Observations from James MacDonell on latest version of NgUnified keyboard (once built as an Android keyboard app) – 23/04/2021

*The issues below are consistent on both Android 10 and also the older Android 6 (but with all the latest updates to Google apps).*

Keyboard appearance:

* Prefer to have the spacebar more centred, with the comma key to the left.
* Not a problem with your keyboard in Keyman, but once processed by Keyboard App Builder, the long-press options on the top row of keys are not higher on the screen so can be obscured by your finger. Your suggestion of adding a number row would solve this (if the whole keyboard isn’t compressed into the same space as you suggest it may be!).
* Android appears to have replaced long-press on spacebar (to switch keyboards) with a small keyboard icon beside the Android control buttons. The globe icon in the Nigeria keyboard is not needed as it only allows access to other Keyman keyboards. However, I realise it may not be possible to remove this.

Keyboard function – changing of case:

* Change-to-caps after full stop (and Enter key) is working fine. Is it possible for keyboard to start with caps on when keyboard is launched?
  + **Sadly I don’t think so. That would make some sense.**
* Automatic caps release does **not** work following:
  + final uppercase A option
  + uppercase “E̱”
  + **most** consonant final options (e.g. 1st D option “Ɗ” releases caps but 2nd option does not)
    - Y option is OK
    - all N options do not release caps

Think I fixed them all.

Keyboard function – keys:

* Long-press on lowercase “d” has a final option “D” which should not be there (and doesn’t work correctly).
* Long-press on lowercase “b” has a final option “Ɓ” which should not be there (it is uppercase).
* Final uppercase N option doesn’t work (but lowercase does, though the ordering of options is different). **Fixed output and order and added missing letters. Please check.**
* Long-press lowercase “n” has a final option that should belong on the uppercase key.
  + In fact lowercase and uppercase options are not consistent (e.g. ordering and there is an uppercase “N” with “j” tail on left-hand leg but I can’t see a lowercase equivalent – though may not be needed for Nigerian languages?)
  + There are uppercase symbols represented by a lowercase graphic on the key option.
* Long-press lowercase “m” has a second option that is already on the uppercase key. By design. To save
* Long-press lowercase “s” has 2 options, the second of which seems to be the same as the regular “s” (and the first is probably not needed unless typing German!) Actually the 2nd option was capital letter, but I’m removing that for now.
* Long-press uppercase “V” has an option that is not available in lowercase (is it needed at all?). **REMOVED IT**
* Long-press uppercase “Y” is missing the first option, “Ƴ” (not missing on lowercase). **ADDED**
* If shift/uppercase enabled, comma and full-stop type chevrons (<>) as on PC keyboard but the symbols on the keys don’t change. Also, caps is not released after typing these characters (maybe intentional?). **<> changed to be what they say. Lack of switch to lower case is intentional after punctuation.**
* I am familiar with the using the latest “Gboard” keyboard for normal English typing. It has a different choice of symbols in the number keyboard. In particular, question mark and exclamation mark/point are included. I realise these are available by long-press on full stop (even on the main alphabet keyboard) and this could be more efficient. So I am not sure if this difference is just something to be learnt or if it is better to follow Gboard as a standard?