

My discussion on the possibility of replacement of NNBSpace with other character:

1. The NNBSpace is a space, not control character as it is defined in Unicode. we need here is one Mongolian Suffix Joiner (special control character) actually.
2. Some of the system software handles NNBSpace as a space (narrow non-break space) and ignore or filters out this character before come into MS-USE or Harfbuzz. In that case, we lost the important control characters in the text and could not get correct Mongolian forms actually. For example when we copy text from adobe PDF reader, the text will lost the NNBSpace.
3. NNBSpace had been filtered by the previous version browser like chrome and safari till last year and Mongolian text all get mistaken forms related with NNBSpace.
4. If it is possible to replace it with other character to define the function, I would like to propose to use U+180F, we can name it as Mongolian Suffix Joiner.

Greg Eck's Response – Jul 8 2015

Another possible name is Mongolian Suffix Separator to pair it with the Mongolian Vowel Separator. Both actually join two parts of a word. Both are not spaces. Both are non-joining in the terms of ArabicSpacing.txt. One value of excluding the word "join" from the name is that it might reduce future confusion - a person might ask the question why is called a "Joiner" if it is actually "non-joining". We don't want to include the term "space" as it is not a space. If we use the term "separator" although it is still deficient, it does match the MVS terminology.

Mongolian Vowel Separator, Mongolian Suffix Separator.

Just a thought, but then we are getting ahead of ourselves.

I agree this, the “Mongolian Suffix Separator” is better than “Mongolian Suffix Joiner”.

My discussion on STANDARD NNBSMONGOLIAN MODEL:

1. What is the NNBSMONGOLIAN definition? According to Unicode definition, it is Narrow No-Break Space, narrow form of a no-break space, typically the width of a thin space or a mid space.
2. If we use it as Mongolian Suffix Joiner (no-break space), we should add the definition into the Unicode standard. In the case, all of system or developer will pay their attention to this is used in Mongolian and have some special definition not just a narrow no-break space.
3. When we use NNBSMONGOLIAN in Mongolian, we should include the usage of the Character.
 - ① Is it only used for Mongolian Suffix? If so, can we define full collection of the Mongolian Suffix? Or We just consider the followed word after NNBSMONGOLIAN is suffix ?

Greg Eck's Response – Jul 8 2015

I suggest that such a character be used only as the suggested name implies to "separate suffixes" or "join suffixes" to the stem or to each other. If there is another function that the character carries, then it should be reflected in a more generic name.

I think it should be up to the font designer to decide how tight he/she wishes to restrict the characters following this potential new character.

I agree this in this point. I will explain in the following content and get back to here.

- ② Is it can be used as other purpose in Mongolian like other Language. For example, we just use NNBSMONGOLIAN as a "Narrow no-break Space", it can be used as connection of two words we do not want to separate them to two line or just want handle the two word as one word.

In this case, it is better to consider our NNBSMONGOLIAN model will not impact our normal word forms. It is just impact the specific Mongolian Suffix.

Almas Font s are considered this possibility and our Font handle the Suffix only have been changed their first letter in special rule (Suffix Rule) and other followed normal words will not be changed the first letter.

For example:

Our Font shows like bellow

ᠠᠨᠢ ᠰᠢᠨᠢᠨᠢ -- (1828+1823+182E+NNBSMONGOLIAN+1824+1828)

ᠠᠨᠢ ᠰᠢᠨᠢᠨᠢᠨᠢ -- (1828+1823+182E+NNBSMONGOLIAN+1824+1837+1822+182C+1824)

But Mongolian Baiti shows this like bellow

ᠠᠨᠢ ᠰᠢᠨᠢ -- (1828+1823+182E+NNBSP+1824+1828)

ᠠᠨᠢ ᠰᠢᠨᠢᠨᠢ -- (1828+1823+182E+NNBSP+1824+1837+1822+182C+1824)

PS. My colleagues suggested me that we should use this word for examples.

I would like to ask all members to consider remaining this possibility for the further usages. The other languages are using this character as this kind of usage as its definition.

