

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

**Doc Type: Working Group Document**

**Title: Preliminary Proposal to encode Ornamental Dingbats present on Apple devices**

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**Status: Individual Contribution**

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

**Date: 2012-05-06**

## **1. Introduction**

Recently, the Wingdings/Webdings symbol set was decided to be encoded due to its widespread accessibility on a large set of equipment (especially, but not confined to, computers equipped with Microsoft's Windows operating system), without having to prove the actual use of every single symbol in real existing text.

This argument also applies to the Bodoni Ornaments symbol set present on every mobile device (iPhone, iPad) recently produced by Apple. Moreover, the access to these symbols is far more easy to the common user, as the symbols are contained in a font (also named "Bodoni Ornaments") where they are mapped to the basic set of Latin characters, decimal digits and punctuation marks. Thus, the common user is invited to simply type letters using the standard keyboard (rather than being obliged to access symbol tables or other input methods).

This is demonstrated in fig. 2 to 4 (see the end of this document before the summary form).

Of course, mapping symbols to other encoded characters is an obsolete technology. (The handling of emoji on the same devices by e.g. supplying easily switchable virtual keyboards proves that up-to-date technology can be applied without compromises on the user's experience.)

To ensure that the use of such symbols is in accordance with up-to-date technology (and thus ensuring the identity of the text using such symbols), it is necessary to encode them as Unicode characters.

This is proposed here.

In doing this, a similar ornamental symbol set is included:

On all recent Macintosh computers produced by the same manufacturer (Apple), there is a font "Hoefler Text Ornaments" delivered as part of the operating system. This font uses PUA code points, in the same way as the Wingdings/Webdings set mentioned above. Thus, it can be used in documents which will be transferred to other equipment (unlike the "Apple Symbols" font also surveyed in WG2 N4127, where the symbols are only accessible by glyph names but not by code points, thus only can be accessed by operating system components in the first line.)

### **1a. Notes on this preliminary proposal**

*In this document, fonts are used which resemble the glyphs of the original Apple fonts.*

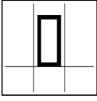
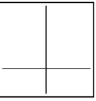
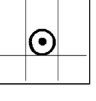
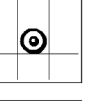


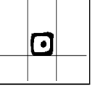
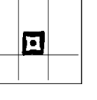

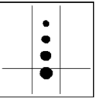
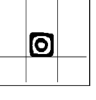
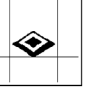
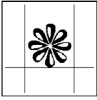
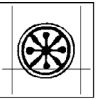
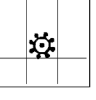
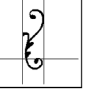
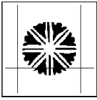


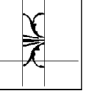
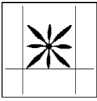
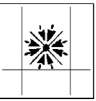
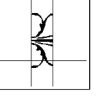
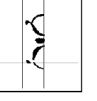

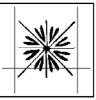
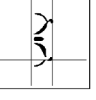
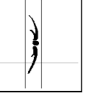
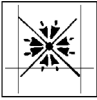
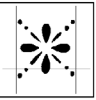
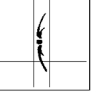

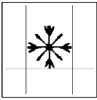
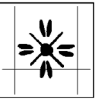
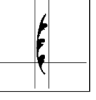


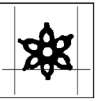

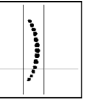
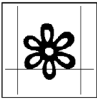
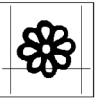
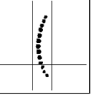
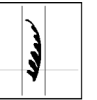

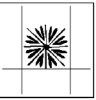
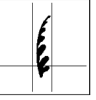
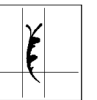




*The final proposal has to use glyph designs which are in line with other representative glyphs in the Unicode charts, thus being less fancy and more abstract. The latter especially applies to the symbols proposed to be included in the "Geometric Shapes Extended" block.*

*Also, the character names now relying on the font name and glyph index need to be reworked.*





















*The author of this preliminary document would be glad if he can hand over the work to the experts which worked on the Wingdings/Webdings set.*

## 2. The font "Bodoni Ornaments" as found on Apple iPhone and iPad devices

The repertoire is as follows (taken from a Font Report generated by FontLab):

	<b>.notdef</b> Index: 0 Nodes: 8, Contours: 2 BBox: (63, 0) - (438, 809) LSB: 63, RSB: 62, Width: 500 lsb: 63, rsb: 62, width: 375		<b>NULL</b> Index: 1 Nodes: 0, Contours: 0 Width: 0		<b>eight</b> Index: 26, Unicode: 0038 Nodes: 41, Contours: 3 BBox: (46, -7) - (475, 424) LSB: 46, RSB: 46, Width: 521 lsb: 70, rsb: 69, width: 382		<b>nine</b> Index: 27, Unicode: 0039 Nodes: 50, Contours: 4 BBox: (43, -5) - (458, 402) LSB: 43, RSB: 44, Width: 502 lsb: 71, rsb: 75, width: 356
	<b>CR</b> Index: 2 Nodes: 0, Contours: 0 Width: 250		<b>space</b> Index: 3, Unicode: 0020 Nodes: 0, Contours: 0 Width: 250		<b>colon</b> Index: 28, Unicode: 003A Nodes: 61, Contours: 3 BBox: (52, -4) - (412, 369) LSB: 52, RSB: 48, Width: 460 lsb: 57, rsb: 48, width: 355		<b>semicolon</b> Index: 29, Unicode: 003B Nodes: 68, Contours: 3 BBox: (59, -16) - (413, 382) LSB: 59, RSB: 60, Width: 473 lsb: 68, rsb: 60, width: 345
	<b>exclam</b> Index: 4, Unicode: 0021 Nodes: 683, Contours: 39 BBox: (101, -163) - (1070, 787) LSB: 101, RSB: 101, Width: 117 lsb: 481, rsb: 337, width: 353		<b>quotedbl</b> Index: 5, Unicode: 0022 Nodes: 48, Contours: 4 BBox: (122, -172) - (329, 767) LSB: 122, RSB: 122, Width: 451		<b>less</b> Index: 30, Unicode: 003C Nodes: 62, Contours: 4 BBox: (59, -10) - (439, 391) LSB: 59, RSB: 59, Width: 498 lsb: 59, rsb: 59, width: 380		<b>equal</b> Index: 31, Unicode: 003D Nodes: 75, Contours: 3 BBox: (44, -3) - (710, 408) LSB: 44, RSB: 44, Width: 754 lsb: 200, rsb: 215, width: 339
	<b>numbersign</b> Index: 6, Unicode: 0023 Nodes: 239, Contours: 16 BBox: (49, 0) - (737, 695) LSB: 49, RSB: 49, Width: 786 lsb: 64, rsb: 59, width: 663		<b>dollar</b> Index: 7, Unicode: 0024 Nodes: 259, Contours: 7 BBox: (84, -153) - (999, 732) LSB: 84, RSB: 90, Width: 1089 lsb: 84, rsb: 90, width: 915		<b>greater</b> Index: 32, Unicode: 003E Nodes: 166, Contours: 3 BBox: (37, -14) - (454, 409) LSB: 37, RSB: 43, Width: 497 lsb: 149, rsb: 62, width: 286		<b>question</b> Index: 33, Unicode: 003F Nodes: 104, Contours: 1 BBox: (-1, -168) - (337, 774) LSB: -1, RSB: 0, Width: 337 lsb: 77, rsb: 194, width: 66
	<b>percent</b> Index: 8, Unicode: 0025 Nodes: 374, Contours: 16 BBox: (70, -120) - (930, 736) LSB: 70, RSB: 70, Width: 1000 lsb: 75, rsb: 70, width: 855		<b>ampersand</b> Index: 9, Unicode: 0026 Nodes: 127, Contours: 2 BBox: (97, -150) - (1337, 724) LSB: 97, RSB: 97, Width: 1434 lsb: 102, rsb: 105, width: 1227		<b>at</b> Index: 34, Unicode: 0040 Nodes: 107, Contours: 1 BBox: (0, -168) - (337, 775) LSB: 0, RSB: 0, Width: 337 lsb: 194, rsb: 80, width: 63		<b>A</b> Index: 35, Unicode: 0041 Nodes: 171, Contours: 5 BBox: (0, -112) - (348, 752) LSB: 0, RSB: 0, Width: 348 lsb: 1, rsb: 150, width: 197
	<b>parenleft</b> Index: 10, Unicode: 0028 Nodes: 138, Contours: 1 BBox: (60, -6) - (780, 710) LSB: 60, RSB: 60, Width: 840 lsb: 344, rsb: 364, width: 132		<b>parenright</b> Index: 11, Unicode: 0029 Nodes: 273, Contours: 15 BBox: (42, 0) - (738, 718) LSB: 42, RSB: 42, Width: 780 lsb: 127, rsb: 121, width: 532		<b>B</b> Index: 36, Unicode: 0042 Nodes: 174, Contours: 5 BBox: (-1, -112) - (348, 752) LSB: -1, RSB: 0, Width: 348 lsb: 128, rsb: 2, width: 218		<b>C</b> Index: 37, Unicode: 0043 Nodes: 119, Contours: 5 BBox: (43, -105) - (351, 780) LSB: 43, RSB: -11, Width: 348 lsb: 258, rsb: 55, width: 27
	<b>asterisk</b> Index: 12, Unicode: 002A Nodes: 333, Contours: 24 BBox: (45, 0) - (751, 717) LSB: 45, RSB: 45, Width: 796 lsb: 96, rsb: 88, width: 612		<b>plus</b> Index: 13, Unicode: 002B Nodes: 317, Contours: 9 BBox: (42, -150) - (971, 785) LSB: 42, RSB: 29, Width: 1000 lsb: 459, rsb: 441, width: 100		<b>D</b> Index: 38, Unicode: 0044 Nodes: 117, Contours: 5 BBox: (43, -105) - (351, 780) LSB: 43, RSB: -11, Width: 340 lsb: 118, rsb: 207, width: 15		<b>E</b> Index: 39, Unicode: 0045 Nodes: 78, Contours: 3 BBox: (41, -171) - (215, 780) LSB: 41, RSB: 40, Width: 255 lsb: 117, rsb: 40, width: 96
	<b>comma</b> Index: 14, Unicode: 002C Nodes: 314, Contours: 17 BBox: (0, -148) - (976, 810) LSB: 0, RSB: 16, Width: 992 lsb: 183, rsb: 181, width: 628		<b>hyphen</b> Index: 15, Unicode: 002D 2010 Nodes: 175, Contours: 16 BBox: (22, -150) - (933, 783) LSB: 22, RSB: 22, Width: 955 lsb: 68, rsb: 100, width: 787		<b>F</b> Index: 40, Unicode: 0046 Nodes: 72, Contours: 3 BBox: (40, -171) - (212, 759) LSB: 40, RSB: 43, Width: 255 lsb: 40, rsb: 118, width: 97		<b>G</b> Index: 41, Unicode: 0047 Nodes: 87, Contours: 3 BBox: (30, -181) - (197, 798) LSB: 30, RSB: 30, Width: 227 lsb: 83, rsb: 30, width: 114
	<b>period</b> Index: 16, Unicode: 002E Nodes: 244, Contours: 1 BBox: (23, -1) - (728, 687) LSB: 23, RSB: 20, Width: 748 lsb: 72, rsb: 76, width: 600		<b>slash</b> Index: 17, Unicode: 002F Nodes: 172, Contours: 9 BBox: (45, -150) - (955, 787) LSB: 45, RSB: 45, Width: 1000 lsb: 197, rsb: 389, width: 414		<b>H</b> Index: 42, Unicode: 0048 Nodes: 91, Contours: 1 BBox: (22, -189) - (205, 768) LSB: 22, RSB: 22, Width: 227 lsb: 24, rsb: 96, width: 107		<b>I</b> Index: 43, Unicode: 0049 Nodes: 44, Contours: 1 BBox: (37, -169) - (317, 801) LSB: 37, RSB: 33, Width: 350 lsb: 218, rsb: 41, width: 91
	<b>zero</b> Index: 18, Unicode: 0030 Nodes: 139, Contours: 1 BBox: (72, -176) - (933, 783) LSB: 72, RSB: 67, Width: 1000 lsb: 365, rsb: 378, width: 257		<b>one</b> Index: 19, Unicode: 0031 Nodes: 214, Contours: 8 BBox: (49, -180) - (942, 753) LSB: 49, RSB: 58, Width: 1000 lsb: 169, rsb: 197, width: 634		<b>J</b> Index: 44, Unicode: 004A Nodes: 40, Contours: 1 BBox: (30, -184) - (318, 757) LSB: 30, RSB: 29, Width: 347 lsb: 39, rsb: 222, width: 86		<b>K</b> Index: 45, Unicode: 004B Nodes: 142, Contours: 13 BBox: (65, -191) - (264, 778) LSB: 65, RSB: 66, Width: 330 lsb: 183, rsb: 70, width: 77
	<b>two</b> Index: 20, Unicode: 0032 Nodes: 164, Contours: 8 BBox: (89, -168) - (911, 729) LSB: 89, RSB: 89, Width: 1000 lsb: 236, rsb: 316, width: 448		<b>three</b> Index: 21, Unicode: 0033 Nodes: 179, Contours: 10 BBox: (95, -157) - (1035, 770) LSB: 95, RSB: 95, Width: 1130 lsb: 98, rsb: 105, width: 927		<b>L</b> Index: 46, Unicode: 004C Nodes: 137, Contours: 13 BBox: (57, -191) - (257, 778) LSB: 57, RSB: 55, Width: 312 lsb: 60, rsb: 175, width: 77		<b>M</b> Index: 47, Unicode: 004D Nodes: 90, Contours: 1 BBox: (46, -189) - (303, 793) LSB: 46, RSB: 63, Width: 366 lsb: 238, rsb: 64, width: 64
	<b>four</b> Index: 22, Unicode: 0034 Nodes: 258, Contours: 18 BBox: (52, -150) - (948, 764) LSB: 52, RSB: 52, Width: 1000 lsb: 354, rsb: 337, width: 309		<b>five</b> Index: 23, Unicode: 0035 Nodes: 318, Contours: 9 BBox: (33, -4) - (740, 709) LSB: 33, RSB: 33, Width: 773 lsb: 90, rsb: 128, width: 555		<b>N</b> Index: 48, Unicode: 004E Nodes: 84, Contours: 1 BBox: (63, -184) - (288, 791) LSB: 63, RSB: 30, Width: 318 lsb: 66, rsb: 101, width: 151		<b>O</b> Index: 49, Unicode: 004F Nodes: 84, Contours: 1 BBox: (52, -172) - (304, 780) LSB: 52, RSB: 41, Width: 345 lsb: 65, rsb: 224, width: 56
	<b>six</b> Index: 24, Unicode: 0036 Nodes: 129, Contours: 1 BBox: (25, -183) - (1001, 773) LSB: 25, RSB: 25, Width: 1028 lsb: 28, rsb: 26, width: 972		<b>seven</b> Index: 25, Unicode: 0037 Nodes: 44, Contours: 3 BBox: (45, -9) - (452, 414) LSB: 45, RSB: 46, Width: 498 lsb: 65, rsb: 66, width: 365		<b>P</b> Index: 50, Unicode: 0050 Nodes: 74, Contours: 1 BBox: (70, -185) - (285, 750) LSB: 70, RSB: 81, Width: 366 lsb: 208, rsb: 90, width: 68		<b>Q</b> Index: 51, Unicode: 0051 Nodes: 67, Contours: 1 BBox: (10, -150) - (632, 796) LSB: 10, RSB: 11, Width: 643 lsb: 175, rsb: 355, width: 113

