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Dear Twitpic Community - thank you for all the wonderful photos you have taken over the years. We have now placed Twitpic in an archived state. For more information, click here. The term "" redirects here. For the printed character, see Quotation mark. Unique string of length zero This article needs additional citations for verification. Please help improve this article by adding citations to reliable sources. Unsourced material may be challenged and removed.Find sources: "Empty string" – news · newspapers · books · scholar · JSTOR (November 2009) (Learn how and when to remove this template message) In formal language theory, the empty string, or empty word, is the unique string of length zero. Formally, a string is a finite, ordered sequence of characters such as letters, digits or spaces. The empty string is the special case where the sequence has length zero, so there are no symbols in the string. There is only one empty string, because two strings are only different if they have different lengths or a different sequence of symbols. In formal treatments,[1] the empty string is denoted with  $\epsilon$  or sometimes  $\Lambda$  or  $\lambda$ . The empty string should not be confused with the empty language  $\emptyset$ , which is a formal language (i.e. a set of strings) that contains no strings, not even the empty string. The empty string has several properties:  $|\epsilon| = 0$ . Its string length is zero.  $\epsilon \cdot s = s \cdot \epsilon = s$ . The empty string is the identity element of the concatenation operation. The set of all strings forms a free monoid with respect to  $\cdot$  and  $\epsilon$ .  $\epsilon R = \epsilon$ . Reversal of the empty string produces the empty string. The empty string precedes any other string under lexicographical order, because it is the shortest of all strings.[2] In context-free grammars, a production rule that allows a symbol to produce the empty string is known as an  $\epsilon$ -production, and the symbol is said to be "nullable". Use in programming languages In most programming languages, strings are a data type. Strings are typically stored at distinct memory addresses (locations). Thus, the same string (for example, the empty string) may be stored in two or more places in memory. In this way, there could be multiple empty strings in memory, in contrast with the formal theory definition, for which there is only one possible empty string. However, a string comparison function would indicate that all of these empty strings are equal to each other. Even a string of length zero can require memory to store it, depending on the format being used. In most programming languages, the empty string is distinct from a null reference (or null pointer) because a null reference points to no string at all, not even the empty string. The empty string is a legitimate string, upon which most string operations should work. Some languages treat some or all of the following in similar ways: empty strings, null references, the integer 0, the floating point number 0, the Boolean value false, the ASCII character NUL, or other such values. The empty string is usually represented similarly to other strings. In implementations with string terminating character (null-terminated strings or plain text lines), the empty string is indicated by the immediate use of this terminating character.  $\lambda$  representation Programming languages "" C, C#, C++, Go, Haskell, Java, JavaScript, Julia, Lua, M, Objective-C (as a C string), OCaml, Perl, PHP, Python, Ruby, Scala, Standard ML, Swift, Tcl, Visual Basic .NET " APL, Delphi, JavaScript, Lua, MATLAB, Pascal, Perl, PHP, Python, R, Ruby, Smalltalk, SQL character(0) R[3] {'\0'} C, C++, Objective-C (as a C string) std::string() C++ ""s C++ (since the 2014 standard) @" Objective-C (as a constant NSString object) [NSString string] Objective-C (as a new NSString object) q(), qq() Perl str() Python %{}%() Ruby string.Empty C#, Visual Basic .NET String.make 0 "" OCaml {} Tcl [[]] Lua Examples of empty strings This section needs expansion. You can help by adding to it. (March 2010) The empty string is a syntactically valid representation of zero in positional notation (in any base), which does not contain leading zeros. Since the empty string does not have a standard visual representation outside of formal language theory, the number zero is traditionally represented by a single decimal digit 0 instead. Zero-filled memory area, interpreted as a null-terminated string, is an empty string. Empty lines of text show the empty string. This can occur from two consecutive EOLs, as often occur in text files, and this is sometimes used in text processing to separate paragraphs, e.g. in MediaWiki. See also Empty set Null-terminated string Concatenation theory References ^ Corcoran, John; Frank, William; Maloney, Michael (1974). "String theory". *Journal of Symbolic Logic*. 39 (4): 625–637. doi:10.2307/2272846. JSTOR 2272846. ^ CSE1002 Lecture Notes – Lexicographic ^ There are two ways to create "empty strings" in R, the other is listed here as "". character(0) creates empty character vectors, which will output 0 when counted. Retrieved from " Lifestyle | Daily Life | News | The Sydney Morning HeraldWe're sorry, this feature is currently unavailable. We're working to restore it. Please try again later.





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