 | D2 | 11010010 | &#210; | &#xD2; | 323 | ╥ | | 9573 | 004B | 0x004B | | Ò | 210 | 00D2 | 0x00D2 | &Ograve; | Ê | 202 | 00CA | 0x00CA | &Ecirc; |
| 211 | D3 | 11010011 | &#211; | &#xD3; | 324 | ╙ | | 9561 | 004F | 0x004F | | Ó | 211 | 00D3 | 0x00D3 | &Oacute; | Ë | 203 | 00CB | 0x00CB | &Euml; |
| 212 | D4 | 11010100 | &#212; | &#xD4; | 325 | ╘ | | 9560 | 0053 | 0x0053 | | Ô | 212 | 00D4 | 0x00D4 | &Ocirc; | È | 200 | 00C8 | 0x00C8 | &Egrave; |
| 213 | D5 | 11010101 | &#213; | &#xD5; | 326 | ╒ | | 9554 | 0057 | 0x0057 | | Õ | 213 | 00D5 | 0x00D5 | &Otilde; | ı | 305 | 0131 | 0x0131 | |
| 214 | D6 | 11010110 | &#214; | &#xD6; | 327 | ╓ | | 9555 | 005B | 0x005B | | Ö | 214 | 00D6 | 0x00D6 | &Ouml; | Í | 205 | 00CD | 0x00CD | &Iacute; |
| 215 | D7 | 11010111 | &#215; | &#xD7; | 330 | ╫ | | 9579 | 005F | 0x005F | | × | 215 | 00D7 | 0x00D7 | &times; | Î | 206 | 00CE | 0x00CE | &Icirc; |
| 216 | D8 | 11011000 | &#216; | &#xD8; | 331 | ╪ | | 9578 | 0063 | 0x0063 | | Ø | 216 | 00D8 | 0x00D8 | &Oslash; | Ï | 207 | 00CF | 0x00CF | &Iuml; |
| 217 | D9 | 11011001 | &#217; | &#xD9; | 332 | ┘ | | 9496 | 0067 | 0x0067 | | Ù | 217 | 00D9 | 0x00D9 | &Ugrave; | | | | | |
| 218 | DA | 11011010 | &#218; | &#xDA; | 333 | ┌ | | 9484 | 006B | 0x006B | | Ú | 218 | 00DA | 0x00DA | &Uacute; | | | | | |
| 219 | DB | 11011011 | &#219; | &#xDB; | 334 | █ | | 9608 | 006F | 0x006F | &block; | Û | 219 | 00DB | 0x00DB | &Ucirc; | | | | | |
| 220 | DC | 11011100 | &#220; | &#xDC; | 335 | ▄ | | 9604 | 0073 | 0x0073 | &lhblk; | Ü | 220 | 00DC | 0x00DC | &Uuml; | | | | | |
| 221 | DD | 11011101 | &#221; | &#xDD; | 336 | ▌ | | 9612 | 0077 | 0x0077 | | Ý | 221 | 00DD | 0x00DD | &Yacute; | ¦ | 166 | 00A6 | 0x00A6 | &brvbar; |
| 222 | DE | 11011110 | &#222; | &#xDE; | 337 | ▐ | | 9616 | 007B | 0x007B | | Þ | 222 | 00DE | 0x00DE | &THORN; | Ì | 204 | 00CC | 0x00CC | &Igrave; |
| 223 | DF | 11011111 | &#223; | &#xDF; | 340 | ▀ | | 9600 | 007F | 0x007F | &uhblk; | ß | 223 | 00DF | 0x00DF | &szlig; | | | | | |
| 224 | E0 | 11100000 | &#224; | &#xE0; | 341 | α | | 945 | 00A3 | 0x00A3 | &alpha; | à | 224 | 00E0 | 0x00E0 | &agrave; | Ó | 211 | 00D3 | 0x00D3 | &Oacute; |

