Octalang

☙ Specification of a constructed language ☙

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Octalang is a constructed language which adopts every other language. It does this by converting a source text's characters' values[*] into octal numerals, where each digit corresponds to a letter in Octalang. Thus, Octalang inherits the source language's grammar and lexicon. Therefore, every language is considered as a dialect of Octalang.

Language

The alphabet in Octalang is an association between the digits in the octal numeral system and the letters of Octalang.

Digit	Letter	IPA
0	ɵ	⟨u⟩
1	ǫ	⟨o⟩
2	o	⟨ǫ⟩
3	ô	⟨ɔ⟩
4	ǫ̂	⟨ɒ⟩
5	ǫ̣̂	⟨ɑ⟩
6	ɵ̂	⟨ä⟩
7	ø̂	⟨a⟩

Table 1: Octalang's alphabet

letters are organized into groups by denoting enclosing brackets, semantically a group corresponds to an octal numeral (and thus a character). A succession of non-separated groups is called a lexeme.

lexemes are separated with single splits (/).

Translating to and from **Octalang**

The translation to Octalang takes the following steps:

1. All non-letters from the source text are replaced with splits.

2. Each symbol is converted into its value as an octal numeral.

3. The numerals are translated into Octalang letters and are grouped accordingly.

4. Preceding and succeeding splits are removed, multiple splits in succession are removed.

The translation from Octalang will naturally be the opposite procedure, though it will result in loss of information due to the homogeneous treatment of non-letters. splits are commonly translated to spaces.

FAQ[†]

- Is this really a language? Probably not, so do not think too much about it.

- How is this language useful? No idea.

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[*]In accordance to Unicode.

[†]No one has asked me anything.

The English **Octalang** alphabet

As an example, we will show the English alphabet as represented in Octalang:

Upper	Octal value	**Group**	Lower	Octal value	**Group**
A	101	(ọθọ)	a	141	(ọộọ)
B	102	(ọθo)	b	142	(ọộo)
C	103	(ọθô)	c	143	(ọộô)
D	104	(ọθộ)	d	144	(ọộộ)
E	105	(ọθộ)	e	145	(ọộộ)
F	106	(ọθê)	f	146	(ọộê)
G	107	(ọθǿ)	g	147	(ọộǿ)
H	110	(ọọθ)	h	150	(ọộθ)
I	111	(ọọọ)	i	151	(ọộọ)
J	112	(ọọo)	j	152	(ọộo)
K	113	(ọọô)	k	153	(ọộô)
L	114	(ọọộ)	l	154	(ọộộ)
M	115	(ọọộ)	m	155	(ọộộ)
N	116	(ọọê)	n	156	(ọộê)
O	117	(ọọǿ)	o	157	(ọộǿ)
P	120	(ọoθ)	p	160	(ọêθ)
Q	121	(ọoọ)	q	161	(ọêọ)
R	122	(ọoo)	r	162	(ọêo)
S	123	(ọoô)	s	163	(ọêô)
T	124	(ọoộ)	t	164	(ọêộ)
U	125	(ọoộ)	u	165	(ọêộ)
V	126	(ọoê)	v	166	(ọêê)
W	127	(ọoǿ)	w	167	(ọêǿ)
X	130	(ọôθ)	x	170	(ọǿθ)
Y	131	(ọôọ)	y	171	(ọǿọ)
Z	132	(ọôo)	z	172	(ọǿo)

Table 2: The English alphabet in Octalang.

Hello World, as is tradition

Naturally, we will round off this specification with a traditional **Hello World** example:

(ọọθ)(ọộộ)(ọộộ)(ọộộ)(ọộǿ)/(ọoǿ)(ọộǿ)(ọêo)(ọộộ)(ọộộ)

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