# [ASCII](https://www.geeksforgeeks.org/ascii-table/)

* It is a **character encoding standard for electronic communication**.
* ASCII codes are used to represent text in computers and telecom devices.
* **American Standard Code for Information Interchange (ASCII)** first launched in 1963.
* ASCII character are fixed width character encoding with each character represent by **7bit.**
* ASCII is used for **representing 128 English characters in the form of numbers**, with each letter being assigned to a specific number in the range 0 to 127.
* 0 – NUL, 48 – 0, 65 – A, 97 – a, 127 - DEL

[Unicode](https://www.geeksforgeeks.org/unicodedata-unicode-database-python/)

* **Universal Character Encoding (Unicode)** provides a unique way to define every character in every spoken language of the world by assigning it a unique number.
* The Unicode standard is maintained by the Unicode Consortium and defines more than **1,40,000 characters** from more than 150 modern and historic scripts along with emoji.
* Unicode can be defined with different character encoding like UTF-8(Unicode transformation format 8), UTF-16, UTF-32, etc.
* Among these UTF-8 is the most popular as it used in over 90% of websites on the World Wide Web as well as on most modern Operating systems like Windows.
* **UTF 8 each element is corresponding to 8-digit binary code (8 bits)**.