Eastern Arabic numbering

By way of intro, see http://www.docx4java.org/forums/pdf-output-f27/arabic-number-digits-in-pdf-output-t1826.html

"EASTERN Arabic" numerals in English: <http://en.wikipedia.org/wiki/Eastern_Arabic_numerals> or in Unicode, Arabic-Indic: http://stackoverflow.com/questions/1676 ... bic-digits

There are 2 settings in Word (as opposed to the docx!):

# Use Native Digits = Context

digit substitution ( Control Panel -> Region and Language -> Addtional Settings -> Use Native Digits ) as Context

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Numeral option | w:rtl | cs, no rtl | nothing | more context  (with hint) | eastAsia =TNR | w:rFonts/@w:hint="cs" |
| System | Eastern | Eastern | 1234 | 1234 | 1234 | 1234 |
| Hindi | Eastern | Eastern | Eastern | Eastern | Eastern | Eastern |
| Context | Eastern | Eastern | 1234 | 1234 | 1234 | 1234\* |
| Arabic | 1234 | 1234 | 1234 | 1234 | 1234 | 1234 |

# Use Native Digits = National

digit substitution ( Control Panel -> Region and Language -> Addtional Settings -> Use Native Digits ) as National

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Numeral option | w:rtl | cs, no rtl | nothing | more context  (with hint) | eastAsia =TNR | w:rFonts/@w:hint="cs" |
| System | Eastern | Eastern | Eastern | Eastern | Eastern | Eastern |
| Hindi | Eastern | Eastern | Eastern | Eastern | Eastern | Eastern |
| Context | Eastern | Eastern | Eastern | Eastern | Eastern | Eastern |
| Arabic | 1234 | 1234 | Eastern | Eastern | Eastern | Eastern |

Rules:

If rtl or cs is present, use eastern numbering, unless numer option = arabic. Return ie (If both rtl and the hint are present, do what rtl tells you.

If Native Digit=National (and locale=??), use eastern

else if =Context, use 1234 unless numeric=hindi

<w:themeFontLang w:val="it-IT" w:eastAsia="ko-KR" w:bidi="ar-SA"/>

<w:themeFontLang w:val="en-US" w:bidi="ar-SA"/>

This stuff is implemented in RunFontSelector.

Basic tests:

1. Native Digits=Context, Numeral option = System
2. Native Digits=National, Numeral option = Arabic

Note: my test docx had Normal style set to include:

<w:pPr>

<w:bidi/>

</w:pPr>

Haven't confirmed whether absence of that would make any difference...

See test docx: src\test\resources\multilingual\arabic