

Universal Multiple-Octet Coded Character Set
 International Organization for Standardization
 Organisation Internationale de Normalisation
 Международная организация по стандартизации

Doc Type: Working Group Document

Title: Considerations regarding a normalized Cypro-Minoan reference font

Source: Michael Everson

Status: Liaison Contribution

Action: For consideration by JTC1/SC2/WG2 and UTC

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1. Cypro-Minoan font glyphs. The standard modern glyphs for Linear B were first drawn by architect Michael Ventris, who had training in careful lettering and indeed whose ordinary handwriting was meticulously neat. Standard shapes for Linear B, and for Cypriot and for Linear A, follow the style which he set and are implemented in fonts with a crisp monoline and with regularity between related characters.

It appears that before now, no one has tried to apply such a technique to Cypro-Minoan. This is not surprising, since most work hitherto has been focused on discerning what signs are characters and what are glyph variants. Nevertheless, as I was making some requested changes to the code chart using a font provided by the late Jean-Pierre Olivier's, it became clear that some sort of typographic order had to be imposed if the script is to be encoded in an international Standard. Olivier's Cypro-Minoan fonts, it must be admitted, are not very clear, tending towards a representation of the rounded "blobbiness" of a stylus pressed into clay, but often failing to do this well in font outlines. Since the other Aegean scripts have a clear typographic form, it makes good sense now to apply typographic conventions to Cypro-Minoan. Here is an example of some of the glyphs in Olivier's font:



Earlier this year I prepared a simple monoline font on the basis of what I could glean from Olivier's chart font. This was reviewed by some of our Cypro-Minoanist colleagues. The more conservative preferred the glyphs they are used to, which is fair enough. It is not good enough for the Universal Character Set, however. My saying so is not an indictment of Olivier's work; not everyone is a font designer and font design was not Jean-Pierre's intent. (Nor were his glyphs intended to be displayed at 60 points.) I misread the ductus and strokes that I tried to glean from Olivier's glyphs, but if that font were to be used in the code charts, the errors which I made—and worse ones—could easily be made by other designers trying to follow the same model. It's simply unavoidable that we devise a typographically reasonable font for Cypro-Minoan. The charts below show Olivier's original font, my attempt at normalizing it, Maurizio Del Freo and Massimo Perna's hand-written chart, and my final font which I recommend for use in the standard.

2. Additional Cypro-Minoan character. As the glyph repertoire for Cypro-Minoan was being finalized it became clear that there was a character which had been missed out in previous studies. Earlier analyses had given CM075 with a glyph looking like a box with a cross in it, and unified that with a glyph looking like an empty box. In fact the most common form of CM075 is an empty box, and now some Cypro-Minoan experts have agreed that the box-with-cross character should be added to repertoire as CM075B, following the character to which it is related. The new character has been highlighted in Figure 4 below; it did not appear in Figures 1–3, and so while it looks as though a new empty-box character has been added, in fact the glyph for CM075 has had its cross removed, and the new character CM075B has the cross. In the corpus of Cypro-Minoan texts the CM075 is attested at least 56 times in 7 texts, and CM075B is attested 4 times in 3 texts (on clay balls only).

