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Fake Text Routines for the ML Foundation System

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2023/04/22

Abstract

Fake Text Routines are presented which run in PMODE 4, Color Set 0; on top of the ML Foundation System.

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This paper and its associated code are available online at:

<http://www.bds-soft.com/cocoPapers.php> .

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Introduction

These Fake Text Routines are intended to be used in the development of PMODE 4, Color Set 0, maze-like games which will run on top of the ML Foundation System.

In my concept for developing such games, I've divided the PMODE 4's 256-pixel by 192-pixel screen into 32 by 16 Fake Text Character fields; where each field is 8 pixels wide by 12 pixels high. (aka, one byte by twelve bytes).

Following this, I've also herein defined a set of 256 character images, each also 8 pixels wide by 12 pixels high, for use with that divided PMODE 4 screen.

This character set is simply the one I designed for use in (at least several of) the games I intend to design. If you choose to use this system yourself, you are by no means restricted to using this character set. Any similar set of 256 individual 8x12 images should work just as well.

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A Note on Numbers: To keep everything simple to understand, and also neatly lined-up, I frequently refer to numbers as decimal bytes with three full digits, e.g. 004, 027, 229, etc. See Appendix A for conversions between the decimal and hexadecimal representations of bytes. The leading zeroes are NOT intended to indicate octal notation. Octal notation is not used anywhere in this paper.

In works of this complexity (at least for me) typos and other errors are bound to sneak in. Please let me know about any you discover so I can note and correct them.

M.D.J. 2023/04/22
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General Methodology

The development of this character set proceeded in six stages:

1. The definition of the list of 256 characters.
2. The drawing of the graphic image for each of the characters.
3. The encoding of the graphic characters.
4. The development of the PTFCHR Routine for placing a character on the PMODE 4 screen at specified (X,Y) coordinates.
5. The development of associated utility and testing routines.
6. The testing itself.

=====

Fake Text Character Set Character List

The first stage of development was the definition of the 256 characters:

*

* FAKETEXT

* CHARACTER SET REFERENCE

* AS OF 2023/01/14

*

** THE PLAYER

000 - AVATAR

** THE PLAYER'S ENEMIES

001 - BEAST #1

002 - BEAST #2

003 - BEAST #3

004 - BEAST #4

005 - BEAST #5

006 - BEAST #6

007 - BEAST #7

008 - BEAST #8

009 - BEAST #9

010 - BEAST #10

011 - BEAST #11

012 - BEAST #12

013 - BEAST #13

014 - BEAST #14

015 - BEAST #15

016 - BEAST #1 BUT INVISIBLE

017 - BEAST #2 BUT INVISIBLE

018 - BEAST #3 BUT INVISIBLE

019 - BEAST #4 BUT INVISIBLE

020 - BEAST #5 BUT INVISIBLE

021 - BEAST #6 BUT INVISIBLE

022 - BEAST #7 BUT INVISIBLE

023 - BEAST #8 BUT INVISIBLE

024 - BEAST #9 BUT INVISIBLE

025 - BEAST #10 BUT INVISIBLE
026 - BEAST #11 BUT INVISIBLE
027 - BEAST #12 BUT INVISIBLE
028 - BEAST #13 BUT INVISIBLE
029 - BEAST #14 BUT INVISIBLE
030 - BEAST #15 BUT INVISIBLE
031 - VORTEX

** STANDARD ALPHANUMERICAL

** CHARACTER SET

032 - SPACE

033 - !

034 - "

035 - #

036 - \$

037 - %

038 - &

039 - '

040 - (

041 -)

042 - *

043 - +

044 - ,

045 - -

046 - .

047 - /

048 - 0

049 - 1

050 - 2

051 - 3

052 - 4

053 - 5

054 - 6

055 - 7

056 - 8

057 - 9

058 - :

059 - ;

060 - <

061 - =

062 - >

063 - ?

064 - @

065 - A

066 - B
067 - C
068 - D
069 - E
070 - F
071 - G
072 - H
073 - I
074 - J
075 - K
076 - L
077 - M
078 - N
079 - O

080 - P
081 - Q
082 - R
083 - S
084 - T
085 - U
086 - V
087 - W
088 - X
089 - Y
090 - Z
091 - [
092 - \
093 -]

094 - UA = UP ARROW
095 - LA = LEFT ARROW

096 - DA = DOWN ARROW
097 - RA = RIGHT ARROW

**** CORNER LINES**

098 - LUL = LINE UPPER LEFT CORNER
099 - LUR = LINE UPPER RIGHT CORNER
100 - LLL = LINE LOWER LEFT CORNER
101 - LLR = LINE LOWER RIGHT CORNER

**** HORIZONTAL LINES**

102 - LH = LINE HORIZONTAL, VISIBLE, PASSIBLE, AND DESTRUCTABLE
103 - LHVI = LINE HORIZONTAL AND VISIBLE, BUT IMPASSIBLE AND
INDESTRUCTABLE
104 - LHID = LINE HORIZONTAL BUT INVISIBLE, PASSIBLE, AND

DESTRUCTABLE

105 - LHII = LINE HORIZONTAL BUT INVISIBLE, IMPASSIBLE, AND
INDESTRUCTABLE

106 - LHUV = LINE HORIZONTAL WITH UPPER VERTICAL

107 - LHLV = LINE HORIZONTAL WITH LOWER VERTICAL

108 - LHO = LINE HORIZONTAL WITH OPENING

109 - LHOL = LINE HORIZONTAL WITH LOCKED OPENING

** VERTICAL LINES

110 - LV = LINE VERTICAL, VISIBLE, PASSIBLE, AND DESTRUCTABLE

111 - LVVI = LINE VERTICAL AND VISIBLE, BUT IMPASSIBLE AND
INDESTRUCTABLE

112 - LVID = LINE VERTICAL BUT INVISIBLE, PASSIBLE, AND
DESTRUCTABLE

113 - LVII = LINE VERTICAL BUT INVISIBLE, IMPASSIBLE, AND
INDESTRUCTABLE

114 - LVRH = LINE VERTICAL WITH RIGHT HORIZONTAL

115 - LVLH = LINE VERTICAL WITH LEFT HORIZONTAL

116 - LVH = LINE VERTICAL WITH FULL HORIZONTAL

117 - LVO = LINE VERTICAL WITH OPENING

118 - LVOL = LINE VERTICAL WITH LOCKED OPENING

** TUNNELS

119 - TD = TUNNEL DOWN

120 - TDI = TUNNEL DOWN BUT INVISIBLE

121 - TDL = TUNNEL DOWN, LOCKED

122 - TDLI = TUNNEL DOWN, LOCKED BUT INVISIBLE

123 - TU = TUNNEL UP

124 - TUI = TUNNEL UP BUT INVISIBLE

125 - TUL = TUNNEL UP, LOCKED

126 - TULI = TUNNEL UP, LOCKED BUT INVISIBLE

** FEATURES

127 - WHSE = WAREHOUSE

128 - DX00 = DIG LOCATION - POSSIBLE BURIED ITEM

129 - DX01 = HOLE #01 - AFTER FIRST DIG ATTEMPT

130 - DX02 = HOLE #02 - AFTER SECOND DIG ATTEMPT

131 - DX03 = HOLE #03 - AFTER THIRD DIG ATTEMPT: EMPTY HOLE -
NOTHING BURIED HERE

132 - FC = COBBLESTONES

133 - FP = PROVISIONS

** ITEMS

134 - KY01 = KEY #01

135 - KY02 = KEY #02

136 - KY03 = KEY #03

137 - KY04 = KEY #04
138 - FL01 = FLASHLIGHT #01
139 - FL02 = FLASHLIGHT #02
140 - FL03 = FLASHLIGHT #03
141 - FL04 = FLASHLIGHT #04
142 - IL = ILLUMINATOR
143 - DS01 = DYNAMITE STICK #01
144 - DS02 = DYNAMITE STICK #02
145 - DS03 = DYNAMITE STICK #03
146 - DS04 = DYNAMITE STICK #04
147 - DS05 = DYNAMITE STICK #05
148 - DS06 = DYNAMITE STICK #06
149 - TR = TRANSPORTER

**** WEAPONS**

150 - SH = SHIELD
151 - SS = SHORT SWORD
152 - SW = SWORD
153 - SB = BROADSWORD
154 - CB = CROSSBOW
155 - AR01 = ARROW #01
156 - AR02 = ARROW #02
157 - AR03 = ARROW #03
158 - AR04 = ARROW #04
159 - AR05 = ARROW #05
160 - AR06 = ARROW #06
161 - AR07 = ARROW #07
162 - AR08 = ARROW #08
163 - AR09 = ARROW #09
164 - AR10 = ARROW #10
165 - AR11 = ARROW #11
166 - AR12 = ARROW #12

**** BOOKS**

167 - BK01 = BOOK #01: THE ENTIRE BIBLE
168 - BK02 = BOOK #02: HISTORY OF ROME BY LIVY
169 - BK03 = BOOK #03: ODYSSEY BY HOMER
170 - BK04 = BOOK #04: REPUBLIC BY PLATO
171 - BK05 = BOOK #05: AENEID BY VIRGIL
172 - BK06 = BOOK #06: METAMORPHOSES BY OVID
173 - BK07 = BOOK #07: AESOP'S FABLES BY AESOP
174 - BK08 = BOOK #08: APOLOGY BY PLATO
175 - BK09 = BOOK #09: ULYSSES BY JAMES JOYCE
176 - BK10 = BOOK #10: DON QUIXOTE BY MIGUEL DE CERVANTES
177 - BK11 = BOOK #11: MOBY DICK BY HERMAN MELVILLE
178 - BK12 = BOOK #12: WAR AND PEACE BY LEO TOLSTOY

- 179 - BK13 = BOOK #13: HAMLET BY WILLIAM SHAKESPEARE
180 - BK14 = BOOK #14: BROTHERS KARAMAZOV BY FYODOR
DOSTOYEVSKY
181 - BK15 = BOOK #15: ADVENTURES OF HUCKLEBERRY FINN BY MARK
TWIN

** DOCUMENTS

- 182 - DC01 = DOCUMENT #01: Genesis
183 - DC02 = DOCUMENT #02: Exodus
184 - DC03 = DOCUMENT #03: Leviticus
185 - DC04 = DOCUMENT #04: Numbers
186 - DC05 = DOCUMENT #05: Deuteronomy
187 - DC06 = DOCUMENT #06: Joshua
188 - DC07 = DOCUMENT #07: Judges
189 - DC08 = DOCUMENT #08: Ruth
190 - DC09 = DOCUMENT #09: 1 Samuel
191 - DC10 = DOCUMENT #10: 2 Samuel
- 192 - DC11 = DOCUMENT #11: 1 Kings
193 - DC12 = DOCUMENT #12: 2 Kings
194 - DC13 = DOCUMENT #13: 1 Chronicles
195 - DC14 = DOCUMENT #14: 2 Chronicles
196 - DC15 = DOCUMENT #15: Ezra
197 - DC16 = DOCUMENT #16: Nehemiah
198 - DC17 = DOCUMENT #17: Esther
199 - DC18 = DOCUMENT #18: Job
200 - DC19 = DOCUMENT #19: Psalms
201 - DC20 = DOCUMENT #20: Proverbs
202 - DC21 = DOCUMENT #21: Ecclesiastes
203 - DC22 = DOCUMENT #22: Song of Solomon
204 - DC23 = DOCUMENT #23: Isaiah
205 - DC24 = DOCUMENT #24: Jeremiah
206 - DC25 = DOCUMENT #25: Lamentations
207 - DC26 = DOCUMENT #26: Ezekiel
- 208 - DC27 = DOCUMENT #27: Daniel
209 - DC28 = DOCUMENT #28: Hosea
210 - DC29 = DOCUMENT #29: Joel
211 - DC30 = DOCUMENT #30: Amos
212 - DC31 = DOCUMENT #31: Obadiah
213 - DC32 = DOCUMENT #32: Jonah
214 - DC33 = DOCUMENT #33: Micah
215 - DC34 = DOCUMENT #34: Nahum
216 - DC35 = DOCUMENT #35: Habakkuk
217 - DC36 = DOCUMENT #36: Zephaniah
218 - DC37 = DOCUMENT #37: Haggai

219 - DC38 = DOCUMENT #38: Zechariah
220 - DC39 = DOCUMENT #39: Malachi
221 - DC40 = DOCUMENT #40: Matthew
222 - DC41 = DOCUMENT #41: Mark
223 - DC42 = DOCUMENT #42: Luke

224 - DC43 = DOCUMENT #43: John
225 - DC44 = DOCUMENT #44: Acts
226 - DC45 = DOCUMENT #45: Romans
227 - DC46 = DOCUMENT #46: 1 Corinthians
228 - DC47 = DOCUMENT #47: 2 Corinthians
229 - DC48 = DOCUMENT #48: Galatians
230 - DC49 = DOCUMENT #49: Ephesians
231 - DC50 = DOCUMENT #50: Philippians
232 - DC51 = DOCUMENT #51: Colossians
233 - DC52 = DOCUMENT #52: 1 Thessalonians
234 - DC53 = DOCUMENT #53: 2 Thessalonians
235 - DC54 = DOCUMENT #54: 1 Timothy
236 - DC55 = DOCUMENT #55: 2 Timothy
237 - DC56 = DOCUMENT #56: Titus
238 - DC57 = DOCUMENT #57: Philemon
239 - DC58 = DOCUMENT #58: Hebrews

240 - DC59 = DOCUMENT #59: James
241 - DC60 = DOCUMENT #60: 1 Peter
242 - DC61 = DOCUMENT #61: 2 Peter
243 - DC62 = DOCUMENT #62: 1 John
244 - DC63 = DOCUMENT #63: 2 John
245 - DC64 = DOCUMENT #64: 3 John
246 - DC65 = DOCUMENT #65: Jude
247 - DC66 = DOCUMENT #66: Revelation
248 - DC67 = DOCUMENT #67: Declaration of Independence
249 - DC68 = DOCUMENT #68: Constitution of the United States
250 - DC69 = DOCUMENT #69: Magna Charta
251 - DC70 = DOCUMENT #70: Emancipation Proclamation

**** DETAILS**

252 - BRAT = BIG RIGHT ARROW TAIL
253 - BRAH = BIG RIGHT ARROW HEAD
254 - SUPX = SUPER-X
255 - SUPO = SUPER-O

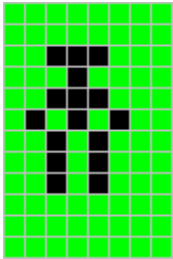
**** END**

Fake Text Character Set

Character Graphics

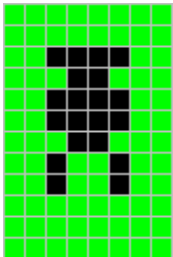
The second stage of development was the drawing of the character graphics:

** THE PLAYER

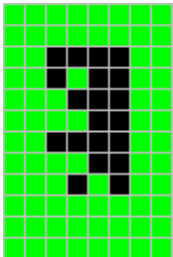


Character Number 000 = 00 hex:
000 - AVATAR

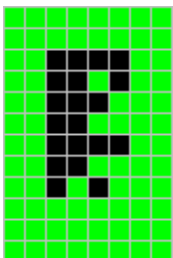
** THE PLAYER'S ENEMIES



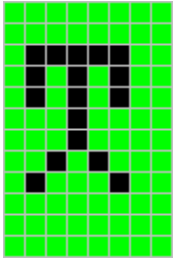
Character Number 001 = 01 hex:
001 - BEAST #1



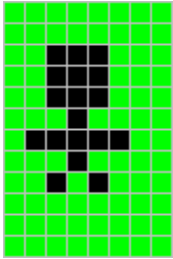
Character Number 002 = 02 hex:
002 - BEAST #2



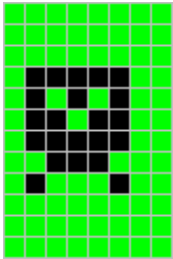
Character Number 003 = 03 hex:
003 - BEAST #3



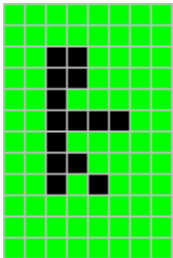
Character Number 004 = 04 hex:
004 - BEAST #4



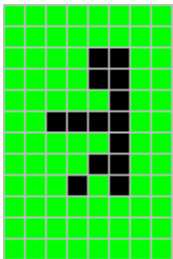
Character Number 005 = 05 hex:
005 - BEAST #5



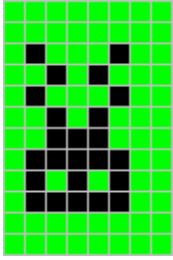
Character Number 006 = 06 hex:
006 - BEAST #6



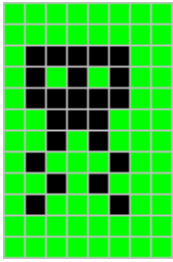
Character Number 007 = 07 hex:
007 - BEAST #7



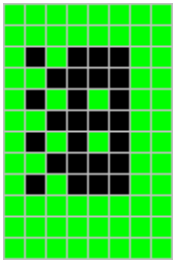
Character Number 008 = 08 hex:
008 - BEAST #8



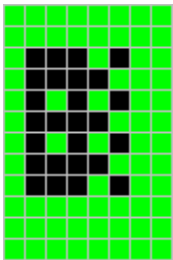
Character Number 009 = 09 hex:
009 - BEAST #9



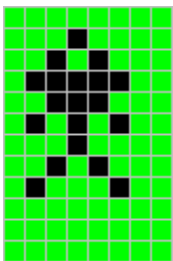
Character Number 010 = 0A hex:
010 - BEAST #10



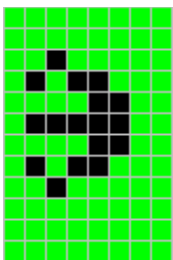
Character Number 011 = 0B hex:
011 - BEAST #11



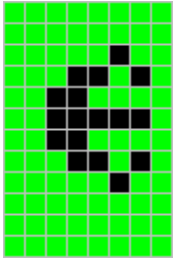
Character Number 012 = 0C hex:
012 - BEAST #12



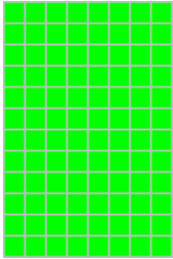
Character Number 013 = 0D hex:
013 - BEAST #13



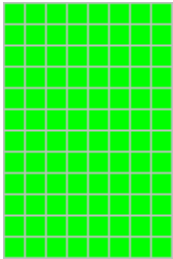
Character Number 014 = 0E hex:
014 - BEAST #14



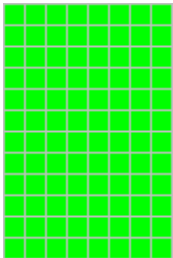
Character Number 015 = 0F hex:
015 - BEAST #15



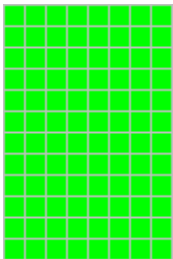
Character Number 016 = 10 hex:
016 - BEAST #1 BUT INVISIBLE



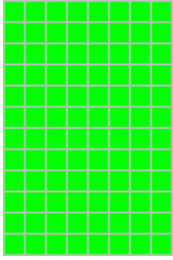
Character Number 017 = 11 hex:
017 - BEAST #2 BUT INVISIBLE



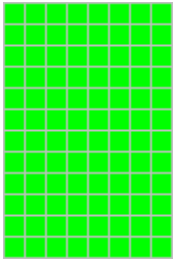
Character Number 018 = 12 hex:
018 - BEAST #3 BUT INVISIBLE



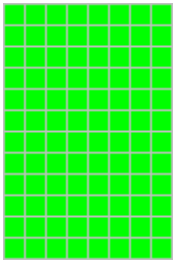
Character Number 019 = 13 hex:
019 - BEAST #4 BUT INVISIBLE



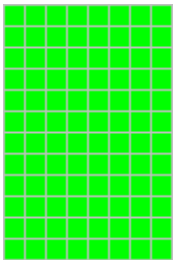
Character Number 020 = 14 hex:
020 - BEAST #5 BUT INVISIBLE



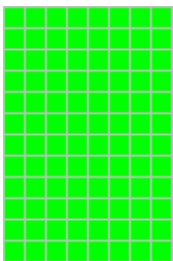
Character Number 021 = 15 hex:
021 - BEAST #6 BUT INVISIBLE



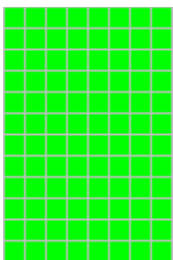
Character Number 022 = 16 hex:
022 - BEAST #7 BUT INVISIBLE



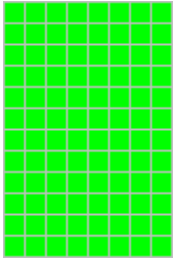
Character Number 023 = 17 hex:
023 - BEAST #8 BUT INVISIBLE



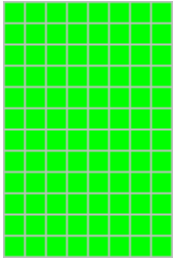
Character Number 024 = 18 hex:
024 - BEAST #9 BUT INVISIBLE



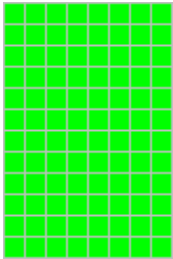
Character Number 025 = 19 hex:
025 - BEAST #10 BUT INVISIBLE



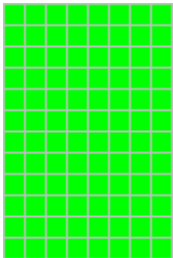
Character Number 026 = 1A hex:
026 - BEAST #11 BUT INVISIBLE



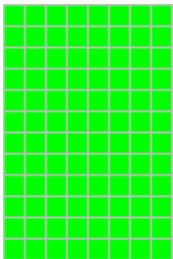
Character Number 027 = 1B hex:
027 - BEAST #12 BUT INVISIBLE



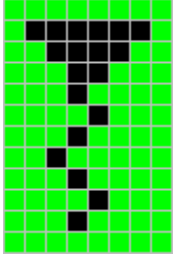
Character Number 028 = 1C hex:
028 - BEAST #13 BUT INVISIBLE



Character Number 029 = 1D hex:
029 - BEAST #14 BUT INVISIBLE

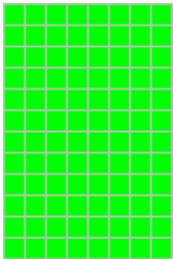


Character Number 030 = 1E hex:
030 - BEAST #15 BUT INVISIBLE

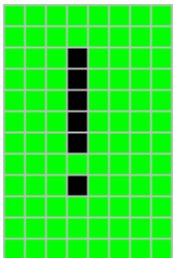


Character Number 031 = 1F hex:
031 - VORTEX

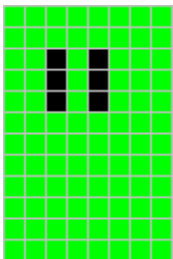
**** STANDARD ALPHANUMERICAL
** CHARACTER SET**



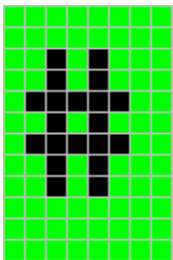
Character Number 032 = 20 hex:
032 - SPACE



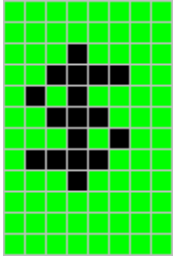
Character Number 033 = 21 hex:
033 - !



