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Documentation — Romanization of Japanese (*kana* script)

Documentation — Romanisation du japonais (écriture en kana)



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Foreword

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Introduction

Standards on conversion of systems of writing

This International Standard is one of a series of International Standards dealing with the conversion of systems of writing. The aim of this International Standard and others in the series is to provide a means for international communication of written messages in a form which permits the automatic transmission and reconstitution of these by men or machines. The system of conversion must, in this case, be univocal and entirely reversible.

This means that no consideration should be given to phonetic and aesthetic matters nor to certain national customs; all these considerations are ignored by the machine performing the function.

The adoption of this International Standard for international communication leaves every country free to adopt, for its own use, a national standard which may be different, on condition that it be compatible with this International Standard. The system proposed herein should make this possible, and be acceptable for international use if the graphisms it creates are such that they may be converted automatically into the graphisms used in any strict national system.

This International Standard may be used by anyone who has a clear understanding of the system and is certain that it can be applied without ambiguity. The result obtained will not give a correct pronunciation of the original text in a person's own language; but it will serve as a means of finding automatically the original graphism and thus allow anyone who has a knowledge of the original language to pronounce it correctly. Similarly, one can only pronounce a text written in, for example, English or Polish correctly, if one has a knowledge of English or Polish.

The adoption of national standards compatible with this International Standard will permit the representation, in an international publication, of the morphemes of each language according to the customs of the country where it is spoken. It will be possible to simplify this representation in order to take into account the number of the character sets available on different kinds of machines.

General principles of conversion of writing systems

Definitions and methods

The words in a language, which are written according to a given script (the converted system), sometimes have to be rendered according to a different system (the conversion system), normally used for a different language. This procedure is often used for historical or geographical texts, cartographical documents and, in particular, bibliographical work where characters must be converted from different writing systems into a single alphabet to allow for alphabetical intercalation in bibliographies, catalogues, indexes, toponymic lists, etc.

It is indispensable in that it permits the univocal transmission of a written message between two countries using different writing systems or exchanging a message the writing of which is different from their own.

It thereby permits transmission by manual, mechanical, as well as electronic means.

The two basic methods of conversion of a system of writing are transliteration and transcription.

Transliteration is the process which consists of representing the characters¹⁾ of an alphabetical or syllabic writing by the characters of a conversion alphabet.

In principle, this conversion should be made character by character: each character of the converted graphical system is rendered by only one character of the conversion alphabet, this being the easiest way to ensure the complete and unambiguous reversibility of the conversion alphabet in the converted system.

When the number of characters used in the conversion system is smaller than the number of characters of the converted system, it is necessary to use digraph or diacritical marks. In this case one must avoid as far as possible arbitrary choice and the use of purely conventional marks, and try to maintain a certain phonetic logic to give the system a wide acceptance.

It must be accepted, however, that the graphism obtained may not always be correctly pronounced according to the phonetic habits of the language (or of the languages) which usually use(s) the conversion alphabet. On the other hand this graphism must be such that the reader who has a knowledge of the converted language may mentally restore unequivocally the original graphism and thus pronounce it.

Retransliteration is the process whereby the characters of a conversion alphabet are transformed back into those of the converted writing system. It is the exact opposite of the transliteration process in that the rules of a transliteration system are applied in reverse in order to reconvert the transliterated word to its original form.

Transcription is the process whereby the pronunciation of a given language is noted by the system of signs of a conversion language. A transcription system is of necessity based on the orthographical conversions of the conversion language. Transcription is not strictly reversible.

Transcription may be used for the conversion of all writing systems. It is the only method that can be used for systems that are not entirely alphabetical or syllabic and for all ideophonographical systems of writing such as Chinese.

To carry out **romanization**, the conversion of non-Latin writing systems to the Latin alphabet, either transliteration or transcription or a combination of the two may be used depending on the nature of the converted system.

A conversion system proposed for international use may call for compromise and the sacrifice of certain national customs. It is therefore necessary for each community of users to accept concessions, fully abstaining in every case from imposing as a matter of course solutions that are actually justified only by national practice (for example as regards pronunciation, orthography, etc.).

When a country uses two systems univocally convertible one into the other to write its own language, the system of transliteration thus implemented must be taken *a priori* as a basis for the international standardized system, as far as it is compatible with the other principles exposed hereinafter.

Where necessary, the conversion systems should specify an equivalent for each character, not only the letters but also the punctuation marks, numbers, etc. They should similarly take into account the arrangement of the sequence of characters that make up the text, for example the direction of the script, and specify the way of distinguishing words and of using separation signs, following as closely as possible the customs of the language(s) which use the converted writing system.

