



Beginning Morse Code

This is the font size of the presentation so make sure you can view it from your seat...

Hello

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Terminology *(for this presentation)*

- CW – continuous wave, the signal used to broadcast Morse code, often used interchangeably.
- QSO – an exchange between radio operators
- QRP – low power signal, typically less than 5 watts
- WPM – words per minute
- IMHO – In My Humble Opinion *(this entire presentation)*



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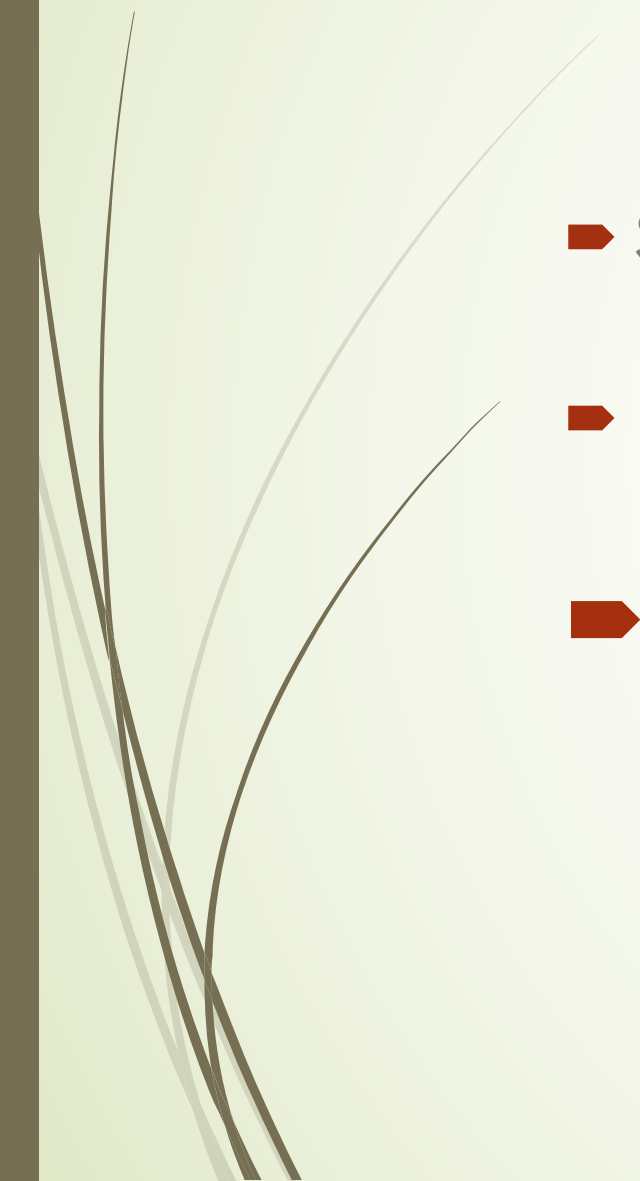


What is Morse Code?

- ▶ Samuel Morse
 - ▶ portrait painter
 - ▶ his wife
- ▶ 1844 American Morse Code
- ▶ Mission Impossible (*challenge*)



