**INTRODUCTION**

Morse code is a method encode characters in a text as sequences of two different signal durations, called dots and dashes. Morse code was invented by Samuel F. B. Morse in the 1830s then advanced in the 1840s. Samuel Morse received a U.S. patent, US1647A, for dot-dash telegraphy signals on June 20, 1840.[1][2]

The International Morse Code encodes the 26 English letters A through Z, some non-English letters, the Arabic numerals and a small set of punctuation and procedural signals. There is no distinction between upper- case and lower-case letters. Each Morse code symbol is formed by a sequence of dots and dashes. The dot duration is the basic unit of time measurement in Morse code transmission. The duration of a dash is three times the duration of a dot. Each dot or dash within a character is followed by period of signal absence, called a space, equal to the dot duration. The letters of a word are separated by a space of duration equal to three dots, and the words are separated by a space equal to seven dots.[1]

Morse code is usually transmitted by on-off keying of an information-carrying medium such as electric current, radio waves, visible light, or sound waves. The current or wave is present during the time period of the dot or dash and absent during the time between dots and dashes. Even, it can be used with pen and paper or with the parts of the body like eyes or fingers. [1][2]

**“What hath God wrought”** is the first official message sent by Samuel F.B. Morse on May 24, 1844, to open the Baltimore - Washington telegraph line. [2]

In the past, Morse code had extensive usage, especially in the military. Although Morse code has a limited usage area today, it is still being used in aviation, amateur radio activities, and assistive technology (AT).[2]

Although Morse code had a steep learning curve in the past, thanks to modern applications like Morse code translator[4] or Gboard keyboard [3], it is easier to learn Morse code nowadays.

1 - <https://en.wikipedia.org/wiki/Morse_code>

2 - <https://morsedecoder.com/>