	<b>R</b> Index: 52, Unicode: 0052 Nodes: 51, Contours: 1 BBox: (10, -150) - (631, 796) LSB: 10, RSB: 11, Width: 642 lsb: 355, rsb: 174, width: 113		<b>S</b> Index: 53, Unicode: 0053 Nodes: 109, Contours: 1 BBox: (37, -176) - (561, 780) LSB: 37, RSB: 7, Width: 568 lsb: 321, rsb: 76, width: 171		<b>I</b> Index: 78, Unicode: 006C Nodes: 112, Contours: 2 BBox: (54, -185) - (1527, 721) LSB: 54, RSB: 54, Width: 1581 lsb: 75, rsb: 62, width: 1444		<b>m</b> Index: 79, Unicode: 006D Nodes: 236, Contours: 6 BBox: (11, -128) - (1159, 736) LSB: 11, RSB: 11, Width: 1170 lsb: 176, rsb: 198, width: 796
	<b>T</b> Index: 54, Unicode: 0054 Nodes: 115, Contours: 1 BBox: (24, -141) - (600, 760) LSB: 24, RSB: 24, Width: 624 lsb: 116, rsb: 308, width: 200		<b>U</b> Index: 55, Unicode: 0055 Nodes: 75, Contours: 1 BBox: (63, -171) - (418, 770) LSB: 63, RSB: 63, Width: 481 lsb: 168, rsb: 164, width: 149		<b>n</b> Index: 80, Unicode: 006E Nodes: 165, Contours: 3 BBox: (18, -171) - (1434, 759) LSB: 18, RSB: 18, Width: 1452 lsb: 530, rsb: 562, width: 360		<b>o</b> Index: 81, Unicode: 006F Nodes: 187, Contours: 6 BBox: (61, -165) - (1068, 764) LSB: 61, RSB: 63, Width: 1170 lsb: 387, rsb: 391, width: 353
	<b>V</b> Index: 56, Unicode: 0056 Nodes: 77, Contours: 1 BBox: (67, -170) - (414, 754) LSB: 67, RSB: 66, Width: 480 lsb: 169, rsb: 194, width: 117		<b>W</b> Index: 57, Unicode: 0057 Nodes: 62, Contours: 1 BBox: (50, -163) - (477, 753) LSB: 50, RSB: 55, Width: 532 lsb: 213, rsb: 276, width: 43		<b>p</b> Index: 82, Unicode: 0070 Nodes: 236, Contours: 2 BBox: (80, -163) - (545, 774) LSB: 80, RSB: 82, Width: 627 lsb: 285, rsb: 297, width: 45		<b>q</b> Index: 83, Unicode: 0071 Nodes: 526, Contours: 11 BBox: (53, -186) - (1051, 784) LSB: 53, RSB: 53, Width: 1104 lsb: 208, rsb: 233, width: 662
	<b>X</b> Index: 58, Unicode: 0058 Nodes: 63, Contours: 1 BBox: (62, -185) - (474, 755) LSB: 62, RSB: 62, Width: 536 lsb: 268, rsb: 231, width: 37		<b>Y</b> Index: 59, Unicode: 0059 Nodes: 114, Contours: 3 BBox: (36, -159) - (1187, 748) LSB: 36, RSB: 13, Width: 1200 lsb: 36, rsb: 13, width: 1151		<b>r</b> Index: 84, Unicode: 0072 Nodes: 280, Contours: 2 BBox: (41, -147) - (777, 789) LSB: 41, RSB: 42, Width: 819 lsb: 104, rsb: 178, width: 537		<b>s</b> Index: 85, Unicode: 0073 Nodes: 302, Contours: 4 BBox: (54, -178) - (847, 784) LSB: 54, RSB: 55, Width: 902 lsb: 79, rsb: 65, width: 758
	<b>Z</b> Index: 60, Unicode: 005A Nodes: 119, Contours: 3 BBox: (36, -159) - (1187, 748) LSB: 36, RSB: 13, Width: 1200 lsb: 36, rsb: 13, width: 1151		<b>bracketleft</b> Index: 61, Unicode: 005B Nodes: 104, Contours: 1 BBox: (16, 74) - (1598, 500) LSB: 16, RSB: 29, Width: 1627 lsb: 264, rsb: 224, width: 1139		<b>t</b> Index: 88, Unicode: 0074 Nodes: 350, Contours: 2 BBox: (28, -175) - (1189, 781) LSB: 26, RSB: 25, Width: 1214 lsb: 324, rsb: 301, width: 589		<b>u</b> Index: 87, Unicode: 0075 Nodes: 196, Contours: 2 BBox: (58, -150) - (507, 758) LSB: 58, RSB: 64, Width: 565 lsb: 147, rsb: 136, width: 282
	<b>backslash</b> Index: 62, Unicode: 005C Nodes: 103, Contours: 1 BBox: (14, 74) - (1595, 500) LSB: 14, RSB: 32, Width: 1627 lsb: 230, rsb: 278, width: 1118		<b>bracketright</b> Index: 63, Unicode: 005D Nodes: 84, Contours: 1 BBox: (35, -135) - (914, 746) LSB: 35, RSB: 35, Width: 949 lsb: 35, rsb: 714, width: 200		<b>v</b> Index: 88, Unicode: 0076 Nodes: 226, Contours: 6 BBox: (46, -141) - (530, 757) LSB: 46, RSB: 46, Width: 576 lsb: 187, rsb: 228, width: 161		<b>w</b> Index: 89, Unicode: 0077 Nodes: 256, Contours: 12 BBox: (72, -185) - (877, 773) LSB: 72, RSB: 72, Width: 859 lsb: 119, rsb: 142, width: 598
	<b>asciircum</b> Index: 64, Unicode: 005E Nodes: 83, Contours: 1 BBox: (35, -135) - (914, 746) LSB: 35, RSB: 35, Width: 949 lsb: 699, rsb: 42, width: 208		<b>underscore</b> Index: 65, Unicode: 005F Nodes: 71, RSB: 17, Width: 823 lsb: 100, rsb: 98, width: 79		<b>x</b> Index: 90, Unicode: 0078 Nodes: 221, Contours: 3 BBox: (35, -132) - (865, 774) LSB: 35, RSB: 35, Width: 1000 lsb: 74, rsb: 104, width: 622		<b>y</b> Index: 91, Unicode: 0079 Nodes: 195, Contours: 2 BBox: (65, -150) - (880, 807) LSB: 65, RSB: 64, Width: 944 lsb: 106, rsb: 97, width: 741
	<b>grave</b> Index: 66, Unicode: 0060 Nodes: 55, Contours: 4 BBox: (42, -181) - (382, 775) LSB: 42, RSB: 42, Width: 424 lsb: 188, rsb: 188, width: 48		<b>a</b> Index: 67, Unicode: 0061 Nodes: 129, Contours: 2 BBox: (18, -150) - (808, 763) LSB: 18, RSB: 17, Width: 823 lsb: 116, rsb: 146, width: 561		<b>z</b> Index: 92, Unicode: 007A Nodes: 114, Contours: 2 BBox: (8, -155) - (866, 767) LSB: 8, RSB: 9, Width: 975 lsb: 329, rsb: 275, width: 371		<b>braceleft</b> Index: 93, Unicode: 007B Nodes: 108, Contours: 4 BBox: (6, -165) - (1026, 776) LSB: -6, RSB: 0, Width: 1026 lsb: 42, rsb: 41, width: 943
	<b>b</b> Index: 68, Unicode: 0062 Nodes: 76, Contours: 1 BBox: (76, -150) - (493, 784) LSB: 78, RSB: 77, Width: 570 lsb: 150, rsb: 161, width: 259		<b>c</b> Index: 69, Unicode: 0063 Nodes: 140, Contours: 1 BBox: (55, -161) - (1441, 756) LSB: 55, RSB: 24, Width: 1465 lsb: 424, rsb: 444, width: 597		<b>bar</b> Index: 94, Unicode: 007C Nodes: 51, Contours: 1 BBox: (-2, -95) - (1599, 695) LSB: -2, RSB: -1, Width: 1598 lsb: 587, rsb: 561, width: 450		<b>braceright</b> Index: 95, Unicode: 007D Nodes: 351, Contours: 26 BBox: (-33, -151) - (749, 796) LSB: -33, RSB: -1, Width: 742 lsb: 333, rsb: -6, width: 415
	<b>d</b> Index: 70, Unicode: 0064 Nodes: 172, Contours: 1 BBox: (47, -187) - (1043, 774) LSB: 47, RSB: 47, Width: 1080 lsb: 201, rsb: 205, width: 684		<b>e</b> Index: 71, Unicode: 0065 Nodes: 156, Contours: 3 BBox: (32, -168) - (1627, 732) LSB: 32, RSB: 22, Width: 1649 lsb: 548, rsb: 554, width: 547		<b>dagger</b> Index: 96, Unicode: 2020 Nodes: 318, Contours: 3 BBox: (16, -107) - (1938, 775) LSB: 16, RSB: 19, Width: 1957 lsb: 30, rsb: 293, width: 1634		<b>degree</b> Index: 97, Unicode: 00B0 Nodes: 70, Contours: 1 BBox: (16, -21) - (353, 528) LSB: 16, RSB: -1, Width: 352 lsb: 40, rsb: 54, width: 258
	<b>f</b> Index: 72, Unicode: 0066 Nodes: 135, Contours: 4 BBox: (44, -178) - (1347, 764) LSB: 44, RSB: 30, Width: 1377 lsb: 104, rsb: 104, width: 1189		<b>g</b> Index: 73, Unicode: 0067 Nodes: 179, Contours: 5 BBox: (50, -58) - (1184, 662) LSB: 50, RSB: 50, Width: 1234 lsb: 133, rsb: 184, width: 917		<b>cent</b> Index: 98, Unicode: 00A2 Nodes: 300, Contours: 1 BBox: (17, -111) - (1931, 747) LSB: 17, RSB: 56, Width: 1987 lsb: 291, rsb: 217, width: 1479		<b>sterling</b> Index: 99, Unicode: 00A3 Nodes: 198, Contours: 1 BBox: (100, -15) - (1176, 713) LSB: 100, RSB: 6, Width: 1182 lsb: 449, rsb: 251, width: 482
	<b>h</b> Index: 74, Unicode: 0068 Nodes: 121, Contours: 6 BBox: (65, -173) - (1635, 784) LSB: 65, RSB: 52, Width: 1587 lsb: 389, rsb: 390, width: 808		<b>i</b> Index: 75, Unicode: 0069 Nodes: 237, Contours: 2 BBox: (72, -151) - (1068, 789) LSB: 72, RSB: 84, Width: 1152 lsb: 97, rsb: 130, width: 925		<b>section</b> Index: 100, Unicode: 00A7 Nodes: 125, Contours: 4 BBox: (21, -20) - (461, 778) LSB: 21, RSB: 18, Width: 479 lsb: 177, rsb: 189, width: 113		<b>bullet</b> Index: 101, Unicode: 2022 Nodes: 220, Contours: 1 BBox: (6, -17) - (1061, 726) LSB: 6, RSB: 100, Width: 1161 lsb: 257, rsb: 455, width: 449
	<b>j</b> Index: 76, Unicode: 006A Nodes: 159, Contours: 6 BBox: (65, -150) - (737, 772) LSB: 65, RSB: 66, Width: 803 lsb: 68, rsb: 68, width: 671		<b>k</b> Index: 77, Unicode: 006B Nodes: 180, Contours: 7 BBox: (68, -150) - (880, 765) LSB: 68, RSB: 74, Width: 1054 lsb: 245, rsb: 240, width: 569		<b>paragraph</b> Index: 102, Unicode: 00B6 Nodes: 159, Contours: 1 BBox: (34, -151) - (1048, 752) LSB: 34, RSB: 0, Width: 1048 lsb: 35, rsb: 45, width: 968		<b>germandbls</b> Index: 103, Unicode: 00DF Nodes: 342, Contours: 1 BBox: (-2, -138) - (2136, 764) LSB: -2, RSB: 68, Width: 2202 lsb: 292, rsb: 68, width: 1842