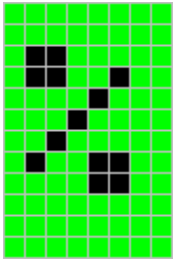
Character Number 034 = 22 hex:
034 - "



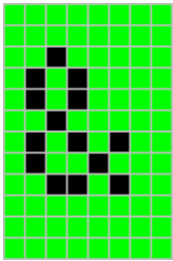
Character Number 035 = 23 hex:
035 - #



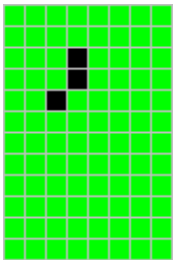
Character Number 036 = 24 hex:
036 - \$



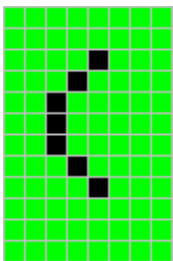
Character Number 037 = 25 hex:
037 - %



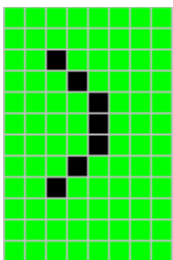
Character Number 038 = 26 hex:
038 - &



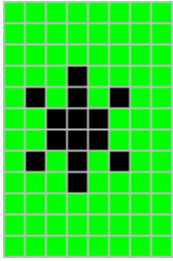
Character Number 039 = 27 hex:
039 - '



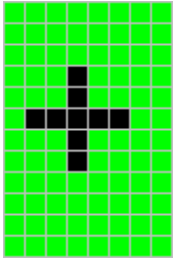
Character Number 040 = 28 hex:
040 - (



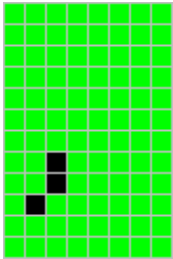
Character Number 041 = 29 hex:
041 -)



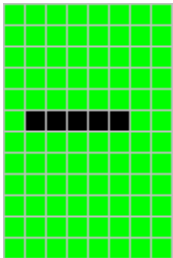
Character Number 042 = 2A hex:
042 - *



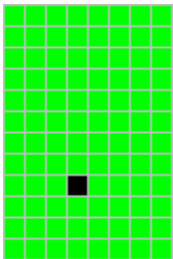
Character Number 043 = 2B hex:
043 - +



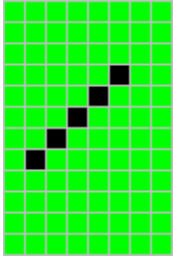
Character Number 044 = 2C hex:
044 - ,



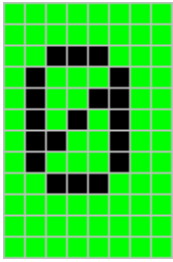
Character Number 045 = 2D hex:
045 - -



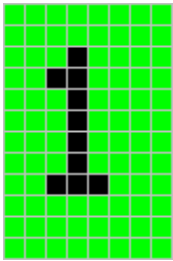
Character Number 046 = 2E hex:
046 - .



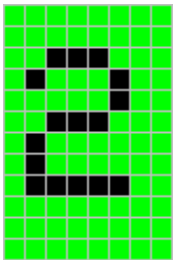
Character Number 047 = 2F hex:
047 - /



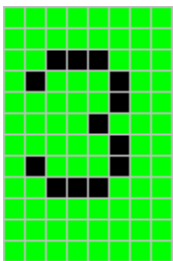
Character Number 048 = 30 hex:
048 - 0



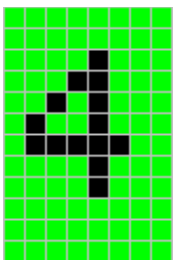
Character Number 049 = 31 hex:
049 - 1



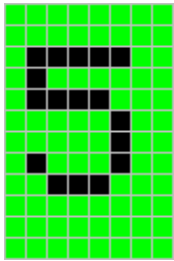
Character Number 050 = 32 hex:
050 - 2



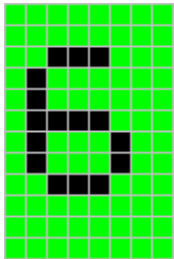
Character Number 051 = 33 hex:
051 - 3



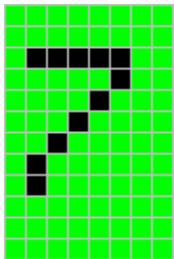
Character Number 052 = 34 hex:
052 - 4



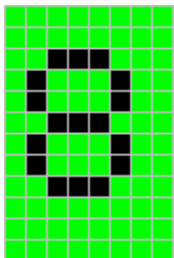
Character Number 053 = 35 hex:
053 - 5



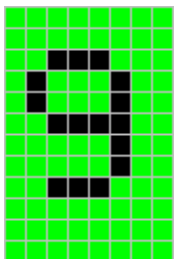
Character Number 054 = 36 hex:
054 - 6



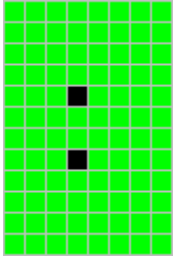
Character Number 055 = 37 hex:
055 - 7



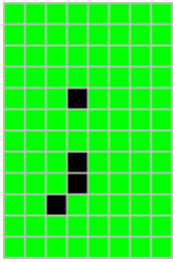
Character Number 056 = 38 hex:
056 - 8



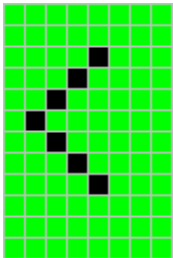
Character Number 057 = 39 hex:
057 - 9



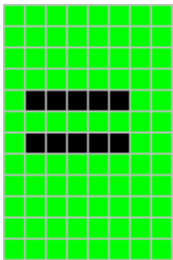
Character Number 058 = 3A hex:
058 - :



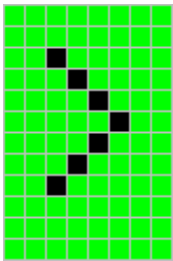
Character Number 059 = 3B hex:
059 - ;



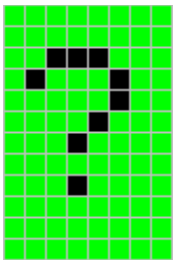
Character Number 060 = 3C hex:
060 - <



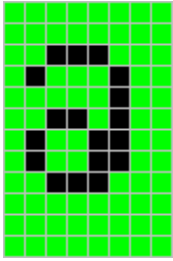
Character Number 061 = 3D hex:
061 - =



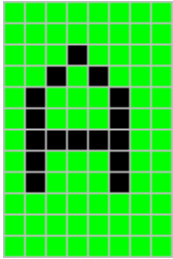
Character Number 062 = 3E hex:
062 - >



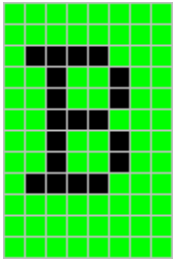
Character Number 063 = 3F hex:
063 - ?



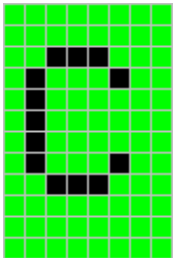
Character Number 064 = 40 hex:
064 - @



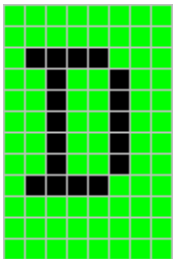
Character Number 065 = 41 hex:
065 - A



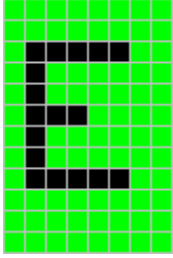
Character Number 066 = 42 hex:
066 - B



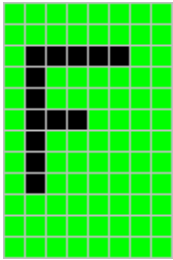
Character Number 067 = 43 hex:
067 - C



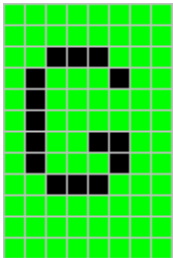
Character Number 068 = 44 hex:
068 - D



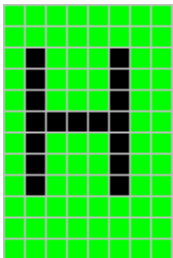
Character Number 069 = 45 hex:
069 - E



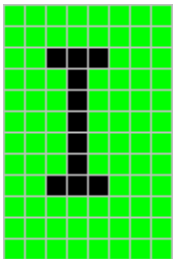
Character Number 070 = 46 hex:
070 - F



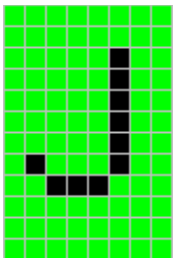
Character Number 071 = 47 hex:
071 - G



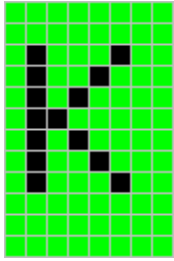
Character Number 072 = 48 hex:
072 - H



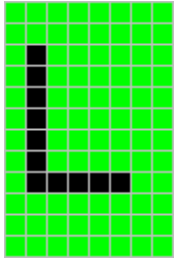
Character Number 073 = 49 hex:
073 - I



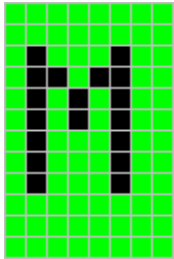
Character Number 074 = 4A hex:
074 - J



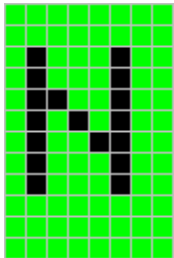
Character Number 075 = 4B hex:
075 - K



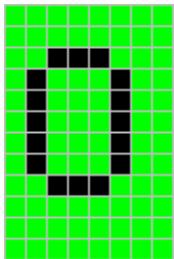
Character Number 076 = 4C hex:
076 - L



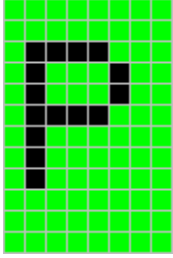
Character Number 077 = 4D hex:
077 - M



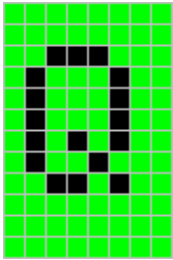
Character Number 078 = 4E hex:
078 - N



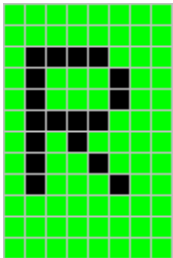
Character Number 079 = 4F hex:
079 - O



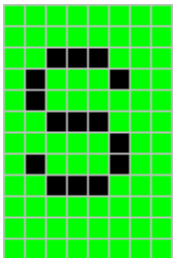
Character Number 080 = 50 hex:
080 - P



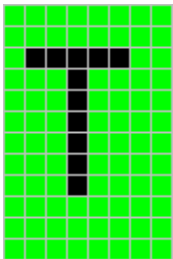
Character Number 081 = 51 hex:
081 - Q



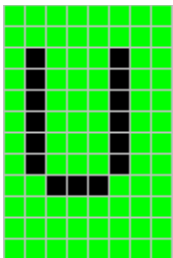
Character Number 082 = 52 hex:
082 - R



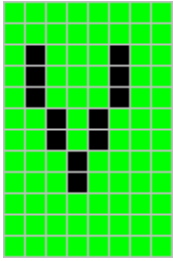
Character Number 083 = 53 hex:
083 - S



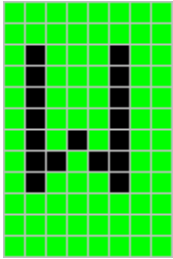
Character Number 084 = 54 hex:
084 - T



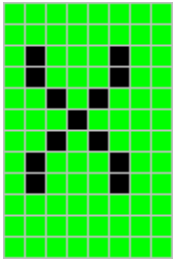
Character Number 085 = 55 hex:
085 - U



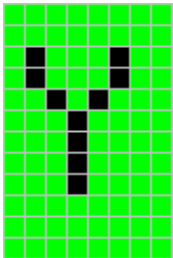
Character Number 086 = 56 hex:
086 - V



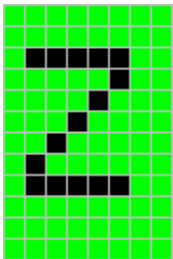
Character Number 087 = 57 hex:
087 - W



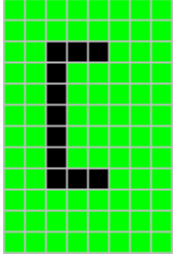
Character Number 088 = 58 hex:
088 - X



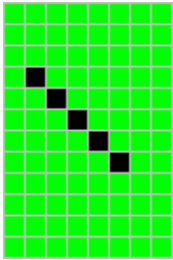
Character Number 089 = 59 hex:
089 - Y



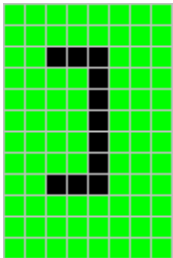
Character Number 090 = 5A hex:
090 - Z



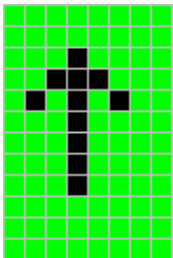
Character Number 091 = 5B hex:
091 - [



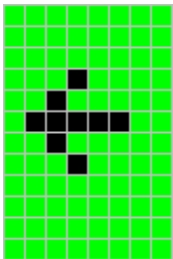
Character Number 092 = 5C hex:
092 - \



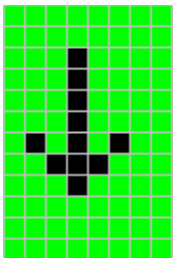
Character Number 093 = 5D hex:
093 -]



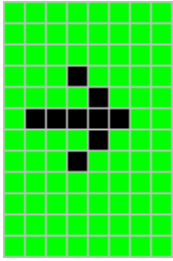
Character Number 094 = 5E hex:
094 - UA = UP ARROW



Character Number 095 = 5F hex:
095 - LA = LEFT ARROW

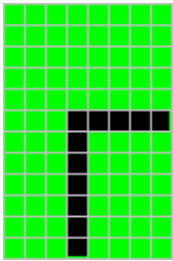


Character Number 096 = 60 hex:
096 - DA = DOWN ARROW

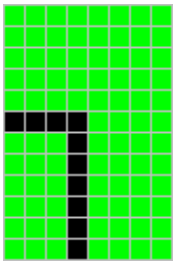


Character Number 097 = 61 hex:
097 - RA = RIGHT ARROW

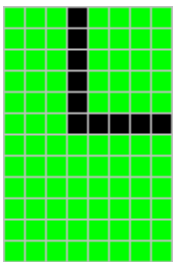
** CORNER LINES



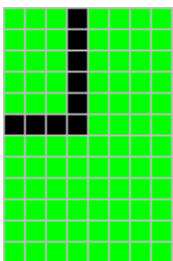
Character Number 098 = 62 hex:
098 - LUL = LINE UPPER LEFT CORNER



Character Number 099 = 63 hex:
099 - LUR = LINE UPPER RIGHT CORNER

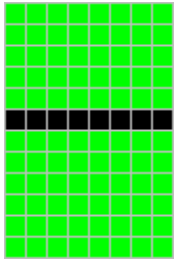


Character Number 100 = 64 hex:
100 - LLL = LINE LOWER LEFT CORNER

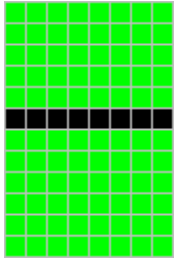


Character Number 101 = 65 hex:
101 - LLR = LINE LOWER RIGHT CORNER

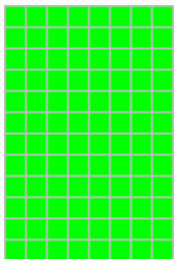
** HORIZONTAL LINES



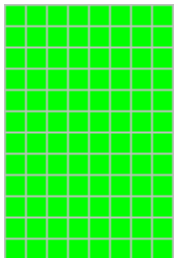
Character Number 102 = 66 hex:
102 - LH = LINE HORIZONTAL, VISIBLE,
PASSIBLE, AND DESTRUCTABLE



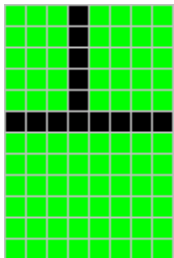
Character Number 103 = 67 hex:
103 - LHVI = LINE HORIZONTAL AND VISIBLE,
BUT IMPASSIBLE AND INDESTRUCTABLE



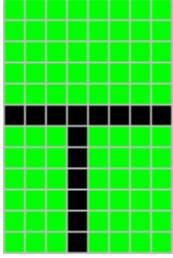
Character Number 104 = 68 hex:
104 - LHID = LINE HORIZONTAL BUT INVISIBLE,
PASSIBLE, AND DESTRUCTABLE



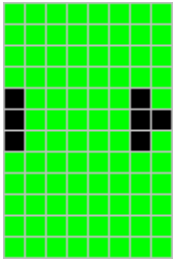
Character Number 105 = 69 hex:
105 - LHII = LINE HORIZONTAL BUT INVISIBLE,
IMPASSIBLE, AND INDESTRUCTABLE



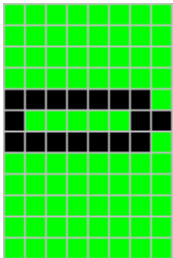
Character Number 106 = 6A hex:
106 - LHUV = LINE HORIZONTAL WITH UPPER
VERTICAL



Character Number 107 = 6B hex:
107 - LHLV = LINE HORIZONTAL WITH LOWER
VERTICAL

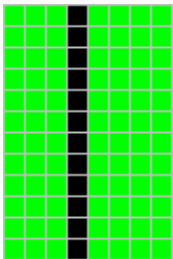


Character Number 108 = 6C hex:
108 - LHO = LINE HORIZONTAL WITH OPENING

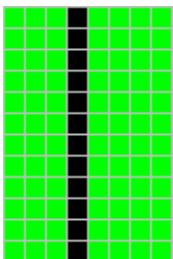


Character Number 109 = 6D hex:
109 - LHOL = LINE HORIZONTAL WITH LOCKED
OPENING

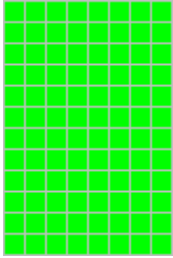
** VERTICAL LINES



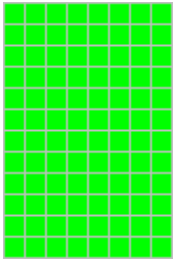
Character Number 110 = 6E hex:
110 - LV = LINE VERTICAL, VISIBLE, PASSIBLE,
AND DESTRUCTABLE



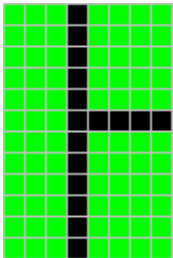
Character Number 111 = 6F hex:
111 - LVVI = LINE VERTICAL AND VISIBLE, BUT
IMPASSIBLE AND INDESTRUCTABLE



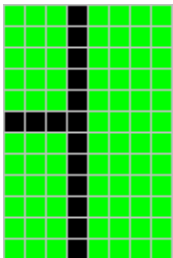
Character Number 112 = 70 hex:
112 - LVID = LINE VERTICAL BUT INVISIBLE,
PASSIBLE, AND DESTRUCTABLE



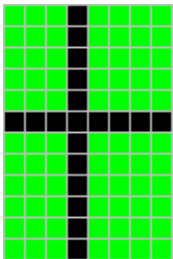
Character Number 113 = 71 hex:
113 - LVII = LINE VERTICAL BUT INVISIBLE,
IMPASSIBLE, AND INDESTRUCTABLE



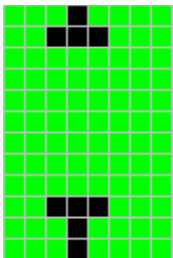
Character Number 114 = 72 hex:
114 - LVRH = LINE VERTICAL WITH RIGHT
HORIZONTAL



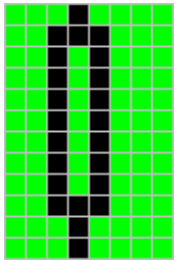
Character Number 115 = 73 hex:
115 - LVLH = LINE VERTICAL WITH LEFT
HORIZONTAL



Character Number 116 = 74 hex:
116 - LVH = LINE VERTICAL WITH FULL
HORIZONTAL

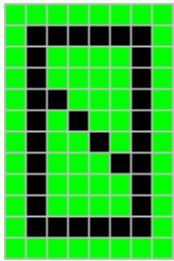


Character Number 117 = 75 hex:
117 - LVO = LINE VERTICAL WITH OPENING

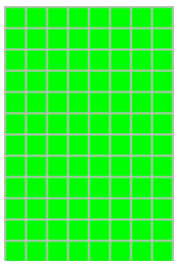


Character Number 118 = 76 hex:
118 - LVOL = LINE VERTICAL WITH LOCKED
OPENING

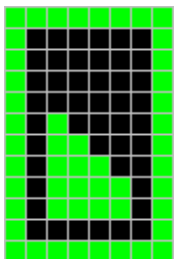
** TUNNELS



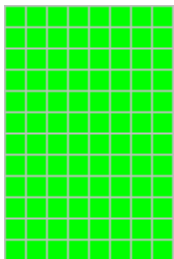
Character Number 119 = 77 hex:
119 - TD = TUNNEL DOWN



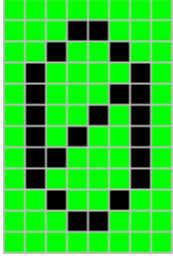
Character Number 120 = 78 hex:
120 - TDI = TUNNEL DOWN BUT INVISIBLE



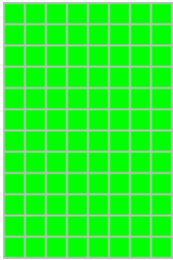
Character Number 121 = 79 hex:
121 - TDL = TUNNEL DOWN, LOCKED



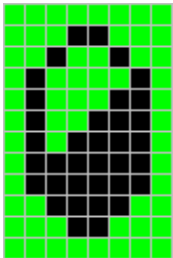
Character Number 122 = 7A hex:
122 - TDLI = TUNNEL DOWN, LOCKED BUT
INVISIBLE



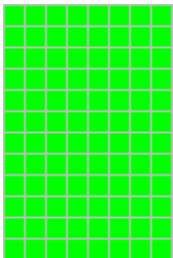
Character Number 123 = 7B hex:
123 - TU = TUNNEL UP



Character Number 124 = 7C hex:
124 - TUI = TUNNEL UP BUT INVISIBLE

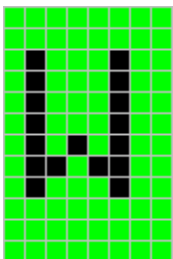


Character Number 125 = 7D hex:
125 - TUL = TUNNEL UP, LOCKED

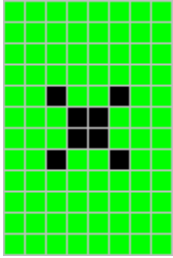


Character Number 126 = 7E hex:
126 - TULI = TUNNEL UP, LOCKED BUT
INVISIBLE

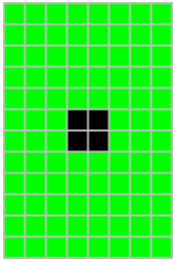
**** FEATURES**



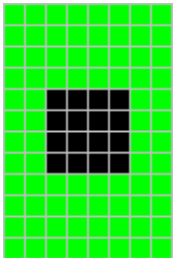
Character Number 127 = 7F hex:
127 - WHSE = WAREHOUSE



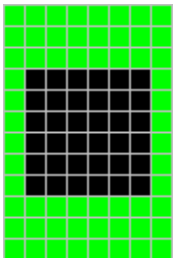
Character Number 128 = 80 hex:
128 - DX00 = DIG LOCATION - POSSIBLE BURIED
ITEM



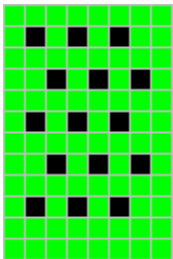
Character Number 129 = 81 hex:
129 - DX01 = HOLE #01 - AFTER FIRST DIG
ATTEMPT



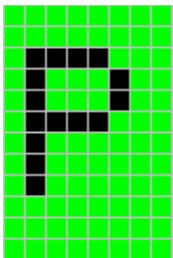
Character Number 130 = 82 hex:
130 - DX02 = HOLE #02 - AFTER SECOND DIG
ATTEMPT



Character Number 131 = 83 hex:
131 - DX03 = HOLE #03 - AFTER THIRD DIG
ATTEMPT: EMPTY HOLE - NOTHING BURIED
HERE

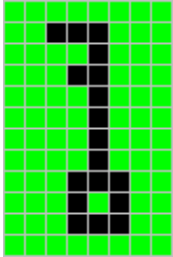


Character Number 132 = 84 hex:
132 - FC = COBBLESTONES



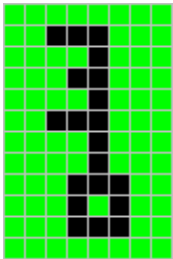
Character Number 133 = 85 hex:
133 - FP = PROVISIONS

** ITEMS



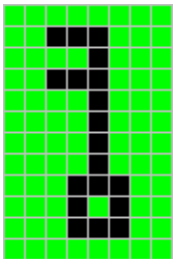
Character Number 134 = 86 hex:

134 - KY01 = KEY #01



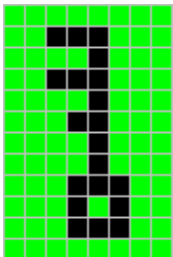
Character Number 135 = 87 hex:

135 - KY02 = KEY #02



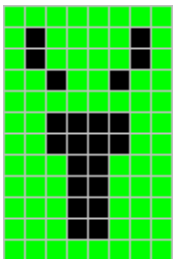
Character Number 136 = 88 hex:

136 - KY03 = KEY #03



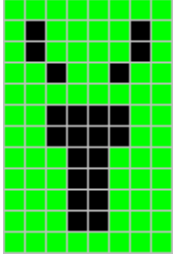
Character Number 137 = 89 hex:

