

MORPHOLOGY AND SYNTAX IN HOLES AND SCRATCHES: THE LATEST STAGE OF *KUGYOL* RESEARCH

LEE Yong

Korea Foundation & University of Ljubljana
leeyonghu@hotmail.com

Abstract

The first part of this article reviews the differences between the Chinese, Korean and Japanese languages, and explains the importance of Buddhist texts in the history of these languages, especially in the development of written languages in Korea and Japan. The *kugyol* tradition (a convention for adding Korean grammatical markers at appropriate places to aid the reading of originally Chinese texts) is then explained with concrete examples in three parts: *eumdok kugyol* (transliteration *kugyol*), *seokdok kugyol* (translation *kugyol*), and *jeomto seokdok-kugyol* (translation *kugyol* with point marks). The latest developments in *kugyol* research were seen in the 21st century, after the discovery of *Yugasijiron* in the year 2000, including the detailed point maps. Some questions concerning the *jeomto seokdok-kugyol* are still open.

Keywords

interpretation of Buddhist texts, Korean, classic Chinese, *eumdok kugyol*, *seokdok kugyol*, *jeomto kugyol*, *jeomto*

Izvilleček

Prvi del članka obravnava razlike med kitajskim, korejskim in japonskim jezikom ter poudarja pomembnost budističnih besedil v zgodovini omenjenih jezikov, zlasti pri oblikovanju pisnih jezikov v Koreji in na Japonskem. V glavnem delu razlaga tradicijo *kugyol* (konvencijo, po kateri se dodajajo slovnični znaki na ustreznih mestih kot pomoč pri branju prvotno kitajskih besedil) z dejanskimi primeri v treh delih: *eumdok kugyol* (transliteracijski *kugyol*), *seokdok kugyol* (prevajalski *kugyol*) in *jeomto seokdok-kugyol* (prevajalski *kugyol* z dodajanjem pik). Najnovejše v raziskavi *kugyol* tradicije je bilo narejeno v tem stoletju, po odkritju *Yugasijiron* v letu 2000, npr. Podrobna porazdelitev pik idr. Nekatera vprašanja v zvezi z *jeomto seokdok-kugyol* ostajajo odprta.

Ključne besede

interpretacija budističnih besedil, korejščina, klasična kitajščina, *eumdok kugyol*, *seokdok kugyol*, *jeomto kugyol*, *jeomto*

1. Introduction (Historical background)

At present, each of the three countries of East Asia, China, Korea and Japan, has its own independent writing system. Before the 7th century however, the Korean and Japanese peoples, though they possessed their own languages, had no writing systems of their own. Later, they developed their own writing systems, based on Chinese characters. This paper is related to the history of the development of these writing systems.

The languages of these three peoples differ. Typologically speaking, Chinese is an SVO language but Korean and Japanese are SOV languages. In addition, Korean and Japanese are different in many respects, and there exists no concrete theory to prove that they are related in the sense of European comparative linguistics.

In general, literature written in Korea falls into three categories: 1) works written in the early transcription systems, 2) those written in *hangul*, and 3) those written in Chinese. (cf. Encyclopaedia Britannica, Academic Edition) In this article, we will concentrate on the first category of Korean writings of which the content is typically Buddhist teachings from 8th century on.

Some Buddhist texts are common to both Korean and Japanese. Korean and Japanese scholars from around the 6th century and later were eager to learn from China in order to unite their peoples. Buddhism was one of the strongest means available. However, the original Buddhist teachings written in Chinese needed translation and interpretation into languages which were otherwise spoken among people but had no writing system of their own. It means that the interpretation of Buddhism coincided with the formation of the written languages of these peoples.

The understanding of Korean *kugyol* tradition may demonstrate how a nation may develop devices in order to understand foreign data when lacking their own writing system. These devices are characterized by additions of phonetic, semantic and syntactic markers made by brush and ink, as well as holes and scratches made by a stylus on paper.

2. Modern writing systems of China, Korea and Japan

Firstly, we need to examine simple sentences in today's Chinese, Korean and Japanese to demonstrate how they differ, especially syntactically. See example sentences below:

(1) Chinese: 我 愛 你
wǒ ai nǐ
I to love you
"I love you."

