HTML and XHTML uses standard 7-BIT ASCII when transmitting data over the Web.

7-BIT ASCII represents 128 different character values (0-127).

**7-BIT Printable ASCII Characters**

|  |  |  |
| --- | --- | --- |
| **Result** | **Description** | **Entity Number** |
|  | space | &#32; |
| ! | exclamation mark | &#33; |
| " | quotation mark | &#34; |
| # | number sign | &#35; |
| $ | dollar sign | &#36; |
| % | percent sign | &#37; |
| & | ampersand | &#38; |
| ' | apostrophe | &#39; |
| ( | left parenthesis | &#40; |
| ) | right parenthesis | &#41; |
| \* | asterisk | &#42; |
| + | plus sign | &#43; |
| , | comma | &#44; |
| - | hyphen | &#45; |
| . | period | &#46; |
| / | slash | &#47; |
| 0 | digit 0 | &#48; |
| 1 | digit 1 | &#49; |
| 2 | digit 2 | &#50; |
| 3 | digit 3 | &#51; |
| 4 | digit 4 | &#52; |
| 5 | digit 5 | &#53; |
| 6 | digit 6 | &#54; |
| 7 | digit 7 | &#55; |
| 8 | digit 8 | &#56; |
| 9 | digit 9 | &#57; |
| : | colon | &#58; |
| ; | semicolon | &#59; |
| < | less-than | &#60; |
| = | equals-to | &#61; |
| > | greater-than | &#62; |
| ? | question mark | &#63; |
| @ | at sign | &#64; |
| A | uppercase A | &#65; |
| B | uppercase B | &#66; |
| C | uppercase C | &#67; |
| D | uppercase D | &#68; |
| E | uppercase E | &#69; |
| F | uppercase F | &#70; |
| G | uppercase G | &#71; |
| H | uppercase H | &#72; |
| I | uppercase I | &#73; |
| J | uppercase J | &#74; |
| K | uppercase K | &#75; |
| L | uppercase L | &#76; |
| M | uppercase M | &#77; |
| N | uppercase N | &#78; |
| O | uppercase O | &#79; |
| P | uppercase P | &#80; |
| Q | uppercase Q | &#81; |
| R | uppercase R | &#82; |
| S | uppercase S | &#83; |
| T | uppercase T | &#84; |
| U | uppercase U | &#85; |
| V | uppercase V | &#86; |
| W | uppercase W | &#87; |
| X | uppercase X | &#88; |
| Y | uppercase Y | &#89; |
| Z | uppercase Z | &#90; |
| [ | left square bracket | &#91; |
| \ | backslash | &#92; |
| ] | right square bracket | &#93; |
| ^ | caret | &#94; |
| \_ | underscore | &#95; |
| ` | grave accent | &#96; |
| a | lowercase a | &#97; |
| b | lowercase b | &#98; |
| c | lowercase c | &#99; |
| d | lowercase d | &#100; |
| e | lowercase e | &#101; |
| f | lowercase f | &#102; |
| g | lowercase g | &#103; |
| h | lowercase h | &#104; |
| i | lowercase i | &#105; |
| j | lowercase j | &#106; |
| k | lowercase k | &#107; |
| l | lowercase l | &#108; |
| m | lowercase m | &#109; |
| n | lowercase n | &#110; |
| o | lowercase o | &#111; |
| p | lowercase p | &#112; |
| q | lowercase q | &#113; |
| r | lowercase r | &#114; |
| s | lowercase s | &#115; |
| t | lowercase t | &#116; |
| u | lowercase u | &#117; |
| v | lowercase v | &#118; |
| w | lowercase w | &#119; |
| x | lowercase x | &#120; |
| y | lowercase y | &#121; |
| z | lowercase z | &#122; |
| { | left curly brace | &#123; |
| | | vertical bar | &#124; |
| } | right curly brace | &#125; |
| ~ | tilde | &#126; |

**7-BIT ASCII Device Control Characters**

ASCII device control characters were originally designed to control hardware devices like printers and tape drives. These characters have nothing to do inside any HTML document.

|  |  |  |
| --- | --- | --- |
| **Result** | **Description** | **Entity Number** |
| NUL | null character | &#00; |
| SOH | start of header | &#01; |
| STX | start of text | &#02; |
| ETX | end of text | &#03; |
| EOT | end of transmission | &#04; |
| ENQ | enquiry | &#05; |
| ACK | acknowledge | &#06; |
| BEL | bell (ring) | &#07; |
| BS | backspace | &#08; |
| HT | horizontal tab | &#09; |
| LF | line feed | &#10; |
| VT | vertical tab | &#11; |
| FF | form feed | &#12; |
| CR | carriage return | &#13; |
| SO | shift out | &#14; |
| SI | shift in | &#15; |
| DLE | data link escape | &#16; |
| DC1 | device control 1 | &#17; |
| DC2 | device control 2 | &#18; |
| DC3 | device control 3 | &#19; |
| DC4 | device control 4 | &#20; |
| NAK | negative acknowledge | &#21; |
| SYN | synchronize | &#22; |
| ETB | end transmission block | &#23; |
| CAN | cancel | &#24; |
| EM | end of medium | &#25; |
| SUB | substitute | &#26; |
| ESC | escape | &#27; |
| FS | file separator | &#28; |
| GS | group separator | &#29; |
| RS | record separator | &#30; |
| US | unit separator | &#31; |
| DEL | delete (rubout) | &#127; |