



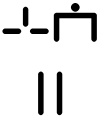
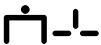




Toki pona new number system

V 0.05alpha

20240309 Saturday

Vocabulary

1	<i>wan</i>	1	<i>one</i>
2	<i>tu</i>		<i>two</i>
3	<i>sin</i>	└┐	<i>three</i>
4	<i>lipu</i>	□	<i>four</i>
5	<i>luka</i>	↷	<i>five</i>
6	<i>ma</i>	⊕	<i>six</i>
7	<i>ko</i>	☼	<i>seven</i>
8	<i>musi</i>	☹	<i>eight</i>
9	<i>poka</i>	└┐	<i>nine</i>
10	<i>sewi</i>	└┐	<i>10 (base) followed by integer powers (1 is implicit): 2, 3, 4,...</i>
20	<i>tu sewi</i>	└┐	<i>two * ten</i>

30	<i>sin sewi</i>		<i>three * ten</i>
100	<i>sewi tu</i>		10^2
300	<i>sin sewi tu</i>		<i>three * ten²</i>
1000	<i>sewi sin</i>		10^3
+	<i>en</i>		<i>sum symbol</i>
-	<i>weka</i>		<i>negative symbol</i>
.	<i>sike</i>		<i>separator for decimal part</i>
#	<i>nanpa</i>		<i>number</i>

This system is intended as a way of **reading** decimal numbers written with the digits 0 to 9 and included in toki pona texts.

nanpa

nanpa as a prefix should be used when it is not clear from the context that the following words express a number.

Non-additive numbers

Numbers are *non-additive* by default

120 = *wan tu ala*

2024 = *tu ala tu lipu*

Numbers as powers of 10

$$1000 = 10^3 = \textit{sewi sin}$$

$$10\,000 = 10^4 = \textit{sewi lipu}$$

...

$$1\,000\,000\,000 = 10^9 = \textit{sewi poka}$$

Composed numbers

The number to the left of *sewi* has multiplicative value.

The additive value of a number (sequence) is stated explicitly with *en*.

$$4\,000\,000\,012 = 4 * 10^9 + 12 = \textit{lipu sewi poka en wan tu}$$

Start of number sequence

End of number sequence(s) (optional)

la)

ni ↓

Decimal numbers

$$3.14 = \textit{sin sike wan lipu}$$

Discouraged readings

$$20 = \textit{sewi en sewi}, \text{ use } \textit{tu sewi}$$

$$100 = \textit{wan sewi tu}, \text{ use } \textit{sewi tu}$$

Dates

US system

May 12, 2024 = *tenpo mun luka ni tenpo suno wan tu ni tenpo sike tu ala tu lipu la*

ISO 8601 system

2024-05-12 = *tenpo sike tu ala tu lipu ni tenpo mun luka ni tenpo suno wan tu la*