- (2) Korean: 나 는 너 를 사랑하 ㄴ다.
 Na nin nə ril sarangha nda
 I [topic] you [acc] to love [ending marker]
 “I love you.”
- (3) Japanese: 私 は あなた を 愛し ます。
 Watasi wa anata o aisi masu
 I [topic] you [acc] to love [ending marker]
 “I love you.”

As we can see, Korean and Japanese sentences are rather similar in word order, SOV, and the functions of particles (or postpositions). On the other hand, Chinese has no such particles, and the word order is SVO.

As for the letters and characters, while the Chinese have used logographic characters since around 3000 years B.C., the Japanese have retained some logographic Chinese characters which are used today in combination with syllabic characters called *kana*. This Japanese system has developed from the 8th century on and is generally still in use. The Koreans today use *hangul*, which has developed since the 15th century, a phonemic alphabet organized into syllabic blocks (cf. example sentence (2) above and Figure 1 below).

Letters (consonants)	sound value	letters (vowel)	sound value
ㄱ	[g, k]	ㅏ	[a]
ㄴ	[n]	ㅑ	[ya]
ㄷ	[d, t]	ㅓ	[ə]
ㄹ	[r, l]	ㅕ	[yə]
ㄴ	[m]	ㅗ	[o]
ㅂ	[b, p]	ㅛ	[yo]
ㅅ	[s]	ㅜ	[u]
ㅇ	[ŋ]	ㅠ	[yu]
ㅈ	[tʃ/tʃʰ]	ㅡ	[i]
ㅊ	[tʃʰ]	ㅣ	[i]
ㅋ	[kʰ]		
ㅌ	[tʰ]		
ㅍ	[pʰ]		
ㅎ	[h]		

Figure 1 hangul alphabet

Each block of hangul letters consists of at least two of the 24 *hangul* letters (*jamo* 字母), with at least one each of the 14 consonants and 10 vowels. These syllabic blocks can be written horizontally from left to right, as well as vertically from top to bottom in columns from right to left.

But before the development of this *hangul* system, the Koreans started writing down their language around the 5th century by using Chinese characters. Then they developed their own transcription systems, *idu*¹, *hyangchal*² and *kugyol*. The present article examines the *kugyol* system.

3. *Kugyol* (口訣)

Kugyol has two kinds of meaning. One refers to the letters which are used in *kugyol* texts. The second refers to texts with *kugyol* letters. In the former case, *kugyol* were the Korean markers added to purely Chinese text (Chung, 2003). In Korea, when reading a text written in literary Chinese, there was a convention for adding Korean grammatical elements at appropriate places to aid the reading of the text. These added elements were called *kugyol*. In other words, *kugyol* letters were the devices used to read and understand Chinese texts (Kim, 2001). Usually, a *kugyol* letter is made by taking a part of an original Chinese character and it is then slightly changed in form to form a *kugyol* marker : ex. ㄴ, ㄷ, ㅁ. The principle of the formation of *kugyol* letters

closely resembles the formation of *kana* in Japanese. (See Figure 2 and Figure 3.)

去 去	在 ナ	古 口	果 人	示 示	這 道	只 ハ	乃 乃	奴 又	臥 ト	飛 モ	隱 ㄱ	
多 一	丁 丁	刀 刀	知 矢	入 の	冬 冬	矣 ム	羅 四	以 ...	令 令	利 牙	尸 尸	
乙 し	竹 竹	弥 分	毛 毛	音 音/立	邑 邑	火 火	沙 シ	示 ニ	叱 セ	良 リ	亦 亦	
良 人	乎 ウ	于 于	衣 衣	是 リ	弋 弋	齊 齊	下 下	乎 ノ	乎 ノ	兮 兮	為 為	中 十

Figure 2 *Seokdok-kugyol* letters and original Chinese characters

¹ *Idu* is an archaic writing system that represents the Korean language by using hanja (Chinese characters). The term *idu* is used in two senses. It may refer to various systems of representing Korean phonology through Chinese characters. In this sense it includes *hyangchal* and *kugyol* writing. In the narrower sense it refers solely to the system which was used in official documents.

² *Hyangchal* is the most highly developed form of Korean transcription in Chinese characters. It can be found in the vernacular poetry known as *hangga*.

