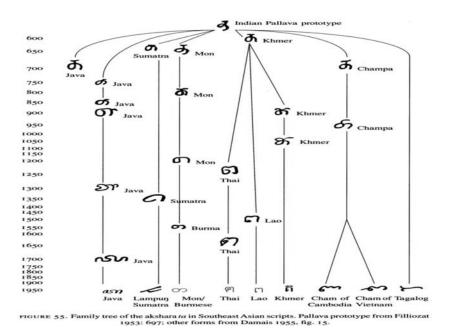
# Gap Analysis of HTML for Khmer

#### 1. Introduction

The **Khmer script** is used to write the Khmer language . It derived from Indian Pallava. (Figure 5.5 Family tree of the akshara ta in Southeast Asian scripts; Pallava prototype from Filliozat 1953: 697: other forms from Damais 1995. fig. 15. See in document bellow). The Constitution of the Kingdom of Cambodia, article 5: Official Language and Script are Khmer Language and Khmer script.



The Khmer scripts consist of:

- 35 consonants (Khmer Unicode Script)
- 34 subscripts
- 13 independent vowels
- 20 dependent vowels
- 22 various signs in Khmer Unicode but only 19 various signs in Khmer Official Dictionary
- 2 consonant shifters
- Ligatures
- Numerals

## **Consonants:**

There are 35 Khmer Unicode Consonants symbols but 2 consonants were obsolete (\*). They are:

កខគឃង ចឆជឈញ ដឋឌជរណ តថទធន បផពភាម យរលវ **ឝ\*ឞ**\* សហឡូអ Subscripts:

Subscript Consonants are special figure used to form consonant clusters. Also sometimes referred to as "sub-consonants", subscript consonants often resemble the corresponding consonant symbol, only smaller. In Khmer, they are known as 'Cheung' ( $\mathfrak{Se}$ ) meaning the *foot of a letter*. They are:

## **Independent Vowels:**

There are 13 Independent Vowels. Independent vowels are vowels that do not have to be paired with consonant in a syllable. In Khmer they are called *srăk penhtuŏ* (ເອຼັຣະເລລຸອັອ) which means *complete vowels*.

#### **Dependent Vowels:**

There are 20 Dependent Vowel symbols. Dependent vowels are known in Khmer as srăk nissăy (్రైకు:బీట్రోట్రి). Dependent vowels always have to be combined with a consonant.

\* It can be used as Various Sign in Khmer Unicode

#### **Various Signs:**

Various Sign is a small sign added to a letter to alter pronunciation or to distinguish between similar words.

19 Various Signs in Khmer Language, They are:

\*Registered Shifter Unicode table

22 Various Signs in Khmer Unicode Script, They are:

• 0	17C6	KHMER SIGN NIKAHIT
ം	17C7	KHMER SIGN REAHMUK
ः	17C8	KHMER SIGN YUUKALEAPINTU
0	17CB	KHMER SIGN BANTOC

	1500	
<b>،</b> ک	17CC	KHMER SIGN ROBAT
<b>v</b>	17CD	KHMER SIGN TOANDAKHIAT
• O	17CE	KHMER SIGN KAKABAT
<b>8</b> ()	17CF	KHMER SIGN AHSDA
<b>9</b> 0	17D0	KHMER SIGN SAMYOK SANNYA
- 0	17D1	KHMER SIGN VIRIAM
<b></b>	17D2	KHMER SIGN COENG
0	17D3	KHMER SIGN BATHAMASAT
9	17D4	KHMER SIGN KHAN
୍ୟା	17D5	KHMER SIGN BARIYOOSAN
00	17D6	KHMER SIGN CAMNUC PII KUUH
ៗ	17D7	KHMER SIGN LEK TOO
។ល។	17D8	KHMER SIGN BEYYAL
0	17D9	KHMER SIGN PHNAEK MUAN
Q#	17DA	KHMER SIGN KOOMUUT
चे	17DB	KHMER CURRENCY SYMBOL RIEL
S	17DC	KHMER SIGN AVAKRAHASANYA
ि	17DD	KHMER SIGN ATTHACAN

## **Consonant Shifters**

These signs shift the base consonant between registers.

" **~** 

## Ligatures

Most consonants, including a few of the subscripts, form ligatures with all dependent vowels. Many of these ligatures are easily recognizable but a few may not be recognized due to the shape transformation when it is combined with the vowel a ( $\Im$ ), ao ( $\Im$ ) and au ( $\Im$ ).