137 - KY04 = KEY #04

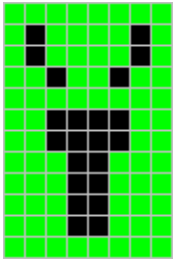


Character Number 138 = 8A hex:

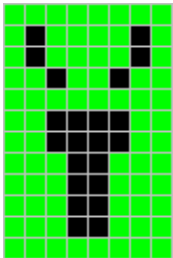
138 - FL01 = FLASHLIGHT #01



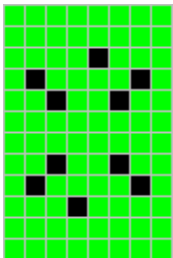
Character Number 139 = 8B hex:
139 - FL02 = FLASHLIGHT #02



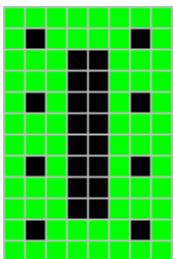
Character Number 140 = 8C hex:
140 - FL03 = FLASHLIGHT #03



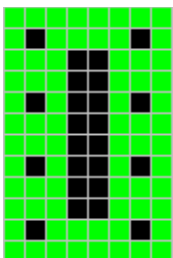
Character Number 141 = 8D hex:
141 - FL04 = FLASHLIGHT #04



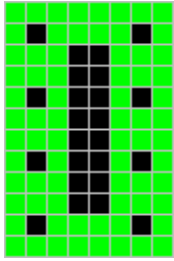
Character Number 142 = 8E hex:
142 - IL = ILLUMINATOR



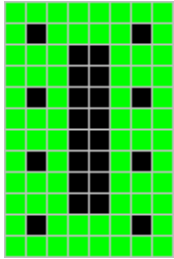
Character Number 143 = 8F hex:
143 - DS01 = DYNAMITE STICK #01



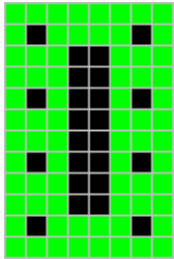
Character Number 144 = 90 hex:
144 - DS02 = DYNAMITE STICK #02



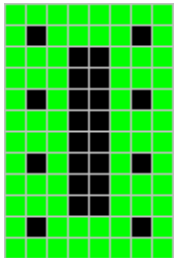
Character Number 145 = 91 hex:
145 - DS03 = DYNAMITE STICK #03



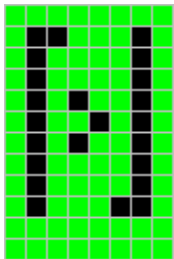
Character Number 146 = 92 hex:
146 - DS04 = DYNAMITE STICK #04



Character Number 147 = 93 hex:
147 - DS05 = DYNAMITE STICK #05

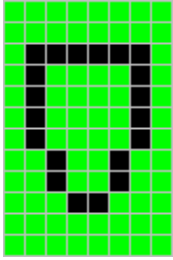


Character Number 148 = 94 hex:
148 - DS06 = DYNAMITE STICK #06

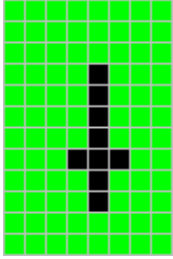


Character Number 149 = 95 hex:
149 - TR = TRANSPORTER

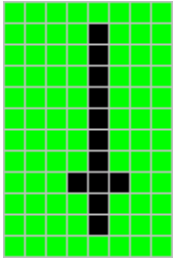
** WEAPONS



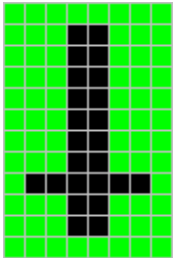
Character Number 150 = 96 hex:
150 - SH = SHIELD



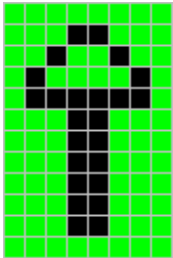
Character Number 151 = 97 hex:
151 - SS = SHORT SWORD



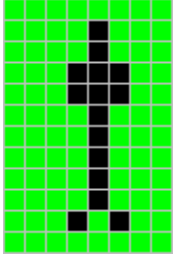
Character Number 152 = 98 hex:
152 - SW = SWORD



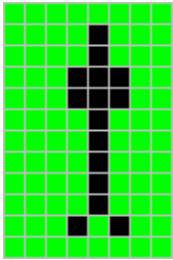
Character Number 153 = 99 hex:
153 - SB = BROADSWORD



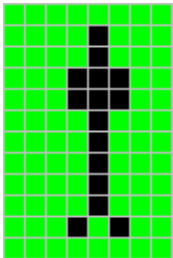
Character Number 154 = 9A hex:
154 - CB = CROSSBOW



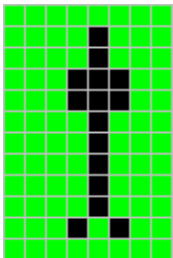
Character Number 155 = 9B hex:
155 - AR01 = ARROW #01



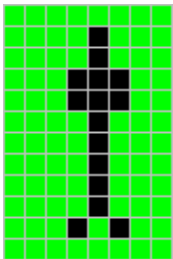
Character Number 156 = 9C hex:
156 - AR02 = ARROW #02



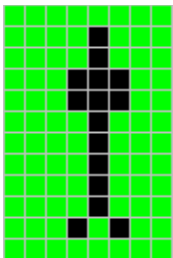
Character Number 157 = 9D hex:
157 - AR03 = ARROW #03



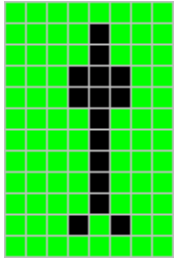
Character Number 158 = 9E hex:
158 - AR04 = ARROW #04



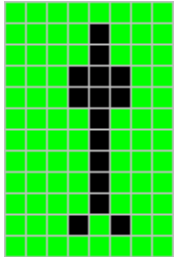
Character Number 159 = 9F hex:
159 - AR05 = ARROW #05



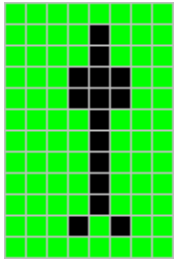
Character Number 160 = A0 hex:
160 - AR06 = ARROW #06



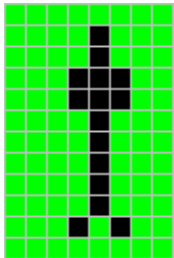
Character Number 161 = A1 hex:
161 - AR07 = ARROW #07



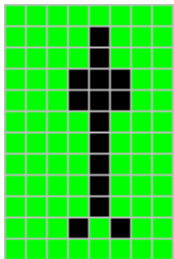
Character Number 162 = A2 hex:
162 - AR08 = ARROW #08



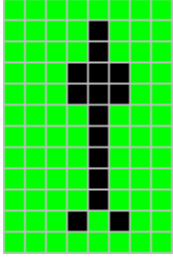
Character Number 163 = A3 hex:
163 - AR09 = ARROW #09



Character Number 164 = A4 hex:
164 - AR10 = ARROW #10

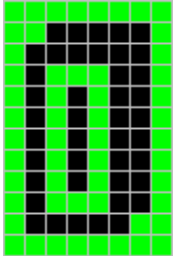


Character Number 165 = A5 hex:
165 - AR11 = ARROW #11

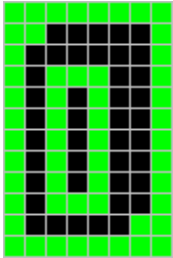


Character Number 166 = A6 hex:
166 - AR12 = ARROW #12

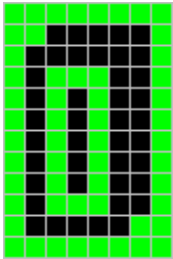
** BOOKS



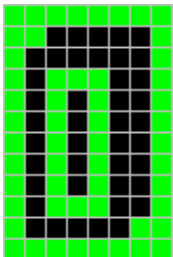
Character Number 167 = A7 hex:
167 - BK01 = BOOK #01: THE ENTIRE BIBLE



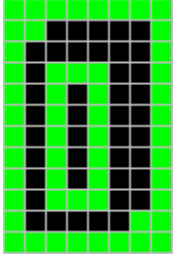
Character Number 168 = A8 hex:
168 - BK02 = BOOK #02: HISTORY OF ROME BY
LIVY



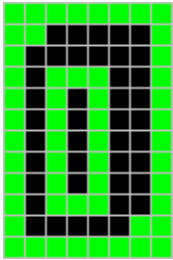
Character Number 169 = A9 hex:
169 - BK03 = BOOK #03: ODYSSEY BY HOMER



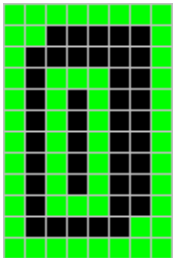
Character Number 170 = AA hex:
170 - BK04 = BOOK #04: REPUBLIC BY PLATO



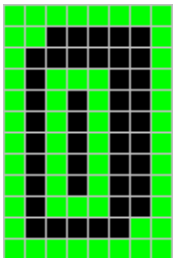
Character Number 171 = AB hex:
171 - BK05 = BOOK #05: AENEID BY VIRGIL



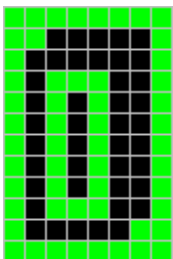
Character Number 172 = AC hex:
172 - BK06 = BOOK #06: METAMORPHOSES BY OVID



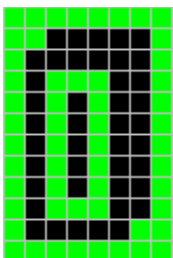
Character Number 173 = AD hex:
173 - BK07 = BOOK #07: AESOP'S FABLES BY AESOP



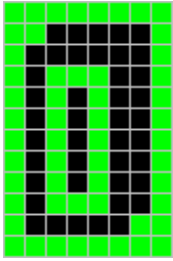
Character Number 174 = AE hex:
174 - BK08 = BOOK #08: APOLOGY BY PLATO



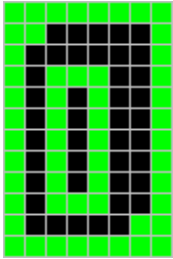
Character Number 175 = AF hex:
175 - BK09 = BOOK #09: ULYSSES BY JAMES JOYCE



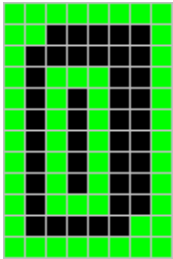
Character Number 176 = B0 hex:
176 - BK10 = BOOK #10: DON QUIXOTE BY MIGUEL DE CERVANTES



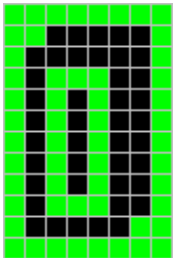
Character Number 177 = B1 hex:
177 - BK11 = BOOK #11: MOBY DICK BY HERMAN
MELVILLE



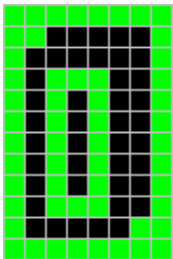
Character Number 178 = B2 hex:
178 - BK12 = BOOK #12: WAR AND PEACE BY LEO
TOLSTOY



Character Number 179 = B3 hex:
179 - BK13 = BOOK #13: HAMLET BY WILLIAM
SHAKESPEARE

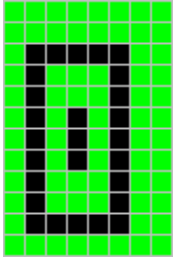


Character Number 180 = B4 hex:
180 - BK14 = BOOK #14: BROTHERS KARAMAZOV
BY FYODOR DOSTOYEVSKY

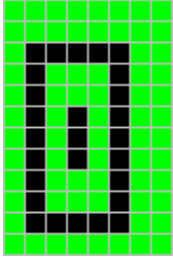


Character Number 181 = B hex:
181 - BK15 = BOOK #15: ADVENTURES OF
HUCKLEBERRY FINN BY MARK TWAIN

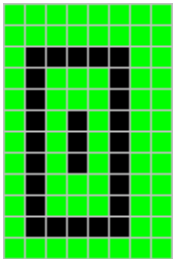
**** DOCUMENTS**



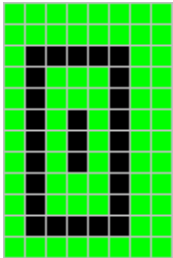
Character Number 182 = B6 hex:
182 - DC01 = DOCUMENT #01: Genesis



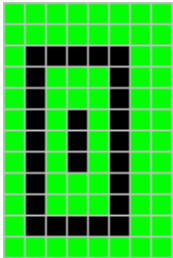
Character Number 183 = B7 hex:
183 - DC02 = DOCUMENT #02: Exodus



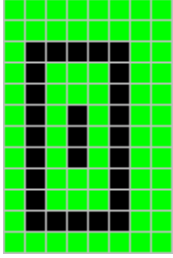
Character Number 184 = B8 hex:
184 - DC03 = DOCUMENT #03: Leviticus



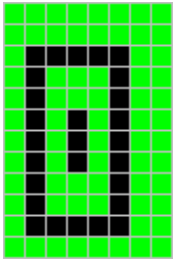
Character Number 185 = B9 hex:
185 - DC04 = DOCUMENT #04: Numbers



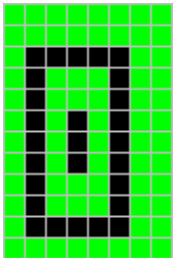
Character Number 186 = BA hex:
186 - DC05 = DOCUMENT #05: Deuteronomy



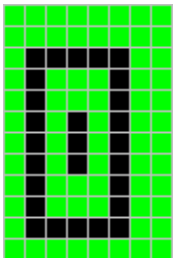
Character Number 187 = BB hex:
187 - DC06 = DOCUMENT #06: Joshua



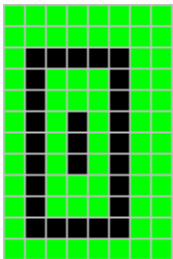
Character Number 188 = BC hex:
188 - DC07 = DOCUMENT #07: Judges



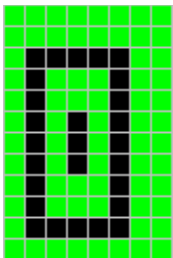
Character Number 189 = BD hex:
189 - DC08 = DOCUMENT #08: Ruth



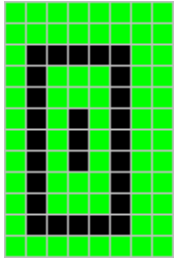
Character Number 190 = BE hex:
190 - DC09 = DOCUMENT #09: 1 Samuel



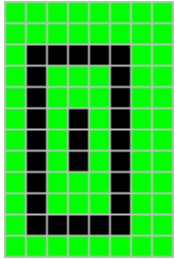
Character Number 191 = BF hex:
191 - DC10 = DOCUMENT #10: 2 Samuel



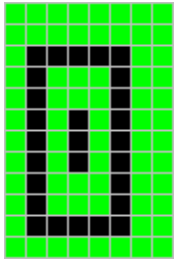
Character Number 192 = C0 hex:
192 - DC11 = DOCUMENT #11: 1 Kings



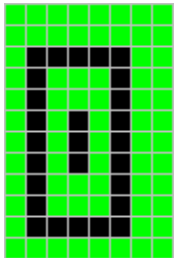
Character Number 193 = C1 hex:
193 - DC12 = DOCUMENT #12: 2 Kings



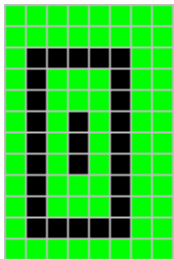
Character Number 194 = C2 hex:
194 - DC13 = DOCUMENT #13: 1 Chronicles



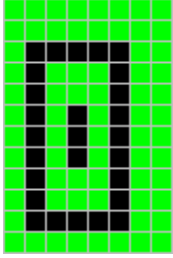
Character Number 195 = C3 hex:
195 - DC14 = DOCUMENT #14: 2 Chronicles



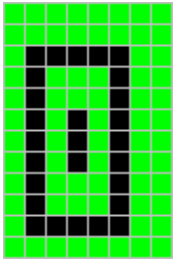
Character Number 196 = C4 hex:
196 - DC15 = DOCUMENT #15: Ezra



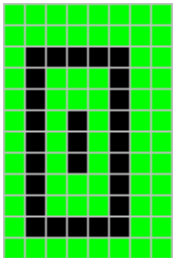
Character Number 197 = C5 hex:
197 - DC16 = DOCUMENT #16: Nehemiah



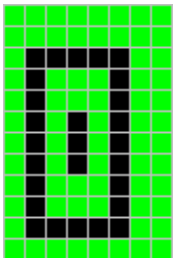
Character Number 198 = C6 hex:
198 - DC17 = DOCUMENT #17: Esther



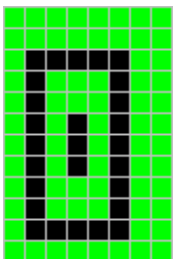
Character Number 199 = C7 hex:
199 - DC18 = DOCUMENT #18: Job



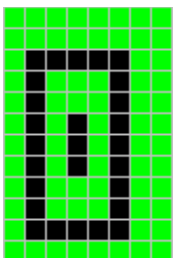
Character Number 200 = C8 hex:
200 - DC19 = DOCUMENT #19: Psalms



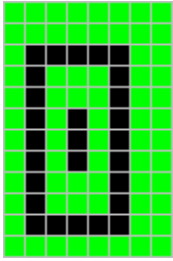
Character Number 201 = C9 hex:
201 - DC20 = DOCUMENT #20: Proverbs



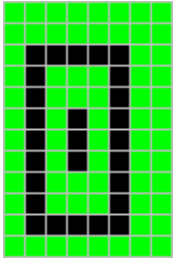
Character Number 202 = CA hex:
202 - DC21 = DOCUMENT #21: Ecclesiastes



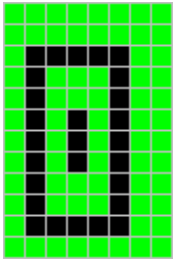
Character Number 203 = CB hex:
203 - DC22 = DOCUMENT #22: Song of Solomon



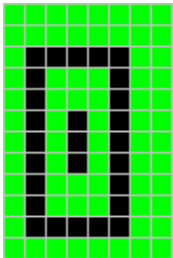
Character Number 204 = CC hex:
204 - DC23 = DOCUMENT #23: Isaiah



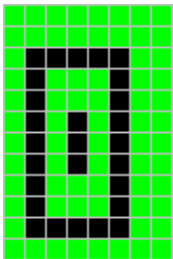
Character Number 205 = CD hex:
205 - DC24 = DOCUMENT #24: Jeremiah



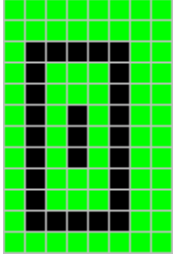
Character Number 206 = CE hex:
206 - DC25 = DOCUMENT #25: Lamentations



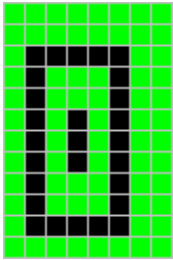
Character Number 207 = CF hex:
207 - DC26 = DOCUMENT #26: Ezekiel



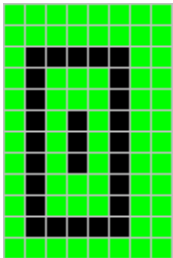
Character Number 208 = D0 hex:
208 - DC27 = DOCUMENT #27: Daniel



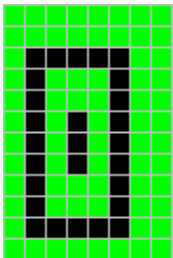
Character Number 209 = D1 hex:
209 - DC28 = DOCUMENT #28: Hosea



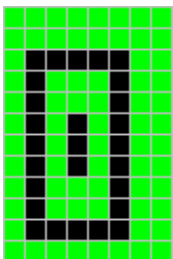
Character Number 210 = D2 hex:
210 - DC29 = DOCUMENT #29: Joel



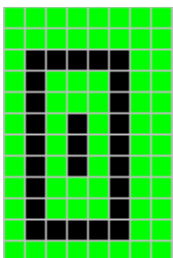
Character Number 211 = D3 hex:
211 - DC30 = DOCUMENT #30: Amos



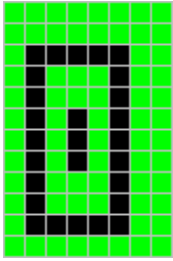
Character Number 212 = D4 hex:
212 - DC31 = DOCUMENT #31: Obadiah



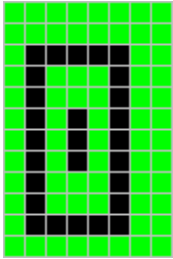
Character Number 213 = D5 hex:
213 - DC32 = DOCUMENT #32: Jonah



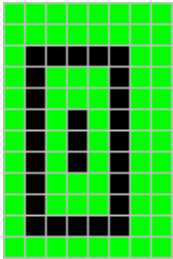
Character Number 214 = D6 hex:
214 - DC33 = DOCUMENT #33: Micah



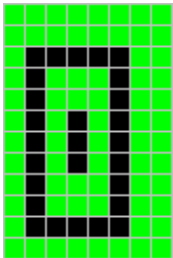
Character Number 215 = D7 hex:
215 - DC34 = DOCUMENT #34: Nahum



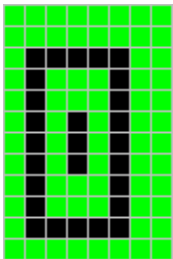
Character Number 216 = D8 hex:
216 - DC35 = DOCUMENT #35: Habakkuk



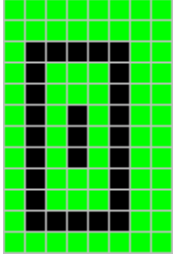
Character Number 217 = D9 hex:
217 - DC36 = DOCUMENT #36: Zephaniah



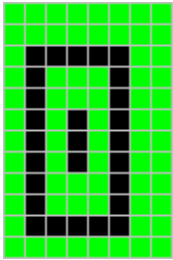
Character Number 218 = DA hex:
218 - DC37 = DOCUMENT #37: Haggai



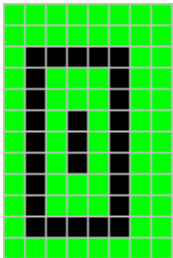
Character Number 219 = DB hex:
219 - DC38 = DOCUMENT #38: Zechariah



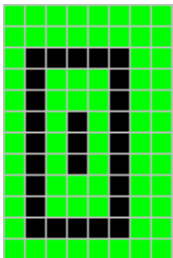
Character Number 220 = DC hex:
220 - DC39 = DOCUMENT #39: Malachi



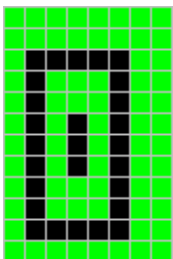
Character Number 221 = DD hex:
221 - DC40 = DOCUMENT #40: Matthew



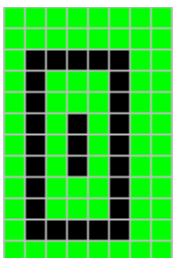
Character Number 222 = DE hex:
222 - DC41 = DOCUMENT #41: Mark



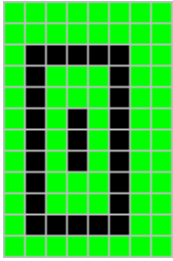
Character Number 223 = DF hex:
223 - DC42 = DOCUMENT #42: Luke



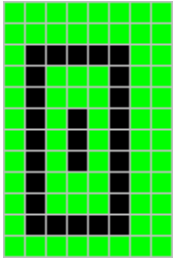
Character Number 224 = E0 hex:
224 - DC43 = DOCUMENT #43: John



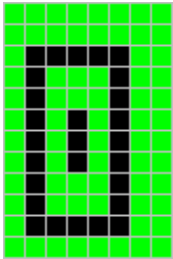
Character Number 225 = E1 hex:
225 - DC44 = DOCUMENT #44: Acts



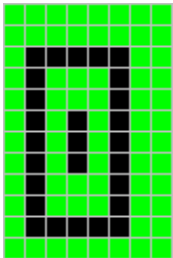
Character Number 226 = E2 hex:
226 - DC45 = DOCUMENT #45: Romans



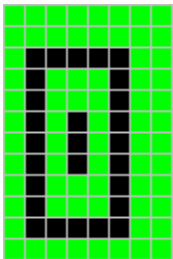
Character Number 227 = E3 hex:
227 - DC46 = DOCUMENT #46: 1 Corinthians



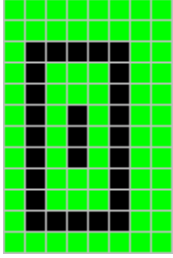
Character Number 228 = E4 hex:
228 - DC47 = DOCUMENT #47: 2 Corinthians