	<b>registered</b> Index: 104, Unicode: 00AE Nodes: 214, Contours: 7 BBox: (-12, -160) - (821, 758) LSB: -12, RSB: -12, Width: 809 lsb: -12, rsb: -12, width: 833			<b>copyright</b> Index: 105, Unicode: 00A9 Nodes: 115, Contours: 1 BBox: (31, -36) - (2066, 785) LSB: 31, RSB: -8, Width: 2058 lsb: 72, rsb: -8, width: 1994			
	<b>trademark</b> Index: 106, Unicode: 2122 Nodes: 133, Contours: 1 BBox: (10, -143) - (1878, 704) LSB: 10, RSB: 10, Width: 1888 lsb: 78, rsb: 57, width: 1753		<b>yen</b> Index: 116, Unicode: 00A5 Nodes: 163, Contours: 7 BBox: (100, -1) - (1576, 538) LSB: 100, RSB: 5, Width: 1581 lsb: 314, rsb: 8, width: 1259		<b>acute</b> Index: 107, Unicode: 00B4 Nodes: 67, Contours: 1 BBox: (10, -36) - (997, 707) LSB: 10, RSB: 0, Width: 997 lsb: 14, rsb: 265, width: 718		<b>greaterthanorequal</b> Index: 115, Unicode: 2265 Nodes: 159, Contours: 5 BBox: (-3, -155) - (1769, 618) LSB: -3, RSB: 3, Width: 1772 lsb: 160, rsb: 144, width: 1488
	<b>dieresis</b> Index: 108, Unicode: 00A8 Nodes: 84, Contours: 1 BBox: (0, -35) - (1003, 712) LSB: 0, RSB: 10, Width: 1013 lsb: 305, rsb: 22, width: 686		<b>partialdiff</b> Index: 118, Unicode: 2202 Nodes: 29, Contours: 1 BBox: (0, -52) - (2784, 39) LSB: 0, RSB: 2, Width: 2766		<b>notequal</b> Index: 109, Unicode: 2260 Nodes: 72, Contours: 1 BBox: (55, -122) - (839, 706) LSB: 55, RSB: 35, Width: 874 lsb: 56, rsb: 78, width: 740		<b>mu</b> Index: 117, Unicode: 00B5 03BC Nodes: 161, Contours: 7 BBox: (4, 12) - (1477, 554) LSB: 4, RSB: 102, Width: 1579 lsb: 10, rsb: 351, width: 1218
	<b>AE</b> Index: 110, Unicode: 00C6 Nodes: 72, Contours: 1 BBox: (41, -143) - (853, 710) LSB: 41, RSB: 113, Width: 966 lsb: 62, rsb: 113, width: 791		<b>product</b> Index: 120, Unicode: 220F Nodes: 60, Contours: 1 BBox: (33, -37) - (2767, 82) LSB: 33, RSB: 33, Width: 2800		<b>Oslash</b> Index: 111, Unicode: 00D8 Nodes: 41, Contours: 2 BBox: (17, -96) - (364, 693) LSB: 17, RSB: 43, Width: 407 lsb: 145, rsb: 169, width: 93		<b>summation</b> Index: 119, Unicode: 2211 Nodes: 61, Contours: 2 BBox: (16, -74) - (2765, 55) LSB: 16, RSB: 7, Width: 2772
	<b>infinity</b> Index: 112, Unicode: 221E Nodes: 51, Contours: 2 BBox: (20, -85) - (631, 719) LSB: 20, RSB: 20, Width: 651 lsb: 22, rsb: 22, width: 607		<b>quoteright</b> Index: 122, Unicode: 0027 Nodes: 128, Contours: 10 BBox: (53, 0) - (718, 700) LSB: 53, RSB: 53, Width: 771 lsb: 74, rsb: 103, width: 594		<b>plusminus</b> Index: 113, Unicode: 00B1 Nodes: 60, Contours: 1 BBox: (0, -172) - (592, 708) LSB: 0, RSB: -10, Width: 582 lsb: 443, rsb: 59, width: 80		<b>pi</b> Index: 121, Unicode: 03C0 Nodes: 62, Contours: 2 BBox: (25, -56) - (2750, 193) LSB: 25, RSB: 26, Width: 2776
	<b>lessequal</b> Index: 114, Unicode: 2264 Nodes: 59, Contours: 1 BBox: (-17, -174) - (544, 721) LSB: -17, RSB: 0, Width: 544 lsb: 53, rsb: 377, width: 114						

The following unifications are proposed:



(glyph at U+0021): U+1F31E SUN WITH FACE





























































(glyph at U+0036): U+274B HEAVY EIGHT TEARDROP-SPOKED PROPELLER ASTERISK

The symbols  $\sum$  (glyph at U+2264) and  $:\sum$  (glyph at U+00B1) are considered as ornaments rather than mathematical characters, and therefore are not unified.