Examples of ligatured transform:

Ligatured consonant subscript and vowel combination:

#### Numerals

The numerals of the Khmer script, similar to other civilizations in Southeast Asia. Arabic numerals are also used, but to a lesser extent.

Khmer numerals	0	ົ	ß	n	Ę	ų	ර	៧	ය්	රේ
Arabic numerals	0	1	2	3	4	5	6	7	8	9

## 2 Analysis of Hand Written:

#### 2.1 Text Selection

#### Khmer Script in hand written:

- Written in Bold Text <b> (missing title and author, only some pages available, 8, 9, 33, see 2.2.1)
- New line <br> (missing title and author, see 2.2.1)
- Horizontal rule <hr> (missing title and author, page 33, see 2.2.1)
- Defines centered text <center> (missing title and author, only some pages available 8, 9, see 2.2.1)
- Defines a long quotation <blockquote> (missing author and title, page 8,9 see 2.2.1)
- Defines an ordered list (missing author and title, page 57 see 2.2.1)

#### **Older Published Documents:**

- Horizontal rule <hr> History Book posted 1987( title: History Book, Author: Ministry of Education, page 8 see 2.2.1)
- Defines centered text <center> Khmer Language Book (author: ట్రాబ్ శ్రులెక్ష్ణ (Khuon Sokphou, title: Khmer Language, page 32 see 2.2.1)
- Defines an ordered list (author: ເງເຮັຍ ຄົາເຂົ້າ (Sreng Sarin), title: Cambodian History Book posted in 1988, page 2 see 2.2.1)
- Underlined Text <u> in Khmer Language Book (author: ឡ័ស ເວັ ເຈົ້າສິ (Sreng

Sarin), title: Cambodian History, page 32 see 2.2.1)

## 2.2 Analysis

Discuss on all the formatting conventions of Khmer Language the study of the selected text as follow:

## **2.2.1 Format of Feature:**

## Hand written documents

Bold <b> there were bold texts in Khmer writing system.

ថ្វាយបខ្ពុំព្រ	រះសឡាតេន:
សង្ឃោ វិសុខ្វោ	វាទក្ខិណេយ្យោ
សន្តិន្ទ្រិយោ	សព្វមលប្បហ៍នោ
តុណោហិនេកេហិ	សមិទ្ធិបញ្តោ
អនាសវោ តំ	បនមាមិ សង្ឃ័

New line <br>:

ទុករោគភយាកំចំកើតមាន តេជៈបារមនៃព្រះភូនភា សូមសុទសត្វភាលត្រអាលក្មេមក្បន្ត សមត្រិចនធានចំព័ន៌ឥតអាក់ 9 ព្រមទាំងកូនចៅញាត់ជៅរមរិករូ ក៏ឲ្យបែកជាក់និវាសត្រាត់ត្រាយ កនានាត្រកលមត្រមលសប្បាយ សមន្ត្រីទាំងឲ្យយកុំបីខ្វះខាត 4 ก่ลตีเตณเระเปลวกณ์ผ่าล หุยี่เเยู มีพุทธดีหู้เคาอ่า សមធ័ទ្រំបានដល់ឋានទេវតា នងត្រោះមហានតាននាយហោង ។

Horizontal Rule <hr> there was horizontal rule in Khmer writing system.

សមត្រទាំងឲ្យយកបន្ទះខាត តមលសបរាយ 4 កឲ្យរប្ប នយាតតា ពលនេះនេង១ ពលនៅត នងត្រះមហានតាននាយ៖ 3 9 **នម**ស្នារ ចំពោះព្រះមហានាគ

Centered text<center>

ក្រាបថ្វាយបន្ត័ម្មង៍ ថ្នាយថខ្មុំព្រះសព្វរតន: សង្ខោ វិសុនោ វាទក្ខិណេយ្យោ សន្តន្ទ្រយោ សពុមលប្បហ៍នោ តុណេហិនេកេហិ សមិទិបតោ បនមាមិ សង្យំ អនាសជា ត័

Long quotation <br/>
blockquote> it had a long quotation text in Khmer writing system.