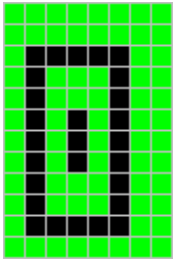
Character Number 229 = E5 hex:
229 - DC48 = DOCUMENT #48: Galatians



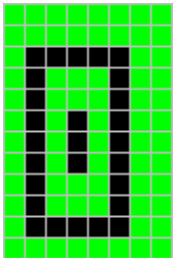
Character Number 230 = E6 hex:
230 - DC49 = DOCUMENT #49: Ephesians



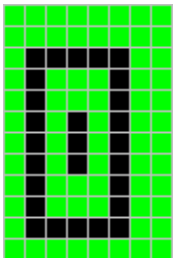
Character Number 231 = E7 hex:
231 - DC50 = DOCUMENT #50: Philippians



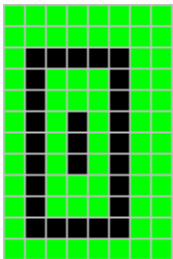
Character Number 232 = E8 hex:
232 - DC51 = DOCUMENT #51: Colossians



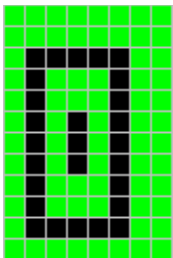
Character Number 233 = E9 hex:
233 - DC52 = DOCUMENT #52: 1 Thessalonians



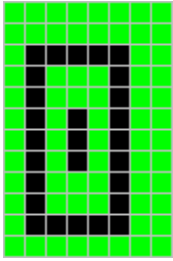
Character Number 234 = EA hex:
234 - DC53 = DOCUMENT #53: 2 Thessalonians



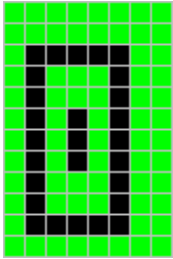
Character Number 235 = EB hex:
235 - DC54 = DOCUMENT #54: 1 Timothy



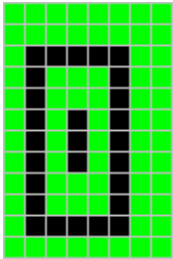
Character Number 236 = EC hex:
236 - DC55 = DOCUMENT #55: 2 Timothy



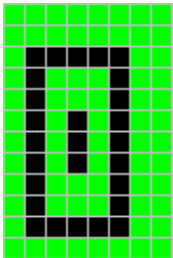
Character Number 237 = ED hex:
237 - DC56 = DOCUMENT #56: Titus



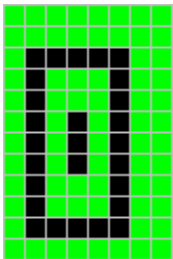
Character Number 238 = EE hex:
238 - DC57 = DOCUMENT #57: Philemon



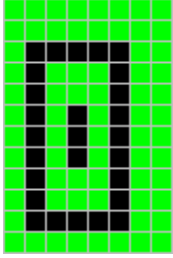
Character Number 239 = EF hex:
239 - DC58 = DOCUMENT #58: Hebrews



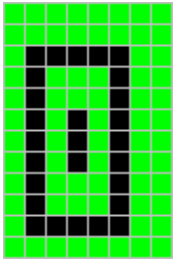
Character Number 240 = F0 hex:
240 - DC59 = DOCUMENT #59: James



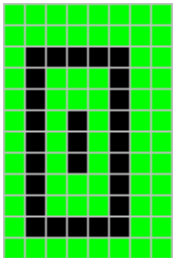
Character Number 241 = F1 hex:
241 - DC60 = DOCUMENT #60: 1 Peter



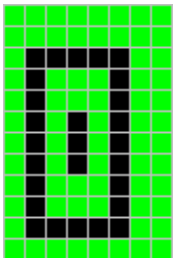
Character Number 242 = F2 hex:
242 - DC61 = DOCUMENT #61: 2 Peter



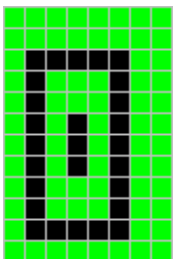
Character Number 243 = F3 hex:
243 - DC62 = DOCUMENT #62: 1 John



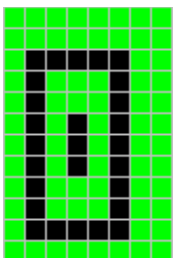
Character Number 244 = F4 hex:
244 - DC63 = DOCUMENT #63: 2 John



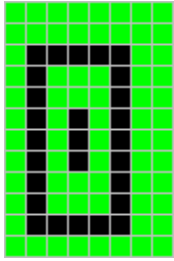
Character Number 245 = F5 hex:
245 - DC64 = DOCUMENT #64: 3 John



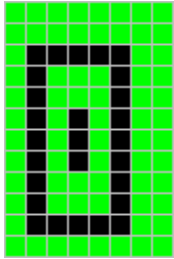
Character Number 246 = F6 hex:
246 - DC65 = DOCUMENT #65: Jude



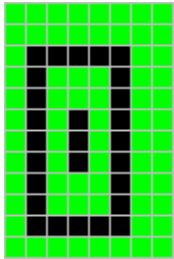
Character Number 247 = F7 hex:
247 - DC66 = DOCUMENT #66: Revelation



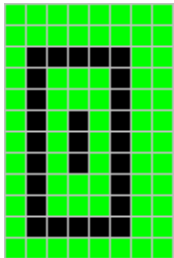
Character Number 248 = F8 hex:
248 - DC67 = DOCUMENT #67: Declaration of Independence



Character Number 249 = F9 hex:
249 - DC68 = DOCUMENT #68: Constitution of the United States

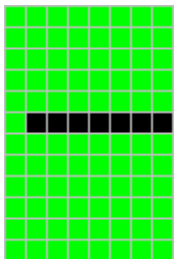


Character Number 250 = FA hex:
250 - DC69 = DOCUMENT #69: Magna Charta

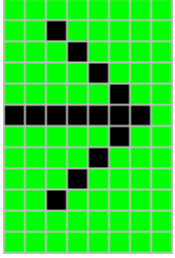


Character Number 251 = FB hex:
251 - DC70 = DOCUMENT #70: Emancipation Proclamation

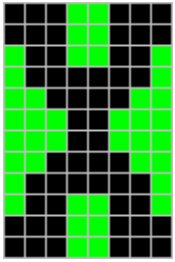
**** DETAILS**



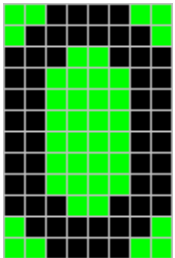
Character Number 252 = FC hex:
252 - BRAT = BIG RIGHT ARROW TAIL



Character Number 253 = FD hex:
253 - BRAH = BIG RIGHT ARROW HEAD



Character Number 254 = FE hex:
254 - SUPX = SUPER-X



Character Number 255 = FF hex:
255 - SUPO = SUPER-O

**** END**

Fake Text Character Set

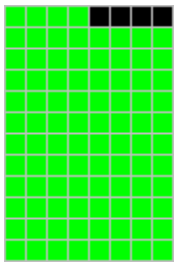
Character Encoding Hex Patterns

The third stage of development was the encoding to the character graphics for eventual use by the PTFCHR Routine.

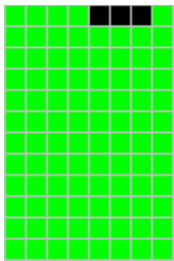
To accomplish this, each of the characters was encoded as twelve bytes; with each of the bytes being a two-nibble representation of the pixel pattern in a given line of the character's 12 lines; and with the lines being arranged from top-to-bottom.

There were thus sixteen distinct nibble patterns.

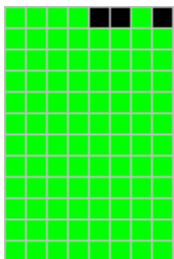
** THE SIXTEEN PATTERNS



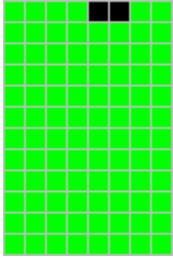
Character Hex Pattern \$00
= 000 decimal



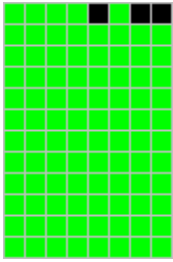
Character Hex Pattern \$01
= 001 decimal



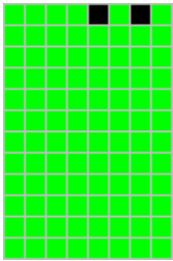
Character Hex Pattern \$02
= 002 decimal



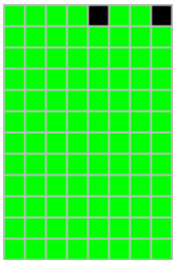
Character Hex Pattern \$03
= 003 decimal



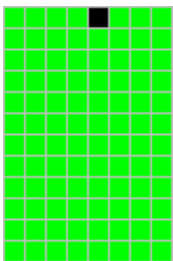
Character Hex Pattern \$04
= 004 decimal



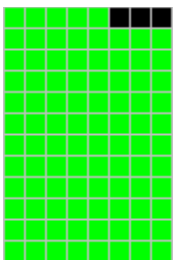
Character Hex Pattern \$05
= 005 decimal



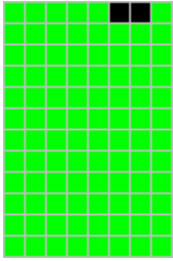
Character Hex Pattern \$06
= 006 decimal



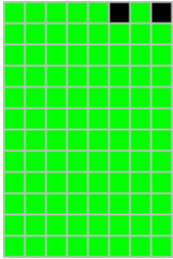
Character Hex Pattern \$07
= 007 decimal



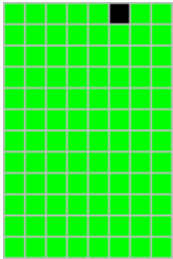
Character Hex Pattern \$08
= 008 decimal



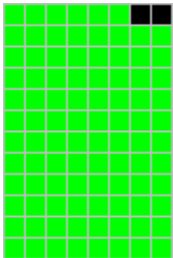
Character Hex Pattern \$09
= 009 decimal



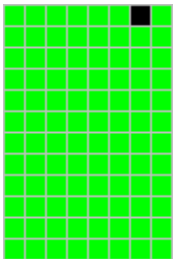
Character Hex Pattern \$0A
= 010 decimal



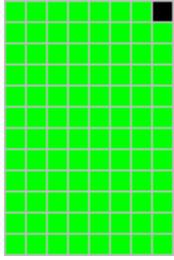
Character Hex Pattern \$0B
= 011 decimal



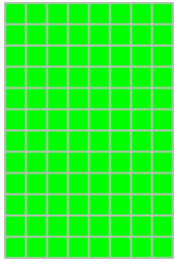
Character Hex Pattern \$0C
= 012 decimal



Character Hex Pattern \$0D
= 013 decimal

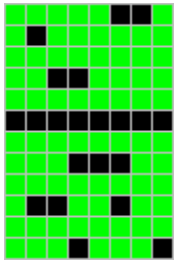


Character Hex Pattern \$0E
= 014 decimal



Character Hex Pattern \$0F
= 015 decimal

**** EXAMPLE**



* CHARACTER	EXAMPLE
CHREXA	FCB \$F9
	FCB \$BF
	FCB \$FF
	FCB \$CF
	FCB \$FF
	FCB \$00
	FCB \$FF
	FCB \$E3
	FCB \$FF
	FCB \$9B
	FCB \$FF
	FCB \$EE

Fake Text Character Set Character Encoding Characters 000-031

Continuing the third stage of development, the nibble patterns were used to encode each of the 256 characters.

```

00100 *****
00110 *
00120 * CHR3216A.ASM
00130 * MDJ 2023/03/31
00140 *
00150 * THE FAKETEXT 32 X 16
00160 * CHARACTER SET FOR
00170 * PMODE 4
00180 *
00190 * EACH OF THE 255
00200 * CHARACTERS IS 8 BITS
00210 * (I.E. ONE BYTE) WIDE
00220 * AND TWELVE BYTES HIGH
00230 *
00240 * THIS FILE = CHARACTERS
00250 * CHR000 THROUGH CHR031
00260 *
00270 *****
00280
4700      00290          ORG          $4700
00300
00310 * CHARACTER 000 - AVATAR
4700      FF      00320 CHR000  FCB      $FF
4701      FF      00330          FCB      $FF
4702      C7      00340          FCB      $C7
4703      EF      00350          FCB      $EF
4704      C7      00360          FCB      $C7
4705      AB      00370          FCB      $AB
4706      D7      00380          FCB      $D7
4707      D7      00390          FCB      $D7
4708      D7      00400          FCB      $D7
4709      FF      00410          FCB      $FF
470A      FF      00420          FCB      $FF
470B      FF      00430          FCB      $FF
00440

```

		00450	* CHARACTER 001	-
		00460	* BEAST #1	
470C	FF	00470	CHR001	FCB \$FF
470D	FF	00480		FCB \$FF
470E	C3	00490		FCB \$C3
470F	E7	00500		FCB \$E7
4710	C3	00510		FCB \$C3
4711	C3	00520		FCB \$C3
4712	E7	00530		FCB \$E7
4713	DB	00540		FCB \$DB
4714	DB	00550		FCB \$DB
4715	FF	00560		FCB \$FF
4716	FF	00570		FCB \$FF
4717	FF	00580		FCB \$FF
		00590		
		00600	* CHARACTER 002	-
		00610	* BEAST #2	
4718	FF	00620	CHR002	FCB \$FF
4719	FF	00630		FCB \$FF
471A	C3	00640		FCB \$C3
471B	D3	00650		FCB \$D3
471C	E3	00660		FCB \$E3
471D	F3	00670		FCB \$F3
471E	C3	00680		FCB \$C3
471F	F3	00690		FCB \$F3
4720	EB	00700		FCB \$EB
4721	FF	00710		FCB \$FF
4722	FF	00720		FCB \$FF
4723	FF	00730		FCB \$FF
		00740		
		00750	* CHARACTER 003	-
		00760	* BEAST #3	
4724	FF	00770	CHR003	FCB \$FF
4725	FF	00780		FCB \$FF
4726	C3	00790		FCB \$C3
4727	CB	00800		FCB \$CB
4728	C7	00810		FCB \$C7
4729	CF	00820		FCB \$CF
472A	C3	00830		FCB \$C3
472B	CF	00840		FCB \$CF
472C	D7	00850		FCB \$D7
472D	FF	00860		FCB \$FF
472E	FF	00870		FCB \$FF
472F	FF	00880		FCB \$FF
		00890		
		00900	* CHARACTER 004	-
		00910	* BEAST #4	

4730	FF	00920	CHR004	FCB	\$FF
4731	FF	00930		FCB	\$FF
4732	83	00940		FCB	\$83
4733	AB	00950		FCB	\$AB
4734	AB	00960		FCB	\$AB
4735	EF	00970		FCB	\$EF
4736	EF	00980		FCB	\$EF
4737	D7	00990		FCB	\$D7
4738	BB	01000		FCB	\$BB
4739	FF	01010		FCB	\$FF
473A	FF	01020		FCB	\$FF
473B	FF	01030		FCB	\$FF
		01040			
		01050	* CHARACTER 005	-	
		01060	* BEAST #5		
473C	FF	01070	CHR005	FCB	\$FF
473D	FF	01080		FCB	\$FF
473E	C7	01090		FCB	\$C7
473F	C7	01100		FCB	\$C7
4740	C7	01110		FCB	\$C7
4741	EF	01120		FCB	\$EF
4742	83	01130		FCB	\$83
4743	EF	01140		FCB	\$EF
4744	D7	01150		FCB	\$D7
4745	FF	01160		FCB	\$FF
4746	FF	01170		FCB	\$FF
4747	FF	01180		FCB	\$FF
		01190			
		01200	* CHARACTER 006	-	
		01210	* BEAST #6		
4748	FF	01220	CHR006	FCB	\$FF
4749	FF	01230		FCB	\$FF
474A	FF	01240		FCB	\$FF
474B	83	01250		FCB	\$83
474C	AB	01260		FCB	\$AB
474D	93	01270		FCB	\$93
474E	83	01280		FCB	\$83
474F	C7	01290		FCB	\$C7
4750	BB	01300		FCB	\$BB
4751	FF	01310		FCB	\$FF
4752	FF	01320		FCB	\$FF
4753	FF	01330		FCB	\$FF
		01340			
		01350	* CHARACTER 007	-	
		01360	* BEAST #7		
4754	FF	01370	CHR007	FCB	\$FF
4755	FF	01380		FCB	\$FF

4756	CF	01390	FCB	\$CF
4757	CF	01400	FCB	\$CF
4758	DF	01410	FCB	\$DF
4759	C3	01420	FCB	\$C3
475A	DF	01430	FCB	\$DF
475B	CF	01440	FCB	\$CF
475C	D7	01450	FCB	\$D7
475D	FF	01460	FCB	\$FF
475E	FF	01470	FCB	\$FF
475F	FF	01480	FCB	\$FF
		01490		
		01500	* CHARACTER 008	-
		01510	* BEAST #8	
4760	FF	01520	CHR008 FCB	\$FF
4761	FF	01530	FCB	\$FF
4762	F3	01540	FCB	\$F3
4763	F3	01550	FCB	\$F3
4764	FB	01560	FCB	\$FB
4765	C3	01570	FCB	\$C3
4766	FB	01580	FCB	\$FB
4767	F3	01590	FCB	\$F3
4768	EB	01600	FCB	\$EB
4769	FF	01610	FCB	\$FF
476A	FF	01620	FCB	\$FF
476B	FF	01630	FCB	\$FF
		01640		
		01650	* CHARACTER 009	-
		01660	* BEAST #9	
476C	FF	01670	CHR009 FCB	\$FF
476D	FF	01680	FCB	\$FF
476E	BB	01690	FCB	\$BB
476F	D7	01700	FCB	\$D7
4770	BB	01710	FCB	\$BB
4771	D7	01720	FCB	\$D7
4772	C7	01730	FCB	\$C7
4773	83	01740	FCB	\$83
4774	AB	01750	FCB	\$AB
4775	83	01760	FCB	\$83
4776	FF	01770	FCB	\$FF
4777	FF	01780	FCB	\$FF
		01790		
		01800	* CHARACTER 010	-
		01810	* BEAST #10	
4778	FF	01820	CHR010 FCB	\$FF
4779	FF	01830	FCB	\$FF
477A	83	01840	FCB	\$83
477B	AB	01850	FCB	\$AB

477C	83	01860	FCB	\$83
477D	C7	01870	FCB	\$C7
477E	D7	01880	FCB	\$D7
477F	BB	01890	FCB	\$BB
4780	D7	01900	FCB	\$D7
4781	BB	01910	FCB	\$BB
4782	FF	01920	FCB	\$FF
4783	FF	01930	FCB	\$FF
		01940		
		01950	* CHARACTER 011	-
		01960	* BEAST #11	
4784	FF	01970	CHR011	FCB \$FF
4785	FF	01980		FCB \$FF
4786	A3	01990		FCB \$A3
4787	C3	02000		FCB \$C3
4788	AB	02010		FCB \$AB
4789	C3	02020		FCB \$C3
478A	AB	02030		FCB \$AB
478B	C3	02040		FCB \$C3
478C	A3	02050		FCB \$A3
478D	FF	02060		FCB \$FF
478E	FF	02070		FCB \$FF
478F	FF	02080		FCB \$FF
		02090		
		02100	* CHARACTER 012	-
		02110	* BEAST #12	
4790	FF	02120	CHR012	FCB \$FF
4791	FF	02130		FCB \$FF
4792	8B	02140		FCB \$8B
4793	87	02150		FCB \$87
4794	AB	02160		FCB \$AB
4795	87	02170		FCB \$87
4796	AB	02180		FCB \$AB
4797	87	02190		FCB \$87
4798	8B	02200		FCB \$8B
4799	FF	02210		FCB \$FF
479A	FF	02220		FCB \$FF
479B	FF	02230		FCB \$FF
		02240		
		02250	* CHARACTER 013	-
		02260	* BEAST #13	
479C	FF	02270	CHR013	FCB \$FF
479D	EF	02280		FCB \$EF
479E	D7	02290		FCB \$D7
479F	83	02300		FCB \$83
47A0	C7	02310		FCB \$C7
47A1	AB	02320		FCB \$AB

47A2	EF	02330	FCB	\$EF
47A3	D7	02340	FCB	\$D7
47A4	BB	02350	FCB	\$BB
47A5	FF	02360	FCB	\$FF
47A6	FF	02370	FCB	\$FF
47A7	FF	02380	FCB	\$FF
		02390		
		02400	* CHARACTER 014	-
		02410	* BEAST #14	
47A8	FF	02420	CHR014 FCB	\$FF
47A9	FF	02430	FCB	\$FF
47AA	DF	02440	FCB	\$DF
47AB	A7	02450	FCB	\$A7
47AC	F3	02460	FCB	\$F3
47AD	83	02470	FCB	\$83
47AE	F3	02480	FCB	\$F3
47AF	A7	02490	FCB	\$A7
47B0	DF	02500	FCB	\$DF
47B1	FF	02510	FCB	\$FF
47B2	FF	02520	FCB	\$FF
47B3	FF	02530	FCB	\$FF
		02540		
		02550	* CHARACTER 015	-
		02560	* BEAST #15	
47B4	FF	02570	CHR015 FCB	\$FF
47B5	FF	02580	FCB	\$FF
47B6	FB	02590	FCB	\$FB
47B7	E5	02600	FCB	\$E5
47B8	CF	02610	FCB	\$CF
47B9	C1	02620	FCB	\$C1
47BA	CF	02630	FCB	\$CF
47BB	E5	02640	FCB	\$E5
47BC	FB	02650	FCB	\$FB
47BD	FF	02660	FCB	\$FF
47BE	FF	02670	FCB	\$FF
47BF	FF	02680	FCB	\$FF
		02690		
		02700	* CHARACTER 016	-
		02710	* BEAST #1	
		02720	* BUT HIDDEN FROM VIEW	
47C0	FF	02730	CHR016 FCB	\$FF
47C1	FF	02740	FCB	\$FF
47C2	FF	02750	FCB	\$FF
47C3	FF	02760	FCB	\$FF
47C4	FF	02770	FCB	\$FF
47C5	FF	02780	FCB	\$FF
47C6	FF	02790	FCB	\$FF

47C7	FF	02800	FCB	\$FF
47C8	FF	02810	FCB	\$FF
47C9	FF	02820	FCB	\$FF
47CA	FF	02830	FCB	\$FF
47CB	FF	02840	FCB	\$FF
		02850		
		02860	* CHARACTER 017 -	
		02870	* BEAST #2	
		02880	* BUT HIDDEN FROM VIEW	
47CC	FF	02890	CHR017 FCB	\$FF
47CD	FF	02900	FCB	\$FF
47CE	FF	02910	FCB	\$FF
47CF	FF	02920	FCB	\$FF
47D0	FF	02930	FCB	\$FF
47D1	FF	02940	FCB	\$FF
47D2	FF	02950	FCB	\$FF
47D3	FF	02960	FCB	\$FF
47D4	FF	02970	FCB	\$FF
47D5	FF	02980	FCB	\$FF
47D6	FF	02990	FCB	\$FF
47D7	FF	03000	FCB	\$FF
		03010		
		03020	* CHARACTER 018 -	
		03030	* BEAST #3	
		03040	* BUT HIDDEN FROM VIEW	
47D8	FF	03050	CHR018 FCB	\$FF
47D9	FF	03060	FCB	\$FF
47DA	FF	03070	FCB	\$FF
47DB	FF	03080	FCB	\$FF
47DC	FF	03090	FCB	\$FF
47DD	FF	03100	FCB	\$FF
47DE	FF	03110	FCB	\$FF
47DF	FF	03120	FCB	\$FF
47E0	FF	03130	FCB	\$FF
47E1	FF	03140	FCB	\$FF
47E2	FF	03150	FCB	\$FF
47E3	FF	03160	FCB	\$FF
		03170		
		03180	* CHARACTER 019 -	
		03190	* BEAST #4	
		03200	* BUT HIDDEN FROM VIEW	
47E4	FF	03210	CHR019 FCB	\$FF
47E5	FF	03220	FCB	\$FF
47E6	FF	03230	FCB	\$FF
47E7	FF	03240	FCB	\$FF
47E8	FF	03250	FCB	\$FF
47E9	FF	03260	FCB	\$FF