Greg Eck's Response – Jul 8 2015

I do not consider this to be a mistake, but rather a difference in implementation design. One font designer has decided to tightly restrict the characters following the NNBSP. Another font designer has decided to form the grammatically correct suffixes correctly but not spell-check the text after the NNBSP.

I consider these decisions to be independent of the model and left to the choices of the font designer.

I don't agree this in this point as well. Let me include my opinion in the following discussion.

Greg Eck's Response – Jul 10 2015

I would also ask that we use another word as ORIQU is a verb and therefore outside of the scope of the discussion. Baiti designers would say that as it is not a suffix, it is not a properly typed word, therefore an anomaly giving unpredictable shaping.

It is the result of Mongolian Baiti only checking one character after NNBSP and reshaping all U|UE as ᠠᠨᠢ In <init>, But I want say is that we just reshape the U|UE after NNBSP when the suffix is ᠠᠨᠢ, Other words will be normal display form like ᠠᠨᠢᠨᠢᠨᠢ, ᠠᠨᠢᠨᠢᠨᠢ.

Maybe the example listed above is not sufficient to explain what I want to discuss with all. Additional example.

Our Font shows like bellow

ᠠᠨᠢ ᠰᠢᠨᠢ -- (1828+1823+182E+NNBSP+1824+1828)

ᠠᠨᠢ ᠰᠢᠨᠢᠨᠢ -- (1828+1823+182E+NNBSP+1824+1837+1824+182D+1824)

But Mongolian Baiti shows this like bellow

ᠠᠨᠢᠨᠪᠠᠭᠤ -- (1828+1823+182E+NNBSP+1824+1828)

ᠠᠨᠢᠨᠪᠠᠭᠤᠨ -- (1828+1823+182E+NNBSP+1824+1837+1824+182D+1824)

Greg Eck's Response – Jul 10 2015

As I understand the URUGU, it is probably a postposition in transition to being a case suffix. Ulaanbaatar dictionaries will list it as ypyy. Ulaanbaatar grammars will also list it as the directive case suffix -ᠢᠶᠢᠶᠢ / -ᠢᠶᠢᠶᠢ // -ᠢᠶᠢᠶᠢ / -ᠢᠶᠢᠶᠢ. Therefore, my team considers the implementation in the vertical script as appropriate as either an NNBSP-connected suffix OR as a separate word. Either way, the form should be as you show under your font with the full initially-ornamented "U". The display as you show for Baiti is indeed incorrect. I will put in a bug report for this. Thanks for noticing this. Is there further discussion here?

What I want to say is that we reshape NNBSP connected U | UE as ᠠᠨᠢ only when the followed suffix is ᠠᠨᠢᠨᠪᠠᠭᠤᠨ {202F+1824+1828, 202F+1826+1828} ᠠᠨᠢᠨᠪᠠᠭᠤᠨ {202F+1824+1833, 202F+1826+1833}. All other U | UE started word will leave it as normal Initial form of U | UE ᠠᠨᠢ.

The (1828+1823+182E+NNBSP+1824+1837+1824+182D+1824) is Mongolian suffix listed in DS05. But it is not displaying same in our font and Microsoft Baiti Font (It is hard to be accepted)

The solution will be listed in the following contents.

My discussion on MONGOLIAN NNBS-CONNECTED SUFFIXES:

1. I have checked the DS05 listed Mongolian Suffixes list. It is covered most of the Mongolian Suffix well, compared with the our suffixes list find a little bit difference. For example, we included like bellow

ᠠᠨᠢ ᠮᠠᠨᠢ ᠨᠢ

But I think it is Ok for us if we list out the irregular first letter writing suffixes, it is enough for this Model document. Others will follow the normal word glyph rendering rules applied

Greg Eck's Response – Jul 8 2015

Our grammar considers these forms to be pronouns and therefore not connected by the NNBS. I believe this is the same view as espoused by Professor Quejingzhabu also. Are there other words that are questionable?