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- 



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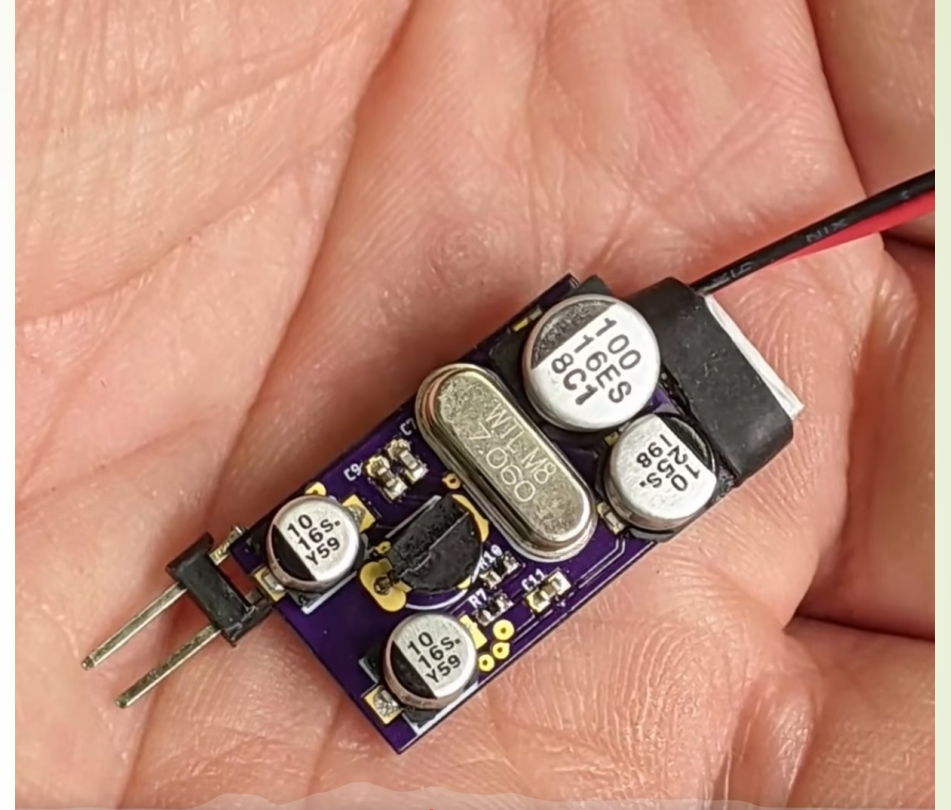
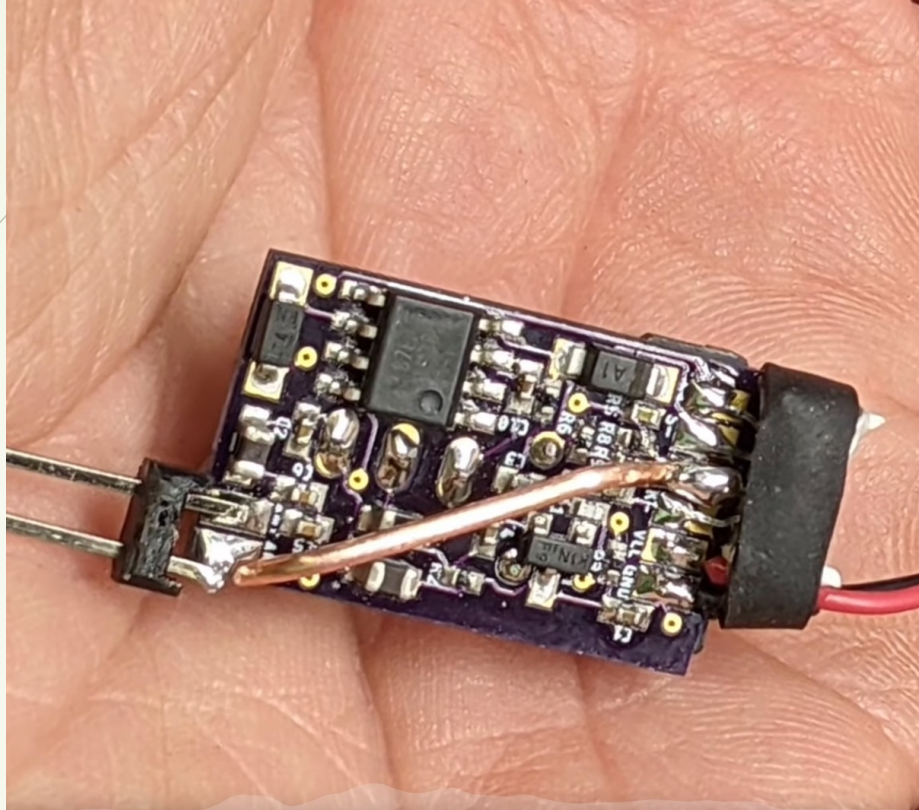


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Why Learn Morse Code

- All the cool kids are doing it. Challenging, Rewarding, Fun
- POTA / SOTA / IOTA
- More bang per watt – 3kHz vs 100Hz
 - DX
 - QRP & QRPp
- Gear can be small and simple and cheap (Pixie)