Figure 3 Kana letters and original Chinese characters
 Chinese characters
 (<http://en.wikipedia.org/wiki/Kana>)

ア	阿	イ	伊	ウ	宇	エ	江	オ	於
カ	加	キ	機	ク	久	ケ	介	コ	己
サ	散	シ	之	ス	須	セ	世	ソ	曾
タ	多	チ	千	ツ	川	テ	天	ト	止
ナ	奈	ニ	仁	ヌ	奴	ネ	祿	ノ	乃
ハ	八	ヒ	比	フ	不	ヘ	部	ホ	保
マ	末	ミ	三	ム	牟	メ	女	モ	毛
ヤ	也	レ	以	ユ	由	イ	衣	ヨ	与
ラ	良	リ	利	ル	流	レ	礼	ロ	呂
ワ	和	牛	井	于	宇	エ	惠	ヲ	乎
				ン	尔				

The *kugyol* letters were used to denote grammatical elements and inserted into originally Chinese texts for easier interpretation among Koreans. There are largely two kinds of *kugyol* texts in Korea. One is *eumdok kugyol* (=transliteration *kugyol*), the other is *seokdok kugyol* (=translation *kugyol*); the latter are older than the former. The oldest text with *kugyol* interpretation is *Hwaeommuneuiyogyeol* (華嚴文義要訣), the annotation of the *Hwaeomkyeong*³. The Korean original of *Hwaeommuneuiyogyeol* is lost but a copy has existed in Japan since the 8th century.

There exist many Buddhist sutras in Korea, all of them with *kugyol* interpretation using *kugyol* letters. Of these, five *seokdok-kugyol* texts are especially important in *kugyol* study.⁴ One of the representative texts with *kugyol* is *Kuemkwangmyeonggyeong* (金光明經).⁵ *Kuemkwang-myeonggyeong* includes *seokdok* and *jeomto kugyol*. We will explain this point in the next chapter.

³ *Hwaeumkyeong* (華嚴經, *The Avataṃsaka Sūtra*) is one of the most influential Mahayana Sutras of East Asian Buddhism. The title is rendered in English as *Flower Garland Sutra*, *Flower Adornment Sutra*, or *Flower Ornament Scripture*. *The Avataṃsaka Sūtra* describes a cosmos of infinite realms upon realms, mutually containing one other.

⁴ These are five *seokdok kugyol* texts.

1) *Taebanggwangbul-hwaeomkyeongso* (大方廣佛華嚴經), vol. 35. Xylographic book, Presumed to be a 12th century publication.

2) *Taebanggwangbul-hwaeomkyong* (大方廣佛華嚴經), vol. 14. Xylographic book. Presumed to be a late 12th-early 13th century publication.

3) *Keumkwangmyeonggyeong* (金光明經), vol. 3. Xylographic book. Presumed to be a 13th century publication, and considered to have belonged to the same category as *Yugasajiron*. The first and the last two pages of the volume are assumed to have been written by a different writer from the rest of the text.

4) *Kuyoek-inwanggyong* (舊譯仁王經) vol. 1. Xylographic book. Only 5 page remain. 25 lines per page, and 17 characters per line. Presumed to have been written in the 13th century.

5) *Yugasajiron* (瑜伽師地論 *Yogācārabhūmi-śāstra*), also known as *Discourse on the Stages of Yogic Practice* is the encyclopaedic and definitive text of the Yogācāra school of Buddhism. It is thought to have been composed in India between 300 and 350 CE. Vol. 20. Xylographic book. This book shows the latest linguistic characteristics among the existing *Seokdok-kugyol* material.

⁵ *Kuemkwangmyeonggyeong* (金光明經, *The Suvarṇaprabhāsa-sūtra*) is a Buddhist text of the Mahayana branch of Buddhism. Its first reading as a court ceremony was around 660 AD, when the Tang Dynasty of China and Silla (新羅) of Korea had defeated Baekche (百濟) of Korea and were threatening Japan.

In the following sections, we will explain exactly how the system of *kugyol* interpretation is organized.

3.1 *Eumdok kugyol* (=Transliteration *kugyol*, 音讀口訣)

Let us look at an example of *eumdok kugyol* from the *Analects of Confucius*.⁶ (See Figure 4)



Here we can see two *kugyol* letters. One is ㅈ and the other is ㅍ. The former has the meaning ‘if’ in English and the latter has the function of interrogative marker. The main characteristic of the *eumdok-kugyol* is the position of *kugyol* letters at the end of each phrase or sentence. As we see, the main functions of *eumdok-kugyol* letters are case markers and sentence ending markers.