Oh sorry, It is not pronoun actually, if it is spelled as ᠠᠨᠢ ᠮᠠᠨᠢ it is pronoun. This three is Mongolian Suffix, and it is what we had been asked by the users to add to our Suffix on our Mongolian IME. The name of the Suffix I will confirm with Linguistic Expert and come back to you.

Greg Eck's Response – Jul 10 2015

Sorry, I had not looked at the word closely enough. My school of linguistics (following the late Dandy-Yadam Tserenpil - Ulaanbaatar) calls these Case Bound Particles rather than suffixes. I would add a few more (MINI, MANI, CINI, TANI, NI, ANO, INO). I am not sure that they need to be NNBS-connected, but can see some reasonings therein. Let's go on.

Then there are the CaseBound Suffixes (QI, QIN) also. They are not included in the DS05 listing, but should be listed.

Ok. I have confirmed with linguistic expert here. The Mongolian Name is ᠠᠨᠢ ᠮᠠᠨᠢ ᠨᠢ It is Ok for us only if it is listed in DS05.

2. For the listed suffixes, would you please list out the Unicode in the Notes. Because, we find there significant difference in the encoding some of the suffixes. For example, we find following encoding difference

ᠠᠨᠢ

1. ༄ - how do we spell this ? {0020+1824+1824, 0020+1826+1826} or {0020+1824+180B+1824, 0020+1826+180B+1826} or {202F+1824+1824, 202F+1826+1826}. ?

The {0020+1824+1824, 0020+1826+1826} cannot work.

{0020+1824+180B+1824, 0020+1826+180B+1826} is not defined in any of the Fonts in <http://r12a.github.io/scripts/mongolian/variants>

{202F+1824+1824, 202F+1826+1826} only this is the solution now.

ᠠᠨᠠᠨᠠ ᠪᠠᠢ ? ᠠᠨᠠᠨᠠ ᠪᠠᠢ ? Mongolian Bai

ᠠᠨᠠᠨᠠ ᠪᠠᠢ ᠠᠨᠠᠨᠠ ᠪᠠᠢ ᠠᠨᠠᠨᠠ ᠪᠠᠢ Mongolian Universal White

How do you think of it?

What I want say here is that we need to declare **the basic rule of Mongolian Encoding.**

1. *The encoding rule follows the modern normal and publicly accepted display form comes first.*
2. *Abnormal display forms which are using in modern Mongolian will come to second. What I mention here modern Mongolian include the modern Todo and Shibe and Manchu.*
3. *Abnormal display forms which are not using in modern Mongolian will come to third.*
4. *Should consider the entire special requirement from linguistic experts and leave the implementation possibility for all of these requirements.*

PS. Please add your consideration here for getting quick solution for following part of the discussion includes the linguistic argument of which is which. Maybe Unicode have exact definition of this. If anyone know of that please let us know.

5. Let me list out our suffix list addition to DS05. The suffix name I can provide after refer to linguistic expert if necessary or appreciate anyone can contribute to this.

ᠳᠢ ---- ᠠᠭᠠᠯᠤ ᠪᠠᠭᠠᠯᠤᠰᠤ ᠳᠢ (202F+1824+1824, 202F+1826+1826)

Greg Eck's Response – Jul 10 2015

Discussed already.

Check again discussion added in above

ᠳᠢ ---- ᠠᠭᠠᠯᠤ ᠳᠢ (202F+1828+1822)

ᠳᠢᠳᠢ ---- ᠪᠠᠭᠠᠯᠤ ᠳᠢᠳᠢ (202F+182E+1822+1828+1822)

ᠳᠢᠳᠢ ---- ᠠᠭᠠᠯᠤ ᠳᠢᠳᠢ (202F+1834+1822+1828+1822)

Greg Eck's Response – Jul 10 2015

Discussed already.

Accept your opinion.

ᠳᠢ ᠳᠢ - ᠪᠠᠭᠠᠯᠤ (202F+1833+1824+1828+1822, 202F+1833+1826+1828+1822)

ᠳᠢ ᠳᠢ - ᠠᠭᠠᠯᠤ (202F+1832+1824+1828+1822, 202F+1832+1826+1828+1822)

Greg Eck's Response – Jul 10 2015

Interesting. I have never seen this before! This is the dative suffix followed by the case-bound particle? If it is a suffix combining with a particle, then that puts the whole discussion of the entire case-bound particles back on the table to be potentially added to NNBS-connection.