តរបង្ខោនកាយវាបា ហើយតាំងចិត្តរសិកដល់សង្ឃគុណថា សុបដ៏បន្នោ ភគវតោ សារិកសង្ឃោ ឧជុបដ៍បន្ទោ ភគវតោ សាវកសង្ឃ ញាយបដបនោ ភគរតោ សារកសង្កោ សាមីចិបដីបន្លោ ភគវតោ សារិកសង្ខោ

Ordered list Bullets (order list) were used in Khmer writing system.

ល្ឃតត្ត វេរនវភគដល់សង្ស ។ ឧរទ្ទេសភាភ្នំ ៧រនូវភត្ថដល់ភិត្ត ១ អង្គ ឬ ៤ អង្គ 19-៣ អត្តដាះដឹមតាមពាក្យដែលសង្ឃសំដែងថ្យ ។ ៣- និមន្តនភាភ្នំ វេរនូវភត្តដល់ភិក្ខុ ដែលខ្លួននិមត្ត សលារភាភាភ្លំ វេរនូវភត្ថដល់ភិក្ខុទាំងឡាយ ដែលមួនសរសេ. លោះក្នុងស្នាកហេយចាប់ ។

#### **In Older Published Documents**

New line <br>

ល័យដឹកជញ្ជូន និងគមនាគមន៍ ទេ ។ ពួកកេទ្ធនកសាងផ្លូវថ្មល់សំខាន់ញ รัสญภาบจี่ กุลสู้รถญ เจาริ เกลตร (๑) สู้รกญ เจาญลส์บุลลิม ភ្នំពេញ ទៅកំពត ។ ចំនែកផ្លូវន៍ដកមានតែមួយខែរួគគ គឺភ្នំពេញ ព្រធដំបង (ណាបនា ភួច ព្រេច នៅឆ្នាំ ១៩៣២ ) ។ ក្នុងការណ្តាបនា สู่รัฐญริธธรูรรัสกรธร ตราธกุ๊ยาธริญรสารีรถกาถึงราบสึกส -

Horizontal Rule<hr> នាំភា ខេតចាននាំ ចេញពីប្រទេសកម្ពុជា នូវជ័រកៅ-Im ព្ភភ័ព្ទយា ญี่ธัธธตี ๑๔ เรา ๒๐ การเกาะ สธุรตี ๑๙๐ เรา ๒๙๐ การ าตาบรถาสถี่ aoo-รรา 200 กายรสาย . รถี่เพลิน តតាន ส่งักกับกษรสรุณตรรรสสาร เชื่อ ( ๑) สีรักษณ บู (กุลตุลียิญญาร์สู่ . 0 - 4-Centered text <center>

ល លោស นวับ สมบ กบบสมสบสบสบสบสบสบสบสบสบสบสบสบสบ กอรรโอ ราชรหรี ายยาธบธณชา ទ័៣ពិ នភកចុទព្យាក្រា នទៅថ្នាន ដេដ្ឋ័ ព្រះាញាាត់គាត់ នៃហាង หุ้รหาพลาส่บารูพูลูงับจาน บรรรสสสม รั้ลหญาสรางกุ้มาต ๆ តតីក្នុះបនលននះពួនបំផុលនូវឲ្យទសក្នុនៈអ៊ី ហើយអ្នកយល់ដូចជមូចពីមូលទសក្នុនៈ គេាះ ចូនពិភាកក្ 먹 លំខាំ តែង

Ordered list<0l>

กะกรุณีรา ถ่า "อเมอส \_อเสสส" ซ์กู้อร์ รม่า : អាហា ខេត្តទាងលិច : ពញ្ចាធ ម្នោះ នា ជា ពឹង លេវម 12\_ [กะบจ**เพ็ญสลบจ " ๑**๕๐๕ ๑๕๑๒ " ธิธตาษหล £1 \_ ญชุธศธ ธิษ (กะธัฐราชา " งสุดอ งสตส

Underlined Text<u> ពះពួទ្ធក្រុងាដា បីជាងទ DODE Q. LAG พา เอสูอา ฉพิธ ก็ธรณร์ย ពញ្រាធ មោ នា ដា 2 ..... ธิ์ธยา ซุหล m\_ ៤\_ ស្ដេចកន និង ព្រះច័ន្ទនា ជា ".១៥១៦.១៥២

## **3** Comparison with HTML Tag:

List of all formatting conventions which are already supported in HTML in Hand Written Documents and Older Published Documents

