

# Morse Code Chart

International Morse Code · [quickref.site/morse-code-chart](http://quickref.site/morse-code-chart) · free to print & share

## LETTERS

|   |        |   |        |
|---|--------|---|--------|
| A | •—     | N | —•     |
| B | —...•  | O | — — —  |
| C | —•••   | P | •—••   |
| D | —••    | Q | —•—•   |
| E | •      | R | •—•    |
| F | ••—•   | S | •••    |
| G | —•••   | T | —      |
| H | ••••   | U | ••—    |
| I | ••     | V | •••—   |
| J | •— — — | W | •— —   |
| K | —•—    | X | —••—   |
| L | •—••   | Y | —•— —  |
| M | — —    | Z | — — •• |

## NUMBERS

|   |           |
|---|-----------|
| 0 | — — — — — |
| 1 | • — — — — |
| 2 | •• — — —  |
| 3 | ••• — —   |
| 4 | •••• —    |
| 5 | •••••     |
| 6 | —••••     |
| 7 | — —•••    |
| 8 | — — —••   |
| 9 | — — — —•  |

## PUNCTUATION

|   |          |
|---|----------|
| . | period   |
| , | comma    |
| ? | question |
| ! | exclaim  |
| / | slash    |
| ( | paren    |
| ) | paren    |
| & | and      |
| = | equals   |
| + | plus     |

## How the timing works

Dot (•) = 1 unit of time     Dash (—) = 3 units

Gap between symbols in a letter = 1 unit

Gap between letters = 3 units     Gap between words = 7 units

SOS = ••• — — ••• (sent as one continuous signal)