It is exist in Mongolian really.

ᠳᠢ ---- ᠠᠭᠠᠯᠤ ᠪᠠᠭᠠᠯᠤᠰᠤ (202F+1833+1820, 202F+1833+1821)

Greg Eck's Response – Jul 10 2015

As with the question particle UU/UE, the interjection particle DA/DE is semantically tied to the entire clause/sentence and not to the word. I do not see a compelling reason to require NNBS- connectivity.

Yes, I agree your opinion. I have just listed here for some user requested us to add it to suffixes list in our Mongolian IME.

ᠳᠢ ---- ᠠᠭᠠᠯᠤ ᠠᠭᠠᠯᠤ ᠳᠢ (202F+182F+1820, 202F+182F+1821)

Greg Eck's Response – Jul 10 2015

While LA/LE // CU/CUE are tied to probably the phrase level, I still do not see a compelling reason to require NNBS- connectivity.

Yes, I agree your opinion. I have just listed here for some user requested us to add it to suffixes list in our Mongolian IME.

ላላ --- ኃላቅ ቻል ለላላ/ ለላላ ላላ (202F+1830+1820+1828, 202F+1830+1821+1828)

Greg Eck's Response – Jul 10 2015

I am not familiar with SAN/SEN. Can you give more information on this one?

It is a emphasize suffix(?) Let me check with linguistic expert and feedback to you.

ቻል --- ኃላቅ ቻል ለላላ (202F+1834+1824, 202F+1834+1826)

Greg Eck's Response – Jul 10 2015

Follows LA/LE exactly.

Yes, I agree

ላላ --- ላላ ላላ (202F+1830+1822+182D)

ላላ --- ላላ ላላ (202F+1830+1822+182D+FVS2)

Greg Eck's Response – Jul 10 2015

Although there is gender agreement, I see no compelling argument for an NNBSB connect.

Yes, I agree.

ላላ --- ላላ (202F+1833+1820+182D)

ላላ --- ላላ (202F+1833+1820+182D+FVS2)

Greg Eck's Response – Jul 10 2015

Is this a mis-spelling for the ordinal numeral suffix DAQI/DEXI? It should not be the verb suffix as the verb suffix is always connected directly to the stem - is that not correct? If it is the ordinal suffix, I think we have grounds for NNBSB connectivity.

Let me check with my team, how it is come into our suffixes list. And give example a little bit later.

ላላ --- 2 ላላ (202F+1833+1824+182D+1820+1837)

ላላ --- 1 ላላ (202F+1833+1826+182D+1821+1837)

Greg Eck's Response – Jul 10 2015

No doubt that this is the ordinal numeral suffix. In my opinion, both DUGAR/DUEGER // DAQI/DEQI should be connected by NNBSB.

Ok.

5. Let me bring following discussion here for more detailed discussion.

Our Font shows like bellow

ᠠᠨ ᠨᠠ -- (1828+1823+182E+NNBSP+1824+1828)

ᠠᠨ ᠨᠠᠨᠠᠨᠠᠨᠠ -- (1828+1823+182E+NNBSP+1824+1837+1824+182D+1824)

This is the correct display according to DS05 document.

But Mongolian Baiti shows this like bellow

ᠠᠨ ᠨᠠ -- (1828+1823+182E+NNBSP+1824+1828)

ᠠᠨ ᠨᠠᠨᠠᠨᠠᠨᠠ -- (1828+1823+182E+NNBSP+1824+1837+1824+182D+1824)

What I want to say here is that we should not just check the following character after NNBSP (or MSS) to select the form of the character. We should check if it is followed by the specific Suffixes or not and change the form of the character display. We will not impact first letter of other words except Suffixes.