47EA	FF	03270	FCB	\$FF
47EB	FF	03280	FCB	\$FF
47EC	FF	03290	FCB	\$FF
47ED	FF	03300	FCB	\$FF
47EE	FF	03310	FCB	\$FF
47EF	FF	03320	FCB	\$FF
		03330		
		03340	* CHARACTER 020 -	
		03350	* BEAST #5	
		03360	* BUT HIDDEN FROM VIEW	
47F0	FF	03370	CHR020 FCB	\$FF
47F1	FF	03380	FCB	\$FF
47F2	FF	03390	FCB	\$FF
47F3	FF	03400	FCB	\$FF
47F4	FF	03410	FCB	\$FF
47F5	FF	03420	FCB	\$FF
47F6	FF	03430	FCB	\$FF
47F7	FF	03440	FCB	\$FF
47F8	FF	03450	FCB	\$FF
47F9	FF	03460	FCB	\$FF
47FA	FF	03470	FCB	\$FF
47FB	FF	03480	FCB	\$FF
		03490		
		03500	* CHARACTER 021 -	
		03510	* BEAST #6	
		03520	* BUT HIDDEN FROM VIEW	
47FC	FF	03530	CHR021 FCB	\$FF
47FD	FF	03540	FCB	\$FF
47FE	FF	03550	FCB	\$FF
47FF	FF	03560	FCB	\$FF
4800	FF	03570	FCB	\$FF
4801	FF	03580	FCB	\$FF
4802	FF	03590	FCB	\$FF
4803	FF	03600	FCB	\$FF
4804	FF	03610	FCB	\$FF
4805	FF	03620	FCB	\$FF
4806	FF	03630	FCB	\$FF
4807	FF	03640	FCB	\$FF
		03650		
		03660	* CHARACTER 022 -	
		03670	* BEAST #7	
		03680	* BUT HIDDEN FROM VIEW	
4808	FF	03690	CHR022 FCB	\$FF
4809	FF	03700	FCB	\$FF
480A	FF	03710	FCB	\$FF
480B	FF	03720	FCB	\$FF
480C	FF	03730	FCB	\$FF

480D	FF	03740	FCB	\$FF
480E	FF	03750	FCB	\$FF
480F	FF	03760	FCB	\$FF
4810	FF	03770	FCB	\$FF
4811	FF	03780	FCB	\$FF
4812	FF	03790	FCB	\$FF
4813	FF	03800	FCB	\$FF
		03810		
		03820	* CHARACTER 023 -	
		03830	* BEAST #8	
		03840	* BUT HIDDEN FROM VIEW	
4814	FF	03850	CHR023 FCB	\$FF
4815	FF	03860	FCB	\$FF
4816	FF	03870	FCB	\$FF
4817	FF	03880	FCB	\$FF
4818	FF	03890	FCB	\$FF
4819	FF	03900	FCB	\$FF
481A	FF	03910	FCB	\$FF
481B	FF	03920	FCB	\$FF
481C	FF	03930	FCB	\$FF
481D	FF	03940	FCB	\$FF
481E	FF	03950	FCB	\$FF
481F	FF	03960	FCB	\$FF
		03970		
		03980	* CHARACTER 024 -	
		03990	* BEAST #9	
		04000	* BUT HIDDEN FROM VIEW	
4820	FF	04010	CHR024 FCB	\$FF
4821	FF	04020	FCB	\$FF
4822	FF	04030	FCB	\$FF
4823	FF	04040	FCB	\$FF
4824	FF	04050	FCB	\$FF
4825	FF	04060	FCB	\$FF
4826	FF	04070	FCB	\$FF
4827	FF	04080	FCB	\$FF
4828	FF	04090	FCB	\$FF
4829	FF	04100	FCB	\$FF
482A	FF	04110	FCB	\$FF
482B	FF	04120	FCB	\$FF
		04130		
		04140	* CHARACTER 025 -	
		04150	* BEAST #10	
		04160	* BUT HIDDEN FROM VIEW	
482C	FF	04170	CHR025 FCB	\$FF
482D	FF	04180	FCB	\$FF
482E	FF	04190	FCB	\$FF
482F	FF	04200	FCB	\$FF

4830	FF	04210	FCB	\$FF
4831	FF	04220	FCB	\$FF
4832	FF	04230	FCB	\$FF
4833	FF	04240	FCB	\$FF
4834	FF	04250	FCB	\$FF
4835	FF	04260	FCB	\$FF
4836	FF	04270	FCB	\$FF
4837	FF	04280	FCB	\$FF
		04290		
		04300	* CHARACTER 026 -	
		04310	* BEAST #11	
		04320	* BUT HIDDEN FROM VIEW	
4838	FF	04330	CHR026 FCB	\$FF
4839	FF	04340	FCB	\$FF
483A	FF	04350	FCB	\$FF
483B	FF	04360	FCB	\$FF
483C	FF	04370	FCB	\$FF
483D	FF	04380	FCB	\$FF
483E	FF	04390	FCB	\$FF
483F	FF	04400	FCB	\$FF
4840	FF	04410	FCB	\$FF
4841	FF	04420	FCB	\$FF
4842	FF	04430	FCB	\$FF
4843	FF	04440	FCB	\$FF
		04450		
		04460	* CHARACTER 027 -	
		04470	* BEAST #12	
		04480	* BUT HIDDEN FROM VIEW	
4844	FF	04490	CHR027 FCB	\$FF
4845	FF	04500	FCB	\$FF
4846	FF	04510	FCB	\$FF
4847	FF	04520	FCB	\$FF
4848	FF	04530	FCB	\$FF
4849	FF	04540	FCB	\$FF
484A	FF	04550	FCB	\$FF
484B	FF	04560	FCB	\$FF
484C	FF	04570	FCB	\$FF
484D	FF	04580	FCB	\$FF
484E	FF	04590	FCB	\$FF
484F	FF	04600	FCB	\$FF
		04610		
		04620	* CHARACTER 028 -	
		04630	* BEAST #13	
		04640	* BUT HIDDEN FROM VIEW	
4850	FF	04650	CHR028 FCB	\$FF
4851	FF	04660	FCB	\$FF
4852	FF	04670	FCB	\$FF

4853	FF	04680	FCB	\$FF
4854	FF	04690	FCB	\$FF
4855	FF	04700	FCB	\$FF
4856	FF	04710	FCB	\$FF
4857	FF	04720	FCB	\$FF
4858	FF	04730	FCB	\$FF
4859	FF	04740	FCB	\$FF
485A	FF	04750	FCB	\$FF
485B	FF	04760	FCB	\$FF
		04770		
		04780	* CHARACTER 029 -	
		04790	* BEAST #14	
		04800	* BUT HIDDEN FROM VIEW	
485C	FF	04810	CHR029 FCB	\$FF
485D	FF	04820	FCB	\$FF
485E	FF	04830	FCB	\$FF
485F	FF	04840	FCB	\$FF
4860	FF	04850	FCB	\$FF
4861	FF	04860	FCB	\$FF
4862	FF	04870	FCB	\$FF
4863	FF	04880	FCB	\$FF
4864	FF	04890	FCB	\$FF
4865	FF	04900	FCB	\$FF
4866	FF	04910	FCB	\$FF
4867	FF	04920	FCB	\$FF
		04930		
		04940	* CHARACTER 030 -	
		04950	* BEAST #15	
		04960	* BUT HIDDEN FROM VIEW	
4868	FF	04970	CHR030 FCB	\$FF
4869	FF	04980	FCB	\$FF
486A	FF	04990	FCB	\$FF
486B	FF	05000	FCB	\$FF
486C	FF	05010	FCB	\$FF
486D	FF	05020	FCB	\$FF
486E	FF	05030	FCB	\$FF
486F	FF	05040	FCB	\$FF
4870	FF	05050	FCB	\$FF
4871	FF	05060	FCB	\$FF
4872	FF	05070	FCB	\$FF
4873	FF	05080	FCB	\$FF
		05090		
		05100	* CHARACTER 031 - VORTEX	
4874	FF	05110	CHR031 FCB	\$FF
4875	81	05120	FCB	\$81
4876	C3	05130	FCB	\$C3
4877	E7	05140	FCB	\$E7

4878	EF	05150	FCB	\$EF	
4879	F7	05160	FCB	\$F7	
487A	EF	05170	FCB	\$EF	
487B	DF	05180	FCB	\$DF	
487C	EF	05190	FCB	\$EF	
487D	F7	05200	FCB	\$F7	
487E	EF	05210	FCB	\$EF	
487F	FF	05220	ENDCHK	FCB	\$FF
	0000	05230	END		

For testing, see the Fake Text Testing Chapter below.

=====

Fake Text Character Set Character Encoding Characters 032-063

```

00100 *****
00110 *
00120 * CHR3216B.ASM
00130 * MDJ 2023/03/31
00140 *
00150 * THE FAKETEXT 32 X 16
00160 * CHARACTER SET FOR
00170 * PMODE 4
00180 *
00190 * EACH OF THE 255
00200 * CHARACTERS IS 8 BITS
00210 * (I.E. ONE BYTE) WIDE
00220 * AND TWELVE BYTES HIGH
00230 *
00240 * THIS FILE = CHARACTERS
00250 * CHR032 THROUGH CHR063
00260 *
00270 *****
00280
4880          00290          ORG          $4880
00300
00310 * CHARACTER 032 - SPACE
4880          FF          00320 CHR032  FCB          $FF
4881          FF          00330          FCB          $FF
4882          FF          00340          FCB          $FF
4883          FF          00350          FCB          $FF
4884          FF          00360          FCB          $FF
4885          FF          00370          FCB          $FF
4886          FF          00380          FCB          $FF
4887          FF          00390          FCB          $FF
4888          FF          00400          FCB          $FF
4889          FF          00410          FCB          $FF
488A          FF          00420          FCB          $FF
488B          FF          00430          FCB          $FF
00440
00450 * CHARACTER 033 - !
488C          FF          00460 CHR033  FCB          $FF
488D          FF          00470          FCB          $FF

```

488E	EF	00480	FCB	\$EF
488F	EF	00490	FCB	\$EF
4890	EF	00500	FCB	\$EF
4891	EF	00510	FCB	\$EF
4892	EF	00520	FCB	\$EF
4893	FF	00530	FCB	\$FF
4894	EF	00540	FCB	\$EF
4895	FF	00550	FCB	\$FF
4896	FF	00560	FCB	\$FF
4897	FF	00570	FCB	\$FF
		00580		
		00590	* CHARACTER 034 - "	
4898	FF	00600	CHR034 FCB	\$FF
4899	FF	00610	FCB	\$FF
489A	D7	00620	FCB	\$D7
489B	D7	00630	FCB	\$D7
489C	D7	00640	FCB	\$D7
489D	FF	00650	FCB	\$FF
489E	FF	00660	FCB	\$FF
489F	FF	00670	FCB	\$FF
48A0	FF	00680	FCB	\$FF
48A1	FF	00690	FCB	\$FF
48A2	FF	00700	FCB	\$FF
48A3	FF	00710	FCB	\$FF
		00720		
		00730	* CHARACTER 035 - #	
48A4	FF	00740	CHR035 FCB	\$FF
48A5	FF	00750	FCB	\$FF
48A6	D7	00760	FCB	\$D7
48A7	D7	00770	FCB	\$D7
48A8	83	00780	FCB	\$83
48A9	D7	00790	FCB	\$D7
48AA	83	00800	FCB	\$83
48AB	D7	00810	FCB	\$D7
48AC	D7	00820	FCB	\$D7
48AD	FF	00830	FCB	\$FF
48AE	FF	00840	FCB	\$FF
48AF	FF	00850	FCB	\$FF
		00860		
		00870	* CHARACTER 036 - \$	
48B0	FF	00880	CHR036 FCB	\$FF
48B1	FF	00890	FCB	\$FF
48B2	EF	00900	FCB	\$EF
48B3	C3	00910	FCB	\$C3
48B4	AF	00920	FCB	\$AF
48B5	C7	00930	FCB	\$C7
48B6	EB	00940	FCB	\$EB

48B7	87	00950	FCB	\$87
48B8	EF	00960	FCB	\$EF
48B9	FF	00970	FCB	\$FF
48BA	FF	00980	FCB	\$FF
48BB	FF	00990	FCB	\$FF
		01000		
		01010	* CHARACTER 037 - %	
48BC	FF	01020	CHR037 FCB	\$FF
48BD	FF	01030	FCB	\$FF
48BE	9F	01040	FCB	\$9F
48BF	9B	01050	FCB	\$9B
48C0	F7	01060	FCB	\$F7
48C1	EF	01070	FCB	\$EF
48C2	DF	01080	FCB	\$DF
48C3	B3	01090	FCB	\$B3
48C4	F3	01100	FCB	\$F3
48C5	FF	01110	FCB	\$FF
48C6	FF	01120	FCB	\$FF
48C7	FF	01130	FCB	\$FF
		01140		
		01150	* CHARACTER 038 - &	
48C8	FF	01160	CHR038 FCB	\$FF
48C9	FF	01170	FCB	\$FF
48CA	DF	01180	FCB	\$DF
48CB	AF	01190	FCB	\$AF
48CC	AF	01200	FCB	\$AF
48CD	DF	01210	FCB	\$DF
48CE	AB	01220	FCB	\$AB
48CF	B7	01230	FCB	\$B7
48D0	CB	01240	FCB	\$CB
48D1	FF	01250	FCB	\$FF
48D2	FF	01260	FCB	\$FF
48D3	FF	01270	FCB	\$FF
		01280		
		01290	* CHARACTER 039 - '	
48D4	FF	01300	CHR039 FCB	\$FF
48D5	FF	01310	FCB	\$FF
48D6	EF	01320	FCB	\$EF
48D7	EF	01330	FCB	\$EF
48D8	DF	01340	FCB	\$DF
48D9	FF	01350	FCB	\$FF
48DA	FF	01360	FCB	\$FF
48DB	FF	01370	FCB	\$FF
48DC	FF	01380	FCB	\$FF
48DD	FF	01390	FCB	\$FF
48DE	FF	01400	FCB	\$FF
48DF	FF	01410	FCB	\$FF

		01420		
		01430	* CHARACTER 040 - (
48E0	FF	01440	CHR040 FCB	\$FF
48E1	FF	01450	FCB	\$FF
48E2	F7	01460	FCB	\$F7
48E3	EF	01470	FCB	\$EF
48E4	DF	01480	FCB	\$DF
48E5	DF	01490	FCB	\$DF
48E6	DF	01500	FCB	\$DF
48E7	EF	01510	FCB	\$EF
48E8	F7	01520	FCB	\$F7
48E9	FF	01530	FCB	\$FF
48EA	FF	01540	FCB	\$FF
48EB	FF	01550	FCB	\$FF
		01560		
		01570	* CHARACTER 041 -)	
48EC	FF	01580	CHR041 FCB	\$FF
48ED	FF	01590	FCB	\$FF
48EE	DF	01600	FCB	\$DF
48EF	EF	01610	FCB	\$EF
48F0	F7	01620	FCB	\$F7
48F1	F7	01630	FCB	\$F7
48F2	F7	01640	FCB	\$F7
48F3	EF	01650	FCB	\$EF
48F4	DF	01660	FCB	\$DF
48F5	FF	01670	FCB	\$FF
48F6	FF	01680	FCB	\$FF
48F7	FF	01690	FCB	\$FF
		01700		
		01710	* CHARACTER 042 - *	
48F8	FF	01720	CHR042 FCB	\$FF
48F9	FF	01730	FCB	\$FF
48FA	FF	01740	FCB	\$FF
48FB	EF	01750	FCB	\$EF
48FC	AB	01760	FCB	\$AB
48FD	C7	01770	FCB	\$C7
48FE	C7	01780	FCB	\$C7
48FF	AB	01790	FCB	\$AB
4900	EF	01800	FCB	\$EF
4901	FF	01810	FCB	\$FF
4902	FF	01820	FCB	\$FF
4903	FF	01830	FCB	\$FF
		01840		
		01850	* CHARACTER 043 - +	
4904	FF	01860	CHR043 FCB	\$FF
4905	FF	01870	FCB	\$FF
4906	FF	01880	FCB	\$FF

4907	EF	01890	FCB	\$EF
4908	EF	01900	FCB	\$EF
4909	83	01910	FCB	\$83
490A	EF	01920	FCB	\$EF
490B	EF	01930	FCB	\$EF
490C	FF	01940	FCB	\$FF
490D	FF	01950	FCB	\$FF
490E	FF	01960	FCB	\$FF
490F	FF	01970	FCB	\$FF
		01980		
		01990	* CHARACTER 044 - ,	
4910	FF	02000	CHR044 FCB	\$FF
4911	FF	02010	FCB	\$FF
4912	FF	02020	FCB	\$FF
4913	FF	02030	FCB	\$FF
4914	FF	02040	FCB	\$FF
4915	FF	02050	FCB	\$FF
4916	FF	02060	FCB	\$FF
4917	DF	02070	FCB	\$DF
4918	DF	02080	FCB	\$DF
4919	BF	02090	FCB	\$BF
491A	FF	02100	FCB	\$FF
491B	FF	02110	FCB	\$FF
		02120		
		02130	* CHARACTER 045 - -	
491C	FF	02140	CHR045 FCB	\$FF
491D	FF	02150	FCB	\$FF
491E	FF	02160	FCB	\$FF
491F	FF	02170	FCB	\$FF
4920	FF	02180	FCB	\$FF
4921	83	02190	FCB	\$83
4922	FF	02200	FCB	\$FF
4923	FF	02210	FCB	\$FF
4924	FF	02220	FCB	\$FF
4925	FF	02230	FCB	\$FF
4926	FF	02240	FCB	\$FF
4927	FF	02250	FCB	\$FF
		02260		
		02270	* CHARACTER 046 - .	
4928	FF	02280	CHR046 FCB	\$FF
4929	FF	02290	FCB	\$FF
492A	FF	02300	FCB	\$FF
492B	FF	02310	FCB	\$FF
492C	FF	02320	FCB	\$FF
492D	FF	02330	FCB	\$FF
492E	FF	02340	FCB	\$FF
492F	FF	02350	FCB	\$FF

4930	EF	02360	FCB	\$EF
4931	FF	02370	FCB	\$FF
4932	FF	02380	FCB	\$FF
4933	FF	02390	FCB	\$FF
		02400		
		02410	* CHARACTER 047 - /	
4934	FF	02420	CHR047 FCB	\$FF
4935	FF	02430	FCB	\$FF
4936	FF	02440	FCB	\$FF
4937	FB	02450	FCB	\$FB
4938	F7	02460	FCB	\$F7
4939	EF	02470	FCB	\$EF
493A	DF	02480	FCB	\$DF
493B	BF	02490	FCB	\$BF
493C	FF	02500	FCB	\$FF
493D	FF	02510	FCB	\$FF
493E	FF	02520	FCB	\$FF
493F	FF	02530	FCB	\$FF
		02540		
		02550	* CHARACTER 048 - 0	
4940	FF	02560	CHR048 FCB	\$FF
4941	FF	02570	FCB	\$FF
4942	C7	02580	FCB	\$C7
4943	BB	02590	FCB	\$BB
4944	B3	02600	FCB	\$B3
4945	AB	02610	FCB	\$AB
4946	9B	02620	FCB	\$9B
4947	BB	02630	FCB	\$BB
4948	C7	02640	FCB	\$C7
4949	FF	02650	FCB	\$FF
494A	FF	02660	FCB	\$FF
494B	FF	02670	FCB	\$FF
		02680		
		02690	* CHARACTER 049 - 1	
494C	FF	02700	CHR049 FCB	\$FF
494D	FF	02710	FCB	\$FF
494E	EF	02720	FCB	\$EF
494F	CF	02730	FCB	\$CF
4950	EF	02740	FCB	\$EF
4951	EF	02750	FCB	\$EF
4952	EF	02760	FCB	\$EF
4953	EF	02770	FCB	\$EF
4954	C7	02780	FCB	\$C7
4955	FF	02790	FCB	\$FF
4956	FF	02800	FCB	\$FF
4957	FF	02810	FCB	\$FF
		02820		

		02830	* CHARACTER 050	- 2
4958	FF	02840	CHR050 FCB	\$FF
4959	FF	02850	FCB	\$FF
495A	C7	02860	FCB	\$C7
495B	BB	02870	FCB	\$BB
495C	FB	02880	FCB	\$FB
495D	C7	02890	FCB	\$C7
495E	BF	02900	FCB	\$BF
495F	BF	02910	FCB	\$BF
4960	83	02920	FCB	\$83
4961	FF	02930	FCB	\$FF
4962	FF	02940	FCB	\$FF
4963	FF	02950	FCB	\$FF
		02960		
		02970	* CHARACTER 051	- 3
4964	FF	02980	CHR051 FCB	\$FF
4965	FF	02990	FCB	\$FF
4966	C7	03000	FCB	\$C7
4967	BB	03010	FCB	\$BB
4968	FB	03020	FCB	\$FB
4969	F7	03030	FCB	\$F7
496A	FB	03040	FCB	\$FB
496B	BB	03050	FCB	\$BB
496C	C7	03060	FCB	\$C7
496D	FF	03070	FCB	\$FF
496E	FF	03080	FCB	\$FF
496F	FF	03090	FCB	\$FF
		03100		
		03110	* CHARACTER 052	- 4
4970	FF	03120	CHR052 FCB	\$FF
4971	FF	03130	FCB	\$FF
4972	F7	03140	FCB	\$F7
4973	E7	03150	FCB	\$E7
4974	D7	03160	FCB	\$D7
4975	B7	03170	FCB	\$B7
4976	83	03180	FCB	\$83
4977	F7	03190	FCB	\$F7
4978	F7	03200	FCB	\$F7
4979	FF	03210	FCB	\$FF
497A	FF	03220	FCB	\$FF
497B	FF	03230	FCB	\$FF
		03240		
		03250	* CHARACTER 053	- 5
497C	FF	03260	CHR053 FCB	\$FF
497D	FF	03270	FCB	\$FF
497E	83	03280	FCB	\$83
497F	BF	03290	FCB	\$BF

4980	87	03300	FCB	\$87
4981	FB	03310	FCB	\$FB
4982	FB	03320	FCB	\$FB
4983	BB	03330	FCB	\$BB
4984	C7	03340	FCB	\$C7
4985	FF	03350	FCB	\$FF
4986	FF	03360	FCB	\$FF
4987	FF	03370	FCB	\$FF
		03380		
		03390	* CHARACTER 054	- 6
4988	FF	03400	CHR054 FCB	\$FF
4989	FF	03410	FCB	\$FF
498A	C7	03420	FCB	\$C7
498B	BF	03430	FCB	\$BF
498C	BF	03440	FCB	\$BF
498D	87	03450	FCB	\$87
498E	BB	03460	FCB	\$BB
498F	BB	03470	FCB	\$BB
4990	C7	03480	FCB	\$C7
4991	FF	03490	FCB	\$FF
4992	FF	03500	FCB	\$FF
4993	FF	03510	FCB	\$FF
		03520		
		03530	* CHARACTER 055	- 7
4994	FF	03540	CHR055 FCB	\$FF
4995	FF	03550	FCB	\$FF
4996	83	03560	FCB	\$83
4997	FB	03570	FCB	\$FB
4998	F7	03580	FCB	\$F7
4999	EF	03590	FCB	\$EF
499A	DF	03600	FCB	\$DF
499B	BF	03610	FCB	\$BF
499C	BF	03620	FCB	\$BF
499D	FF	03630	FCB	\$FF
499E	FF	03640	FCB	\$FF
499F	FF	03650	FCB	\$FF
		03660		
		03670	* CHARACTER 056	- 8
49A0	FF	03680	CHR056 FCB	\$FF
49A1	FF	03690	FCB	\$FF
49A2	C7	03700	FCB	\$C7
49A3	BB	03710	FCB	\$BB
49A4	BB	03720	FCB	\$BB
49A5	C7	03730	FCB	\$C7
49A6	BB	03740	FCB	\$BB
49A7	BB	03750	FCB	\$BB
49A8	C7	03760	FCB	\$C7

49A9	FF	03770	FCB	\$FF
49AA	FF	03780	FCB	\$FF
49AB	FF	03790	FCB	\$FF
		03800		
		03810	* CHARACTER 057	- 9
49AC	FF	03820	CHR057 FCB	\$FF
49AD	FF	03830	FCB	\$FF
49AE	C7	03840	FCB	\$C7
49AF	BB	03850	FCB	\$BB
49B0	BB	03860	FCB	\$BB
49B1	C3	03870	FCB	\$C3
49B2	FB	03880	FCB	\$FB
49B3	FB	03890	FCB	\$FB
49B4	C7	03900	FCB	\$C7
49B5	FF	03910	FCB	\$FF
49B6	FF	03920	FCB	\$FF
49B7	FF	03930	FCB	\$FF
		03940		
		03950	* CHARACTER 058	- :
49B8	FF	03960	CHR058 FCB	\$FF
49B9	FF	03970	FCB	\$FF
49BA	FF	03980	FCB	\$FF
49BB	FF	03990	FCB	\$FF
49BC	EF	04000	FCB	\$EF
49BD	FF	04010	FCB	\$FF
49BE	FF	04020	FCB	\$FF
49BF	EF	04030	FCB	\$EF
49C0	FF	04040	FCB	\$FF
49C1	FF	04050	FCB	\$FF
49C2	FF	04060	FCB	\$FF
49C3	FF	04070	FCB	\$FF
		04080		
		04090	* CHARACTER 059	- ;
49C4	FF	04100	CHR059 FCB	\$FF
49C5	FF	04110	FCB	\$FF
49C6	FF	04120	FCB	\$FF
49C7	FF	04130	FCB	\$FF
49C8	EF	04140	FCB	\$EF
49C9	FF	04150	FCB	\$FF
49CA	FF	04160	FCB	\$FF
49CB	EF	04170	FCB	\$EF
49CC	EF	04180	FCB	\$EF
49CD	DF	04190	FCB	\$DF
49CE	FF	04200	FCB	\$FF
49CF	FF	04210	FCB	\$FF
		04220		
		04230	* CHARACTER 060	- <

49D0	FF	04240	CHR060	FCB	\$FF
49D1	FF	04250		FCB	\$FF
49D2	F7	04260		FCB	\$F7
49D3	EF	04270		FCB	\$EF
49D4	DF	04280		FCB	\$DF
49D5	BF	04290		FCB	\$BF
49D6	DF	04300		FCB	\$DF
49D7	EF	04310		FCB	\$EF
49D8	F7	04320		FCB	\$F7
49D9	FF	04330		FCB	\$FF
49DA	FF	04340		FCB	\$FF
49DB	FF	04350		FCB	\$FF
		04360			
		04370	* CHARACTER 061	- =	
49DC	FF	04380	CHR061	FCB	\$FF
49DD	FF	04390		FCB	\$FF
49DE	FF	04400		FCB	\$FF
49DF	FF	04410		FCB	\$FF
49E0	83	04420		FCB	\$83
49E1	FF	04430		FCB	\$FF
49E2	83	04440		FCB	\$83
49E3	FF	04450		FCB	\$FF
49E4	FF	04460		FCB	\$FF
49E5	FF	04470		FCB	\$FF
49E6	FF	04480		FCB	\$FF
49E7	FF	04490		FCB	\$FF
		04500			
		04510	* CHARACTER 062	- >	
49E8	FF	04520	CHR062	FCB	\$FF
49E9	FF	04530		FCB	\$FF
49EA	DF	04540		FCB	\$DF
49EB	EF	04550		FCB	\$EF
49EC	F7	04560		FCB	\$F7
49ED	FB	04570		FCB	\$FB
49EE	F7	04580		FCB	\$F7
49EF	EF	04590		FCB	\$EF
49F0	DF	04600		FCB	\$DF
49F1	FF	04610		FCB	\$FF
49F2	FF	04620		FCB	\$FF
49F3	FF	04630		FCB	\$FF
		04640			
		04650	* CHARACTER 063	- ?	
49F4	FF	04660	CHR063	FCB	\$FF
49F5	FF	04670		FCB	\$FF
49F6	C7	04680		FCB	\$C7
49F7	BB	04690		FCB	\$BB
49F8	FB	04700		FCB	\$FB

49F9	F7	04710	FCB	\$F7	
49FA	EF	04720	FCB	\$EF	
49FB	FF	04730	FCB	\$FF	
49FC	EF	04740	FCB	\$EF	
49FD	FF	04750	FCB	\$FF	
49FE	FF	04760	FCB	\$FF	
49FF	FF	04770	ENDCHK	FCB	\$FF
	0000	04780	END		

For testing, see the Fake Text Testing Chapter below.

