
Morse Code Communication

Learn to send and decode messages with Morse code using a telegraph key.

Introduction

This presentation focuses on the fun and interactive way to communicate using Morse code. You'll discover the basics of Morse code, how to use a telegraph key, and what you need to start sending messages.

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Basics



Introduction to Morse Code

- Morse code is a method of encoding text characters into sequences of short and long signals, known as dots and dashes. Each letter and numeral is represented by a unique combination of these signals. Morse code has been widely used for communication, especially in telegraphy, due to its simplicity and effectiveness.
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How the Telegraph Key Works

The telegraph key is a simple switch used to generate the signals for Morse code. When you press the key down, it completes a circuit, sending an electrical signal that can represent a dot or dash depending on the duration of the press. Releasing the key stops the signal, creating a space between letters and words. Understanding its operation is crucial for effective communication.

Common Signals and Their Meanings

Letter	Morse	Letter	Morse	Digit	Morse
A	.-	N	-.	0	-----
B	-...	O	---	1	.----
C	-.-.	P	.-..	2	..---
D	-..	Q	--.	3	...--
E	.	R	.-.	4-
F	..-.	S	...	5
G	--.	T	-	6	-....
H	U	..-	7	--...
I	..	V	...-	8	---..
J	.-.-	W	.-.-	9	-----
K	-.-	X	-.-.		
L	.-..	Y	-.--		
M	--	Z	--..		

Each letter in Morse code has a specific combination of dots and dashes. For instance, 'A' is represented by a dot followed by a dash (.-), 'B' by a dash followed by three dots (-...), and 'C' by a dash, a dot, a dash, and a dot (-.-.). Familiarizing yourself with these signals allows for effective communication and fun exchanges.

Real time Encoding / Decoding

- In this interactive learning program, the user chooses to either encode or decode.
- In encode mode, the system provides a text phrase; the user must enter the correct Morse code.
- In decode mode, the system provides a Morse code phrase; the user must enter the correct text.
- The system checks the answer and tells the user if it's correct or wrong, showing the correct answer if needed.
- This makes it an engaging way to practice Morse code translation.

Encode Mode (Text -> Morse Code)

- The system shows a random text message (eg: "SOS")
- The user must enter the correct Morse Cose translation (eg: "... --- ...")
- The program compares the user's input with the correct Morse Code
- It output's :
 - Correct – if the input matches
 - Incorrect – if the input is wrong

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System: Encode this text into Morse code: HELLO
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User: .... . .-.. .-.. ---
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System: Correct!
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Decode Mode (Morse Code-> Text)

- The system shows a random Morse code message (eg: "... --- ...")
- The user must enter the correct decoded text (eg: "SOS")
- The program compares the user's input with the correct text
- It output's :
 - Correct – if the input matches
 - Incorrect – if the input is wrong

System: Decode this Morse code:-... .-.. ---

User: HELLO

System: Correct!

Thank you!

Do you have any questions?