| | | | | | | Codepages 437 - Default (North America) | | | | | | Windows CP1252 | | | | | | Codepages 850 - Western Europe | | | | |
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| ASCII | | | | | | | | Unicode | | | | | Unicode | | | | | | Unicode | | | |
| NUM | HEX | BIN | HTML | xHTML | OCT | CHAR | | NUM | HEX | HEX2 | HTML | CHAR | NUM | HEX | HEX2 | HTML | ChAR | NUM | HEX | HEX2 | HTML |
| 225 | E1 | 11100001 | á | á | 342 | ß | | 223 | 00AC | 0x00AC | ß | á | 225 | 00E1 | 0x00E1 | á | | | | | |
| 226 | E2 | 11100010 | â | â | 343 | Γ | | 915 | 00B5 | 0x00B5 | Γ | â | 226 | 00E2 | 0x00E2 | â | Ô | 212 | 00D4 | 0x00D4 | Ô |
| 227 | E3 | 11100011 | ã | ã | 344 | π | | 960 | 00BC | 0x00BC | π | ã | 227 | 00E3 | 0x00E3 | ã | Ò | 210 | 00D2 | 0x00D2 | Ò |
| 228 | E4 | 11100100 | ä | ä | 345 | Σ | | 931 | 00C5 | 0x00C5 | Σ | ä | 228 | 00E4 | 0x00E4 | ä | õ | 245 | 00F5 | 0x00F5 | õ |
| 229 | E5 | 11100101 | å | å | 346 | σ | | 963 | 00D1 | 0x00D1 | σ | å | 229 | 00E5 | 0x00E5 | å | Õ | 213 | 00D5 | 0x00D5 | Õ |
| 230 | E6 | 11100110 | æ | æ | 347 | µ | | 181 | 00E0 | 0x00E0 | µ | æ | 230 | 00E6 | 0x00E6 | æ | | | | | |
| 231 | E7 | 11100111 | ç | ç | 350 | τ | | 964 | 00E5 | 0x00E5 | τ | ç | 231 | 00E7 | 0x00E7 | ç | þ | 254 | 00FE | 0x00FE | þ |
| 232 | E8 | 11101000 | è | è | 351 | Φ | | 934 | 00E9 | 0x00E9 | Φ | è | 232 | 00E8 | 0x00E8 | è | Þ | 222 | 00DE | 0x00DE | Þ |
| 233 | E9 | 11101001 | é | é | 352 | Θ | | 920 | 00ED | 0x00ED | Θ | é | 233 | 00E9 | 0x00E9 | é | Ú | 218 | 00DA | 0x00DA | Ú |
| 234 | EA | 11101010 | ê | ê | 353 | Ω | | 937 | 00F2 | 0x00F2 | Ω | ê | 234 | 00EA | 0x00EA | ê | Û | 219 | 00DB | 0x00DB | Û |
| 235 | EB | 11101011 | ë | ë | 354 | δ | | 948 | 00F7 | 0x00F7 | δ | ë | 235 | 00EB | 0x00EB | ë | Ù | 217 | 00D9 | 0x00D9 | Ù |
| 236 | EC | 11101100 | ì | ì | 355 | ∞ | | 8734 | 00FC | 0x00FC | ∞ | ì | 236 | 00EC | 0x00EC | ì | ý | 253 | 00FD | 0x00FD | ý |
| 237 | ED | 11101101 | í | í | 356 | φ | | 966 | 0398 | 0x0398 | φ | í | 237 | 00ED | 0x00ED | í | Ý | 221 | 00DD | 0x00DD | Ý |
| 238 | EE | 11101110 | î | î | 357 | ε | | 949 | 03B1 | 0x03B1 | ε | î | 238 | 00EE | 0x00EE | î | ¯ | 175 | 00AF | 0x00AF | ¯ |
| 239 | EF | 11101111 | ï | ï | 360 | ∩ | | 8745 | 03C3 | 0x03C3 | ∩ | ï | 239 | 00EF | 0x00EF | ï | ´ | 180 | 00B4 | 0x00B4 | ´ |
| 240 | F0 | 11110000 | ð | ð | 361 | ≡ | | 8801 | 20A7 | 0x20A7 | ≡ | ð | 240 | 00F0 | 0x00F0 | ð | | 173 | 00AD | 0x00AD |  |
| 241 | F1 | 11110001 | ñ | ñ | 362 | ± | | 177 | 2229 | 0x2229 | ± | ñ | 241 | 00F1 | 0x00F1 | ñ | | | | | |
| 242 | F2 | 11110010 | ò | ò | 363 | ≥ | | 8805 | 2265 | 0x2265 | ≥ | ò | 242 | 00F2 | 0x00F2 | ò | ‗ | 8215 | 2017 | 0x2017 | |
| 243 | F3 | 11110011 | ó | ó | 364 | ≤ | | 8804 | 2500 | 0x2500 | ≤ | ó | 243 | 00F3 | 0x00F3 | ó | ¾ | 190 | 00BE | 0x00BE | ¾ |

