**ASCII码表详解**

ASCII码表

ASCII码大致可以分作三部分组成。  
[第一部分是：ASCII非打印控制字符](http://www.asciima.com/ascii/2.html)  
[第二部分是：ASCII打印字符](http://www.asciima.com/ascii/3.html)；  
[第三部分是：扩展ASCII打印字符](http://www.asciima.com/ascii/4.html)

**第一部分：ASCII非打印控制字符表**

ASCII表上的数字0–31分配给了控制字符，用于控制像打印机等一些外围设备。例如，12代表换页/新页功能。此命令指示打印机跳到下一页的开头。（参详ASCII码表中0-31）

**第二部分：ASCII打印字符**

数字 32–126 分配给了能在键盘上找到的字符，当您查看或打印文档时就会出现。数字127代表 DELETE 命令。（参详ASCII码表中32-127）

**ASCII码表 0-127**

**ASCII码表 0-127**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Bin | Dec | Hex | 缩写/字符 | 解释 |
| 00000000 | 0 | 00 | NUL(null) | 空字符 |
| 00000001 | 1 | 01 | SOH(start of headling) | 标题开始 |
| 00000010 | 2 | 02 | STX (start of text) | 正文开始 |
| 00000011 | 3 | 03 | ETX (end of text) | 正文结束 |
| 00000100 | 4 | 04 | EOT (end of transmission) | 传输结束 |
| 00000101 | 5 | 05 | ENQ (enquiry) | 请求 |
| 00000110 | 6 | 06 | ACK (acknowledge) | 收到通知 |
| 00000111 | 7 | 07 | BEL (bell) | 响铃 |
| 00001000 | 8 | 08 | BS (backspace) | 退格 |
| 00001001 | 9 | 09 | HT (horizontal tab) | 水平制表符 |
| 00001010 | 10 | 0A | LF (NL line feed, new line) | 换行键 |
| 00001011 | 11 | 0B | VT (vertical tab) | 垂直制表符 |
| 00001100 | 12 | 0C | FF (NP form feed, new page) | 换页键 |
| 00001101 | 13 | 0D | CR (carriage return) | 回车键 |
| 00001110 | 14 | 0E | SO (shift out) | 不用切换 |
| 00001111 | 15 | 0F | SI (shift in) | 启用切换 |
| 00010000 | 16 | 10 | DLE (data link escape) | 数据链路转义 |
| 00010001 | 17 | 11 | DC1 (device control 1) | 设备控制1 |
| 00010010 | 18 | 12 | DC2 (device control 2) | 设备控制2 |
| 00010011 | 19 | 13 | DC3 (device control 3) | 设备控制3 |
| 00010100 | 20 | 14 | DC4 (device control 4) | 设备控制4 |
| 00010101 | 21 | 15 | NAK (negative acknowledge) | 拒绝接收 |
| 00010110 | 22 | 16 | SYN (synchronous idle) | 同步空闲 |
| 00010111 | 23 | 17 | ETB (end of trans. block) | 传输块结束 |
| 00011000 | 24 | 18 | CAN (cancel) | 取消 |
| 00011001 | 25 | 19 | EM (end of medium) | 介质中断 |
| 00011010 | 26 | 1A | SUB (substitute) | 替补 |
| 00011011 | 27 | 1B | ESC (escape) | 溢出 |
| 00011100 | 28 | 1C | FS (file separator) | 文件分割符 |
| 00011101 | 29 | 1D | GS (group separator) | 分组符 |
| 00011110 | 30 | 1E | RS (record separator) | 记录分离符 |
| 00011111 | 31 | 1F | US (unit separator) | 单元分隔符 |
| 00100000 | 32 | 20 | (space) | 空格 |
| 00100001 | 33 | 21 | ! |  |
| 00100010 | 34 | 22 | " |  |
| 00100011 | 35 | 23 | # |  |
| 00100100 | 36 | 24 | $ |  |
| 00100101 | 37 | 25 | % |  |
| 00100110 | 38 | 26 | & |  |
| 00100111 | 39 | 27 | ' |  |
| 00101000 | 40 | 28 | ( |  |
| 00101001 | 41 | 29 | ) |  |
| 00101010 | 42 | 2A | \* |  |
| 00101011 | 43 | 2B | + |  |
| 00101100 | 44 | 2C | , |  |
| 00101101 | 45 | 2D | - |  |
| 00101110 | 46 | 2E | . |  |
| 00101111 | 47 | 2F | / |  |