=====

Fake Text Character Set Character Encoding Characters 064-095

```

00100 *****
00110 *
00120 * CHR3216C.ASM
00130 * MDJ 2023/03/31
00140 *
00150 * THE FAKETEXT 32 X 16
00160 * CHARACTER SET FOR
00170 * PMODE 4
00180 *
00190 * EACH OF THE 255
00200 * CHARACTERS IS 8 BITS
00210 * (I.E. ONE BYTE) WIDE
00220 * AND TWELVE BYTES HIGH
00230 *
00240 * THIS FILE = CHARACTERS
00250 * CHR064 THROUGH CHR095
00260 *
00270 *****
00280
4A00          00290          ORG          $4A00
00300
00310 * CHARACTER 064 - @
4A00          FF          00320 CHR064  FCB          $FF
4A01          FF          00330          FCB          $FF
4A02          C7          00340          FCB          $C7
4A03          BB          00350          FCB          $BB
4A04          FB          00360          FCB          $FB
4A05          CB          00370          FCB          $CB
4A06          B3          00380          FCB          $B3
4A07          B3          00390          FCB          $B3
4A08          C7          00400          FCB          $C7
4A09          FF          00410          FCB          $FF
4A0A          FF          00420          FCB          $FF
4A0B          FF          00430          FCB          $FF
00440
00450 * CHARACTER 065 - A
4A0C          FF          00460 CHR065  FCB          $FF
4A0D          FF          00470          FCB          $FF

```

4A0E	EF	00480	FCB	\$EF
4A0F	D7	00490	FCB	\$D7
4A10	BB	00500	FCB	\$BB
4A11	BB	00510	FCB	\$BB
4A12	83	00520	FCB	\$83
4A13	BB	00530	FCB	\$BB
4A14	BB	00540	FCB	\$BB
4A15	FF	00550	FCB	\$FF
4A16	FF	00560	FCB	\$FF
4A17	FF	00570	FCB	\$FF
		00580		
		00590	* CHARACTER 066	- B
4A18	FF	00600	CHR066 FCB	\$FF
4A19	FF	00610	FCB	\$FF
4A1A	87	00620	FCB	\$87
4A1B	DB	00630	FCB	\$DB
4A1C	DB	00640	FCB	\$DB
4A1D	C7	00650	FCB	\$C7
4A1E	DB	00660	FCB	\$DB
4A1F	DB	00670	FCB	\$DB
4A20	87	00680	FCB	\$87
4A21	FF	00690	FCB	\$FF
4A22	FF	00700	FCB	\$FF
4A23	FF	00710	FCB	\$FF
		00720		
		00730	* CHARACTER 067	- C
4A24	FF	00740	CHR067 FCB	\$FF
4A25	FF	00750	FCB	\$FF
4A26	C7	00760	FCB	\$C7
4A27	BB	00770	FCB	\$BB
4A28	BF	00780	FCB	\$BF
4A29	BF	00790	FCB	\$BF
4A2A	BF	00800	FCB	\$BF
4A2B	BB	00810	FCB	\$BB
4A2C	C7	00820	FCB	\$C7
4A2D	FF	00830	FCB	\$FF
4A2E	FF	00840	FCB	\$FF
4A2F	FF	00850	FCB	\$FF
		00860		
		00870	* CHARACTER 068	- D
4A30	FF	00880	CHR068 FCB	\$FF
4A31	FF	00890	FCB	\$FF
4A32	87	00900	FCB	\$87
4A33	DB	00910	FCB	\$DB
4A34	DB	00920	FCB	\$DB
4A35	DB	00930	FCB	\$DB
4A36	DB	00940	FCB	\$DB

4A37	DB	00950	FCB	\$DB
4A38	87	00960	FCB	\$87
4A39	FF	00970	FCB	\$FF
4A3A	FF	00980	FCB	\$FF
4A3B	FF	00990	FCB	\$FF
		01000		
		01010	* CHARACTER 069	- E
4A3C	FF	01020	CHR069 FCB	\$FF
4A3D	FF	01030	FCB	\$FF
4A3E	83	01040	FCB	\$83
4A3F	BF	01050	FCB	\$BF
4A40	BF	01060	FCB	\$BF
4A41	8F	01070	FCB	\$8F
4A42	BF	01080	FCB	\$BF
4A43	BF	01090	FCB	\$BF
4A44	83	01100	FCB	\$83
4A45	FF	01110	FCB	\$FF
4A46	FF	01120	FCB	\$FF
4A47	FF	01130	FCB	\$FF
		01140		
		01150	* CHARACTER 070	- F
4A48	FF	01160	CHR070 FCB	\$FF
4A49	FF	01170	FCB	\$FF
4A4A	83	01180	FCB	\$83
4A4B	BF	01190	FCB	\$BF
4A4C	BF	01200	FCB	\$BF
4A4D	8F	01210	FCB	\$8F
4A4E	BF	01220	FCB	\$BF
4A4F	BF	01230	FCB	\$BF
4A50	BF	01240	FCB	\$BF
4A51	FF	01250	FCB	\$FF
4A52	FF	01260	FCB	\$FF
4A53	FF	01270	FCB	\$FF
		01280		
		01290	* CHARACTER 071	- G
4A54	FF	01300	CHR071 FCB	\$FF
4A55	FF	01310	FCB	\$FF
4A56	C7	01320	FCB	\$C7
4A57	BB	01330	FCB	\$BB
4A58	BF	01340	FCB	\$BF
4A59	BF	01350	FCB	\$BF
4A5A	B3	01360	FCB	\$B3
4A5B	BB	01370	FCB	\$BB
4A5C	C7	01380	FCB	\$C7
4A5D	FF	01390	FCB	\$FF
4A5E	FF	01400	FCB	\$FF
4A5F	FF	01410	FCB	\$FF

		01420		
		01430	* CHARACTER 072 - H	
4A60	FF	01440	CHR072 FCB	\$FF
4A61	FF	01450	FCB	\$FF
4A62	BB	01460	FCB	\$BB
4A63	BB	01470	FCB	\$BB
4A64	BB	01480	FCB	\$BB
4A65	83	01490	FCB	\$83
4A66	BB	01500	FCB	\$BB
4A67	BB	01510	FCB	\$BB
4A68	BB	01520	FCB	\$BB
4A69	FF	01530	FCB	\$FF
4A6A	FF	01540	FCB	\$FF
4A6B	FF	01550	FCB	\$FF
		01560		
		01570	* CHARACTER 073 - I	
4A6C	FF	01580	CHR073 FCB	\$FF
4A6D	FF	01590	FCB	\$FF
4A6E	C7	01600	FCB	\$C7
4A6F	EF	01610	FCB	\$EF
4A70	EF	01620	FCB	\$EF
4A71	EF	01630	FCB	\$EF
4A72	EF	01640	FCB	\$EF
4A73	EF	01650	FCB	\$EF
4A74	C7	01660	FCB	\$C7
4A75	FF	01670	FCB	\$FF
4A76	FF	01680	FCB	\$FF
4A77	FF	01690	FCB	\$FF
		01700		
		01710	* CHARACTER 074 - J	
4A78	FF	01720	CHR074 FCB	\$FF
4A79	FF	01730	FCB	\$FF
4A7A	FB	01740	FCB	\$FB
4A7B	FB	01750	FCB	\$FB
4A7C	FB	01760	FCB	\$FB
4A7D	FB	01770	FCB	\$FB
4A7E	FB	01780	FCB	\$FB
4A7F	BB	01790	FCB	\$BB
4A80	C7	01800	FCB	\$C7
4A81	FF	01810	FCB	\$FF
4A82	FF	01820	FCB	\$FF
4A83	FF	01830	FCB	\$FF
		01840		
		01850	* CHARACTER 075 - K	
4A84	FF	01860	CHR075 FCB	\$FF
4A85	FF	01870	FCB	\$FF
4A86	BB	01880	FCB	\$BB

4A87	B7	01890	FCB	\$B7
4A88	AF	01900	FCB	\$AF
4A89	9F	01910	FCB	\$9F
4A8A	AF	01920	FCB	\$AF
4A8B	B7	01930	FCB	\$B7
4A8C	BB	01940	FCB	\$BB
4A8D	FF	01950	FCB	\$FF
4A8E	FF	01960	FCB	\$FF
4A8F	FF	01970	FCB	\$FF
		01980		
		01990	* CHARACTER 076	- L
4A90	FF	02000	CHR076 FCB	\$FF
4A91	FF	02010	FCB	\$FF
4A92	BF	02020	FCB	\$BF
4A93	BF	02030	FCB	\$BF
4A94	BF	02040	FCB	\$BF
4A95	BF	02050	FCB	\$BF
4A96	BF	02060	FCB	\$BF
4A97	BF	02070	FCB	\$BF
4A98	83	02080	FCB	\$83
4A99	FF	02090	FCB	\$FF
4A9A	FF	02100	FCB	\$FF
4A9B	FF	02110	FCB	\$FF
		02120		
		02130	* CHARACTER 077	- M
4A9C	FF	02140	CHR077 FCB	\$FF
4A9D	FF	02150	FCB	\$FF
4A9E	BB	02160	FCB	\$BB
4A9F	93	02170	FCB	\$93
4AA0	AB	02180	FCB	\$AB
4AA1	AB	02190	FCB	\$AB
4AA2	BB	02200	FCB	\$BB
4AA3	BB	02210	FCB	\$BB
4AA4	BB	02220	FCB	\$BB
4AA5	FF	02230	FCB	\$FF
4AA6	FF	02240	FCB	\$FF
4AA7	FF	02250	FCB	\$FF
		02260		
		02270	* CHARACTER 078	- N
4AA8	FF	02280	CHR078 FCB	\$FF
4AA9	FF	02290	FCB	\$FF
4AAA	BB	02300	FCB	\$BB
4AAB	BB	02310	FCB	\$BB
4AAC	9B	02320	FCB	\$9B
4AAD	AB	02330	FCB	\$AB
4AAE	B3	02340	FCB	\$B3
4AAF	BB	02350	FCB	\$BB

4AB0	BB	02360	FCB	\$BB
4AB1	FF	02370	FCB	\$FF
4AB2	FF	02380	FCB	\$FF
4AB3	FF	02390	FCB	\$FF
		02400		
		02410	* CHARACTER 079	- O
4AB4	FF	02420	CHR079 FCB	\$FF
4AB5	FF	02430	FCB	\$FF
4AB6	C7	02440	FCB	\$C7
4AB7	BB	02450	FCB	\$BB
4AB8	BB	02460	FCB	\$BB
4AB9	BB	02470	FCB	\$BB
4ABA	BB	02480	FCB	\$BB
4ABB	BB	02490	FCB	\$BB
4ABC	C7	02500	FCB	\$C7
4ABD	FF	02510	FCB	\$FF
4ABE	FF	02520	FCB	\$FF
4ABF	FF	02530	FCB	\$FF
		02540		
		02550	* CHARACTER 080	- P
4AC0	FF	02560	CHR080 FCB	\$FF
4AC1	FF	02570	FCB	\$FF
4AC2	87	02580	FCB	\$87
4AC3	BB	02590	FCB	\$BB
4AC4	BB	02600	FCB	\$BB
4AC5	87	02610	FCB	\$87
4AC6	BF	02620	FCB	\$BF
4AC7	BF	02630	FCB	\$BF
4AC8	BF	02640	FCB	\$BF
4AC9	FF	02650	FCB	\$FF
4ACA	FF	02660	FCB	\$FF
4ACB	FF	02670	FCB	\$FF
		02680		
		02690	* CHARACTER 081	- Q
4ACC	FF	02700	CHR081 FCB	\$FF
4ACD	FF	02710	FCB	\$FF
4ACE	C7	02720	FCB	\$C7
4ACF	BB	02730	FCB	\$BB
4AD0	BB	02740	FCB	\$BB
4AD1	BB	02750	FCB	\$BB
4AD2	AB	02760	FCB	\$AB
4AD3	B7	02770	FCB	\$B7
4AD4	CB	02780	FCB	\$CB
4AD5	FF	02790	FCB	\$FF
4AD6	FF	02800	FCB	\$FF
4AD7	FF	02810	FCB	\$FF
		02820		

		02830	* CHARACTER 082	- R	
4AD8	FF	02840	CHR082	FCB	\$FF
4AD9	FF	02850		FCB	\$FF
4ADA	87	02860		FCB	\$87
4ADB	BB	02870		FCB	\$BB
4ADC	BB	02880		FCB	\$BB
4ADD	87	02890		FCB	\$87
4ADE	AF	02900		FCB	\$AF
4ADF	B7	02910		FCB	\$B7
4AE0	BB	02920		FCB	\$BB
4AE1	FF	02930		FCB	\$FF
4AE2	FF	02940		FCB	\$FF
4AE3	FF	02950		FCB	\$FF
		02960			
		02970	* CHARACTER 083	- S	
4AE4	FF	02980	CHR083	FCB	\$FF
4AE5	FF	02990		FCB	\$FF
4AE6	C7	03000		FCB	\$C7
4AE7	BB	03010		FCB	\$BB
4AE8	BF	03020		FCB	\$BF
4AE9	C7	03030		FCB	\$C7
4AEA	FB	03040		FCB	\$FB
4AEB	BB	03050		FCB	\$BB
4AEC	C7	03060		FCB	\$C7
4AED	FF	03070		FCB	\$FF
4AEE	FF	03080		FCB	\$FF
4AEF	FF	03090		FCB	\$FF
		03100			
		03110	* CHARACTER 084	- T	
4AF0	FF	03120	CHR084	FCB	\$FF
4AF1	FF	03130		FCB	\$FF
4AF2	83	03140		FCB	\$83
4AF3	EF	03150		FCB	\$EF
4AF4	EF	03160		FCB	\$EF
4AF5	EF	03170		FCB	\$EF
4AF6	EF	03180		FCB	\$EF
4AF7	EF	03190		FCB	\$EF
4AF8	EF	03200		FCB	\$EF
4AF9	FF	03210		FCB	\$FF
4AFA	FF	03220		FCB	\$FF
4AFB	FF	03230		FCB	\$FF
		03240			
		03250	* CHARACTER 085	- U	
4AFC	FF	03260	CHR085	FCB	\$FF
4AFD	FF	03270		FCB	\$FF
4AFE	BB	03280		FCB	\$BB
4AFF	BB	03290		FCB	\$BB

4B00	BB	03300	FCB	\$BB
4B01	BB	03310	FCB	\$BB
4B02	BB	03320	FCB	\$BB
4B03	BB	03330	FCB	\$BB
4B04	C7	03340	FCB	\$C7
4B05	FF	03350	FCB	\$FF
4B06	FF	03360	FCB	\$FF
4B07	FF	03370	FCB	\$FF
		03380		
		03390	* CHARACTER 086 - V	
4B08	FF	03400	CHR086 FCB	\$FF
4B09	FF	03410	FCB	\$FF
4B0A	BB	03420	FCB	\$BB
4B0B	BB	03430	FCB	\$BB
4B0C	BB	03440	FCB	\$BB
4B0D	D7	03450	FCB	\$D7
4B0E	D7	03460	FCB	\$D7
4B0F	EF	03470	FCB	\$EF
4B10	EF	03480	FCB	\$EF
4B11	FF	03490	FCB	\$FF
4B12	FF	03500	FCB	\$FF
4B13	FF	03510	FCB	\$FF
		03520		
		03530	* CHARACTER 087 - W	
4B14	FF	03540	CHR087 FCB	\$FF
4B15	FF	03550	FCB	\$FF
4B16	BB	03560	FCB	\$BB
4B17	BB	03570	FCB	\$BB
4B18	BB	03580	FCB	\$BB
4B19	BB	03590	FCB	\$BB
4B1A	AB	03600	FCB	\$AB
4B1B	93	03610	FCB	\$93
4B1C	BB	03620	FCB	\$BB
4B1D	FF	03630	FCB	\$FF
4B1E	FF	03640	FCB	\$FF
4B1F	FF	03650	FCB	\$FF
		03660		
		03670	* CHARACTER 088 - X	
4B20	FF	03680	CHR088 FCB	\$FF
4B21	FF	03690	FCB	\$FF
4B22	BB	03700	FCB	\$BB
4B23	BB	03710	FCB	\$BB
4B24	D7	03720	FCB	\$D7
4B25	EF	03730	FCB	\$EF
4B26	D7	03740	FCB	\$D7
4B27	BB	03750	FCB	\$BB
4B28	BB	03760	FCB	\$BB

4B29	FF	03770	FCB	\$FF
4B2A	FF	03780	FCB	\$FF
4B2B	FF	03790	FCB	\$FF
		03800		
		03810	* CHARACTER 089	- Y
4B2C	FF	03820	CHR089 FCB	\$FF
4B2D	FF	03830	FCB	\$FF
4B2E	BB	03840	FCB	\$BB
4B2F	BB	03850	FCB	\$BB
4B30	D7	03860	FCB	\$D7
4B31	EF	03870	FCB	\$EF
4B32	EF	03880	FCB	\$EF
4B33	EF	03890	FCB	\$EF
4B34	EF	03900	FCB	\$EF
4B35	FF	03910	FCB	\$FF
4B36	FF	03920	FCB	\$FF
4B37	FF	03930	FCB	\$FF
		03940		
		03950	* CHARACTER 090	- Z
4B38	FF	03960	CHR090 FCB	\$FF
4B39	FF	03970	FCB	\$FF
4B3A	83	03980	FCB	\$83
4B3B	FB	03990	FCB	\$FB
4B3C	F7	04000	FCB	\$F7
4B3D	EF	04010	FCB	\$EF
4B3E	DF	04020	FCB	\$DF
4B3F	BF	04030	FCB	\$BF
4B40	83	04040	FCB	\$83
4B41	FF	04050	FCB	\$FF
4B42	FF	04060	FCB	\$FF
4B43	FF	04070	FCB	\$FF
		04080		
		04090	* CHARACTER 091	- 8
4B44	FF	04100	CHR091 FCB	\$FF
4B45	FF	04110	FCB	\$FF
4B46	C7	04120	FCB	\$C7
4B47	DF	04130	FCB	\$DF
4B48	DF	04140	FCB	\$DF
4B49	DF	04150	FCB	\$DF
4B4A	DF	04160	FCB	\$DF
4B4B	DF	04170	FCB	\$DF
4B4C	C7	04180	FCB	\$C7
4B4D	FF	04190	FCB	\$FF
4B4E	FF	04200	FCB	\$FF
4B4F	FF	04210	FCB	\$FF
		04220		
		04230	* CHARACTER 092	-

4B50	FF	04240	CHR092	FCB	\$FF
4B51	FF	04250		FCB	\$FF
4B52	FF	04260		FCB	\$FF
4B53	BF	04270		FCB	\$BF
4B54	DF	04280		FCB	\$DF
4B55	EF	04290		FCB	\$EF
4B56	F7	04300		FCB	\$F7
4B57	FB	04310		FCB	\$FB
4B58	FF	04320		FCB	\$FF
4B59	FF	04330		FCB	\$FF
4B5A	FF	04340		FCB	\$FF
4B5B	FF	04350		FCB	\$FF
		04360			
		04370	* CHARACTER 093	- 9	
4B5C	FF	04380	CHR093	FCB	\$FF
4B5D	FF	04390		FCB	\$FF
4B5E	C7	04400		FCB	\$C7
4B5F	F7	04410		FCB	\$F7
4B60	F7	04420		FCB	\$F7
4B61	F7	04430		FCB	\$F7
4B62	F7	04440		FCB	\$F7
4B63	F7	04450		FCB	\$F7
4B64	C7	04460		FCB	\$C7
4B65	FF	04470		FCB	\$FF
4B66	FF	04480		FCB	\$FF
4B67	FF	04490		FCB	\$FF
		04500			
		04510	* CHARACTER 094	- UA	
		04520	* = UP ARROW		
4B68	FF	04530	CHR094	FCB	\$FF
4B69	FF	04540		FCB	\$FF
4B6A	EF	04550		FCB	\$EF
4B6B	C7	04560		FCB	\$C7
4B6C	AB	04570		FCB	\$AB
4B6D	EF	04580		FCB	\$EF
4B6E	EF	04590		FCB	\$EF
4B6F	EF	04600		FCB	\$EF
4B70	EF	04610		FCB	\$EF
4B71	FF	04620		FCB	\$FF
4B72	FF	04630		FCB	\$FF
4B73	FF	04640		FCB	\$FF
		04650			
		04660	* CHARACTER 095	- LA	
		04670	* = LEFT ARROW		
4B74	FF	04680	CHR095	FCB	\$FF
4B75	FF	04690		FCB	\$FF
4B76	FF	04700		FCB	\$FF

4B77	EF	04710	FCB	\$EF	
4B78	DF	04720	FCB	\$DF	
4B79	83	04730	FCB	\$83	
4B7A	DF	04740	FCB	\$DF	
4B7B	EF	04750	FCB	\$EF	
4B7C	FF	04760	FCB	\$FF	
4B7D	FF	04770	FCB	\$FF	
4B7E	FF	04780	FCB	\$FF	
4B7F	FF	04790	ENDCHK	FCB	\$FF
	0000	04800	END		

For testing, see the Fake Text Testing Chapter below.