HTML Tag	Khmer Convention	Already Supported	
Basic Tags			
<h1> to <h6></h6></h1>	Defines header 1 to header 6	$\checkmark$	
<u> </u>	Inserts a single line break	✓	
<u><hr/></u>	Defines a horizontal rule	✓	
Char Format			
<u><b></b></u>	Defines bold text	$\checkmark$	
<u><font></font></u>	Deprecated. Defines text font, size, and color	$\checkmark$	
<u><em></em></u>	Defines emphasized text	$\checkmark$	
<big></big>	Defines big text	$\checkmark$	
<strong></strong>	Defines strong text	✓	
<small></small>	Defines small text	✓	
<sup></sup>	Defines superscripted text	✓	
<sub></sub>	Defines subscripted text	✓	
<u><u></u></u>	Deprecated. Defines underlined text	$\checkmark$	
Output			
<pre></pre>	Defines preformatted text	$\checkmark$	
<code></code>	Defines computer code text	$\checkmark$	
<u><tt></tt></u>	Defines teletype text	$\checkmark$	
<kbd></kbd>	Defines keyboard text	$\checkmark$	
<var></var>	Defines a variable	✓	

<dfn></dfn>	Defines a definition term	✓
< <u>samp&gt;</u>	Defines sample computer code	$\checkmark$
Blocks		
<blockquote></blockquote>	Defines a long quotation	$\checkmark$
<center></center>	Deprecated. Defines centered text	$\checkmark$

List of all tags which are not found in Khmer conventions and also not relevant to Khmer Writing System

HTML Tag	Purpose	NN	IE
Basic Tags			
	Defines the document type		1
<html></html>	Defines an html document	3.0	3.0
<body></body>	Defines the body element	3.0	3.0
<u></u>	Defines a paragraph	3.0	3.0
<u><!-- --></u>	Defines a comment	3.0	3.0
Char Format			
<u><i></i></u>	Defines italic text	3.0	3.0
<u><bdo></bdo></u>	Defines the direction of text display	6.2	5.0
Blocks			
<acronym></acronym>	Defines an acronym	6.2	4.0
<abbr></abbr>	Defines an abbreviation	6.2	
<address></address>	Defines an address element	4.0	4.0
<u><q></q></u>	Defines a short quotation	6.2	4.0
<cite></cite>	Defines a citation	3.0	3.0
<ins></ins>	Defines inserted text	6.2	4.0
<u><del></del></u>	Defines deleted text	6.2	4.0
<u><s></s></u>	Deprecated. Defines strikethrough text	3.0	3.0
<u><strike></strike></u>	Deprecated. Defines strikethrough text	3.0	3.0
Links			
<u><a></a></u>	Defines an anchor	3.0	3.0
<u><link/></u>	Defines a resource reference	4.0	3.0
Frames			
<u><frame/></u>	Defines a sub window (a frame)	3.0	3.0
<frameset></frameset>	Defines a set of frames	3.0	3.0
<noframes></noframes>	Defines a noframe section	3.0	3.0
<u><iframe></iframe></u>	Defines an inline sub window (frame)	6.0	4.0
Input			