3. Unicode Character Properties

12F90;CYPRO-MINOAN	SIGN	CM001;Lo;0;L; ; ; ; ;N; ; ; ;
12F91;CYPRO-MINOAN	SIGN	CM002;Lo;0;L; ; ; ; ;N; ; ; ;
12F92;CYPRO-MINOAN	SIGN	CM004;Lo;0;L; ; ; ; ;N; ; ; ;
12F93;CYPRO-MINOAN	SIGN	CM005;Lo;0;L; ; ; ; ;N; ; ; ;
12F94;CYPRO-MINOAN	SIGN	CM006;Lo;0;L; ; ; ; ;N; ; ; ;
12F95;CYPRO-MINOAN	SIGN	CM007;Lo;0;L; ; ; ; ;N; ; ; ;
12F96;CYPRO-MINOAN	SIGN	CM008;Lo;0;L; ; ; ; ;N; ; ; ;
12F97;CYPRO-MINOAN	SIGN	CM009;Lo;0;L; ; ; ; ;N; ; ; ;
12F98;CYPRO-MINOAN	SIGN	CM010;Lo;0;L; ; ; ; ;N; ; ; ;
12F99;CYPRO-MINOAN	SIGN	CM011;Lo;0;L; ; ; ; ;N; ; ; ;
12F9A;CYPRO-MINOAN	SIGN	CM012;Lo;0;L; ; ; ; ;N; ; ; ;
12F9B;CYPRO-MINOAN	SIGN	CM012B;Lo;0;L; ; ; ; ;N; ; ; ;
12F9C;CYPRO-MINOAN	SIGN	CM013;Lo;0;L; ; ; ; ;N; ; ; ;
12F9D;CYPRO-MINOAN	SIGN	CM015;Lo;0;L; ; ; ; ;N; ; ; ;
12F9E;CYPRO-MINOAN	SIGN	CM017;Lo;0;L; ; ; ; ;N; ; ; ;
12F9F;CYPRO-MINOAN	SIGN	CM019;Lo;0;L; ; ; ; ;N; ; ; ;
12FA0;CYPRO-MINOAN	SIGN	CM021;Lo;0;L; ; ; ; ;N; ; ; ;
12FA1;CYPRO-MINOAN	SIGN	CM023;Lo;0;L; ; ; ; ;N; ; ; ;
12FA2;CYPRO-MINOAN	SIGN	CM024;Lo;0;L; ; ; ; ;N; ; ; ;
12FA3;CYPRO-MINOAN	SIGN	CM025;Lo;0;L; ; ; ; ;N; ; ; ;
12FA4;CYPRO-MINOAN	SIGN	CM026;Lo;0;L; ; ; ; ;N; ; ; ;
12FA5;CYPRO-MINOAN	SIGN	CM027;Lo;0;L; ; ; ; ;N; ; ; ;
12FA6;CYPRO-MINOAN	SIGN	CM028;Lo;0;L; ; ; ; ;N; ; ; ;
12FA7;CYPRO-MINOAN	SIGN	CM029;Lo;0;L; ; ; ; ;N; ; ; ;
12FA8;CYPRO-MINOAN	SIGN	CM030;Lo;0;L; ; ; ; ;N; ; ; ;
12FA9;CYPRO-MINOAN	SIGN	CM033;Lo;0;L; ; ; ; ;N; ; ; ;
12FAA;CYPRO-MINOAN	SIGN	CM034;Lo;0;L; ; ; ; ;N; ; ; ;
12FAB;CYPRO-MINOAN	SIGN	CM035;Lo;0;L; ; ; ; ;N; ; ; ;
12FAC;CYPRO-MINOAN	SIGN	CM036;Lo;0;L; ; ; ; ;N; ; ; ;
12FAD;CYPRO-MINOAN	SIGN	CM037;Lo;0;L; ; ; ; ;N; ; ; ;
12FAE;CYPRO-MINOAN	SIGN	CM038;Lo;0;L; ; ; ; ;N; ; ; ;
12FAF;CYPRO-MINOAN	SIGN	CM039;Lo;0;L; ; ; ; ;N; ; ; ;
12FB0;CYPRO-MINOAN	SIGN	CM040;Lo;0;L; ; ; ; ;N; ; ; ;
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12FBA;CYPRO-MINOAN	SIGN	CM054;Lo;0;L; ; ; ; ;N; ; ; ;
12FBB;CYPRO-MINOAN	SIGN	CM055;Lo;0;L; ; ; ; ;N; ; ; ;
12FBC;CYPRO-MINOAN	SIGN	CM056;Lo;0;L; ; ; ; ;N; ; ; ;
12FBD;CYPRO-MINOAN	SIGN	CM058;Lo;0;L; ; ; ; ;N; ; ; ;
12FBE;CYPRO-MINOAN	SIGN	CM059;Lo;0;L; ; ; ; ;N; ; ; ;
12FBF;CYPRO-MINOAN	SIGN	CM060;Lo;0;L; ; ; ; ;N; ; ; ;
12FC0;CYPRO-MINOAN	SIGN	CM061;Lo;0;L; ; ; ; ;N; ; ; ;
12FC1;CYPRO-MINOAN	SIGN	CM062;Lo;0;L; ; ; ; ;N; ; ; ;
12FC2;CYPRO-MINOAN	SIGN	CM063;Lo;0;L; ; ; ; ;N; ; ; ;
12FC3;CYPRO-MINOAN	SIGN	CM064;Lo;0;L; ; ; ; ;N; ; ; ;
12FC4;CYPRO-MINOAN	SIGN	CM066;Lo;0;L; ; ; ; ;N; ; ; ;
12FC5;CYPRO-MINOAN	SIGN	CM067;Lo;0;L; ; ; ; ;N; ; ; ;
12FC6;CYPRO-MINOAN	SIGN	CM068;Lo;0;L; ; ; ; ;N; ; ; ;
12FC7;CYPRO-MINOAN	SIGN	CM069;Lo;0;L; ; ; ; ;N; ; ; ;
12FC8;CYPRO-MINOAN	SIGN	CM070;Lo;0;L; ; ; ; ;N; ; ; ;
12FC9;CYPRO-MINOAN	SIGN	CM071;Lo;0;L; ; ; ; ;N; ; ; ;
12FCA;CYPRO-MINOAN	SIGN	CM072;Lo;0;L; ; ; ; ;N; ; ; ;
12FCB;CYPRO-MINOAN	SIGN	CM073;Lo;0;L; ; ; ; ;N; ; ; ;
12FCC;CYPRO-MINOAN	SIGN	CM074;Lo;0;L; ; ; ; ;N; ; ; ;
12FCD;CYPRO-MINOAN	SIGN	CM075;Lo;0;L; ; ; ; ;N; ; ; ;
12FCE;CYPRO-MINOAN	SIGN	CM075B;Lo;0;L; ; ; ; ;N; ; ; ;
12FCF;CYPRO-MINOAN	SIGN	CM076;Lo;0;L; ; ; ; ;N; ; ; ;
12FD0;CYPRO-MINOAN	SIGN	CM078;Lo;0;L; ; ; ; ;N; ; ; ;
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12FD2;CYPRO-MINOAN	SIGN	CM080;Lo;0;L; ; ; ; ;N; ; ; ;
12FD3;CYPRO-MINOAN	SIGN	CM081;Lo;0;L; ; ; ; ;N; ; ; ;
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12FD9;CYPRO-MINOAN	SIGN	CM087;Lo;0;L; ; ; ; ;N; ; ; ;
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12FDB;CYPRO-MINOAN	SIGN	CM089;Lo;0;L; ; ; ; ;N; ; ; ;
12FDC;CYPRO-MINOAN	SIGN	CM090;Lo;0;L; ; ; ; ;N; ; ; ;
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12FDE;CYPRO-MINOAN	SIGN	CM092;Lo;0;L; ; ; ; ;N; ; ; ;
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12FE8;CYPRO-MINOAN	SIGN	CM103;Lo;0;L; ; ; ; ;N; ; ; ;
12FE9;CYPRO-MINOAN	SIGN	CM104;Lo;0;L; ; ; ; ;N; ; ; ;
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12FEB;CYPRO-MINOAN	SIGN	CM107;Lo;0;L; ; ; ; ;N; ; ; ;
12FEC;CYPRO-MINOAN	SIGN	CM108;Lo;0;L; ; ; ; ;N; ; ; ;
12FED;CYPRO-MINOAN	SIGN	CM109;Lo;0;L; ; ; ; ;N; ; ; ;
12FEE;CYPRO-MINOAN	SIGN	CM110;Lo;0;L; ; ; ; ;N; ; ; ;
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12FF1;CYPRO-MINOAN	SIGN	CM301;Po;0;L; ; ; ; ;N; ; ; ;
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





























































