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Fake Text Character Set Character Encoding Characters 096-127

```

00100 *****
00110 *
00120 * CHR3216D.ASM
00130 * MDJ 2023/03/31
00140 *
00150 * THE FAKETEXT 32 X 16
00160 * CHARACTER SET FOR
00170 * PMODE 4
00180 *
00190 * EACH OF THE 255
00200 * CHARACTERS IS 8 BITS
00210 * (I.E. ONE BYTE) WIDE
00220 * AND TWELVE BYTES HIGH
00230 *
00240 * THIS FILE = CHARACTERS
00250 * CHR096 THROUGH CHR127
00260 *
00270 *****
00280
4B80          00290          ORG          $4B80
00300
00310 * CHARACTER 096 - DA
00320 * = DOWN ARROW
4B80          FF          00330 CHR096   FCB          $FF
4B81          FF          00340          FCB          $FF
4B82          EF          00350          FCB          $EF
4B83          EF          00360          FCB          $EF
4B84          EF          00370          FCB          $EF
4B85          EF          00380          FCB          $EF
4B86          AB          00390          FCB          $AB
4B87          C7          00400          FCB          $C7
4B88          EF          00410          FCB          $EF
4B89          FF          00420          FCB          $FF
4B8A          FF          00430          FCB          $FF
4B8B          FF          00440          FCB          $FF
00450
00460 * CHARACTER 097 - RA
00470 * = RIGHT ARROW

```

4B8C	FF	00480	CHR097	FCB	\$FF
4B8D	FF	00490		FCB	\$FF
4B8E	FF	00500		FCB	\$FF
4B8F	EF	00510		FCB	\$EF
4B90	F7	00520		FCB	\$F7
4B91	83	00530		FCB	\$83
4B92	F7	00540		FCB	\$F7
4B93	EF	00550		FCB	\$EF
4B94	FF	00560		FCB	\$FF
4B95	FF	00570		FCB	\$FF
4B96	FF	00580		FCB	\$FF
4B97	FF	00590		FCB	\$FF
		00600			
		00610	* CHARACTER 098 - LUL		
		00620	* = LINE		
		00630	* UPPER LEFT CORNER		
4B98	FF	00640	CHR098	FCB	\$FF
4B99	FF	00650		FCB	\$FF
4B9A	FF	00660		FCB	\$FF
4B9B	FF	00670		FCB	\$FF
4B9C	FF	00680		FCB	\$FF
4B9D	E0	00690		FCB	\$E0
4B9E	EF	00700		FCB	\$EF
4B9F	EF	00710		FCB	\$EF
4BA0	EF	00720		FCB	\$EF
4BA1	EF	00730		FCB	\$EF
4BA2	EF	00740		FCB	\$EF
4BA3	EF	00750		FCB	\$EF
		00760			
		00770	* CHARACTER 099 - LUR		
		00780	* = LINE		
		00790	* UPPER RIGHT CORNER		
4BA4	FF	00800	CHR099	FCB	\$FF
4BA5	FF	00810		FCB	\$FF
4BA6	FF	00820		FCB	\$FF
4BA7	FF	00830		FCB	\$FF
4BA8	FF	00840		FCB	\$FF
4BA9	0F	00850		FCB	\$0F
4BAA	EF	00860		FCB	\$EF
4BAB	EF	00870		FCB	\$EF
4BAC	EF	00880		FCB	\$EF
4BAD	EF	00890		FCB	\$EF
4BAE	EF	00900		FCB	\$EF
4BAF	EF	00910		FCB	\$EF
		00920			
		00930	* CHARACTER 100 - LLL		
		00940	* = LINE		

		00950	* LOWER LEFT CORNER		
4BB0	EF	00960	CHR100	FCB	\$EF
4BB1	EF	00970		FCB	\$EF
4BB2	EF	00980		FCB	\$EF
4BB3	EF	00990		FCB	\$EF
4BB4	EF	01000		FCB	\$EF
4BB5	E0	01010		FCB	\$E0
4BB6	FF	01020		FCB	\$FF
4BB7	FF	01030		FCB	\$FF
4BB8	FF	01040		FCB	\$FF
4BB9	FF	01050		FCB	\$FF
4BBA	FF	01060		FCB	\$FF
4BBB	FF	01070		FCB	\$FF
		01080			
		01090	* CHARACTER 101 - LLR		
		01100	* = LINE		
		01110	* LOWER RIGHT CORNER		
4BBC	EF	01120	CHR101	FCB	\$EF
4BBD	EF	01130		FCB	\$EF
4BBE	EF	01140		FCB	\$EF
4BBF	EF	01150		FCB	\$EF
4BC0	EF	01160		FCB	\$EF
4BC1	0F	01170		FCB	\$0F
4BC2	FF	01180		FCB	\$FF
4BC3	FF	01190		FCB	\$FF
		01200		FCB	\$FF
4BC4	FF	01200		FCB	\$FF
4BC5	FF	01210		FCB	\$FF
4BC6	FF	01220		FCB	\$FF
4BC7	FF	01230		FCB	\$FF
		01240			
		01250	* CHARACTER 102 - LH		
		01260	* = LINE HORIZONTAL,		
		01270	* VISIBLE, PASSIBLE,		
		01280	* AND DESTRUCTABLE		
4BC8	FF	01290	CHR102	FCB	\$FF
4BC9	FF	01300		FCB	\$FF
4BCA	FF	01310		FCB	\$FF
4BCB	FF	01320		FCB	\$FF
4BCC	FF	01330		FCB	\$FF
4BCD	00	01340		FCB	\$00
4BCE	FF	01350		FCB	\$FF
4BCF	FF	01360		FCB	\$FF
4BD0	FF	01370		FCB	\$FF
4BD1	FF	01380		FCB	\$FF
4BD2	FF	01390		FCB	\$FF
4BD3	FF	01400		FCB	\$FF

		01410			
		01420	* CHARACTER 103 - LHVI		
		01430	* = LINE HORIZONTAL		
		01440	* AND VISIBLE BUT		
		01450	* IMPASSIBLE AND		
		01460	* INDESTRUCTABLE		
4BD4	FF	01470	CHR103	FCB	\$FF
4BD5	FF	01480		FCB	\$FF
4BD6	FF	01490		FCB	\$FF
4BD7	FF	01500		FCB	\$FF
4BD8	FF	01510		FCB	\$FF
4BD9	00	01520		FCB	\$00
4BDA	FF	01530		FCB	\$FF
4BDB	FF	01540		FCB	\$FF
4BDC	FF	01550		FCB	\$FF
4BDD	FF	01560		FCB	\$FF
4BDE	FF	01570		FCB	\$FF
4BDF	FF	01580		FCB	\$FF
		01590			
		01600	* CHARACTER 104 - LHID		
		01610	* = LINE HORIZONTAL		
		01620	* BUT INVISIBLE,		
		01630	* PASSIBLE, AND		
		01640	* DESTRUCTABLE		
4BE0	FF	01650	CHR104	FCB	\$FF
4BE1	FF	01660		FCB	\$FF
4BE2	FF	01670		FCB	\$FF
4BE3	FF	01680		FCB	\$FF
4BE4	FF	01690		FCB	\$FF
4BE5	FF	01700		FCB	\$FF
4BE6	FF	01710		FCB	\$FF
4BE7	FF	01720		FCB	\$FF
4BE8	FF	01730		FCB	\$FF
4BE9	FF	01740		FCB	\$FF
4BEA	FF	01750		FCB	\$FF
4BEB	FF	01760		FCB	\$FF
		01770			
		01780	* CHARACTER 105 - LHII		
		01790	* = LINE HORIZONTAL		
		01800	* BUT INVISIBLE,		
		01810	* IMPASSIBLE, AND		
		01820	* INDESTRUCTABLE		
4BEC	FF	01830	CHR105	FCB	\$FF
4BED	FF	01840		FCB	\$FF
4BEE	FF	01850		FCB	\$FF
4BEF	FF	01860		FCB	\$FF
4BF0	FF	01870		FCB	\$FF

4BF1	FF	01880	FCB	\$FF	
4BF2	FF	01890	FCB	\$FF	
4BF3	FF	01900	FCB	\$FF	
4BF4	FF	01910	FCB	\$FF	
4BF5	FF	01920	FCB	\$FF	
4BF6	FF	01930	FCB	\$FF	
4BF7	FF	01940	FCB	\$FF	
		01950			
		01960	* CHARACTER 106 - LHUV		
		01970	* = LINE HORIZONTAL		
		01980	* WITH UPPER VERTICAL		
4BF8	EF	01990	CHR106	FCB	\$EF
4BF9	EF	02000		FCB	\$EF
4BFA	EF	02010		FCB	\$EF
4BFB	EF	02020		FCB	\$EF
4BFC	EF	02030		FCB	\$EF
4BFD	00	02040		FCB	\$00
4BFE	FF	02050		FCB	\$FF
4BFF	FF	02060		FCB	\$FF
4C00	FF	02070		FCB	\$FF
4C01	FF	02080		FCB	\$FF
4C02	FF	02090		FCB	\$FF
4C03	FF	02100		FCB	\$FF
		02110			
		02120	* CHARACTER 107 - LHLV		
		02130	* = LINE HORIZONTAL		
		02140	* WITH LOWER VERTICAL		
4C04	FF	02150	CHR107	FCB	\$FF
4C05	FF	02160		FCB	\$FF
4C06	FF	02170		FCB	\$FF
4C07	FF	02180		FCB	\$FF
4C08	FF	02190		FCB	\$FF
4C09	00	02200		FCB	\$00
4C0A	EF	02210		FCB	\$EF
4C0B	EF	02220		FCB	\$EF
4C0C	EF	02230		FCB	\$EF
4C0D	EF	02240		FCB	\$EF
4C0E	EF	02250		FCB	\$EF
4C0F	EF	02260		FCB	\$EF
		02270			
		02280	* CHARACTER 108 - LHO		
		02290	* = LINE HORIZONTAL		
		02300	* WITH OPENING		
4C10	FF	02310	CHR108	FCB	\$FF
4C11	FF	02320		FCB	\$FF
4C12	FF	02330		FCB	\$FF
4C13	FF	02340		FCB	\$FF

4C14	7D	02350	FCB	\$7D
4C15	7C	02360	FCB	\$7C
4C16	7D	02370	FCB	\$7D
4C17	FF	02380	FCB	\$FF
4C18	FF	02390	FCB	\$FF
4C19	FF	02400	FCB	\$FF
4C1A	FF	02410	FCB	\$FF
4C1B	FF	02420	FCB	\$FF
		02430		
		02440	* CHARACTER 109 - LHOL	
		02450	* = LINE HORIZONTAL	
		02460	* WITH LOCKED OPENING	
4C1C	FF	02470	CHR109 FCB	\$FF
4C1D	FF	02480	FCB	\$FF
4C1E	FF	02490	FCB	\$FF
4C1F	FF	02500	FCB	\$FF
4C20	01	02510	FCB	\$01
4C21	7C	02520	FCB	\$7C
4C22	01	02530	FCB	\$01
4C23	FF	02540	FCB	\$FF
4C24	FF	02550	FCB	\$FF
4C25	FF	02560	FCB	\$FF
4C26	FF	02570	FCB	\$FF
4C27	FF	02580	FCB	\$FF
		02590		
		02600	* CHARACTER 110 - LV	
		02610	* = LINE VERTICAL,	
		02620	* VISIBLE, PASSIBLE,	
		02630	* AND DESTRUCTABLE	
4C28	EF	02640	CHR110 FCB	\$EF
4C29	EF	02650	FCB	\$EF
4C2A	EF	02660	FCB	\$EF
4C2B	EF	02670	FCB	\$EF
4C2C	EF	02680	FCB	\$EF
4C2D	EF	02690	FCB	\$EF
4C2E	EF	02700	FCB	\$EF
4C2F	EF	02710	FCB	\$EF
4C30	EF	02720	FCB	\$EF
4C31	EF	02730	FCB	\$EF
4C32	EF	02740	FCB	\$EF
4C33	EF	02750	FCB	\$EF
		02760		
		02770	* CHARACTER 111 - LVVI	
		02780	* = LINE HORIZONTAL	
		02790	* AND VISIBLE BUT	
		02800	* IMPASSIBLE AND	
		02810	* INDESTRUCTABLE	

4C34	EF	02820	CHR111	FCB	\$EF
4C35	EF	02830		FCB	\$EF
4C36	EF	02840		FCB	\$EF
4C37	EF	02850		FCB	\$EF
4C38	EF	02860		FCB	\$EF
4C39	EF	02870		FCB	\$EF
4C3A	EF	02880		FCB	\$EF
4C3B	EF	02890		FCB	\$EF
4C3C	EF	02900		FCB	\$EF
4C3D	EF	02910		FCB	\$EF
4C3E	EF	02920		FCB	\$EF
4C3F	EF	02930		FCB	\$EF
		02940			
		02950	* CHARACTER 112 - LVID		
		02960	* = LINE VERTICAL		
		02970	* BUT INVISIBLE,		
		02980	* PASSIBLE, AND		
		02990	* DESTRUCTABLE		
4C40	FF	03000	CHR112	FCB	\$FF
4C41	FF	03010		FCB	\$FF
4C42	FF	03020		FCB	\$FF
4C43	FF	03030		FCB	\$FF
4C44	FF	03040		FCB	\$FF
4C45	FF	03050		FCB	\$FF
4C46	FF	03060		FCB	\$FF
4C47	FF	03070		FCB	\$FF
4C48	FF	03080		FCB	\$FF
4C49	FF	03090		FCB	\$FF
4C4A	FF	03100		FCB	\$FF
4C4B	FF	03110		FCB	\$FF
		03120			
		03130	* CHARACTER 113 - LVII		
		03140	* = LINE VERTICAL		
		03150	* BUT INVISIBLE,		
		03160	* IMPASSIBLE, AND		
		03170	* INDESTRUCTABLE		
4C4C	FF	03180	CHR113	FCB	\$FF
4C4D	FF	03190		FCB	\$FF
4C4E	FF	03200		FCB	\$FF
4C4F	FF	03210		FCB	\$FF
4C50	FF	03220		FCB	\$FF
4C51	FF	03230		FCB	\$FF
4C52	FF	03240		FCB	\$FF
4C53	FF	03250		FCB	\$FF
4C54	FF	03260		FCB	\$FF
4C55	FF	03270		FCB	\$FF
4C56	FF	03280		FCB	\$FF

4C57	FF	03290	FCB	\$FF
		03300		
		03310	* CHARACTER 114 -LVRH	
		03320	* = LINE VERTICAL	
		03330	* WITH RIGHT HORIZONTAL	
4C58	EF	03340	CHR114	FCB \$EF
4C59	EF	03350	FCB	\$EF
4C5A	EF	03360	FCB	\$EF
4C5B	EF	03370	FCB	\$EF
4C5C	EF	03380	FCB	\$EF
4C5D	E0	03390	FCB	\$E0
4C5E	EF	03400	FCB	\$EF
4C5F	EF	03410	FCB	\$EF
4C60	EF	03420	FCB	\$EF
4C61	EF	03430	FCB	\$EF
4C62	EF	03440	FCB	\$EF
4C63	EF	03450	FCB	\$EF
		03460		
		03470	* CHARACTER 115 - LVLH	
		03480	* = LINE VERTICAL	
		03490	* WITH LEFT HORIZONTAL	
4C64	EF	03500	CHR115	FCB \$EF
4C65	EF	03510	FCB	\$EF
4C66	EF	03520	FCB	\$EF
4C67	EF	03530	FCB	\$EF
4C68	EF	03540	FCB	\$EF
4C69	0F	03550	FCB	\$0F
4C6A	EF	03560	FCB	\$EF
4C6B	EF	03570	FCB	\$EF
4C6C	EF	03580	FCB	\$EF
4C6D	EF	03590	FCB	\$EF
4C6E	EF	03600	FCB	\$EF
4C6F	EF	03610	FCB	\$EF
		03620		
		03630	* CHARACTER 116 - LVH	
		03640	* = LINE VERTICAL	
		03650	* WITH FULL HORIZONTAL	
4C70	EF	03660	CHR116	FCB \$EF
4C71	EF	03670	FCB	\$EF
4C72	EF	03680	FCB	\$EF
4C73	EF	03690	FCB	\$EF
4C74	EF	03700	FCB	\$EF
4C75	00	03710	FCB	\$00
4C76	EF	03720	FCB	\$EF
4C77	EF	03730	FCB	\$EF
4C78	EF	03740	FCB	\$EF
4C79	EF	03750	FCB	\$EF

4C7A	EF	03760	FCB	\$EF
4C7B	EF	03770	FCB	\$EF
		03780		
		03790	* CHARACTER 117 - LVO	
		03800	* = LINE VERTICAL	
		03810	* WITH OPENING	
4C7C	EF	03820	CHR117	FCB \$EF
4C7D	C7	03830	FCB	\$C7
4C7E	FF	03840	FCB	\$FF
4C7F	FF	03850	FCB	\$FF
4C80	FF	03860	FCB	\$FF
4C81	FF	03870	FCB	\$FF
4C82	FF	03880	FCB	\$FF
4C83	FF	03890	FCB	\$FF
4C84	FF	03900	FCB	\$FF
4C85	C7	03910	FCB	\$C7
4C86	EF	03920	FCB	\$EF
4C87	EF	03930	FCB	\$EF
		03940		
		03950	* CHARACTER 118 - LVOL	
		03960	* = LINE VERTICAL	
		03970	* WITH LOCKED OPENING	
4C88	EF	03980	CHR118	FCB \$EF
4C89	C7	03990	FCB	\$C7
4C8A	D7	04000	FCB	\$D7
4C8B	D7	04010	FCB	\$D7
4C8C	D7	04020	FCB	\$D7
4C8D	D7	04030	FCB	\$D7
4C8E	D7	04040	FCB	\$D7
4C8F	D7	04050	FCB	\$D7
4C90	D7	04060	FCB	\$D7
4C91	C7	04070	FCB	\$C7
4C92	EF	04080	FCB	\$EF
4C93	EF	04090	FCB	\$EF
		04100		
		04110	* CHARACTER 119 - TD	
		04120	* = TUNNEL DOWN	
4C94	FF	04130	CHR119	FCB \$FF
4C95	81	04140	FCB	\$81
4C96	BD	04150	FCB	\$BD
4C97	BD	04160	FCB	\$BD
4C98	9D	04170	FCB	\$9D
4C99	AD	04180	FCB	\$AD
4C9A	B5	04190	FCB	\$B5
4C9B	B9	04200	FCB	\$B9
4C9C	BD	04210	FCB	\$BD
4C9D	BD	04220	FCB	\$BD

4C9E	81	04230	FCB	\$81
4C9F	FF	04240	FCB	\$FF
		04250		
		04260	* CHARACTER 120 - TDI	
		04270	* = TUNNEL DOWN	
		04280	* BUT INVISIBLE	
4CA0	FF	04290	CHR120 FCB	\$FF
4CA1	FF	04300	FCB	\$FF
4CA2	FF	04310	FCB	\$FF
4CA3	FF	04320	FCB	\$FF
4CA4	FF	04330	FCB	\$FF
4CA5	FF	04340	FCB	\$FF
4CA6	FF	04350	FCB	\$FF
4CA7	FF	04360	FCB	\$FF
4CA8	FF	04370	FCB	\$FF
4CA9	FF	04380	FCB	\$FF
4CAA	FF	04390	FCB	\$FF
4CAB	FF	04400	FCB	\$FF
		04410		
		04420	* CHARACTER 121 - TDL	
		04430	* = TUNNEL DOWN, LOCKED	
4CAC	FF	04440	CHR121 FCB	\$FF
4CAD	81	04450	FCB	\$81
4CAE	81	04460	FCB	\$81
4CAF	81	04470	FCB	\$81
4CB0	81	04480	FCB	\$81
4CB1	A1	04490	FCB	\$A1
4CB2	B1	04500	FCB	\$B1
4CB3	B9	04510	FCB	\$B9
4CB4	BD	04520	FCB	\$BD
4CB5	BD	04530	FCB	\$BD
4CB6	81	04540	FCB	\$81
4CB7	FF	04550	FCB	\$FF
		04560		
		04570	* CHARACTER 122 - TDLI	
		04580	* = TUNNEL DOWN, LOCKED	
		04590	* BUT INVISIBLE	
4CB8	FF	04600	CHR122 FCB	\$FF
4CB9	FF	04610	FCB	\$FF
4CBA	FF	04620	FCB	\$FF
4CBB	FF	04630	FCB	\$FF
4CBC	FF	04640	FCB	\$FF
4CBD	FF	04650	FCB	\$FF
4CBE	FF	04660	FCB	\$FF
4CBF	FF	04670	FCB	\$FF
4CC0	FF	04680	FCB	\$FF
4CC1	FF	04690	FCB	\$FF

4CC2	FF	04700	FCB	\$FF
4CC3	FF	04710	FCB	\$FF
		04720		
		04730	* CHARACTER 123 - TU	
		04740	* = TUNNEL UP	
4CC4	FF	04750	CHR123 FCB	\$FF
4CC5	E7	04760	FCB	\$E7
4CC6	DB	04770	FCB	\$DB
4CC7	BD	04780	FCB	\$BD
4CC8	B9	04790	FCB	\$B9
4CC9	B5	04800	FCB	\$B5
4CCA	AD	04810	FCB	\$AD
4CCB	9D	04820	FCB	\$9D
4CCC	BD	04830	FCB	\$BD
4CCD	DB	04840	FCB	\$DB
4CCE	E7	04850	FCB	\$E7
4CCF	FF	04860	FCB	\$FF
		04870		
		04880	* CHARACTER 124 - TUI	
		04890	* = TUNNEL UP	
		04900	* BUT INVISIBLE	
4CD0	FF	04910	CHR124 FCB	\$FF
4CD1	FF	04920	FCB	\$FF
4CD2	FF	04930	FCB	\$FF
4CD3	FF	04940	FCB	\$FF
4CD4	FF	04950	FCB	\$FF
4CD5	FF	04960	FCB	\$FF
4CD6	FF	04970	FCB	\$FF
4CD7	FF	04980	FCB	\$FF
4CD8	FF	04990	FCB	\$FF
4CD9	FF	05000	FCB	\$FF
4CDA	FF	05010	FCB	\$FF
4CDB	FF	05020	FCB	\$FF
		05030		
		05040	* CHARACTER 125 - TUL	
		05050	* = TUNNEL UP, LOCKED	
4CDC	FF	05060	CHR125 FCB	\$FF
4CDD	E7	05070	FCB	\$E7
4CDE	DB	05080	FCB	\$DB
4CDF	BD	05090	FCB	\$BD
4CE0	B9	05100	FCB	\$B9
4CE1	B1	05110	FCB	\$B1
4CE2	A1	05120	FCB	\$A1
4CE3	81	05130	FCB	\$81
4CE4	81	05140	FCB	\$81
4CE5	C3	05150	FCB	\$C3
4CE6	E7	05160	FCB	\$E7

4CE7	FF	05170	FCB	\$FF
		05180		
		05190	* CHARACTER 126 - TULI	
		05200	* = TUNNEL UP, LOCKED	
		05210	* BUT INVISIBLE	
4CE8	FF	05220	CHR126	FCB \$FF
4CE9	FF	05230	FCB	\$FF
4CEA	FF	05240	FCB	\$FF
4CEB	FF	05250	FCB	\$FF
4CEC	FF	05260	FCB	\$FF
4CED	FF	05270	FCB	\$FF
4CEE	FF	05280	FCB	\$FF
4CEF	FF	05290	FCB	\$FF
4CF0	FF	05300	FCB	\$FF
4CF1	FF	05310	FCB	\$FF
4CF2	FF	05320	FCB	\$FF
4CF3	FF	05330	FCB	\$FF
		05340		
		05350	* CHARACTER 127 - WHSE	
		05360	* = WAREHOUSE	
4CF4	FF	05370	CHR127	FCB \$FF
4CF5	FF	05380	FCB	\$FF
4CF6	BB	05390	FCB	\$BB
4CF7	BB	05400	FCB	\$BB
4CF8	BB	05410	FCB	\$BB
4CF9	BB	05420	FCB	\$BB
4CFA	AB	05430	FCB	\$AB
4CFB	93	05440	FCB	\$93
4CFC	BB	05450	FCB	\$BB
4CFD	FF	05460	FCB	\$FF
4CFE	FF	05470	FCB	\$FF
4CFF	FF	05480	ENDCHK	FCB \$FF
	0000	05490	END	

For testing, see the Fake Text Testing Chapter below.