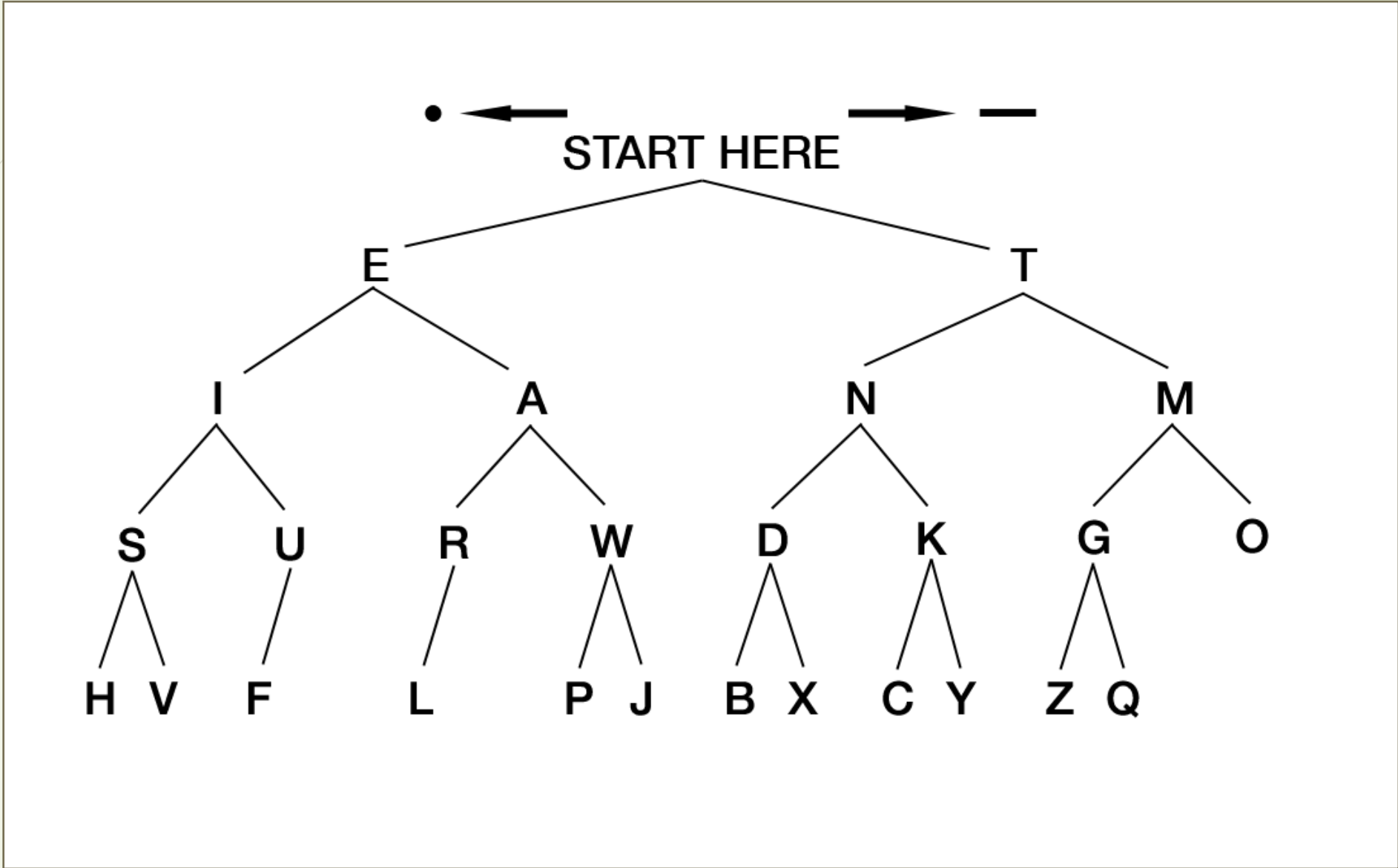


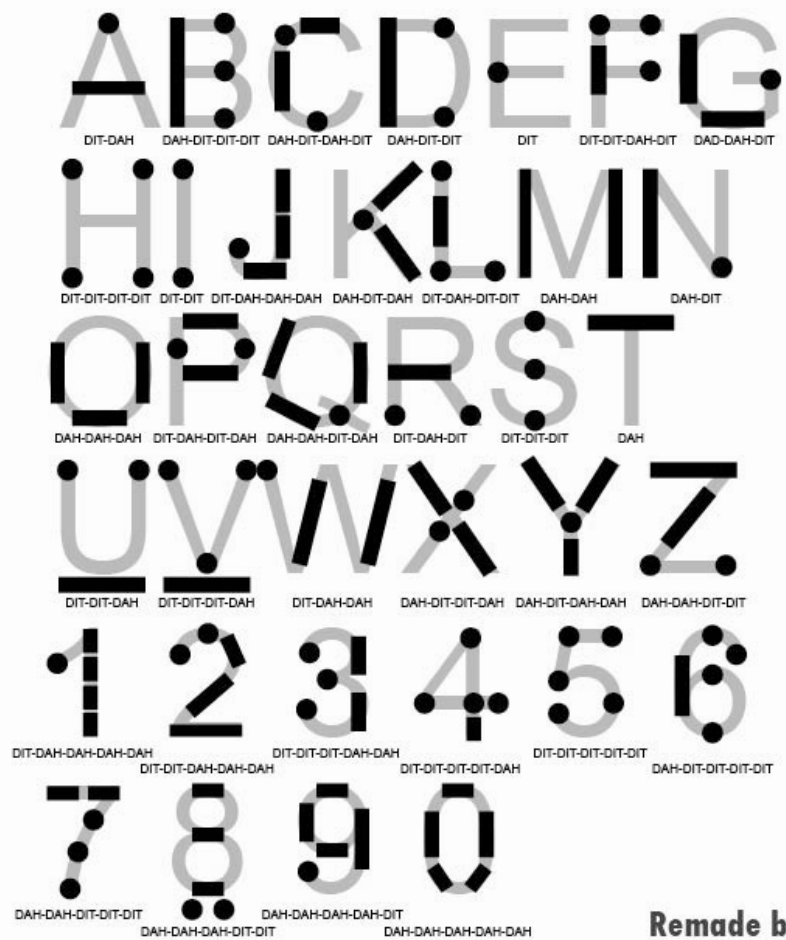
Micro SOTA - 850mW at 2.7g (penny)