1) A character is an element of an alphabetical or other type of writing system that graphically represents a phoneme, a syllable, a word or even a prosodical characteristic of a given language. It is used either alone (e.g. a letter, a syllabic sign, an ideographical character, a digit, a punctuation mark) or in combination (e.g. an accent, a diacritical mark). A letter having an accent or a diacritical mark, for example â, è, ö, is therefore a character in the same way as a basic letter.

When romanizing a script which has no upper case characters, it is usual to capitalize some words, following national practice.

Principles of conversion for syllabaries

In syllabic systems of writing, the syllabic character, corresponding to the notation of a syllable within a given language, is the significant graphical unit.

A syllabary is the set of syllabic characters in use to write down a language with a syllabic writing system.

A syllabic character can be comprised of only one elementary sign, or of two or more signs which are combined or juxtaposed. A system in which a given elementary sign regularly receives the same value in any character where it appears (exception being taken from the phonetic evolution of the language) allows for a reversible transliteration.

A syllabic character has to be globally converted, taking account of the function of each elementary sign in the whole character, but not sign by sign. So an elementary sign may receive in the conversion system different equivalences, depending on the category of the syllabic character to which it pertains. The transliteration table of a syllabary assigns a biunivocal equivalent to each character, so ensuring a complete reversibility.

If a language using a syllabic system of writing is usually written without rules governing the division between characters and/or words, the conversion system must include such rules taking account of the morphological and grammatical structure of the language.

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Documentation — Romanization of Japanese (*kana* script)

1 Scope

This International Standard establishes a system for the romanization of the present-day Japanese written language. Unrestricted application for the system requires that the romanizer possess a detailed knowledge of the language in its present-day written form.

2 Explanations and definitions

Japanese writing is composed of Chinese characters, *kanji*, and syllabic Japanese script, *kana*. Although *kana* can express every syllable in Japanese, according to the *kanazukai* rule, common Japanese documents mix Chinese characters and *kana*. The way of sharing the task to express a certain idea by *kanji* and *kana* is governed by the *onkunhyō* table and the *okurigana* rule.

There are two types of *kana*: *hiragana* and *katakana*. Most Japanese words expressed by *kana* employ *hiragana*, and *katakana* is used only for non-Chinese loan words, onomatopoeia and in certain special cases where it is necessary to stress the word. There is a one-to-one correspondence between *hiragana* and *katakana*.

This International Standard refers only to the transcription of *kana* into the Latin alphabet. It gives no direct way to transcribe either *kanji* or the mixture of *kanji* and *kana* into the Latin alphabet. Romanizers are expected to know the rules governing the relations between *kanji* and *kana*.

3 System employed

3.1 The system of romanization employed shall be that generally known as *kunreisiki*, as it appears in table 1, table 2, table 3a and table 3b. Owing to some characteristics of the *kana* script, this system of conversion is not strictly reversible.

3.2 These tables exclude some special signs expressing dialect and foreign sounds in *kana*.

4 Morpheme boundaries

In certain exceptional cases, two *kana* scripts can be regarded as either forming a digraph denoting one syllable or representing two independent syllables. A train of three *kana* scripts こうし, for example, containing a digraph こう and し, can be interpreted as representing the word "*kōsi*", meaning "lattice", or "*kousi*", meaning "calf". In Japanese dictionaries, the separation of a digraph is shown by some mark, e.g. a dot or a hyphen. Thus the above example may be shown by こ・うし for "*kousi*", and こうし for "*kōsi*".

5 General rules of application

5.1 Word division

In all Japanese documents, a sentence in *kanji* and *kana* is spelt in a sequence without divisions by words, in romanized Japanese texts separation into words is necessary.

5.2 Capitalization

Initial capital letters are used at the beginning of a sentence and for all proper nouns, following national practice.

5.3 Letter "n" at the end of a syllable

When preceding a vowel or "y" in the same word, an "n" (*kana* ん or ン) ending a syllable is followed by an apostrophe; for example, *kan'ō* ("cherry-blossom viewing"), *kin'yū* ("finance"). When the "n" initiates a syllable, it is written without an apostrophe; e.g. *kinyū* ("entry"), *kanō* ("possible").

5.4 Doubled consonants

If small-sized っ (character 72 of table 1) is used before a syllable beginning with a consonant (e.g. こ = *ko*), this sign is written slightly to the right of centre (or slightly lower when writing sideways); it is then transcribed by the duplication of that consonant, e.g. がっこう = *gakkô*.