| 00110000 | 48 | 30 | 0 |  |
| 00110001 | 49 | 31 | 1 |  |
| 00110010 | 50 | 32 | 2 |  |
| 00110011 | 51 | 33 | 3 |  |
| 00110100 | 52 | 34 | 4 |  |
| 00110101 | 53 | 35 | 5 |  |
| 00110110 | 54 | 36 | 6 |  |
| 00110111 | 55 | 37 | 7 |  |
| 00111000 | 56 | 38 | 8 |  |
| 00111001 | 57 | 39 | 9 |  |
| 00111010 | 58 | 3A | : |  |
| 00111011 | 59 | 3B | ; |  |
| 00111100 | 60 | 3C | < |  |
| 00111101 | 61 | 3D | = |  |
| 00111110 | 62 | 3E | > |  |
| 00111111 | 63 | 3F | ? |  |
| 01000000 | 64 | 40 | @ |  |
| 01000001 | 65 | 41 | A |  |
| 01000010 | 66 | 42 | B |  |
| 01000011 | 67 | 43 | C |  |
| 01000100 | 68 | 44 | D |  |
| 01000101 | 69 | 45 | E |  |
| 01000110 | 70 | 46 | F |  |
| 01000111 | 71 | 47 | G |  |
| 01001000 | 72 | 48 | H |  |
| 01001001 | 73 | 49 | I |  |
| 01001010 | 74 | 4A | J |  |
| 01001011 | 75 | 4B | K |  |
| 01001100 | 76 | 4C | L |  |
| 01001101 | 77 | 4D | M |  |
| 01001110 | 78 | 4E | N |  |
| 01001111 | 79 | 4F | O |  |
| 01010000 | 80 | 50 | P |  |
| 01010001 | 81 | 51 | Q |  |
| 01010010 | 82 | 52 | R |  |
| 01010011 | 83 | 53 | S |  |
| 01010100 | 84 | 54 | T |  |
| 01010101 | 85 | 55 | U |  |
| 01010110 | 86 | 56 | V |  |
| 01010111 | 87 | 57 | W |  |
| 01011000 | 88 | 58 | X |  |
| 01011001 | 89 | 59 | Y |  |
| 01011010 | 90 | 5A | Z |  |
| 01011011 | 91 | 5B | [ |  |
| 01011100 | 92 | 5C | \ |  |
| 01011101 | 93 | 5D | ] |  |
| 01011110 | 94 | 5E | ^ |  |
| 01011111 | 95 | 5F | \_ |  |
| 01100000 | 96 | 60 | ` |  |
| 01100001 | 97 | 61 | a |  |
| 01100010 | 98 | 62 | b |  |
| 01100011 | 99 | 63 | c |  |
| 01100100 | 100 | 64 | d |  |
| 01100101 | 101 | 65 | e |  |
| 01100110 | 102 | 66 | f |  |
| 01100111 | 103 | 67 | g |  |
| 01101000 | 104 | 68 | h |  |
| 01101001 | 105 | 69 | i |  |
| 01101010 | 106 | 6A | j |  |
| 01101011 | 107 | 6B | k |  |
| 01101100 | 108 | 6C | l |  |
| 01101101 | 109 | 6D | m |  |
| 01101110 | 110 | 6E | n |  |
| 01101111 | 111 | 6F | o |  |
| 01110000 | 112 | 70 | p |  |
| 01110001 | 113 | 71 | q |  |
| 01110010 | 114 | 72 | r |  |
| 01110011 | 115 | 73 | s |  |
| 01110100 | 116 | 74 | t |  |
| 01110101 | 117 | 75 | u |  |
| 01110110 | 118 | 76 | v |  |
| 01110111 | 119 | 77 | w |  |
| 01111000 | 120 | 78 | x |  |
| 01111001 | 121 | 79 | y |  |
| 01111010 | 122 | 7A | z |  |
| 01111011 | 123 | 7B | { |  |
| 01111100 | 124 | 7C | | |  |
| 01111101 | 125 | 7D | } |  |
| 01111110 | 126 | 7E | ~ |  |
| 01111111 | 127 | 7F | DEL (delete) | 删除 |

**第三部分：扩展ASCII打印字符**

扩展的ASCII字符满足了对更多字符的需求。扩展的ASCII包含ASCII中已有的128个字符（数字0–32显示在下图中），又增加了128个字符，总共是256个。即使有了这些更多的字符，许多语言还是包含无法压缩到256个字符中的符号。因此，出现了一些ASCII的变体来囊括地区性字符和符号。例如，许多软件程序把ASCII表（又称作ISO8859-1）用于北美、西欧、澳大利亚和非洲的语言。