### 3. The font "Hoefler Text Ornaments" as found on Apple Mac computers

The repertoire is as follows (taken from a Font Report generated by FontLab):

 <p>.notdef Index: 0 Nodes: 8, Contours: 2 BBBox: (100, 0) - (1500, 1600) LSB: 100, RSB: 100, Width: 1400</p>	 <p>uni0000 Index: 1, Unicode: 0000 0008 001D Nodes: 0, Contours: 0 Width: 0</p>	 <p>orn.border.arab.engraved.scroll.v.d.r Index: 26, Unicode: F04E Nodes: 122, Contours: 3 BBBox: (-28, -416) - (1999, 1627) LSB: -28, RSB: 1, Width: 2000 lsb: 114, rsb: 35, width: 1851</p>	 <p>orn.border.arab.engraved.scroll.v.u.l Index: 27, Unicode: F04F Nodes: 122, Contours: 3 BBBox: (0, -428) - (2027, 1615) LSB: 0, RSB: -27, Width: 2000 lsb: 45, rsb: 17, width: 1938</p>
 <p>CR Index: 2, Unicode: 000D Nodes: 0, Contours: 0 Width: 430</p>	 <p>space Index: 3, Unicode: 0009 0020 Nodes: 10, Contours: 1 Width: 2000</p>	 <p>orn.border.arab.engraved.scroll.v.u.r Index: 28, Unicode: F050 Nodes: 122, Contours: 3 BBBox: (-28, -428) - (1999, 1615) LSB: -28, RSB: 1, Width: 2000 lsb: 16, rsb: 48, width: 1938</p>	 <p>orn.fleuron.acorn.light Index: 29, Unicode: F051 Nodes: 127, Contours: 5 BBBox: (112, -266) - (2235, 1187) LSB: 112, RSB: -31, Width: 2204 lsb: 196, rsb: 850, width: 1158</p>
 <p>orn.border.tile.0 Index: 4 Nodes: 0, Contours: 0 Width: 2000</p>	 <p>orn.brassdash.extender Index: 5, Unicode: 2500 Nodes: 10, Contours: 1 BBBox: (-14, 658) - (2015, 724) LSB: -14, RSB: -15, Width: 2000</p>	 <p>orn.fleuron.1.light Index: 30, Unicode: F052 Nodes: 136, Contours: 5 BBBox: (130, -154) - (2744, 1427) LSB: 130, RSB: 68, Width: 2812 lsb: 264, rsb: 655, width: 1893</p>	 <p>orn.fleuron.2.light Index: 31, Unicode: F053 Nodes: 118, Contours: 5 BBBox: (140, -44) - (3158, 1409) LSB: 140, RSB: 122, Width: 3278 lsb: 141, rsb: 225, width: 2912</p>
 <p>orn.brassdash.middle.smooth Index: 6, Unicode: F050 Nodes: 24, Contours: 1 BBBox: (-14, 604) - (3136, 778) LSB: -14, RSB: -12, Width: 3124</p>	 <p>orn.border.tile.4 Index: 7, Unicode: F031 Nodes: 836, Contours: 29 BBBox: (-32, -432) - (2031, 1631) LSB: -32, RSB: -31, Width: 2000 lsb: 5, rsb: 6, width: 1989</p>	 <p>orn.hand.left Index: 32, Unicode: 261C Nodes: 250, Contours: 5 BBBox: (0, -558) - (3226, 1441) LSB: 0, RSB: 2, Width: 3228 lsb: 737, rsb: 382, width: 2099</p>	 <p>orn.hand.right Index: 33, Unicode: 261E Nodes: 261, Contours: 6 BBBox: (0, -558) - (3226, 1441) LSB: 0, RSB: 2, Width: 3228 lsb: 389, rsb: 740, width: 2099</p>
 <p>orn.border.tile.3 Index: 9, Unicode: F032 Nodes: 644, Contours: 33 BBBox: (-32, -432) - (2031, 1631) LSB: -32, RSB: -31, Width: 2000 lsb: 231, rsb: 232, width: 1537</p>	 <p>orn.border.tile.2 Index: 9, Unicode: F033 Nodes: 428, Contours: 29 BBBox: (-32, -432) - (2031, 1631) LSB: -32, RSB: -31, Width: 2000 lsb: 859, rsb: 971, width: 60</p>	 <p>orn.border.arab.simple.wave.h.d.l Index: 34, Unicode: F051 Nodes: 78, Contours: 1 BBBox: (-28, -428) - (2027, 1599) LSB: -28, RSB: -27, Width: 2000 lsb: 257, rsb: 512, width: 1131</p>	 <p>orn.border.arab.simple.wave.h.d.r Index: 35, Unicode: F052 Nodes: 78, Contours: 1 BBBox: (-28, -428) - (2027, 1599) LSB: -28, RSB: -25, Width: 2000 lsb: 510, rsb: 358, width: 1131</p>
 <p>orn.border.tile.1 Index: 11, Unicode: F034 Nodes: 332, Contours: 25 BBBox: (-32, -432) - (2031, 1631) LSB: -32, RSB: -31, Width: 2000</p>	 <p>orn.brassdash.middle.dimple Index: 11, Unicode: F038 Nodes: 40, Contours: 1 BBBox: (-14, 598) - (3136, 786) LSB: -14, RSB: -12, Width: 3124</p>	 <p>orn.border.arab.simple.wave.h.u.l Index: 36, Unicode: F053 Nodes: 78, Contours: 1 BBBox: (-28, -400) - (2027, 1627) LSB: -28, RSB: -27, Width: 2000 lsb: 160, rsb: 828, width: 1014</p>	 <p>orn.border.arab.simple.wave.h.u.r Index: 37, Unicode: F054 Nodes: 78, Contours: 1 BBBox: (-28, -400) - (2027, 1627) LSB: -28, RSB: -25, Width: 2000 lsb: 824, rsb: 161, width: 1015</p>
 <p>orn.brassdash.middle.lozenge Index: 12, Unicode: F039 Nodes: 20, Contours: 1 BBBox: (-14, 548) - (3136, 834) LSB: -14, RSB: -12, Width: 3124</p>	 <p>orn.border.arab.engraved.wave.h.d.l Index: 13, Unicode: F041 Nodes: 110, Contours: 3 BBBox: (-28, -428) - (2027, 1599) LSB: -28, RSB: -27, Width: 2000 lsb: 308, rsb: 511, width: 1181</p>	 <p>orn.border.arab.simple.wave.v.d.l Index: 38, Unicode: F055 Nodes: 80, Contours: 1 BBBox: (0, -426) - (2027, 1627) LSB: 0, RSB: -27, Width: 2000 lsb: 2, rsb: 109, width: 1889</p>	 <p>orn.border.arab.simple.wave.v.d.r Index: 39, Unicode: F056 Nodes: 80, Contours: 1 BBBox: (-28, -426) - (1999, 1627) LSB: -28, RSB: 1, Width: 2000 lsb: 108, rsb: 3, width: 1889</p>
 <p>orn.border.arab.engraved.wave.h.d.r Index: 14, Unicode: F042 Nodes: 110, Contours: 3 BBBox: (-15, -428) - (2040, 1599) LSB: -15, RSB: -40, Width: 2000 lsb: 523, rsb: 287, width: 1190</p>	 <p>orn.border.arab.engraved.wave.h.u.l Index: 15, Unicode: F043 Nodes: 111, Contours: 3 BBBox: (-28, -400) - (2027, 1627) LSB: -28, RSB: -27, Width: 2000 lsb: 92, rsb: 622, width: 1086</p>	 <p>orn.border.arab.simple.wave.v.u.l Index: 40, Unicode: F057 Nodes: 78, Contours: 1 BBBox: (0, -426) - (2027, 1627) LSB: 0, RSB: -27, Width: 2000 lsb: 1025, rsb: 62, width: 913</p>	 <p>orn.border.arab.simple.wave.v.u.r Index: 41, Unicode: F058 Nodes: 78, Contours: 1 BBBox: (-28, -426) - (1999, 1627) LSB: -28, RSB: 1, Width: 2000 lsb: 51, rsb: 1026, width: 913</p>
 <p>orn.border.arab.engraved.wave.h.u.r Index: 16, Unicode: F044 Nodes: 111, Contours: 3 BBBox: (-15, -400) - (2040, 1627) LSB: -15, RSB: -40, Width: 2000 lsb: 833, rsb: 80, width: 1087</p>	 <p>orn.border.arab.engraved.wave.v.d.l Index: 17, Unicode: F045 Nodes: 111, Contours: 3 BBBox: (0, -442) - (2027, 1613) LSB: 0, RSB: -27, Width: 2000 lsb: 0, rsb: 115, width: 1895</p>	 <p>orn.border.arab.simple.scroll.h.d.l Index: 42, Unicode: F059 Nodes: 82, Contours: 1 BBBox: (-15, -428) - (2028, 1599) LSB: -15, RSB: -28, Width: 2000 lsb: 57, rsb: 108, width: 1835</p>	 <p>orn.border.arab.simple.scroll.h.d.r Index: 43, Unicode: F05A Nodes: 82, Contours: 1 BBBox: (-28, -428) - (2015, 1599) LSB: -28, RSB: -15, Width: 2000 lsb: 108, rsb: 58, width: 1834</p>
 <p>orn.border.arab.engraved.wave.v.d.r Index: 18, Unicode: F046 Nodes: 111, Contours: 3 BBBox: (-28, -442) - (1999, 1613) LSB: -28, RSB: -1, Width: 2000 lsb: 114, rsb: 1, width: 1885</p>	 <p>orn.border.arab.engraved.wave.v.u.l Index: 19, Unicode: F047 Nodes: 112, Contours: 3 BBBox: (0, -440) - (2027, 1615) LSB: 0, RSB: -27, Width: 2000 lsb: 1031, rsb: 73, width: 896</p>	 <p>orn.border.arab.simple.scroll.h.u.l Index: 44, Unicode: F05B Nodes: 82, Contours: 1 BBBox: (-15, -400) - (2028, 1627) LSB: -15, RSB: -28, Width: 2000 lsb: 36, rsb: 28, width: 1938</p>	 <p>orn.border.arab.simple.scroll.h.u.r Index: 45, Unicode: F05C Nodes: 82, Contours: 1 BBBox: (-28, -400) - (2015, 1627) LSB: -28, RSB: -15, Width: 2000 lsb: 26, rsb: 37, width: 1937</p>
 <p>orn.border.arab.engraved.wave.v.u.r Index: 20, Unicode: F048 Nodes: 112, Contours: 3 BBBox: (-28, -440) - (1999, 1615) LSB: -28, RSB: 1, Width: 2000 lsb: 72, rsb: 1033, width: 895</p>	 <p>orn.border.arab.engraved.scroll.h.d.l Index: 21, Unicode: F049 Nodes: 122, Contours: 3 BBBox: (-15, -428) - (2028, 1599) LSB: -15, RSB: -28, Width: 2000 lsb: 59, rsb: 97, width: 1844</p>	 <p>orn.border.arab.simple.scroll.v.d.l Index: 46, Unicode: F05D Nodes: 82, Contours: 1 BBBox: (0, -418) - (2027, 1627) LSB: 0, RSB: -27, Width: 2000 lsb: 37, rsb: 125, width: 1838</p>	 <p>orn.border.arab.simple.scroll.v.d.r Index: 47, Unicode: F05E Nodes: 82, Contours: 1 BBBox: (-28, -418) - (1999, 1627) LSB: -28, RSB: 1, Width: 2000 lsb: 124, rsb: 39, width: 1837</p>
 <p>orn.border.arab.engraved.scroll.h.d.r Index: 22, Unicode: F04A Nodes: 122, Contours: 3 BBBox: (-28, -428) - (2015, 1599) LSB: -28, RSB: -15, Width: 2000 lsb: 96, rsb: 58, width: 1845</p>	 <p>orn.border.arab.engraved.scroll.h.u.l Index: 23, Unicode: F04B Nodes: 122, Contours: 3 BBBox: (-15, -400) - (2028, 1627) LSB: -15, RSB: -28, Width: 2000 lsb: 35, rsb: 32, width: 1933</p>	 <p>orn.border.arab.simple.scroll.v.u.l Index: 48, Unicode: F05F Nodes: 82, Contours: 1 BBBox: (0, -428) - (2027, 1615) LSB: 0, RSB: -27, Width: 2000 lsb: 33, rsb: 17, width: 1950</p>	 <p>orn.border.arab.simple.scroll.v.u.r Index: 49, Unicode: F060 Nodes: 82, Contours: 1 BBBox: (-28, -428) - (1999, 1615) LSB: -28, RSB: 1, Width: 2000 lsb: 16, rsb: 35, width: 1949</p>
 <p>orn.border.arab.engraved.scroll.h.u.r Index: 24, Unicode: F04C Nodes: 122, Contours: 3 BBBox: (-28, -400) - (2015, 1627) LSB: -28, RSB: -15, Width: 2000 lsb: 33, rsb: 36, width: 1931</p>	 <p>orn.border.arab.engraved.scroll.v.d.l Index: 25, Unicode: F04D Nodes: 122, Contours: 3 BBBox: (0, -416) - (2027, 1627) LSB: 0, RSB: -27, Width: 2000 lsb: 34, rsb: 115, width: 1851</p>	 <p>orn.fleuron.acorn.dark Index: 50, Unicode: F071 Nodes: 98, Contours: 3 BBBox: (112, -266) - (2235, 1187) LSB: 112, RSB: -31, Width: 2204 lsb: 196, rsb: 850, width: 1158</p>	 <p>orn.fleuron.1.dark Index: 51, Unicode: F072 Nodes: 98, Contours: 3 BBBox: (130, -154) - (2744, 1427) LSB: 130, RSB: 68, Width: 2812 lsb: 264, rsb: 655, width: 1893</p>
 <p>orn.fleuron.2.dark Index: 52, Unicode: F073 Nodes: 82, Contours: 1 BBBox: (140, -44) - (3158, 1409) LSB: 140, RSB: 122, Width: 3278 lsb: 141, rsb: 225, width: 2912</p>	 <p>orn.hourglass Index: 56, Unicode: 231B Nodes: 253, Contours: 8 BBBox: (180, -12) - (1519, 1379) LSB: 180, RSB: 181, Width: 1700 lsb: 352, rsb: 352, width: 996</p>	 <p>orn.sun Index: 53, Unicode: F074 Nodes: 455, Contours: 22 BBBox: (30, -104) - (1748, 1575) LSB: 30, RSB: 10, Width: 1758 lsb: 363, rsb: 271, width: 1124</p>	 <p>orn.fleurdeleys Index: 57, Unicode: F075 Nodes: 174, Contours: 4 BBBox: (80, -76) - (1733, 1479) LSB: 80, RSB: 61, Width: 1794 lsb: 734, rsb: 735, width: 325</p>
 <p>orn.moon.crescent Index: 54, Unicode: F075 Nodes: 109, Contours: 5 BBBox: (94, -44) - (1386, 1409) LSB: 94, RSB: 46, Width: 1412 lsb: 203, rsb: 635, width: 574</p>	 <p>orn.sailship Index: 58, Unicode: F076 Nodes: 328, Contours: 14 BBBox: (100, -44) - (1974, 1380) LSB: 100, RSB: 26, Width: 2000 lsb: 364, rsb: 258, width: 1378</p>	 <p>orn.crown Index: 55, Unicode: F076 Nodes: 223, Contours: 16 BBBox: (110, 86) - (1875, 1443) LSB: 110, RSB: 111, Width: 1896 lsb: 383, rsb: 384, width: 1219</p>	 <p>orn.flourish Index: 59, Unicode: F07A Nodes: 64, Contours: 2 BBBox: (90, -42) - (1541, 1409) LSB: 90, RSB: 1, Width: 1542 lsb: 111, rsb: 1, width: 1430</p>