<u><form></form></u>	Defines a form	3.0	3.0
<u><input/></u>	Defines an input field		3.0
<textarea>&lt;/td&gt;&lt;td&gt;Defines a text area&lt;/td&gt;&lt;td&gt;3.0&lt;/td&gt;&lt;td&gt;3.0&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;button&gt;&lt;/td&gt;&lt;td&gt;Defines a push button&lt;/td&gt;&lt;td&gt;6.2&lt;/td&gt;&lt;td&gt;4.0&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;select&gt;&lt;/td&gt;&lt;td&gt;Defines a selectable list&lt;/td&gt;&lt;td&gt;3.0&lt;/td&gt;&lt;td&gt;3.0&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;optgroup&gt;&lt;/td&gt;&lt;td&gt;Defines an option group&lt;/td&gt;&lt;td&gt;6.0&lt;/td&gt;&lt;td&gt;6.0&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;option&gt;&lt;/td&gt;&lt;td&gt;Defines an item in a list box&lt;/td&gt;&lt;td&gt;3.0&lt;/td&gt;&lt;td&gt;3.0&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;label&gt;&lt;/td&gt;&lt;td&gt;Defines a label for a form control&lt;/td&gt;&lt;td&gt;6.2&lt;/td&gt;&lt;td&gt;4.0&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;fieldset&gt;&lt;/td&gt;&lt;td&gt;Defines a fieldset&lt;/td&gt;&lt;td&gt;6.2&lt;/td&gt;&lt;td&gt;4.0&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;legend&gt;&lt;/td&gt;&lt;td&gt;Defines a title in a fieldset&lt;/td&gt;&lt;td&gt;6.2&lt;/td&gt;&lt;td&gt;4.0&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;isindex&gt;&lt;/td&gt;&lt;td&gt;Deprecated. Defines a single-line input field&lt;/td&gt;&lt;td&gt;3.0&lt;/td&gt;&lt;td&gt;3.0&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Lists&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;u&gt;&lt;ul&gt;&lt;/u&gt;&lt;/td&gt;&lt;td&gt;Defines an unordered list&lt;/td&gt;&lt;td&gt;3.0&lt;/td&gt;&lt;td&gt;3.0&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;dir&gt;&lt;/td&gt;&lt;td&gt;Deprecated. Defines a directory list&lt;/td&gt;&lt;td&gt;3.0&lt;/td&gt;&lt;td&gt;3.0&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;u&gt;&lt;dl&gt;&lt;/u&gt;&lt;/td&gt;&lt;td&gt;Defines a definition list&lt;/td&gt;&lt;td&gt;3.0&lt;/td&gt;&lt;td&gt;3.0&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;u&gt;&lt;dt&gt;&lt;/u&gt;&lt;/td&gt;&lt;td&gt;Defines a definition term&lt;/td&gt;&lt;td&gt;3.0&lt;/td&gt;&lt;td&gt;3.0&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;u&gt;&lt;dd&gt;&lt;/u&gt;&lt;/td&gt;&lt;td&gt;Defines a definition description&lt;/td&gt;&lt;td&gt;3.0&lt;/td&gt;&lt;td&gt;3.0&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Images&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;img&gt;&lt;/td&gt;&lt;td&gt;Defines an image&lt;/td&gt;&lt;td&gt;3.0&lt;/td&gt;&lt;td&gt;3.0&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;map&gt;&lt;/td&gt;&lt;td&gt;Defines an image map&lt;/td&gt;&lt;td&gt;3.0&lt;/td&gt;&lt;td&gt;3.0&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;area&gt;&lt;/td&gt;&lt;td&gt;Defines an area inside an image map&lt;/td&gt;&lt;td&gt;3.0&lt;/td&gt;&lt;td&gt;3.0&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Tables&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;Defines a table&lt;/td&gt;&lt;td&gt;3.0&lt;/td&gt;&lt;td&gt;3.0&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;caption&gt;&lt;/td&gt;&lt;td&gt;Defines a table caption&lt;/td&gt;&lt;td&gt;3.0&lt;/td&gt;&lt;td&gt;3.0&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;Defines a table header&lt;/td&gt;&lt;td&gt;3.0&lt;/td&gt;&lt;td&gt;3.0&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;Defines a table row&lt;/td&gt;&lt;td&gt;3.0&lt;/td&gt;&lt;td&gt;3.0&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&gt;&lt;/td&gt;&lt;td&gt;Defines a table cell&lt;/td&gt;&lt;td&gt;3.0&lt;/td&gt;&lt;td&gt;3.0&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;thead&gt;&lt;/td&gt;&lt;td&gt;Defines a table header&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;4.0&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;Defines a table body&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;4.0&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;tfoot&gt;&lt;/td&gt;&lt;td&gt;Defines a table footer&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;4.0&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;col&gt;&lt;/td&gt;&lt;td&gt;Defines attributes for table columns&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;3.0&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;&lt;u&gt;colgroup&gt;&lt;/u&gt;&lt;/td&gt;&lt;td&gt;Defines groups of table columns&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;3.0&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Styles&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;style&gt;&lt;/td&gt;&lt;td&gt;Defines a style definition&lt;/td&gt;&lt;td&gt;4.0&lt;/td&gt;&lt;td&gt;3.0&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;div&gt;&lt;/td&gt;&lt;td&gt;Defines a section in a document&lt;/td&gt;&lt;td&gt;3.0&lt;/td&gt;&lt;td&gt;3.0&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;span&gt;&lt;/td&gt;&lt;td&gt;Defines a section in a document&lt;/td&gt;&lt;td&gt;4.0&lt;/td&gt;&lt;td&gt;3.0&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Meta Info&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;head&gt;&lt;/td&gt;&lt;td&gt;Defines information about the document&lt;/td&gt;&lt;td&gt;3.0&lt;/td&gt;&lt;td&gt;3.0&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;title&gt;&lt;/td&gt;&lt;td&gt;Defines the document title&lt;/td&gt;&lt;td&gt;3.0&lt;/td&gt;&lt;td&gt;3.0&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;base&gt;&lt;/td&gt;&lt;td&gt;Defines a base URL for all the links in a page&lt;/td&gt;&lt;td&gt;3.0&lt;/td&gt;&lt;td&gt;3.0&lt;/td&gt;&lt;/tr&gt;&lt;/tbody&gt;&lt;/table&gt;</textarea>			

