

***LEARNING  
MORSE CODE***

# HISTORY OF MORSE CODE

1836 - the American artist Samuel F. B. Morse, the American physicist Joseph Henry, and Alfred Vail developed an electrical telegraph system. This system sent pulses of electric current along wires which controlled an electromagnet that was located at the receiving end of the telegraph system.

1844 - Morse sent his first telegraph message, from Washington, D.C., to Baltimore, Maryland

1844 - the pulses were used to make indentations on a paper tape when electric currents were received.

1861 - a telegraph line was completed across the Atlantic Ocean from the U.S. to Europe.

1890s - Morse code began to be used extensively for early radio communication.

December 12, 1901 - Guglielmo Marconi received a radio message sent from England at St. John's, Newfoundland.

Where did “CW” come from?

# Where did "CW" come from?

Commonly referred to as "continuous wave" or "CW" to distinguish it from spark transmissions, not because the transmission was continuous.

# Koch Method

Koch's method was invented by German psychologist Ludwig Koch in the 1930s.

Koch's method dictates that you should start learning at the desired speed - but you start with only two characters. Each session is five minutes long, and whenever you get 90% or more correct, you add another character.

# Farnsworth Method

Farnsworth timing was invented by Donald R. Farnsworth (W6TTB) in the late 1950s.

Using Farnsworth timing, characters are sent at the same speed as at higher speeds, while extra spacing is inserted between characters and words to slow the transmission down. The advantage of this is that you get used to recognizing characters at a higher speed, and thus it will be easier to increase the speed later on.

# Hearing words, not letters and numbers!

Learn the 100 most common words used in CW transmissions.  
Learn to recognize the words.

\_\_\_\_\_ De W6REC  
RST 599 599  
QTH Galt CA Galt CA  
Name Duane Duane  
Hw Cpy?  
De W6REC

Reference: <http://w6rec.com/duane/amateur/cw.htm>

# Code practice Computer software

Just Learn Morse Code - <http://www.justlearnmorsecode.com>

Koch CW Trainer - <http://www.g4fon.net/>

Morse Runner - <http://www.dxatlas.com/MorseRunner/>

Other resouces: <http://www.arrl.org/learning-morse-code>

# Code practice phone app's

Morse Machine for Ham Radio

IZ2UUF Morse Koch CW

Morse Mentor – Koch

Morse Code Trainer

Morse Code

Morse App

Morse Code CW

# Code practice hardware



MFJ-418 Pocket Morse Code Tutor

# On line code practice

Ham University - <http://hamuniversity.com/>

CW Academy - <http://www.cwops.org/cwacademy.html>

LCWO - <http://lcwo.net/>

RufzXP - <http://www.rufzxp.net/>

# On air code practice

ARRL Bulletins - <http://www.arrl.org/w1aw-operating-schedule>

Listen to a on air CW Conversations!!!

Make a CW contact. Send at a comfortable speed. They will slow down for you!

MOST IMPORTANT OF ALL

**Making the decision to learn  
and dedicating the time!!!**