The *eumdok-kugyol* letters were used from the end of the Goryeo dynasty (13th century) to the Chosun dynasty (14-20th century). These *eumdok-kugyol* texts were studied only by a handful of people.

Figure 4 An example from the Analects

(4a) classical Chinese:

學 而 時 習 之 不 亦 悅 乎
to learn and time, often to learn it not too glad [interrogative]
“Is it not pleasant to learn with constant perseverance and application?”

(4b) with *eumdok-kugyol* :

學 而 時 習 之 ㅈ 不 亦 悅 乎 ㅍ
to learn and time, often to learn [if, ㅈ[myen]] not too glad [interrogative, ㅍ[a]]
“Is it not pleasant to learn with constant perseverance and application?”

(4c) Korean translation:

배우 고 때때로 익히 면 또한 기쁘지 아니 한가?
to learn and time, often to learn if too glad not [interrogative]
“Is it not pleasant to learn with constant perseverance and application?”

⁶ *Noneo* 論語 (*Lún Yǔ*, English: *Analects*), also known as *the Analects of Confucius*, are considered a record of the words and acts of the central Chinese thinker and philosopher Confucius and his disciples, as well as the discussions they held. Written during the Spring and Autumn Period through the Warring States Period (ca. 475 BCE - 221 BCE).

3.2 Seokdok-kugyol (=Translation kugyol, 釋讀口訣)

The discovery of *Kuyeok-inwangkyeong* (舊譯仁王經) (See Figure 5, footnote 4, number 4) which is one of *seokdok-kugyol* texts changed the situation in the study of *kugyol*. This text was found in the temple *Chungcheongnamdo seosan munsu* (忠清南道 瑞山 文殊寺) in 1973. Scholars saw that the *kugyol* in this text was more complicated and detailed than *eumdok kugyol*. The *seokdok-kugyol* system has the following characteristics:

- *Kugyol* letters are placed not only on the right, but also on the left side of the original rows of Chinese text.
- There are some purely syntactic markers which are never pronounced (and they mean “do read”, “skip reading”, “return and read the skipped part now” etc.)
- *Seokdok-kugyol* markers are introduced to point out the meaning of the original Chinese character and instruct for phonetically Korean reading.
- Additional markers are introduced for modality, aspect etc. to be read in Korean.

Below is an example of Chinese classics read in Korean with *kugyol* devices. To read *kugyol* texts, we need to know the following rules:

- *kugyol* letters on the right side must be read in the first phase,
- *kugyol* letters on the left side must be skipped in the first phase,
- the reversal mark (◌) is the key of reading and means “go back from this point to the *kugyol* character on the left side.”

Therefore, one can read from the first purple line to the second purple line in Figure 5 as below:

(6a) original text ([] marks kugyol letters on the left side):

復 ヽ ㄱ	Also(part of adv.)
有 [세 나 가]	to exist, to have (part of verb+perf.+conj.)
五	five
道 세	way (gen.)
一切	entire, every
衆生 리 ㅁ	living things (subj.)
復 ヽ ㄱ	Also(part of adv.)
有 [세 나 가]	to exist, to have (part of verb+perf.+conj.)
他方 세	other directions (gen.)
不 [ㅁ 리 ㅁ 세]	not (part of neg.+noun+gen.)
可 [세 ㅁ ㄱ ㅁ]	can (part of adj.+suf.+mod.)
量 노 ㅁ ㅁ	to count (suf.+dev.)
衆 ㅁ	living things

“Also there are all living things of five directions and also in other directions there are uncountable living things”

(6b) in Korean word order ({} marks a character not to be pronounced in {} }):

復 ヽ ㄱ [hΛn]	Also (part of adv.)
五道 세 [s]	five way (gen.)
一切	entire, every
衆生 리 [i]	living things (subj.)
有 세 나 가 [s-kyə-myə]	to exist, to have (part of verb+perf.+conj.)
復 ヽ ㄱ [hΛn]	Also (part of adv.)
他方 세 [s]	other directions (gen.)
量 노	to count (suf.+dev.)
{可} 세 ㅁ ㄱ [homs-hΛn]	can (part of adj.+suf.+mod)
不 ㅁ 리 ㅁ 세 [an-dji-nΛs]	not (part of neg.+noun+gen.)
衆	living things
有 [s-kyə-myə]	to exist, to have (part of verb+perf.+conj.)

