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## Title: 1120 more superscripts, subscripts and small capitals

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Purpose: Help rendering software migrate from using fake superscripts, subscripts and small capitals (shrunk and shifted versions of the base character) to real ones, in Unicode.

Justification and reference to publications requiring the referenced characters:

Currently, the Unicode is missing a lot of superscripts and subscripts. Many people don't bother to copy the superscripts and subscripts from Unicode, so they use stuff like <sup> and <sub> tags.

Unfortunately, nowadays most rendering engines render them as shrunk and shifted up/down versions of the base characters.

This could be fixed with this proposal, which adds 1120 superscripts, subscripts, small capitals and even superscripts/subscripts of superscripts/subscripts.

Here is a list of steps that could happen:

- 1. This proposal is accepted, and Unicode now has 1120 more superscripts, subscripts and small capitals.
- 2. Font designers start adding these characters to their fonts. The fonts in turn make it to updates in Windows 10, Mac OS X and Linux.
- 3. Software creators update their software like WordPad, Word, Firefox, Chrome, etc. to display superscripts and subscripts from commands (e.g. buttons for them, or <sup> and <sub> tags) as the Unicode equivalents instead of using fake superscripts and subscripts.

4. Users can now enjoy well designed superscripts and subscripts! Yay!

Needed characters are all superscripts and subscripts that should exist after this proposal, but also including some of the ones that already exist. This document will list all the needed characters, then give the already existing ones that don't need to be added to Unicode again.

Need superscripts and subscripts of:

00: 20-7E A0-FF

01: 00-13 16-2B 2E-31 34-3E 41-48 4A-4D 50-7E 8F 92

02: 59 C6-C7 D8-D9 DB-DD

1E: 02-03 0A-0B 1E-1F 40-41 56-57 60-61 6A-6B 80-85 F2-F3

20: 13-14 18-1A 1C-1E 20-22 26 30 39-3A 44 AC

21: 22 90-93

FF: FD

There are superscripts already in Unicode of: ()+-0123456789=ABDEGHIJKLMNOPRTUVWabcdefqhijklmnoprstuvwxyzÆnœə

There are subscripts already in Unicode of: ()+-0123456789=aehijklmnoprstuvxə

Need superscript superscripts, superscript subscripts, subscript superscripts and subscript subscripts of:

00: 20-7E B2-B3 BC BD

Need small capitals of:

ABCDEFGHIJKLMNOPQRSTUVWXYZÀÁÂÃÄÅÆÇÈÉÊËÌÍÎÏÐÑÒÓÔÕÖØÙÚÜÜÝÞßĀĂ ĄĆĈĊČĎÐĒĖĘĚĜĞĠĢĤĦĨĪĮİĴĶĹĻĽŁŃŅŇŊŌŐŒŔŖŘŚŜŞŠŢŤŦŨŪŬŮŰŲŴŶŸŹŻŽÐĠĎ FMPSTWWWY, space, non-breaking space

There are small capitals already in Unicode of: ABCDEFGHIJKLMNOPQRSTUVWYZÆĐŁŒ

Note: Superscript <sup>2</sup> and superscript superscript 2 are exactly the same and do not need to be added to Unicode twice. Similarly with superscript <sup>3</sup>, subscript <sup>2</sup> and subscript <sup>3</sup>.