



# HTML URL Encoding Reference

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## **URL - Uniform Resource Locator**

Web browsers request pages from web servers by using a URL.

The URL is the address of a web page, like: https://www.w3schools.com.

## **URL Encoding (Percent Encoding)**

URL encoding converts characters into a format that can be transmitted over the Internet.

URLs can only be sent over the Internet using the ASCII character-set.

Since URLs often contain characters outside the ASCII set, the URL has to be converted into a valid ASCII format.

URL encoding replaces unsafe ASCII characters with a "%" followed by two hexadecimal digits.

URLs cannot contain spaces. URL encoding normally replaces a space with a plus (+) sign or with %20.

## Try It Yourself

If you click the "Submit" button below, the browser will URL encode the input before it is sent to the server. A page at the server will display the received input.

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Try some other input and click Submit again.

## **URL Encoding Functions**

In JavaScript, PHP, and ASP there are functions that can be used to URL encode a string.

PHP has the rawurlencode() function, and ASP has the Server.URLEncode() function.

In JavaScript you can use the **encodeURIComponent()** function.

Click the "URL Encode" button to see how the JavaScript function encodes the text.

Hello Günter	URL Encode
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Note: The JavaScript function encodes space as %20.

## **ASCII Encoding Reference**

Your browser will encode input, according to the character-set used in your page.

The default character-set in HTML5 is UTF-8.

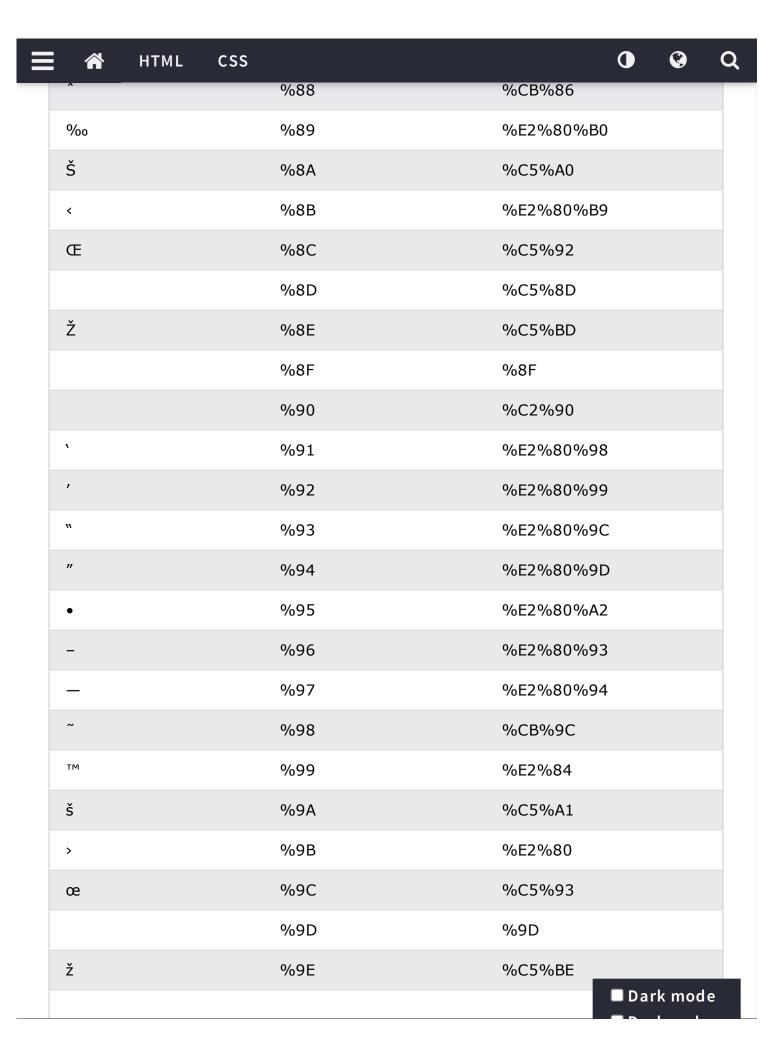
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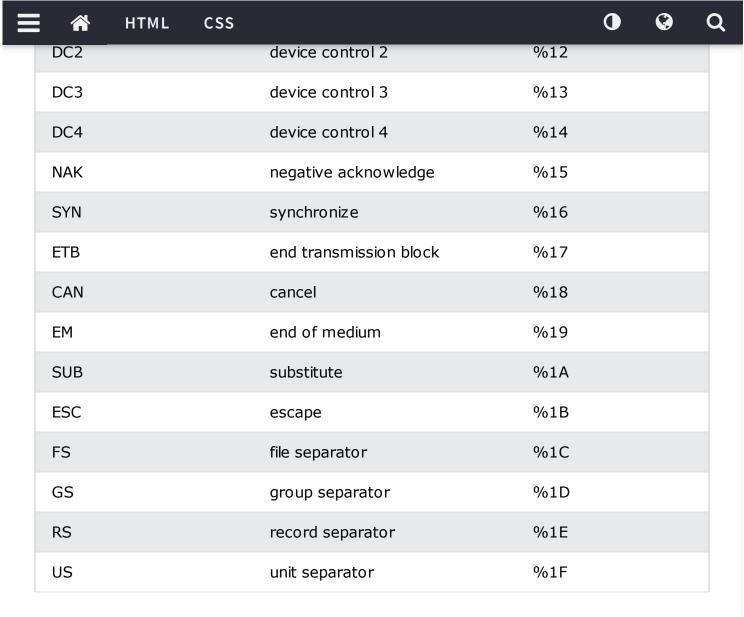


# **URL Encoding Reference**

The ASCII control characters **%00-%1F** were originally designed to control hardware devices.

Control characters have nothing to do inside a URL.

ASCII Character	Description	URL-encoding
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
нт	horizontal tab	%09
LF	line feed	%0A
VT	vertical tab	%0B
FF	form feed	%0C
CR	carriage return	%0D
SO	shift out	%0E
SI	shift in	%0F
DLE	data link escape	%10 □ Dark mode



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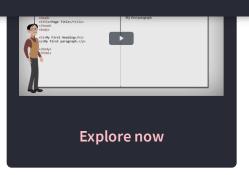
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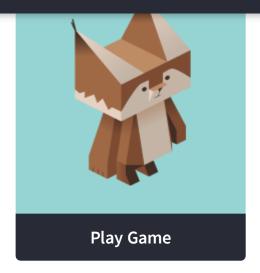


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