“Also there are all living things of five directions and also in other directions there are uncountable living things”

(6c) reconstruction:

또 혼	(part of adv.)
五道 ㅁ	five way (gen.)
一切	entire, every
衆生 ㅁ 리	living things (subj.)
있겨며	to exist, to have (part of verb+perf.+conj.)
또 혼	Also (part of adv.)
他方 ㅁ	other directions (gen.)
量 ㅁ 혼 ㅁ	to count (suf.+dev.) can (part of adj.+suf.+mod)
안디이	not (part of neg.+noun+gen.)
衆	living things
있겨며	to exist, to have (part of verb+perf.+conj.)

“Also there are all living things of five directions and also in other directions there are uncountable living things”

(6d) translation in modern Korean:

또	Also
五道の	five way (gen.)
一切	entire, every
衆生이	living things (subj.)
있으며	to exist, to have (part of verb+perf.+conj.)
또	also
他方の	other directions (gen.)
헤아릴 수 없는	uncountable
衆生이	living things
있으며	to exist, to have (part of verb+perf.+conj.)

“Also there are all living things of five directions and also in other directions there are uncountable living things”

3.3 Jeomto Seokdok-kugyol (點吐釋讀口訣)

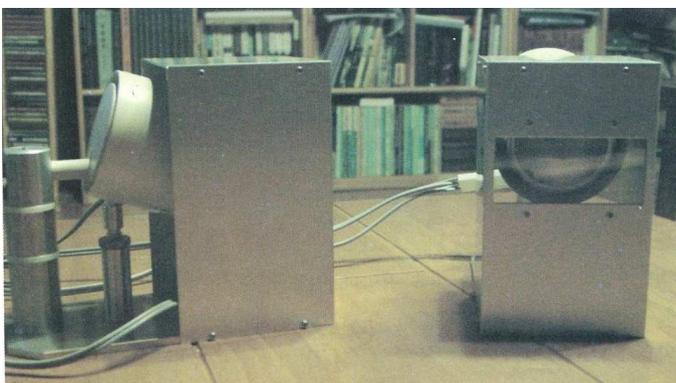
This kind of marking was first discovered in 2000⁷ in the text *Yugasajiron* (瑜伽師地論, cf. footnote 4, number 5). We have seen that different *kugyol* letters mark various syntactic, morphological and phonetic help for interpretation and translation of the original text. *Jeomto*, which means “point marks to translate into Korean” and are actually holes and scratches on paper, play the same role as that of the *kugyol* letters. Each *jeomto* corresponds to one *kugyol* letter or a group of *kugyol* letters (Chang, 2002).

Because *jeomto* is marked with a very sharp pointed pen which is called a *stylus* (Figure 6), it is difficult to find *jeomto* marks for us without special instruments (Kobayashi 2002). *Scopes* are used as special instruments to light texts (Figures 7a, 7b, 7c).



Figure 6 Stylus (reconstruction / Kobayashi Yoshinori)

⁷ In the year 2000, Kobayashi, a researcher of Japanese *kunten* texts (see also footnote 10), found additional markers which were not made by brush and ink, but made by the use of a stylus in *Yugasajiron* vol 5, 8.

Figure 7a Scope instruments**Figure 7b** Inspecting a text with scopes on the desk**Figure 7c** Enlarged text

When Korean read Chinese characters, they made small holes and scratches with a stylus on paper to read the text more fluently but with strict rules. In the following photos, we can find small holes and scratches.

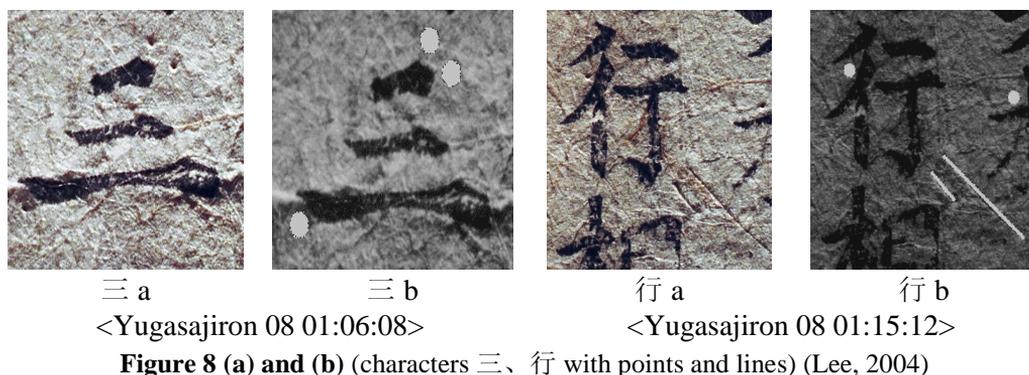


Figure 8 (a) and (b) (characters 三、行 with points and lines) (Lee, 2004)

In Figure 8, *a* is the original picture and *b* is a painted picture. If somebody cannot see holes or scratches, he can get a hint from picture *b*. We can see points in *a*, 三, and points and lines in *b*, 行.