5.5 Long vowels

In *kana* spelling, long vowels are represented by certain digraphs (see table 3a) or trigraphs (see table 3b). There are, however, exceptional cases in *kana* spelling where digraphs do not represent real digraphs but two independent syllables for the reasons given in clause 4. Whenever doubtful, it is recommended to consult a dictionary.

In romanization, long vowels are shown by the addition of a circumflex to the vowel, e.g. a long *o* becomes *ô*.

In borrowed words shown in *katakana*, a lengthening bar (ー) is used after the *kana* script, e.g. カー (not カア) = *kâ*, ビール (not ビイル) = *bîru*, and ソース (not ソオス nor ソウス) = *sôsu*.

These bars are always transcribed by a circumflex.

6 Punctuation

Usual Japanese punctuation marks are transcribed as follows:

Japanese marks	Latin marks
。	. (Full stop)
、	, (Comma)
・	- (Hyphen or space)
「	“ (Left quotation mark)
」	” (Right quotation mark)
(	((Left parenthesis)
)	) (Right parenthesis)

NOTE — A scheme for stringent transliteration would differ from this transcription system on the following items:

Table 1, characters 26 and 29 would be romanized always as *ha* and *he* respectively.

Table 1, character 45 would be written as *wo*.

Table 1, characters 58 and 59 would be written as *di* and *du* respectively.

Table 2, characters 28, 29 and 30 would be written as *dya*, *dyl* and *dyl* respectively.

In 5.5, the lengthening bar would be transliterated by a macron on the preceding vowel, e.g. *bîru*.

Table 1 — Simple *kana* signs representing non-palatalized syllables

No.	H	K	R	No.	H	K	R	No.	H	K	R	No.	H	K	R	No.	H	K	R
1	あ	ア	a	2	い	イ	i	3	う	ウ	u	4	え	エ	e	5	お	オ	o
6	か	カ	ka	7	き	キ	ki	8	く	ク	ku	9	け	ケ	ke	10	こ	コ	ko
11	さ	サ	sa	12	し	シ	si	13	す	ス	su	14	せ	セ	se	15	そ	ソ	so
16	た	タ	ta	17	ち	チ	ti	18	つ	ツ	tu	19	て	テ	te	20	と	ト	to
21	な	ナ	na	22	に	ニ	ni	23	ぬ	ヌ	nu	24	ね	ネ	ne	25	の	ノ	no
26	は	ハ	ha ¹⁾	27	ひ	ヒ	hi	28	ふ	フ	fu	29	へ	ヘ	he ²⁾	30	ほ	ホ	ho
31	ま	マ	ma	32	み	ミ	mi	33	む	ム	mu	34	め	メ	me	35	も	モ	mo
36	や	ヤ	ya	—	—	—	—	37	ゆ	ユ	yu	—	—	—	—	38	よ	ヨ	yo
39	ら	ラ	ra	40	り	リ	ri	41	る	ル	ru	42	れ	レ	re	43	ろ	ロ	ro
44	わ	ワ	wa	—	—	—	—	—	—	—	—	—	—	—	—	45	を	ヲ	o ³⁾
																46	ん	ン	n
47	が	ガ	ga	48	ぎ	ギ	gi	49	ぐ	グ	gu	50	げ	ゲ	ge	51	ご	ゴ	go
52	ざ	ザ	za	53	じ	ジ	zi	54	ず	ズ	zu	55	ぜ	ゼ	ze	56	ぞ	ゾ	zo
57	だ	ダ	da	58	ぢ	ヂ	zi ⁴⁾	59	づ	ヅ	zu ⁴⁾	60	で	デ	de	61	ど	ド	do
62	ば	バ	ba	63	び	ビ	bi	64	ぶ	ブ	bu	65	べ	ベ	be	66	ぼ	ボ	bo
67	ぱ	パ	pa	68	ぴ	ピ	pi	69	ぷ	プ	pu	70	ぺ	ペ	pe	71	ぽ	ポ	po
								72	っ	ッ	— ⁵⁾								

Legend: H = *hiragana*K = *katakana*R = *romanized*1) Romanized *wa* when used for the grammatical particle so pronounced.2) Romanized *e* when used for the grammatical particle so pronounced.3) を (ヲ) is used only for the grammatical particle denoting direct object complement, but romanized *o*.4) ぢ (ヂ) and づ (ヅ) are used as voiced ち (チ) and つ (ツ) when adjacent to ち (チ) and つ (ツ) respectively or in certain compound words but they are romanized into *zi* and *zu* respectively.

5) Used to double a consonant; see 5.4.