(One additional glyph showing the Apple logo is not shown here.)

The unification of the hourglass symbol with U+231B HOURGLASS, which is already expressed in the Unicode position used in the font, shows that the expressive border style shown in many glyphs is considered a feature of the font rather than of the symbols.

Following this, similar unifications are done, and all symbols with white interior are considered simply "hollow" without regard to the varying thickness of the borders. Such hollow symbols are named "white" following the convention used for numerous already encoded symbols.

As the glyph shown in the third line of the second column in the table above is assigned to U+2500 BOX DRAWINGS LIGHT HORIZONTAL from the "Box Drawings" block, the other horizontal lines are considered also as box drawing characters (but without placing them in a dedicated separate block).

The following unifications are proposed (besides the ones already expressed by the Unicode positions in the font):



(glyph at U+F074): U+1F31E SUN WITH FACE



(glyph at U+F075): U+1F31C LAST QUARTER MOON WITH FACE



(glyph at U+F076): U+1F451 CROWN



(glyph at U+F078): U+269C FLEUR-DE-LIS

### 3. Proposed Characters


All characters are symbols, and therefore have the properties:

1xxxx;SYMBOL NAME;So;0;ON;;;;;N;;;;;


1F680

## Transport and Map Symbols

1F6FF

	1F68	1F69	1F6A	1F6B	1F6C	1F6D	1F6E	1F6F
0								
1								
2								
3								
4							1F6E3	
5								
6								
7								
8								
9								
A								
B								
C								
D								
E								
F								



























### Vehicles

1F6E3  THREE-MASTED BARQUE

1F780

## Geometric Shapes Extended

1F7FF

	1F78	1F79	1F7A	1F7B	1F7C	1F7D	1F7E	1F7F
0							 1F7E0	
1							 1F7E1	
2							 1F7E2	
3							 1F7E3	
4							 1F7E4	
5						 1F7D5	 1F7E5	
6						 1F7D6	 1F7E6	
7						 1F7D7	 1F7E7	
8						 1F7D8	 1F7E8	
9						 1F7D9	 1F7E9	
A						 1F7DA	 1F7EA	
B						 1F7DB	 1F7EB	
C						 1F7DC	 1F7EC	
D						 1F7DD	 1F7ED	
E						 1F7DE	 1F7EE	
F						 1F7DF		



**Asterisks**










- 1F7D5 ✱ HEAVY EIGHT-TEARDROP-SPOKED PINWHEEL  
 ASTERISK  
 = Bodoni Ornaments glyph 6 for U+0023  
 → 2743 ✱ heavy teardrop-spoked pinwheel  
 asterisk
- 1F7D6 ⦿ BODONI ORNAMENTAL ASTERISK-7  
 = Bodoni Ornaments glyph 7 for U+0024
- 1F7D7 ⦿ BODONI ORNAMENTAL ASTERISK-8  
 = Bodoni Ornaments glyph 8 for U+0025
- 1F7D8 ✱ BODONI ORNAMENTAL ASTERISK-122  
 = Bodoni Ornaments glyph 122 for U+0027
- 1F7D9 ✱ BODONI ORNAMENTAL ASTERISK-10  
 = Bodoni Ornaments glyph 10 for U+0028
- 1F7DA ✱ BODONI ORNAMENTAL ASTERISK-11  
 = Bodoni Ornaments glyph 11 for U+0029
- 1F7DB ✱ BODONI ORNAMENTAL ASTERISK-12  
 = Bodoni Ornaments glyph 12 for U+002A
- 1F7DC ✱ BODONI ORNAMENTAL ASTERISK-13  
 = Bodoni Ornaments glyph 13 for U+002B
- 1F7DD ✱ BODONI ORNAMENTAL ASTERISK-14  
 = Bodoni Ornaments glyph 14 for U+002C
- 1F7DE ✱ BODONI ORNAMENTAL ASTERISK-15  
 = Bodoni Ornaments glyph 15 for U+002D
- 1F7DF ✱ BODONI ORNAMENTAL ASTERISK-16  
 = Bodoni Ornaments glyph 16 for U+002E
- 1F7E0 ✱ BODONI ORNAMENTAL ASTERISK-17  
 = Bodoni Ornaments glyph 17 for U+002F
- 1F7E1 ✱ BODONI ORNAMENTAL ASTERISK-18  
 = Bodoni Ornaments glyph 18 for U+0030
- 1F7E2 ✱ BODONI ORNAMENTAL ASTERISK-19  
 = Bodoni Ornaments glyph 19 for U+0031
- 1F7E3 ✱ SIX PETALLED WHITE FLORETTE  
 = Bodoni Ornaments glyph 30 for U+0023  
 → 273E ✱ six petalled black and white florette
- 1F7E4 ⦿ EIGHT PETALLED WHITE FLORETTE  
 = Bodoni Ornaments glyph 21 for U+0033
- 1F7E5 ⦿ BODONI ORNAMENTAL ASTERISK-22  
 = Bodoni Ornaments glyph 22 for U+0034
- 1F7E6 ⦿ BODONI ORNAMENTAL ASTERISK-23  
 = Bodoni Ornaments glyph 23 for U+0035