How NOT To Learn Morse Code

- ▶ Morse code is an aural language, you need to learn it with your ears, **not your eyes**.
- ▶ Attempts to learn it using any visual means may work initially, but will most likely cause you to hit a wall when trying to increase your speed.





<http://www.learnmorsecode.info/2010/12/a-cool-new-way-to-learn-morse-code/>

Remade by
Fattredd



Eye



Firetruck



Giraffe



Hippo



Insect



Jet



Kite



Laboratory



Mustache



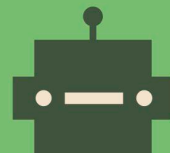
Net



Orchestra



Paddles





A ● ■ ■ ■
ALL A-BOARD
Muddy Waters

B ■ ■ ■ ● ● ●
BULL-ET THE BLUE SKY
U2

C ■ ■ ■ ● ■ ■ ●
CRA-ZY WORDS CRA-ZY TUNE
The Nitty Gritty Dirt Band

D ■ ■ ■ ● ●
DRAG-GIN' THE LINE
Tommy James

E ●
EYES
Rogue Wave

F ● ● ■ ■ ●
FULL MOON EMP-TY HEART
Belly

G ■ ■ ■ ■ ●
GO-ING GO-ING GONE
Information Society

H ● ● ● ●
HIT THE ROAD JACK
Ray Charles

I ● ●
I RAN
A Flock Of Seagulls

J ● ■ ■ ■ ■ ■
JOHN WES-LEY HARD-ING (mon-o)
Bob Dylan

K ■ ■ ■ ● ■ ■
KILL-ING ME SOFT-LY
The Fugees

L ● ■ ■ ■ ● ●
LOOK BE-FORE YOU CROSS
Evi-Edna Ogholi

M ■ ■ ■ ■
MAN-IC MON-DAY
The Bangles

N ■ ■ ■ ●
NO-WHERE MAN
The Beatles

O ■ ■ ■ ■ ■ ■
OR-ANGE BLOS-SOM SPEC-IAL
Johnny Cash

P ● ■ ■ ■ ■ ●
PINK LIT-MUS PA-PER SHIRT
Strange Turn

How To Learn Morse Code

➤ *Practice, Practice,
Practice, Practice, Practice,
Practice, Practice, Practice, ...*

(who has a roommate?)

➤ Methods

➤ Tools

➤ Tips





Methods



- ▶ Learn by sound of the letter, then eventually the sound of entire words (do not count dits & dahs)
- ▶ Farnsworth – target character speed and adjust character spacing
(20/10 is common, may need go to 30wpm)
- ▶ Koch – learn characters in certain order, start with two, add more as you become proficient



Helpful Tools

- Hardware (mostly sending)
 - Code Practice Oscillators
 - Decoders
 - Practice correct timing when learning to send with a straight key
 - Morserino-32 kit
 - CW Trainer, Echo Trainer, CW Decoder, CW Transceiver using LoRa or Internet
 - [qsobot.online](https://www.qsobot.com/)

Sending: Key vs Paddles

- ▶ When one uses a straight key, one must use precise timing since the code is produced by physical manipulation. A paddle is different from a straight key since the difference in timing between the “dits” and the “dashes” is built into the unit.





➤ Web

- lcwo.net
- longislandcwclub.org *
- morsecode.ninja *

➤ Mobile Apps

- Ham Morse
- Morse Toad
- Morse Machine
- Morse Mentor Pro
- Morse Mania

➤ Desktop Apps

- CW Trainer by G4FON

Some apps will send real QSOs, current headlines, and let you upload your own content.

They can also simulate real listening conditions such as band noise.

* Has list of training software.



Use both Koch and Farnsworth methods to benefit from both methods at the same time.



Practice 10-15 minutes twice a day. But remember, "The best practice is the one you will do!"



Track your progress. Some apps do this for you.



Learn to copy before learning to send.



CW operators will have "accents" so listen to real QSOs. *(no radio? websdr.org)*



If you struggle, seek an elmer.



Tips



MAY THE

MORSE

BE WITH YOU



Questions?

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