

URL Encoding of Special Characters

Some characters are utilized by URLs for special use in defining their syntax. When these characters are not used in their special role inside a URL, they must be encoded.

Character	Hexadecimal	Decimal
\$	24	36
&	26	38
+	2B	43
,	2C	44
/	2F	47
:	3A	58
;	3B	59
=	3D	61
?	3F	63
@	40	64

Some characters present the possibility of being misunderstood within URLs for various reasons. These characters should also always be encoded.

Character	Code Points (Hexadecimal)	Code Points (Decimal)	Details
Space	20	32	Significant sequences of spaces may be lost in some uses (especially multiple spaces)
Quotation Marks	22	34	These characters are often used to delimit URLs in plain text.
'Less Than' symbol ("<")	3C	60	
'Greater Than' symbol (">")	3E	62	
'Pound' Character ("#")	23	35	This is used in URLs to indicate where a fragment identifier (bookmarks/anchors in HTML) begins.
Percent Character ("%")	25	37	This is used in URLs to encode/escape other characters. It should also be encoded.
Miscellaneous Characters			Some systems can possibly modify these characters.
Left Curly Brace ("{"	7B	123	
Right Curly Brace ("}"	7D	125	
Vertical Bar/Pipe (" "	7C	124	
Backslash ("\")	5C	92	
Caret ("^")	5E	94	
Tilde ("~")	7E	126	
Left Square Bracket ("["	5B	91	
Right Square Bracket ("]")	5D	93	
Grave Accent ("`")	60	96	