**Medium small shapes**



- 1F7E7 ◉ MEDIUM SMALL WHITE CIRCLE CONTAINING VERY  
 SMALL BLACK CIRCLE  
 = Bodoni Ornaments glyph 25 for U+0037
- 1F7E8 ◉ MEDIUM SMALL WHITE CIRCLE CONTAINING TINY  
 BLACK CIRCLE  
 = Bodoni Ornaments glyph 26 for U+0038
- 1F7E9 ◉ MEDIUM SMALL WHITE CIRCLE CONTAINING VERY  
 SMALL WHITE CIRCLE  
 = Bodoni Ornaments glyph 27 for U+0039
- 1F7EA ◉ MEDIUM SMALL WHITE SQUARE CONTAINING VERY  
 SMALL BLACK CIRCLE  
 = Bodoni Ornaments glyph 28 for U+003A
- 1F7EB ◉ MEDIUM SMALL WHITE SQUARE CONTAINING TINY  
 BLACK CIRCLE  
 = Bodoni Ornaments glyph 29 for U+003B
- 1F7EC ◉ MEDIUM SMALL WHITE SQUARE CONTAINING VERY  
 SMALL WHITE CIRCLE  
 = Bodoni Ornaments glyph 30 for U+003C
- 1F7ED ◉ MEDIUM SMALL WHITE LOZENGE CONTAINING VERY  
 SMALL BLACK LOZENGE  
 = Bodoni Ornaments glyph 31 for U+003D
- 1F7EE ◉ MEDIUM SMALL WHITE GEAR CONTAINING VERY  
 SMALL BLACK CIRCLE  
 = Bodoni Ornaments glyph 32 for U+003E

	1FB0	1FB1	1FB2	1FB3	1FB4	1FB5	1FB6	1FB7	1FB8	1FB9
0										
1										
2										
3										
4										
5										
6										
7										
8										
9										
A										
B										
C										
D										
E										
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















**Box drawing**

















- 1FB00  BOX DRAWINGS LIGHT HORIZONTAL WITH THICKENING AT CENTER  
= Bodoni Ornaments glyph 118 for U+2202  
→ 2500 — box drawings light horizontal
- 1FB01  BOX DRAWINGS LIGHT HORIZONTAL WITH WAISTED THICKENING AT CENTER  
= Bodoni Ornaments glyph 119 for U+2211
- 1FB02  BOX DRAWINGS LIGHT HORIZONTAL WITH SMOOTH THICKENING AT CENTER  
= Hoefler Text Ornaments glyph 6 for U+F030
- 1FB03  BOX DRAWINGS LIGHT HORIZONTAL WITH DIMPLE AT CENTER  
= Hoefler Text Ornaments glyph 11 for U+F038
- 1FB04  BOX DRAWINGS LIGHT HORIZONTAL WITH DIMPLE AT CENTER  
= Hoefler Text Ornaments glyph 12 for U+F039
- 1FB05  ORNAMENTAL TILE-1  
= Hoefler Text Ornaments glyph 10 for U+F034
- 1FB06  ORNAMENTAL TILE-2  
= Hoefler Text Ornaments glyph 9 for U+F033
- 1FB07  ORNAMENTAL TILE-3  
= Hoefler Text Ornaments glyph 8 for U+F032
- 1FB08  ORNAMENTAL TILE-4  
= Hoefler Text Ornaments glyph 7 for U+F031

**Flat ornaments**









- 1FB0E  BRACE-SHAPED FLAT ORNAMENT  
= Bodoni Ornaments glyph 121 for U+03C0
- 1FB0F  CURVED BRACE-SHAPED FLAT ORNAMENT  
= Bodoni Ornaments glyph 120 for U+220F

**Arabesques**








- 1FB10  WHITE ARABESQUE WAVE-1  
= Hoefler Text Ornaments glyph 13 for U+F041
- 1FB11  WHITE ARABESQUE WAVE-2  
= Hoefler Text Ornaments glyph 14 for U+F042
- 1FB12  WHITE ARABESQUE WAVE-3  
= Hoefler Text Ornaments glyph 15 for U+F043
- 1FB13  WHITE ARABESQUE WAVE-4  
= Hoefler Text Ornaments glyph 16 for U+F044
- 1FB14  WHITE ARABESQUE WAVE-5  
= Hoefler Text Ornaments glyph 17 for U+F045
- 1FB15  WHITE ARABESQUE WAVE-6  
= Hoefler Text Ornaments glyph 18 for U+F046
- 1FB16  WHITE ARABESQUE WAVE-7  
= Hoefler Text Ornaments glyph 19 for U+F047
- 1FB17  WHITE ARABESQUE WAVE-8  
= Hoefler Text Ornaments glyph 20 for U+F048
- 1FB18  WHITE ARABESQUE SCROLL-1  
= Hoefler Text Ornaments glyph 21 for U+F049
- 1FB19  WHITE ARABESQUE SCROLL-2  
= Hoefler Text Ornaments glyph 22 for U+F04A
- 1FB1A  WHITE ARABESQUE SCROLL-3  
= Hoefler Text Ornaments glyph 23 for U+F04B
- 1FB1B  WHITE ARABESQUE SCROLL-4  
= Hoefler Text Ornaments glyph 24 for U+F04C
- 1FB1C  WHITE ARABESQUE SCROLL-5  
= Hoefler Text Ornaments glyph 25 for U+F04D
- 1FB1D  WHITE ARABESQUE SCROLL-6  
= Hoefler Text Ornaments glyph 26 for U+F04E
- 1FB1E  WHITE ARABESQUE SCROLL-7  
= Hoefler Text Ornaments glyph 27 for U+F04F
- 1FB1F  WHITE ARABESQUE SCROLL-8  
= Hoefler Text Ornaments glyph 28 for U+F041

- 1FB20  BLACK ARABESQUE WAVE-1  
= Hoefler Text Ornaments glyph 34 for U+F061
- 1FB21  BLACK ARABESQUE WAVE-2  
= Hoefler Text Ornaments glyph 35 for U+F062
- 1FB22  BLACK ARABESQUE WAVE-3  
= Hoefler Text Ornaments glyph 36 for U+F063
- 1FB23  BLACK ARABESQUE WAVE-4  
= Hoefler Text Ornaments glyph 37 for U+F064
- 1FB24  BLACK ARABESQUE WAVE-5  
= Hoefler Text Ornaments glyph 38 for U+F065
- 1FB25  BLACK ARABESQUE WAVE-6  
= Hoefler Text Ornaments glyph 39 for U+F066
- 1FB26  BLACK ARABESQUE WAVE-7  
= Hoefler Text Ornaments glyph 40 for U+F067
- 1FB27  BLACK ARABESQUE WAVE-8  
= Hoefler Text Ornaments glyph 41 for U+F068
- 1FB28  BLACK ARABESQUE SCROLL-1  
= Hoefler Text Ornaments glyph 42 for U+F069
- 1FB29  BLACK ARABESQUE SCROLL-2  
= Hoefler Text Ornaments glyph 43 for U+F06A
- 1FB2A  BLACK ARABESQUE SCROLL-3  
= Hoefler Text Ornaments glyph 44 for U+F06B
- 1FB2B  BLACK ARABESQUE SCROLL-4  
= Hoefler Text Ornaments glyph 45 for U+F06C
- 1FB2C  BLACK ARABESQUE SCROLL-5  
= Hoefler Text Ornaments glyph 46 for U+F06D
- 1FB2D  BLACK ARABESQUE SCROLL-6  
= Hoefler Text Ornaments glyph 47 for U+F06E
- 1FB2E  BLACK ARABESQUE SCROLL-7  
= Hoefler Text Ornaments glyph 48 for U+F06F
- 1FB2F  BLACK ARABESQUE SCROLL-8  
= Hoefler Text Ornaments glyph 49 for U+F061

**Fleurons**

















- 1FB30  WHITE RIGHT-POINTING ACORN FLEURON  
= Hoefler Text Ornaments glyph 29 for U+F051
- 1FB31  WHITE RIGHT-POINTING LILY FLEURON  
= Hoefler Text Ornaments glyph 30 for U+F052
- 1FB32  WHITE RIGHT-POINTING TREFOIL FLEURON  
= Hoefler Text Ornaments glyph 31 for U+F053
- 1FB33  BLACK RIGHT-POINTING ACORN FLEURON  
= Hoefler Text Ornaments glyph 50 for U+F071
- 1FB34  BLACK RIGHT-POINTING LILY FLEURON  
= Hoefler Text Ornaments glyph 51 for U+F072
- 1FB35  BLACK RIGHT-POINTING TREFOIL FLEURON  
= Hoefler Text Ornaments glyph 52 for U+F073  
→ 2767  rotated floral heart bullet
- 1FB36  A-SHAPED FLEURON FLEURON  
= Hoefler Text Ornaments glyph 59 for U+F07A

**Miscellaneous Ornamental Dingbats**

- 1FB40  BODONI ORNAMENT-5  
= Bodoni Ornaments glyph 5 for U+0022
- 1FB41  BODONI ORNAMENT-9  
= Bodoni Ornaments glyph 9 for U+0026
- 1FB42  BODONI ORNAMENT-33  
= Bodoni Ornaments glyph 33 for U+003F
- 1FB43  BODONI ORNAMENT-34  
= Bodoni Ornaments glyph 34 for U+0040
- 1FB44  BODONI ORNAMENT-35  
= Bodoni Ornaments glyph 35 for U+0041
- 1FB45  BODONI ORNAMENT-36  
= Bodoni Ornaments glyph 36 for U+0042
- 1FB46  BODONI ORNAMENT-37  
= Bodoni Ornaments glyph 37 for U+0043