| | | | | | | Codepages 437 - Default (North America) | | | | | | Windows CP1252 | | | | | | Codepages 850 - Western Europe | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ASCII | | | | | | | | Unicode | | | | | Unicode | | | | | Unicode | | | | |
| NUM | HEX | BIN | HTML | xHTML | OCT | CHAR | | NUM | HEX | HEX2 | HTML | CHAR | NUM | HEX | HEX2 | HTML | ChAR | NUM | HEX | HEX2 | HTML |
| 244 | F4 | 11110100 | ô | ô | 365 | ⌠ | | 8992 | 2514 | 0x2514 | ⌈ | ô | 244 | 00F4 | 0x00F4 | ô | ¶ | 182 | 00B6 | 0x00B6 | ¶ |
| 245 | F5 | 11110101 | õ | õ | 366 | ⌡ | | 8993 | 252C | 0x252C | ⌋ | õ | 245 | 00F5 | 0x00F5 | õ | § | 167 | 00A7 | 0x00A7 | § |
| 246 | F6 | 11110110 | ö | ö | 367 | ÷ | | 247 | 2551 | 0x2551 | ÷ | ö | 246 | 00F6 | 0x00F6 | ö | | | | | |
| 247 | F7 | 11110111 | ÷ | ÷ | 370 | ≈ | | 8776 | 2555 | 0x2555 | ≈ | ÷ | 247 | 00F7 | 0x00F7 | ÷ | ¸ | 184 | 00B8 | 0x00B8 | ¸ |
| 248 | F8 | 11111000 | ø | ø | 371 | ° | | 176 | 2559 | 0x2559 | ° | ø | 248 | 00F8 | 0x00F8 | ø | | | | | |
| 249 | F9 | 11111001 | ù | ù | 372 | ∙ | | 8729 | 255D | 0x255D | ⋅ | ù | 249 | 00F9 | 0x00F9 | ù | ¨ | 168 | 00A8 | 0x00A8 | ¨ |
| 250 | FA | 11111010 | ú | ú | 373 | · | | 183 | 2561 | 0x2561 | · | ú | 250 | 00FA | 0x00FA | ú | | | | | |
| 251 | FB | 11111011 | û | û | 374 | √ | | 8730 | 2565 | 0x2565 | √ | û | 251 | 00FB | 0x00FB | û | ¹ | 185 | 00B9 | 0x00B9 | ¹ |
| 252 | FC | 11111100 | ü | ü | 375 | ⁿ | | 8319 | 2569 | 0x2569 | - | ü | 252 | 00FC | 0x00FC | ü | ³ | 179 | 00B3 | 0x00B3 | ³ |
| 253 | FD | 11111101 | ý | ý | 376 | ² | | 178 | 2580 | 0x2580 | ² | ý | 253 | 00FD | 0x00FD | ý | | | | | |
| 254 | FE | 11111110 | þ | þ | 377 | ■ | | 9632 | 25A0 | 0x25A0 | ▪ | þ | 254 | 00FE | 0x00FE | þ | | | | | |
| 255 | FF | 11111111 | | | 378 | | NOBRSP/NL | 160 | 25A0 | 0x25A0 |   | ÿ | 255 | 00FF | 0x00FF | ÿ | | | | | |

# Additional Resources

Visit the ASCII Art Academy on my Website. There you can learn about the history and art styles of text art, find tutorials and other useful information.

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http://www.roysac.com/roy-sac_downloads_links.asp#ansedit

Find more stuff online, such as art collections and art group homepages and additional info-sources.

http://www.roysac.com/links

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For the largest collection of scene text art available for browsing and downloading on the internet visit “Lord Scarlett’s”

http://www.sixteencolors.net/

For a large selection of scene artifacts like NFO text files and more visit Ben Garrett’s

http://www.defacto2.org/

A big pile of BBS and scene related documents and collections can be found at Jason Scott’s

http://artscene.textfiles.com/