Of *seokdok-kugyol* texts, *Keumkwangmyeongkyeong* (cf. footnote 4, number 3) is the only text which contains both *kugyol* letters and *jeomto* marks. So we can compare *kugyol* letters and *jeomto* by observing the *Kuemkwangmyeongkyeong* text.

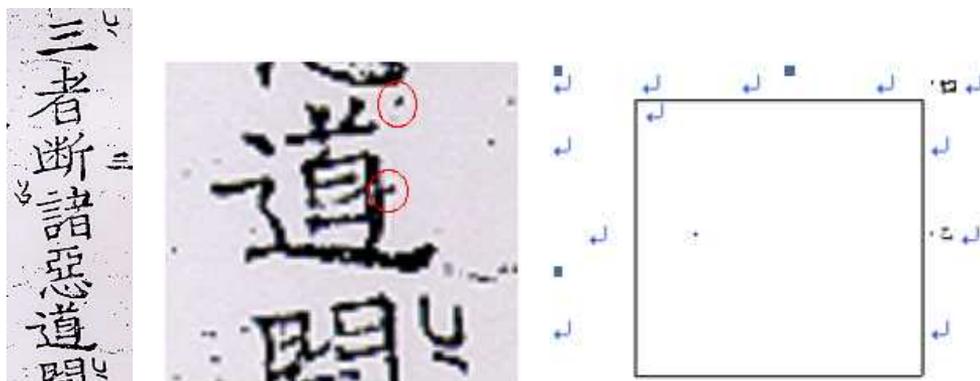


Figure 9 The positions of *kugyol* points

As shown in Figure 9, the *jeomto seokdok-kugyol* markers in small dots correspond to the markers made by *kugyol* letters. This may mean that the help for interpretation of the original text is doubly marked in *Keumkwangmyeongkyeong*. If we concentrate on the character 道, we can find two dots. Two dots are located on the right side of 道. One is in the upper position, another in the central position. These dots correspond to each ㅍ and ㅈ. ㅍ is a coordinating conjunctive marker, and ㅈ is an objective marker.

After some research, all possible positions of *jeomto* points which correspond to various syntactic, morphological and phonetic markers were mapped as in Figure 10:

11	12	13	14	15	
21	22	23	24	25	
31	32	33	34	35	
41	42	43	44	45	
51	52	53	54	55	

Figure 10 The point map of *Yugasajiron* (Chang, 2002)

By looking at existing texts closely, the researchers found out that approximately 15 additional texts were marked by holes and scratches.⁸

4. The latest findings and open questions

In this section we will examine *Hwaeommuneuiyogyeol* 華嚴文義要訣 which is presumed to be a text from the Silla dynasty (57 BE – 935 AD). Before examining *Hwaeommuneuiyogyeol*, we need to know *Tōdaiji Fujumonkō* (東大寺諷誦文稿, *Tōdai Temple Buddhist Prayers Manuscript*).

Tōdaiji Fujumonkō is an early 9th century Buddhist text and is best known as a valuable resource for Japanese historical linguistics as well as Buddhist history. It was composed some time between 796-830. The manuscript was designated as a National Treasure of Japan in 1938, but destroyed in 1945 in fires resulting from the war. Only reproductions remain. *Tōdaiji Fujumonkō* is primarily important as a resource for Early Middle Japanese. It is the oldest example of text written in *kanji* (Chinese characters) with *katakana* (phonetic alphabet) annotations. In addition, it exhibits many elements of Old Japanese grammar and vocabulary, as well as maintaining the phonetic distinction between /ko1/ and /ko2/. It also contains accounts in several dialects. (cf. http://en.wikipedia.org/wiki/Tōdaiji_Fujumonkō)

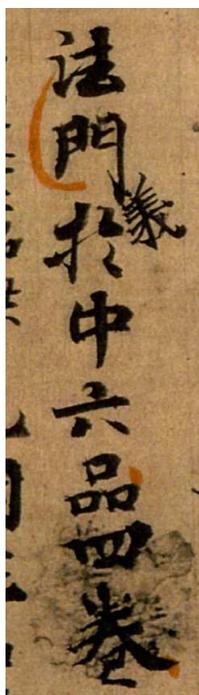
⁸ *Jinbon Hwaumkyeong* (晋本華嚴經) vol. 20: The late 9 AD- the early 10 AD, *Seomam koseo* museum.