1FB47 } BODONI ORNAMENT-38  
 = Bodoni Ornaments glyph 38 for U+0044  
 1FB48 } BODONI ORNAMENT-39  
 = Bodoni Ornaments glyph 39 for U+0045  
 1FB49 { BODONI ORNAMENT-40  
 = Bodoni Ornaments glyph 40 for U+0046  
 1FB4A } BODONI ORNAMENT-41  
 = Bodoni Ornaments glyph 41 for U+0047  
 1FB4B { BODONI ORNAMENT-42  
 = Bodoni Ornaments glyph 42 for U+0048  
 1FB4C } BODONI ORNAMENT-43  
 = Bodoni Ornaments glyph 43 for U+0049  
 1FB4D { BODONI ORNAMENT-44  
 = Bodoni Ornaments glyph 44 for U+004A  
 1FB4E } BODONI ORNAMENT-45  
 = Bodoni Ornaments glyph 45 for U+004B  
 1FB4F { BODONI ORNAMENT-46  
 = Bodoni Ornaments glyph 46 for U+004C  
 1FB50 } BODONI ORNAMENT-47  
 = Bodoni Ornaments glyph 47 for U+004D  
 1FB51 { BODONI ORNAMENT-48  
 = Bodoni Ornaments glyph 48 for U+004E  
 1FB52 { BODONI ORNAMENT-49  
 = Bodoni Ornaments glyph 49 for U+004F  
 1FB53 } BODONI ORNAMENT-50  
 = Bodoni Ornaments glyph 50 for U+0050  
 1FB54 \ BODONI ORNAMENT-51  
 = Bodoni Ornaments glyph 51 for U+0051  
 1FB55 / BODONI ORNAMENT-52  
 = Bodoni Ornaments glyph 52 for U+0052  
 1FB56 \ BODONI ORNAMENT-53  
 = Bodoni Ornaments glyph 53 for U+0053  
 1FB57 / BODONI ORNAMENT-54  
 = Bodoni Ornaments glyph 54 for U+0054  
 1FB58 \ BODONI ORNAMENT-55  
 = Bodoni Ornaments glyph 55 for U+0055  
 1FB59 / BODONI ORNAMENT-56  
 = Bodoni Ornaments glyph 56 for U+0056  
 1FB5A \ BODONI ORNAMENT-57  
 = Bodoni Ornaments glyph 57 for U+0057  
 1FB5B / BODONI ORNAMENT-58  
 = Bodoni Ornaments glyph 58 for U+0058  
 1FB5C \ BODONI ORNAMENT-59  
 = Bodoni Ornaments glyph 59 for U+0059  
 1FB5D / BODONI ORNAMENT-60  
 = Bodoni Ornaments glyph 60 for U+005A  
 1FB5E \ BODONI ORNAMENT-61  
 = Bodoni Ornaments glyph 61 for U+005B  
 1FB5F / BODONI ORNAMENT-62  
 = Bodoni Ornaments glyph 62 for U+005C  
 1FB60 \ BODONI ORNAMENT-63  
 = Bodoni Ornaments glyph 63 for U+005D  
 1FB61 / BODONI ORNAMENT-64  
 = Bodoni Ornaments glyph 64 for U+005E  
 1FB62 \ BODONI ORNAMENT-65  
 = Bodoni Ornaments glyph 65 for U+005F  
 1FB63 / BODONI ORNAMENT-66  
 = Bodoni Ornaments glyph 66 for U+0060  
 1FB64 \ BODONI ORNAMENT-67  
 = Bodoni Ornaments glyph 67 for U+0061  
 1FB65 / BODONI ORNAMENT-68  
 = Bodoni Ornaments glyph 68 for U+0062  
 1FB66 \ BODONI ORNAMENT-69  
 = Bodoni Ornaments glyph 69 for U+0063  
 1FB67 / BODONI ORNAMENT-70  
 = Bodoni Ornaments glyph 70 for U+0064

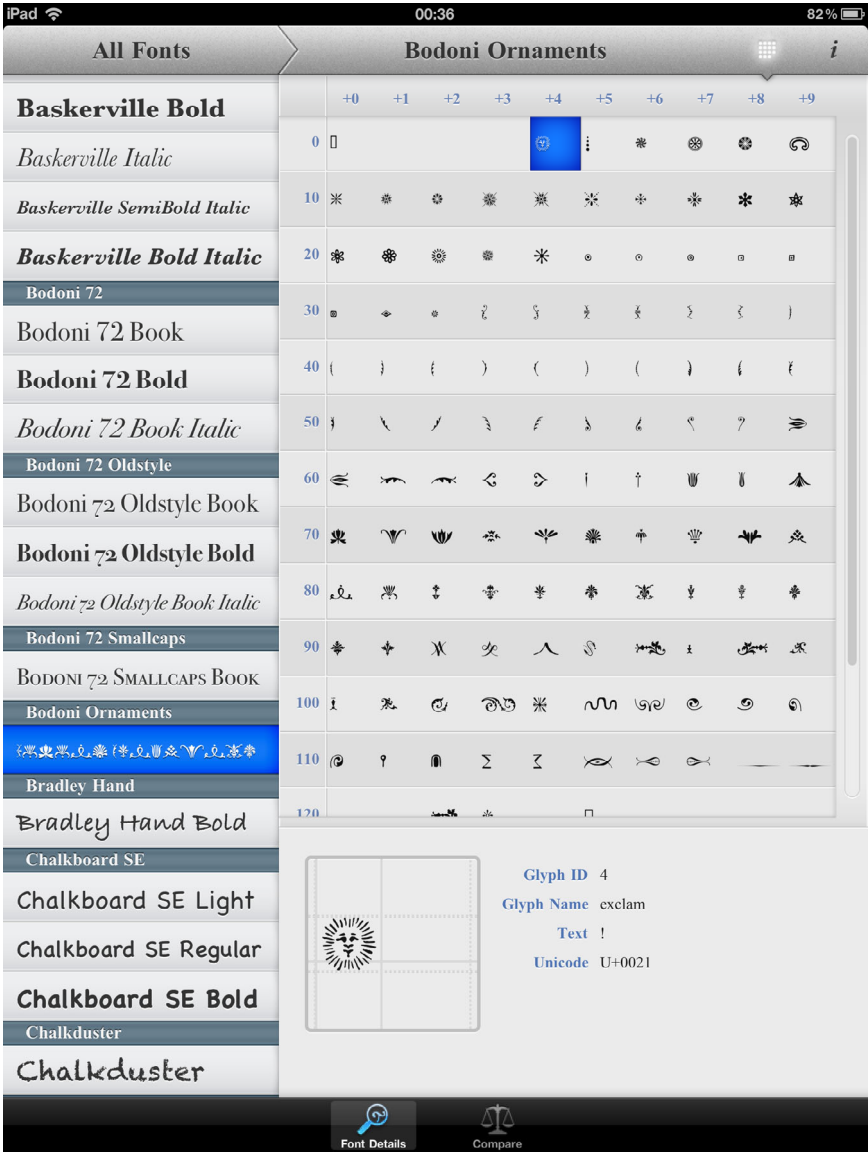
1FB68 \ BODONI ORNAMENT-71  
 = Bodoni Ornaments glyph 71 for U+0065  
 1FB69 / BODONI ORNAMENT-72  
 = Bodoni Ornaments glyph 72 for U+0066  
 1FB6A \ BODONI ORNAMENT-73  
 = Bodoni Ornaments glyph 73 for U+0067  
 1FB6B / BODONI ORNAMENT-74  
 = Bodoni Ornaments glyph 74 for U+0068  
 1FB6C \ BODONI ORNAMENT-75  
 = Bodoni Ornaments glyph 75 for U+0069  
 1FB6D / BODONI ORNAMENT-76  
 = Bodoni Ornaments glyph 76 for U+006A  
 1FB6E \ BODONI ORNAMENT-77  
 = Bodoni Ornaments glyph 77 for U+006B  
 1FB6F / BODONI ORNAMENT-78  
 = Bodoni Ornaments glyph 78 for U+006C  
 1FB70 \ BODONI ORNAMENT-79  
 = Bodoni Ornaments glyph 79 for U+006D  
 1FB71 / BODONI ORNAMENT-80  
 = Bodoni Ornaments glyph 80 for U+006E  
 1FB72 \ BODONI ORNAMENT-81  
 = Bodoni Ornaments glyph 81 for U+006F  
 1FB73 / BODONI ORNAMENT-82  
 = Bodoni Ornaments glyph 82 for U+0070  
 1FB74 \ BODONI ORNAMENT-83  
 = Bodoni Ornaments glyph 83 for U+0071  
 1FB75 / BODONI ORNAMENT-84  
 = Bodoni Ornaments glyph 84 for U+0072  
 1FB76 \ BODONI ORNAMENT-85  
 = Bodoni Ornaments glyph 85 for U+0073  
 1FB77 / BODONI ORNAMENT-86  
 = Bodoni Ornaments glyph 86 for U+0074  
 1FB78 \ BODONI ORNAMENT-87  
 = Bodoni Ornaments glyph 87 for U+0075  
 1FB79 / BODONI ORNAMENT-88  
 = Bodoni Ornaments glyph 88 for U+0076  
 1FB7A \ BODONI ORNAMENT-89  
 = Bodoni Ornaments glyph 89 for U+0077  
 1FB7B / BODONI ORNAMENT-90  
 = Bodoni Ornaments glyph 90 for U+0078  
 1FB7C \ BODONI ORNAMENT-91  
 = Bodoni Ornaments glyph 91 for U+0079  
 1FB7D / BODONI ORNAMENT-92  
 = Bodoni Ornaments glyph 92 for U+0078  
 1FB7E \ BODONI ORNAMENT-93  
 = Bodoni Ornaments glyph 93 for U+007B  
 1FB7F / BODONI ORNAMENT-94  
 = Bodoni Ornaments glyph 94 for U+007C  
 1FB80 \ BODONI ORNAMENT-95  
 = Bodoni Ornaments glyph 95 for U+007D  
 1FB81 / BODONI ORNAMENT-104  
 = Bodoni Ornaments glyph 104 for U+00AE  
 1FB82 \ BODONI ORNAMENT-112  
 = Bodoni Ornaments glyph 112 for U+221E  
 1FB83 / BODONI ORNAMENT-97  
 = Bodoni Ornaments glyph 97 for U+00B0  
 1FB84 \ BODONI ORNAMENT-111  
 = Bodoni Ornaments glyph 111 for U+00D8  
 1FB85 / BODONI ORNAMENT-100  
 = Bodoni Ornaments glyph 100 for U+00A7  
 1FB86 \ BODONI ORNAMENT-96  
 = Bodoni Ornaments glyph 96 for U+2020  
 1FB87 / BODONI ORNAMENT-98  
 = Bodoni Ornaments glyph 98 for U+00A2  
 1FB88 \ BODONI ORNAMENT-99  
 = Bodoni Ornaments glyph 99 for U+00A3