List of all tags which are not supported in HTML and Require New Tags to be introduced for Khmer Writing System

<select></select>	Defines a selectable list

For this <select> HTML tag it support with Khmer Unicode when using Mozilla Brower, but it not work with Internet Explorer Browser.

<ol> <li>Object Defines an ordered list</li> </ol>	Not Support
--	-------------

#### 1. Ordered list

Ordered lists or Bullet in Khmer Writing System; starting with " $\mathfrak{D}$ ,  $\mathfrak{D}$ ,  $\mathfrak{n}$ " or  $\mathfrak{R}, \mathfrak{D}, \mathfrak{R}$ ... it should auto display numerically or alphabetically order, but it not support with Khmer Unicode.

```
<OL Type="list type">
```

Type="9" - Display in numerals Type="?;" − Display in Khmer Consonant វើវនវតតដល់សង្ស សទ្យតត 03 19-ឧរទេសភភ វេរនវភតដលភក មកាមពាក្យដែលសង្គសេះដងថ្មី ។ ៣ អងដា: Ų 8 m-ដែលឧននមន 52257 ឋេរនវភគដល់កក មត:ហយុទ្ធបុរេ U 8m សលាភាតិក te-វេរនវភតដល់ភភទាំងទកយ ដែលខ សរសេះលោះក្នុងសាកលោយចាប់

#### 2. New Line

In Khmer Writing System, INDENT is always applied for new lines, HTML tag is not support this function.

ពោះអរយសង៍ត្រណា ដបរសទវាសស ជាទករណេយ្យ រែបឋា: បុគលដ មានព IUINI កលោសរោមចដោយ ch for: N ដលហេយន តន៍បន្យត់បង់ហេយ តថាជា គណទានទទ្ធាយដា 10s នាទពះស 60 3 50 AS ពះអរយសង្កនោះ ពះករណា សមត្រាបប៉ាយបង ដោយគោរព 9

3. Justify Khmer Unicode Writing, we would request HTML tag to support it.

กูกหาณาธิตยธร้ามกุ้ธระกริสูงุกล่ากรักณ์หลิมญาบลา 3 -พัฒสึกสกานูล ธิธรยการขลังจ ๆ การรทุลกพาลผู้รัฐพพ้อาล่ๆ รัสญภาบจี่ กุลสู้รถญ เจารี่ กุลสร (๑) สู้รถญ เจาตุลส์บลลิล ฎ้รถญ เจากักล ๆ ธรัฐกลูงรัชกษา อรัฐษรัฐาตส ตี้ภูรกญ ព្នុធម៌មិង (ស្តាមនាដូចត្រូលចតនៅឆ្នាំ ១៩៣៦ ) ។ ក្នុងការញាមនា สร้านข้อมสูงรัสกรอะ ตร้ามกุขาลจิพรสารีรถูกาณีขราบสึกส -กาลรูขนาสุรสัยรัสญกร่ารฐีมานี้รกัญกุล พรสารจารัญสุลลิมจั ស្លេចាជាតិ ប៉ុណ្ណោះ ទេរ្យ័យ

4. In Khmer POETRY Writing System, in order to write poem, it used 2 columns and all functions above. We would request HTML tag to support these functions also.

របទព្រះសទ

Reference:

http://www.unicode.org/charts/PDF/Unicode-4.1 (Range: 1780-17FF for charts showing only the characters added in Unicode 4.1) http://www.w3schools.com (showing all html tag) DICTIONNAIRE CAMBODGIEN (EDITION DE L'INSTITUT BOUDDHIQUE 1967) Author: ສະເອັຍງຄະສະອຸງລະ ເລ.ເລ.ເລັສແມເລລາ (Samdech Choun Nat)