Yugasajinron (瑜伽師地論) vol. 3: The first half of 11 AD, *Horim* museum.

Yugasajinron (瑜伽師地論) vol. 5, 8: The first half of 11 AD, *Seomam koseo* museum.

Jubon Hwaum kyeong (周本華嚴經) vol. 6, 22, 36, 57: The late 11 BC or The early 12 BC, *Seomam koseo* museum.

Jubon Hwaum kyeong (周本華嚴經) vol. 31, 34: The late 11 BC- the early 12BC, *Horim* museum.



This important text was actually written on the reverse of an older text, *Hwaeommuneuiyogyeol* (written by a Silla monk, *P'yonwon*) in the early 8th century. The latter is of interest in the context of *jeomto kugyol*. *Hwaeommuneuiyogyeol* has points and lines made by brush (Kobayashi, 2002). The *jeomto* points and lines on this text must have been made in late 8th century. Since a very similar method of interpretation and translation of Buddhist texts exists in Japan and in Japanese (the *kunten* system⁹), scholars did not know in which country the marks were made, i.e. in Korea or in Japan, or at which time the text was imported to Japan from the Korean peninsula. The scholars are also very curious about the identity of the writer, *P'yonwon* and if he was Korean or Japanese.

But Kobayashi (2002) insists that the points and lines in the text *Hwaeommuneuiyogyeol* are to be read in Korean. How this text can be read in Korean is shown below.

Figure 11 Hwaeom muneui yogyeol

Hwaeommuneuiyogyeol text:

(7a) original text with jeomto:

六品 [23(•)] 四卷 [33(•)]

six articles (top.) four volumes (declarative)

“Six articles ard (written) in four volumes”

(7b) Korean interpretation with kugyol letters:

六品 ㅏ 四卷(ㅏ) ㅏ

six articles (top.) four volumes (copula) (declarative)

“Six articles ard (written) in four volumes”

(7c) reconstruction:

六品은 四卷이다

six articles (top.) four volumes (copula) (declarative)

“Six articles ard (written) in four volumes”

(7d) translation in modern Korean:

六品은 四卷이다

six articles (top.) four volumes (copula) (declarative)

“Six articles ard (written) in four volumes”

The point in the character 品, made by red ink, represents a subject (or topic) marker. But this text can be read in Japanese, too. The important point in this

⁹ *Kunten*: Guiding markers for rendering Chinese classics into Japanese.

discussion is that the syntax markers (for example, the subject marker) are common to both languages and in reading it may be pronounced in Korean or Japanese.

Because Japanese syntax is similar to Korean syntax in many respects, it is difficult to decide if it is a Korean text or a Japanese text.

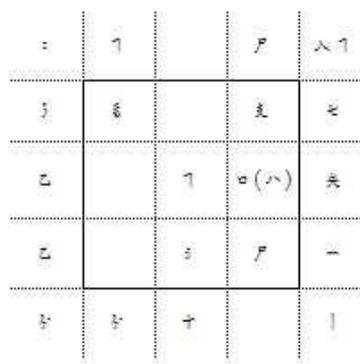
However, Kobayashi (2002) insists that *Hwaeommuneuiyogyeol* is a Korean text because:

- Its point map is similar to the point map of the 12th century Korean *Hwaeomkyong*. (Figure 12)
- We can find subject/topic markers in *Hwaeommuneuiyogyeol*, but there are no subject markers in Japanese texts before 8th century.



(Kim 2003)

Hwaeommuneuiyogyeol



(Park 2006)

Hwaeomkyeong

Figure 12 Point map of Hwaeommuneuiyogyeol and Hwaeomkyeong

Since Korean and Japanese are similar to each other, the following questions still remain open:

- Who made these points and lines and when?
- In what language did they read these texts?

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