- 1FB89  BODONI ORNAMENT-101  
= Bodoni Ornaments glyph 101 for U+2022
- 1FB8A  BODONI ORNAMENT-107  
= Bodoni Ornaments glyph 107 for U+00B4
- 1FB8B  BODONI ORNAMENT-108  
= Bodoni Ornaments glyph 108 for U+00A8
- 1FB8C  BODONI ORNAMENT-110  
= Bodoni Ornaments glyph 110 for U+00C6
- 1FB8D  BODONI ORNAMENT-109  
= Bodoni Ornaments glyph 109 for U+2260
- 1FB8E  BODONI ORNAMENT-102  
= Bodoni Ornaments glyph 102 for U+00B6  
• the mirrored counterpart is missing in the Bodoni Ornaments font
- 1FB8F  <reserved>
- 1FB90  BODONI ORNAMENT-103  
= Bodoni Ornaments glyph 103 for U+00DF  
• the mirrored counterpart is missing in the Bodoni Ornaments font
- 1FB91  <reserved>
- 1FB92  BODONI ORNAMENT-113  
= Bodoni Ornaments glyph 113 for U+00B1
- 1FB93  BODONI ORNAMENT-114  
= Bodoni Ornaments glyph 114 for U+2264
- 1FB94  BODONI ORNAMENT-116  
= Bodoni Ornaments glyph 116 for U+00A5
- 1FB95  BODONI ORNAMENT-117  
= Bodoni Ornaments glyph 117 for U+00B5
- 1FB96  BODONI ORNAMENT-115  
= Bodoni Ornaments glyph 115 for U+2265
- 1FB97  BODONI ORNAMENT-105  
= Bodoni Ornaments glyph 105 for U+00A9
- 1FB98  BODONI ORNAMENT-106  
= Bodoni Ornaments glyph 106 for U+2122



4. Examples and Figures

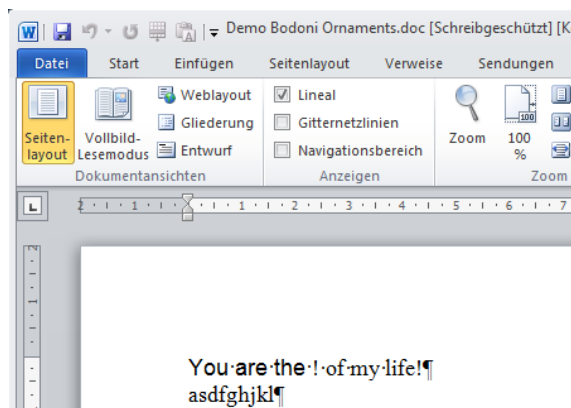
**Fig. 1:** Screenshot from an Apple iPad, showing the Bodoni Ornament font which is installed as part of the operating system there, by using the font display app "Typefaces" available for free in the iTunes App Store (as of 2012-05-06).



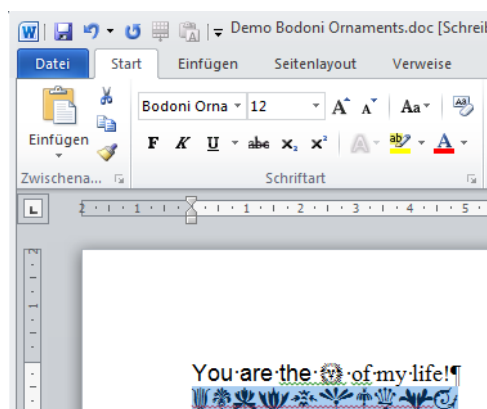
**Fig. 2:** Screenshot from an Apple iPad, using the original Apple app "Pages" to enter a document using the Bodoni Ornaments font. This document was sent by e-mail directly as Word document using the Export function of this app (see the result in fig. 3)..



**Fig. 3:** Screenshot from the Word document mentioned in the legend of fig. 2, after receiving it by e-mail on a PC (where the font Bodoni Ornaments is not installed). As the Bodoni Ornaments font reuses the "ASCII" (Basic Latin) code points for its symbols, the symbols appear as ordinary letters and punctuation marks, resembling the state of art of the pre-Unicode era.



**Fig. 4:** Only after installing the Bodoni Ornaments font on the PC and selecting it, the document from fig. 3 appears correct (the last fleuron in the second line in fact is the Word paragraph marker ¶, by its code point).



**ISO/IEC JTC 1/SC 2/WG 2  
PROPOSAL SUMMARY FORM TO ACCOMPANY SUBMISSIONS  
FOR ADDITIONS TO THE REPERTOIRE OF ISO/IEC 10646<sup>1</sup>**

Please fill all the sections A, B and C below.

Please read Principles and Procedures Document (P & P) from <http://www.dkuug.dk/JTC1/SC2/WG2/docs/principles.html> for guidelines and details before filling this form.

Please ensure you are using the latest Form from <http://www.dkuug.dk/JTC1/SC2/WG2/docs/summaryform.html>.

See also <http://www.dkuug.dk/JTC1/SC2/WG2/docs/roadmaps.html> for latest Roadmaps.

**A. Administrative**

1. Title:	<b>Preliminary Proposal to encode Ornamental Dingbats present on Apple devices</b>
2. Requester's name:	<b>Karl Pentzlin</b>
3. Requester type (Member body/Liaison/Individual contribution):	<b>Individual Contribution</b>
4. Submission date:	<b>2012-05-06</b>
5. Requester's reference (if applicable):	
6. Choose one of the following:	
This is a complete proposal:	<b>X</b>
(or) More information will be provided later:	

**B. Technical – General**

1. Choose one of the following:	
a. This proposal is for a new script (set of characters):	<b>No</b>
Proposed name of script:	
b. The proposal is for addition of character(s) to an existing block:	<b>Supplement to one</b>
Name of the existing block:	<b>New Block: Ornamental Dingbats Supplement</b>
2. Number of characters in proposal:	<b>163</b>
3. Proposed category (select one from below - see section 2.2 of P&P document):	
A-Contemporary <b>X</b>	B.1-Specialized (small collection)
C-Major extinct	B.2-Specialized (large collection)
D-Attested extinct	E-Minor extinct
F-Archaic Hieroglyphic or Ideographic	G-Obscure or questionable usage symbols
4. Is a repertoire including character names provided?	<b>Yes</b>
a. If YES, are the names in accordance with the "character naming guidelines" in Annex L of P&P document?	<b>Yes</b>
b. Are the character shapes attached in a legible form suitable for review?	<b>Yes</b>
5. Fonts related:	
a. Who will provide the appropriate computerized font to the Project Editor of 10646 for publishing the standard?	<b>TBD</b>
b. Identify the party granting a license for use of the font by the editors (include address, e-mail, ftp-site, etc.):	<b>TBD</b>
6. References:	
a. Are references (to other character sets, dictionaries, descriptive texts etc.) provided?	<b>Yes</b>
b. Are published examples of use (such as samples from newspapers, magazines, or other sources) of proposed characters attached?	<b>Yes</b>
7. Special encoding issues:	
Does the proposal address other aspects of character data processing (if applicable) such as input, presentation, sorting, searching, indexing, transliteration etc. (if yes please enclose information)?	<b>n/a</b>

**8. Additional Information:**

Submitters are invited to provide any additional information about Properties of the proposed Character(s) or Script that will assist in correct understanding of and correct linguistic processing of the proposed character(s) or script. Examples of such properties are: Casing information, Numeric information, Currency information, Display behaviour information such as line breaks, widths etc., Combining behaviour, Spacing behaviour, Directional behaviour, Default Collation behaviour, relevance in Mark Up contexts, Compatibility equivalence and other Unicode normalization related information. See the Unicode standard at <http://www.unicode.org> for such information on other scripts. Also see Unicode Character Database ( <http://www.unicode.org/reports/tr44/> ) and associated Unicode Technical Reports for information needed for consideration by the Unicode Technical Committee for inclusion in the Unicode Standard.

<sup>1</sup> Form number: N3902-F (Original 1994-10-14; Revised 1995-01, 1995-04, 1996-04, 1996-08, 1999-03, 2001-05, 2001-09, 2003-11, 2005-01, 2005-09, 2005-10, 2007-03, 2008-05, 2009-11, 2011-03)

### C. Technical - Justification

1. Has this proposal for addition of character(s) been submitted before?	No
If YES explain	
2. Has contact been made to members of the user community (for example: National Body, user groups of the script or characters, other experts, etc.)?	Yes
If YES, with whom? <i>The author himself is a member of the user community</i>	
If YES, available relevant documents: <i>see text</i>	
3. Information on the user community for the proposed characters (for example: size, demographics, information technology use, or publishing use) is included?	Yes
Reference: <i>All users of contemporary equipment made by Apple (several millions of users)</i>	
4. The context of use for the proposed characters (type of use; common or rare)	Common
Reference: <i>see text</i>	
5. Are the proposed characters in current use by the user community?	Yes
If YES, where? Reference: <i>see text</i>	
6. After giving due considerations to the principles in the P&P document must the proposed characters be entirely in the BMP?	No
If YES, is a rationale provided?	
If YES, reference:	
7. Should the proposed characters be kept together in a contiguous range (rather than being scattered)?	Yes
8. Can any of the proposed characters be considered a presentation form of an existing character or character sequence?	No
If YES, is a rationale for its inclusion provided?	
If YES, reference:	
9. Can any of the proposed characters be encoded using a composed character sequence of either existing characters or other proposed characters?	No
If YES, is a rationale for its inclusion provided?	
If YES, reference:	
10. Can any of the proposed character(s) be considered to be similar (in appearance or function) to an existing character?	No
If YES, is a rationale for its inclusion provided?	
If YES, reference:	
11. Does the proposal include use of combining characters and/or use of composite sequences?	No
If YES, is a rationale for such use provided?	
If YES, reference:	
Is a list of composite sequences and their corresponding glyph images (graphic symbols) provided?	
If YES, reference:	
12. Does the proposal contain characters with any special properties such as control function or similar semantics?	No
If YES, describe in detail (include attachment if necessary)	
13. Does the proposal contain any Ideographic compatibility characters?	No
If YES, are the equivalent corresponding unified ideographic characters identified?	
If YES, reference:	