Greg Eck's Response – Jul 10 2015

Not quite sure what you are saying here. If you are suggesting that we change or correct the form of the glyph, then I am highly against such a function inside the font. I think such a function should be at a good level above the font. Please clarify.

What I want to say here is for example,

NNBSP (or MSS) + 1824 | 1826 get ᠨ

NNBSP (or MSS) + 1824 | 1826 + 1828 get ᠨᠠ

NNBSP (or MSS) + 1824 | 1826 + 1833 get ᠨᠠᠨ

NNBSP (or MSS) + 1824 + other Mongolian character get ᠨᠠᠨᠠ

NNBSP (or MSS) + 1824 + other Mongolian character get ᠨᠠᠨᠠᠨᠠ

What I want to say here is that the NNBS (or MSS) will only need to distinguish and handle the following display forms for 1824 or 1826 and display forms for 1836 and 1822 as well as display form of 1820. All of the other words followed after NNBS (or MSS) will be displayed same with original normal words form.

𑀓 (202F+ 1820)

𑀓 (202F+ 1821)

𑀓 (202F+ 1824)

𑀓 (202F+ 1826)

Greg Eck's Response – Jul 10 2015

Should include 1833 here also as it is the variant that is always used as the first letter of the suffix. That would include DU/DUE, DUR/DUER, DAQI/DEQI(DAHI/DEHI), DUGAR/DUEGER, DAGAN/DEGEN, TU/TUE, TUR/TUR, TAQI/DEQI(TAHI/TEHI), TUGAR/TUEGER, TAGAN/TEGEN

Yes. I Agree this.

1820 forms would include ACA/ECE, ACAGAN/ECEGEN.

1836 forms should include YUGAN/YUEGEN.

Yes. I Agree this. But all of the following words no display issue.

𑀓 (202F+ 1826+1828)

𑀓 (202F+ 1824+1833)

𑀓 (202F+ 1826+1833)

ᠰᠦ (202F+ 1824+1824)

ᠰᠦ (202F+ 1826+1826)

Greg Eck's Response – Jul 10 2015

I do not agree here as suggested above.

I have discussed this above.

ᠰᠦᠰᠦ (202F+ 1836+1822+1828)

ᠰᠦᠰᠦᠰᠦ (202F+ 1822+1836+1820+1837)

ᠰᠦᠰᠦᠰᠦ (202F+ 1822+1836+1821+1837)

ᠰᠦᠰᠦ (202F+ 1822+1836+1820+1828)

ᠰᠦᠰᠦ (202F+ 1822+1836+1821+1828)

ᠰᠦ (202F+ 1836+1822)

ᠰᠦ (202F+ 1822)

All of the other Mongolian suffixes after NNBS (or MSS) will be displayed as their original/normal forms and it is constructed with their prefix word together to be just like one word.

5. Let me list some suffixes what I want to discuss from the DS05 here.

Greg Eck's Response – Jul 10 2015

OK, I will wait for further discussion here.

Ok. Let us see if anyone have different spelling ?

ᠰᠦᠰᠦ (202F+ 1836+1822+1828)

ᠰᠦᠰᠦᠰᠦ (202F+ 1822+1836+1820+1837)

ᠠᠨᠣ (202F+ 1822+1836+1821+1837)

ᠠᠨᠣᠠ (202F+ 1822+1836+1820+1828)

ᠠᠨᠣᠨ (202F+ 1822+1836+1821+1828)

ᠠᠨᠢ (202F+ 1836+1822)

ᠠᠨᠣᠨᠠᠨᠠ (202F+ 1836+1824+182D+1820+1828)

ᠠᠨᠣᠨᠠᠨᠠᠨ (202F+ 1836+1822+182D+1821+1828)

ᠠ+other Mongolian Characters (202F+ 1836+ other Mongolian Characters)

The NNBS(Or MSS) + 1836 model will acts same with the NNBS(Or MSS) + U | UE

Model listed above.

Our fonts and our IME are same with this. Anyone have any different spells for these suffixes?

Greg Eck's Response – Jul 10 2015

Badral, do you have any lists of suffix spellings like this? Additions, questionables? Do other parties have discussion here?