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9	 12709	 12719	 12729	 12739	 12749	 12759	
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C	 1270C	 1271C	 1272C	 1273C	 1274C	 1275C	
D	 1270D	 1271D	 1272D	 1273D	 1274D	 1275D	
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Figure 1. Code chart using a font provided by Jean-Paul Olivier.



































































































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2	 12702	 12712	 12722	 12732	 12742	 12752	
3	 12703	 12713	 12723	 12733	 12743	 12753	
4	 12704	 12714	 12724	 12734	 12744	 12754	
5	 12705	 12715	 12725	 12735	 12745	 12755	
6	 12706	 12716	 12726	 12736	 12746	 12756	
7	 12707	 12717	 12727	 12737	 12747	 12757	
8	 12708	 12718	 12728	 12738	 12748	 12758	
9	 12709	 12719	 12729	 12739	 12749	 12759	
A	 1270A	 1271A	 1272A	 1273A	 1274A	 1275A	
B	 1270B	 1271B	 1272B	 1273B	 1274B	 1275B	
C	 1270C	 1271C	 1272C	 1273C	 1274C	 1275C	
D	 1270D	 1271D	 1272D	 1273D	 1274D	 1275D	
E	 1270E	 1271E	 1272E	 1273E	 1274E	 1275E	
F	 1270F	 1271F	 1272F	 1273F	 1274F	 1275F	

Figure 2. Code chart using a font by Michael Everson, attempting to follow the ductus used in Jean-Paul Olivier's font as shown in Figure 1.



































































































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D	 1270D	 1271D	 1272D	 1273D	 1274D	 1275D	
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Figure 3. Code chart with glyphs drawn by hand by Maurizio Del Freo and Massimo Perna.

















































































































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1	 12F91	 12FA1	 12FB1	 12FC1	 12FD1	 12FE1	 12FF1
2	 12F92	 12FA2	 12FB2	 12FC2	 12FD2	 12FE2	 12FF2
3	 12F93	 12FA3	 12FB3	 12FC3	 12FD3	 12FE3	
4	 12F94	 12FA4	 12FB4	 12FC4	 12FD4	 12FE4	
5	 12F95	 12FA5	 12FB5	 12FC5	 12FD5	 12FE5	
6	 12F96	 12FA6	 12FB6	 12FC6	 12FD6	 12FE6	
7	 12F97	 12FA7	 12FB7	 12FC7	 12FD7	 12FE7	
8	 12F98	 12FA8	 12FB8	 12FC8	 12FD8	 12FE8	
9	 12F99	 12FA9	 12FB9	 12FC9	 12FD9	 12FE9	
A	 12F9A	 12FAA	 12FBA	 12FCA	 12FDA	 12FEA	
B	 12F9B	 12FAB	 12FBB	 12FCB	 12FDB	 12FEB	
C	 12F9C	 12FAC	 12FBC	 12FCC	 12FDC	 12FEC	
D	 12F9D	 12FAD	 12FBD	 12FCD	 12FDD	 12FED	
E	 12F9E	 12FAE	 12FBE	 12FCE	 12FDE	 12FEE	
F	 12F9F	 12FAF	 12FBF	 12FCF	 12FDF	 12FEF	

Figure 4. Code chart using a font by Michael Everson, attempting to follow the ductus used by Maurizio Del Freo and Massimo Perna as shown in Figure 3.