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Fake Text Character Set Character Encoding Characters 128-159

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00100 *****
00110 *
00120 * CHR3216E.ASM
00130 * MDJ 2023/03/31
00140 *
00150 * THE FAKETEXT 32 X 16
00160 * CHARACTER SET FOR
00170 * PMODE 4
00180 *
00190 * EACH OF THE 255
00200 * CHARACTERS IS 8 BITS
00210 * (I.E. ONE BYTE) WIDE
00220 * AND TWELVE BYTES HIGH
00230 *
00240 * THIS FILE = CHARACTERS
00250 * CHR128 THROUGH CHR159
00260 *
00270 *****
00280
4D00      00290          ORG          $4D00
          00300
          00310 * CHARACTER 128 - DX00
          00320 * = DIG LOCATION
          00330 * POSSIBLE BURIED ITEM
4D00      FF      00340 CHR128   FCB      $FF
4D01      FF      00350          FCB      $FF
4D02      FF      00360          FCB      $FF
4D03      FF      00370          FCB      $FF
4D04      DB      00380          FCB      $DB
4D05      E7      00390          FCB      $E7
4D06      E7      00400          FCB      $E7
4D07      DB      00410          FCB      $DB
4D08      FF      00420          FCB      $FF
4D09      FF      00430          FCB      $FF
4D0A      FF      00440          FCB      $FF
4D0B      FF      00450          FCB      $FF
          00460
          00470 * CHARACTER 129 - DX01

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		00480	* = HOLE #01 - AFTER		
		00490	* FIRST DIG ATTEMPT		
4D0C	FF	00500	CHR129	FCB	\$FF
4D0D	FF	00510		FCB	\$FF
4D0E	FF	00520		FCB	\$FF
4D0F	FF	00530		FCB	\$FF
4D10	FF	00540		FCB	\$FF
4D11	E7	00550		FCB	\$E7
4D12	E7	00560		FCB	\$E7
4D13	FF	00570		FCB	\$FF
4D14	FF	00580		FCB	\$FF
4D15	FF	00590		FCB	\$FF
4D16	FF	00600		FCB	\$FF
4D17	FF	00610		FCB	\$FF
		00620			
		00630	* CHARACTER 130 - DX02		
		00640	* = HOLE #02 - AFTER		
		00650	* SECOND DIG ATTEMPT		
4D18	FF	00660	CHR130	FCB	\$FF
4D19	FF	00670		FCB	\$FF
4D1A	FF	00680		FCB	\$FF
4D1B	FF	00690		FCB	\$FF
4D1C	C3	00700		FCB	\$C3
4D1D	C3	00710		FCB	\$C3
4D1E	C3	00720		FCB	\$C3
4D1F	C3	00730		FCB	\$C3
4D20	FF	00740		FCB	\$FF
4D21	FF	00750		FCB	\$FF
4D22	FF	00760		FCB	\$FF
4D23	FF	00770		FCB	\$FF
		00780			
		00790	* CHARACTER 131 - DX03		
		00800	* = HOLE #03 - AFTER		
		00810	* THIRD DIG ATTEMPT:		
		00820	* EMPTY HOLE - NOTHING		
		00830	* BURIED HERE		
4D24	FF	00840	CHR131	FCB	\$FF
4D25	FF	00850		FCB	\$FF
4D26	FF	00860		FCB	\$FF
4D27	81	00870		FCB	\$81
4D28	81	00880		FCB	\$81
4D29	81	00890		FCB	\$81
4D2A	81	00900		FCB	\$81
4D2B	81	00910		FCB	\$81
4D2C	81	00920		FCB	\$81
4D2D	FF	00930		FCB	\$FF
4D2E	FF	00940		FCB	\$FF

4D2F	FF	00950	FCB	\$FF
		00960		
		00970	* CHARACTER 132 - FC	
		00980	* = COBBLESTONES	
4D30	FF	00990	CHR132 FCB	\$FF
4D31	AB	01000	FCB	\$AB
4D32	FF	01010	FCB	\$FF
4D33	D5	01020	FCB	\$D5
4D34	FF	01030	FCB	\$FF
4D35	AB	01040	FCB	\$AB
4D36	FF	01050	FCB	\$FF
4D37	D5	01060	FCB	\$D5
4D38	FF	01070	FCB	\$FF
4D39	AB	01080	FCB	\$AB
4D3A	FF	01090	FCB	\$FF
4D3B	FF	01100	FCB	\$FF
		01110		
		01120	* CHARACTER 133 - FP	
		01130	* = PROVISIONS	
4D3C	FF	01140	CHR133 FCB	\$FF
4D3D	FF	01150	FCB	\$FF
4D3E	87	01160	FCB	\$87
4D3F	BB	01170	FCB	\$BB
4D40	BB	01180	FCB	\$BB
4D41	87	01190	FCB	\$87
4D42	BF	01200	FCB	\$BF
4D43	BF	01210	FCB	\$BF
4D44	BF	01220	FCB	\$BF
4D45	FF	01230	FCB	\$FF
4D46	FF	01240	FCB	\$FF
4D47	FF	01250	FCB	\$FF
		01260		
		01270	* CHARACTER 134 - KY01	
		01280	* = KEY #01	
4D48	FF	01290	CHR134 FCB	\$FF
4D49	C7	01300	FCB	\$C7
4D4A	F7	01310	FCB	\$F7
4D4B	E7	01320	FCB	\$E7
4D4C	F7	01330	FCB	\$F7
4D4D	F7	01340	FCB	\$F7
4D4E	F7	01350	FCB	\$F7
4D4F	F7	01360	FCB	\$F7
4D50	E3	01370	FCB	\$E3
4D51	EB	01380	FCB	\$EB
4D52	E3	01390	FCB	\$E3
4D53	FF	01400	FCB	\$FF
		01410		

		01420	* CHARACTER 135 - KY02	
		01430	* = KEY #02	
4D54	FF	01440	CHR135 FCB	\$FF
4D55	C7	01450	FCB	\$C7
4D56	F7	01460	FCB	\$F7
4D57	E7	01470	FCB	\$E7
4D58	F7	01480	FCB	\$F7
4D59	C7	01490	FCB	\$C7
4D5A	F7	01500	FCB	\$F7
4D5B	F7	01510	FCB	\$F7
4D5C	E3	01520	FCB	\$E3
4D5D	EB	01530	FCB	\$EB
4D5E	E3	01540	FCB	\$E3
4D5F	FF	01550	FCB	\$FF
		01560		
		01570	* CHARACTER 136 - KY03	
		01580	* = KEY #03	
4D60	FF	01590	CHR136 FCB	\$FF
4D61	C7	01600	FCB	\$C7
4D62	F7	01610	FCB	\$F7
4D63	C7	01620	FCB	\$C7
4D64	F7	01630	FCB	\$F7
4D65	F7	01640	FCB	\$F7
4D66	F7	01650	FCB	\$F7
4D67	F7	01660	FCB	\$F7
4D68	E3	01670	FCB	\$E3
4D69	EB	01680	FCB	\$EB
4D6A	E3	01690	FCB	\$E3
4D6B	FF	01700	FCB	\$FF
		01710		
		01720	* CHARACTER 137 - KY04	
		01730	* = KEY #04	
4D6C	FF	01740	CHR137 FCB	\$FF
4D6D	C7	01750	FCB	\$C7
4D6E	F7	01760	FCB	\$F7
4D6F	C7	01770	FCB	\$C7
4D70	F7	01780	FCB	\$F7
4D71	E7	01790	FCB	\$E7
4D72	F7	01800	FCB	\$F7
4D73	F7	01810	FCB	\$F7
4D74	E3	01820	FCB	\$E3
4D75	EB	01830	FCB	\$EB
4D76	E3	01840	FCB	\$E3
4D77	FF	01850	FCB	\$FF
		01860		
		01870	* CHARACTER 138 - FL01	
		01880	* = FLASHLIGHT #01	

4D78	FF	01890	CHR138	FCB	\$FF
4D79	BD	01900		FCB	\$BD
4D7A	BD	01910		FCB	\$BD
4D7B	DB	01920		FCB	\$DB
4D7C	FF	01930		FCB	\$FF
4D7D	C3	01940		FCB	\$C3
4D7E	C3	01950		FCB	\$C3
4D7F	E7	01960		FCB	\$E7
4D80	E7	01970		FCB	\$E7
4D81	E7	01980		FCB	\$E7
4D82	E7	01990		FCB	\$E7
4D83	FF	02000		FCB	\$FF
		02010			
		02020	* CHARACTER 139 - FL02		
		02030	* = FLASHLIGHT #02		
4D84	FF	02040	CHR139	FCB	\$FF
4D85	BD	02050		FCB	\$BD
4D86	BD	02060		FCB	\$BD
4D87	DB	02070		FCB	\$DB
4D88	FF	02080		FCB	\$FF
4D89	C3	02090		FCB	\$C3
4D8A	C3	02100		FCB	\$C3
4D8B	E7	02110		FCB	\$E7
4D8C	E7	02120		FCB	\$E7
4D8D	E7	02130		FCB	\$E7
4D8E	E7	02140		FCB	\$E7
4D8F	FF	02150		FCB	\$FF
		02160			
		02170	* CHARACTER 140 - FL03		
		02180	* = FLASHLIGHT #03		
4D90	FF	02190	CHR140	FCB	\$FF
4D91	BD	02200		FCB	\$BD
4D92	BD	02210		FCB	\$BD
4D93	DB	02220		FCB	\$DB
4D94	FF	02230		FCB	\$FF
4D95	C3	02240		FCB	\$C3
4D96	C3	02250		FCB	\$C3
4D97	E7	02260		FCB	\$E7
4D98	E7	02270		FCB	\$E7
4D99	E7	02280		FCB	\$E7
4D9A	E7	02290		FCB	\$E7
4D9B	FF	02300		FCB	\$FF
		02310			
		02320	* CHARACTER 141 - FL04		
		02330	* = FLASHLIGHT #04		
4D9C	FF	02340	CHR141	FCB	\$FF
4D9D	BD	02350		FCB	\$BD

4D9E	BD	02360	FCB	\$BD
4D9F	DB	02370	FCB	\$DB
4DA0	FF	02380	FCB	\$FF
4DA1	C3	02390	FCB	\$C3
4DA2	C3	02400	FCB	\$C3
4DA3	E7	02410	FCB	\$E7
4DA4	E7	02420	FCB	\$E7
4DA5	E7	02430	FCB	\$E7
4DA6	E7	02440	FCB	\$E7
4DA7	FF	02450	FCB	\$FF
		02460		
		02470	* CHARACTER 142 - IL	
		02480	* = ILLUMINATOR	
4DA8	FF	02490	CHR142 FCB	\$FF
4DA9	FF	02500	FCB	\$FF
4DAA	F7	02510	FCB	\$F7
4DAB	BD	02520	FCB	\$BD
4DAC	DB	02530	FCB	\$DB
4DAD	FF	02540	FCB	\$FF
4DAE	FF	02550	FCB	\$FF
4DAF	DB	02560	FCB	\$DB
4DB0	BD	02570	FCB	\$BD
4DB1	EF	02580	FCB	\$EF
4DB2	FF	02590	FCB	\$FF
4DB3	FF	02600	FCB	\$FF
		02610		
		02620	* CHARACTER 143 - DS01	
		02630	* = DYNAMITE STICK #01	
4DB4	FF	02640	CHR143 FCB	\$FF
4DB5	BD	02650	FCB	\$BD
4DB6	E7	02660	FCB	\$E7
4DB7	E7	02670	FCB	\$E7
4DB8	A5	02680	FCB	\$A5
4DB9	E7	02690	FCB	\$E7
4DBA	E7	02700	FCB	\$E7
4DBB	A5	02710	FCB	\$A5
4DBC	E7	02720	FCB	\$E7
4DBD	E7	02730	FCB	\$E7
4DBE	BD	02740	FCB	\$BD
4DBF	FF	02750	FCB	\$FF
		02760		
		02770	* CHARACTER 144 - DS02	
		02780	* = DYNAMITE STICK #02	
4DC0	FF	02790	CHR144 FCB	\$FF
4DC1	BD	02800	FCB	\$BD
4DC2	E7	02810	FCB	\$E7
4DC3	E7	02820	FCB	\$E7

4DC4	A5	02830	FCB	\$A5
4DC5	E7	02840	FCB	\$E7
4DC6	E7	02850	FCB	\$E7
4DC7	A5	02860	FCB	\$A5
4DC8	E7	02870	FCB	\$E7
4DC9	E7	02880	FCB	\$E7
4DCA	BD	02890	FCB	\$BD
4DCB	FF	02900	FCB	\$FF
		02910		
		02920	* CHARACTER 145 - DS03	
		02930	* = DYNAMITE STICK #03	
4DCC	FF	02940	CHR145	FCB \$FF
4DCD	BD	02950		FCB \$BD
4DCE	E7	02960		FCB \$E7
4DCF	E7	02970		FCB \$E7
4DD0	A5	02980		FCB \$A5
4DD1	E7	02990		FCB \$E7
4DD2	E7	03000		FCB \$E7
4DD3	A5	03010		FCB \$A5
4DD4	E7	03020		FCB \$E7
4DD5	E7	03030		FCB \$E7
4DD6	BD	03040		FCB \$BD
4DD7	FF	03050		FCB \$FF
		03060		
		03070	* CHARACTER 146 - DS04	
		03080	* = DYNAMITE STICK #04	
4DD8	FF	03090	CHR146	FCB \$FF
4DD9	BD	03100		FCB \$BD
4DDA	E7	03110		FCB \$E7
4ddb	E7	03120		FCB \$E7
4DDC	A5	03130		FCB \$A5
4DDD	E7	03140		FCB \$E7
4DDE	E7	03150		FCB \$E7
4DDF	A5	03160		FCB \$A5
4DE0	E7	03170		FCB \$E7
4DE1	E7	03180		FCB \$E7
4DE2	BD	03190		FCB \$BD
4DE3	FF	03200		FCB \$FF
		03210		
		03220	* CHARACTER 147 - DS05	
		03230	* = DYNAMITE STICK #05	
4DE4	FF	03240	CHR147	FCB \$FF
4DE5	BD	03250		FCB \$BD
4DE6	E7	03260		FCB \$E7
4DE7	E7	03270		FCB \$E7
4DE8	A5	03280		FCB \$A5
4DE9	E7	03290		FCB \$E7

4DEA	E7	03300	FCB	\$E7
4DEB	A5	03310	FCB	\$A5
4DEC	E7	03320	FCB	\$E7
4DED	E7	03330	FCB	\$E7
4DEE	BD	03340	FCB	\$BD
4DEF	FF	03350	FCB	\$FF
		03360		
		03370	* CHARACTER 148 - DS06	
		03380	* = DYNAMITE STICK #06	
4DF0	FF	03390	CHR148 FCB	\$FF
4DF1	BD	03400	FCB	\$BD
4DF2	E7	03410	FCB	\$E7
4DF3	E7	03420	FCB	\$E7
4DF4	A5	03430	FCB	\$A5
4DF5	E7	03440	FCB	\$E7
4DF6	E7	03450	FCB	\$E7
4DF7	A5	03460	FCB	\$A5
4DF8	E7	03470	FCB	\$E7
4DF9	E7	03480	FCB	\$E7
4DFA	BD	03490	FCB	\$BD
4DFB	FF	03500	FCB	\$FF
		03510		
		03520	* CHARACTER 149 - TR	
		03530	* = TRANSPORTER	
4DFC	FF	03540	CHR149 FCB	\$FF
4DFD	9D	03550	FCB	\$9D
4DFE	BD	03560	FCB	\$BD
4DFE	BD	03570	FCB	\$BD
4E00	AD	03580	FCB	\$AD
4E01	B5	03590	FCB	\$B5
4E02	AD	03600	FCB	\$AD
4E03	BD	03610	FCB	\$BD
4E04	BD	03620	FCB	\$BD
4E05	B9	03630	FCB	\$B9
4E06	FF	03640	FCB	\$FF
4E07	FF	03650	FCB	\$FF
		03660		
		03670	* CHARACTER 150 - SH	
		03680	* = SHIELD	
4E08	FF	03690	CHR150 FCB	\$FF
4E09	FF	03700	FCB	\$FF
4E0A	81	03710	FCB	\$81
4E0B	BD	03720	FCB	\$BD
4E0C	BD	03730	FCB	\$BD
4E0D	BD	03740	FCB	\$BD
4E0E	BD	03750	FCB	\$BD
4E0F	DB	03760	FCB	\$DB

4E10	DB	03770	FCB	\$DB	
4E11	E7	03780	FCB	\$E7	
4E12	FF	03790	FCB	\$FF	
4E13	FF	03800	FCB	\$FF	
		03810			
		03820	* CHARACTER 151 - SS		
		03830	* = SHORT SWORD		
4E14	FF	03840	CHR151	FCB	\$FF
4E15	FF	03850		FCB	\$FF
4E16	FF	03860		FCB	\$FF
4E17	F7	03870		FCB	\$F7
4E18	F7	03880		FCB	\$F7
4E19	F7	03890		FCB	\$F7
4E1A	F7	03900		FCB	\$F7
4E1B	E3	03910		FCB	\$E3
4E1C	F7	03920		FCB	\$F7
4E1D	F7	03930		FCB	\$F7
4E1E	FF	03940		FCB	\$FF
4E1F	FF	03950		FCB	\$FF
		03960			
		03970	* CHARACTER 152 - SW		
		03980	* = SWORD		
4E20	FF	03990	CHR152	FCB	\$FF
4E21	F7	04000		FCB	\$F7
4E22	F7	04010		FCB	\$F7
4E23	F7	04020		FCB	\$F7
4E24	F7	04030		FCB	\$F7
4E25	F7	04040		FCB	\$F7
4E26	F7	04050		FCB	\$F7
4E27	F7	04060		FCB	\$F7
4E28	E3	04070		FCB	\$E3
4E29	F7	04080		FCB	\$F7
4E2A	F7	04090		FCB	\$F7
4E2B	FF	04100		FCB	\$FF
		04110			
		04120	* CHARACTER 153 - SB		
		04130	* = BROADSWORD		
4E2C	FF	04140	CHR153	FCB	\$FF
4E2D	E7	04150		FCB	\$E7
4E2E	E7	04160		FCB	\$E7
4E2F	E7	04170		FCB	\$E7
4E30	E7	04180		FCB	\$E7
4E31	E7	04190		FCB	\$E7
4E32	E7	04200		FCB	\$E7
4E33	E7	04210		FCB	\$E7
4E34	81	04220		FCB	\$81
4E35	E7	04230		FCB	\$E7

4E36	E7	04240	FCB	\$E7
4E37	FF	04250	FCB	\$FF
		04260		
		04270	* CHARACTER 154 - CB	
		04280	* = CROSSBOW	
4E38	FF	04290	CHR154 FCB	\$FF
4E39	E7	04300	FCB	\$E7
4E3A	DB	04310	FCB	\$DB
4E3B	BD	04320	FCB	\$BD
4E3C	81	04330	FCB	\$81
4E3D	E7	04340	FCB	\$E7
4E3E	E7	04350	FCB	\$E7
4E3F	E7	04360	FCB	\$E7
4E40	E7	04370	FCB	\$E7
4E41	E7	04380	FCB	\$E7
4E42	E7	04390	FCB	\$E7
4E43	FF	04400	FCB	\$FF
		04410		
		04420	* CHARACTER 155 - AR01	
		04430	* = ARROW #01	
4E44	FF	04440	CHR155 FCB	\$FF
4E45	F7	04450	FCB	\$F7
4E46	F7	04460	FCB	\$F7
4E47	E3	04470	FCB	\$E3
4E48	E3	04480	FCB	\$E3
4E49	F7	04490	FCB	\$F7
4E4A	F7	04500	FCB	\$F7
4E4B	F7	04510	FCB	\$F7
4E4C	F7	04520	FCB	\$F7
4E4D	F7	04530	FCB	\$F7
4E4E	EB	04540	FCB	\$EB
4E4F	FF	04550	FCB	\$FF
		04560		
		04570	* CHARACTER 156 - AR02	
		04580	* = ARROW #02	
4E50	FF	04590	CHR156 FCB	\$FF
4E51	F7	04600	FCB	\$F7
4E52	F7	04610	FCB	\$F7
4E53	E3	04620	FCB	\$E3
4E54	E3	04630	FCB	\$E3
4E55	F7	04640	FCB	\$F7
4E56	F7	04650	FCB	\$F7
4E57	F7	04660	FCB	\$F7
4E58	F7	04670	FCB	\$F7
4E59	F7	04680	FCB	\$F7
4E5A	EB	04690	FCB	\$EB
4E5B	FF	04700	FCB	\$FF

		04710		
		04720	* CHARACTER 157 - AR03	
		04730	* = ARROW #03	
4E5C	FF	04740	CHR157 FCB	\$FF
4E5D	F7	04750	FCB	\$F7
4E5E	F7	04760	FCB	\$F7
4E5F	E3	04770	FCB	\$E3
4E60	E3	04780	FCB	\$E3
4E61	F7	04790	FCB	\$F7
4E62	F7	04800	FCB	\$F7
4E63	F7	04810	FCB	\$F7
4E64	F7	04820	FCB	\$F7
4E65	F7	04830	FCB	\$F7
4E66	EB	04840	FCB	\$EB
4E67	FF	04850	FCB	\$FF
		04860		
		04870	* CHARACTER 158 - AR04	
		04880	* = ARROW #04	
4E68	FF	04890	CHR158 FCB	\$FF
4E69	F7	04900	FCB	\$F7
4E6A	F7	04910	FCB	\$F7
4E6B	E3	04920	FCB	\$E3
4E6C	E3	04930	FCB	\$E3
4E6D	F7	04940	FCB	\$F7
4E6E	F7	04950	FCB	\$F7
4E6F	F7	04960	FCB	\$F7
4E70	F7	04970	FCB	\$F7
4E71	F7	04980	FCB	\$F7
4E72	EB	04990	FCB	\$EB
4E73	FF	05000	FCB	\$FF
		05010		
		05020	* CHARACTER 159 - AR05	
		05030	* = ARROW #05	
4E74	FF	05040	CHR159 FCB	\$FF
4E75	F7	05050	FCB	\$F7
4E76	F7	05060	FCB	\$F7
4E77	E3	05070	FCB	\$E3
4E78	E3	05080	FCB	\$E3
4E79	F7	05090	FCB	\$F7
4E7A	F7	05100	FCB	\$F7
4E7B	F7	05110	FCB	\$F7
4E7C	F7	05120	FCB	\$F7
4E7D	F7	05130	FCB	\$F7
4E7E	EB	05140	FCB	\$EB
4E7F	FF	05150	ENDCHK FCB	\$FF
	0000	05160	END	

For testing, see the Fake Text Testing Chapter below.

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Fake Text Character Set Character Encoding Characters 160-191

```

00100 *****
00110 *
00120 * CHR3216F.ASM
00130 * MDJ 2023/03/31
00140 *
00150 * THE FAKETEXT 32 X 16
00160 * CHARACTER SET FOR
00170 * PMODE 4
00180 *
00190 * EACH OF THE 255
00200 * CHARACTERS IS 8 BITS
00210 * (I.E. ONE BYTE) WIDE
00220 * AND TWELVE BYTES HIGH
00230 *
00240 * THIS FILE = CHARACTERS
00250 * CHR160 THROUGH CHR191
00260 *
00270 *****
00280
4E80          00290          ORG          $4E80
00300
00310 * CHARACTER 160 - AR06
00320 * = ARROW #06
4E80          FF          00330 CHR160   FCB          $FF
4E81          F7          00340          FCB          $F7
4E82          F7          00350          FCB          $F7
4E83          E3          00360          FCB          $E3
4E84          E3          00370          FCB          $E3
4E85          F7          00380          FCB          $F7
4E86          F7          00390          FCB          $F7
4E87          F7          00400          FCB          $F7
4E88          F7          00410          FCB          $F7
4E89          F7          00420          FCB          $F7
4E8A          EB          00430          FCB          $EB
4E8B          FF          00440          FCB          $FF
00450
00460 * CHARACTER 161 - AR07
00470 * = ARROW #07

```

4E8C	FF	00480	CHR161	FCB	\$FF
4E8D	F7	00490		FCB	\$F7
4E8E	F7	00500		FCB	\$F7
4E8F	E3	00510		FCB	\$E3
4E90	E3	00520		FCB	\$E3
4E91	F7	00530		FCB	\$F7
4E92	F7	00540		FCB	\$F7
4E93	F7	00550		FCB	\$F7
4E94	F7	00560		FCB	\$F7
4E95	F7	00570		FCB	\$F7
4E96	EB	00580		FCB	\$EB
4E97	FF	00590		FCB	\$FF
		00600			
		00610	* CHARACTER 162 - AR08		
		00620	* = ARROW #08		
4E98	FF	00630	CHR162	FCB	\$FF
4E99	F7	00640		FCB	\$F7
4E9A	F7	00650		FCB	\$F7
4E9B	E3	00660		FCB	\$E3
4E9C	E3	00670		FCB	\$E3
4E9D	F7	00680		FCB	\$F7
4E9E	F7	00690		FCB	\$F7
4E9F	F7	00700		FCB	\$F7
4EA0	F7	00710		FCB	\$F7
4EA1	F7	00720		FCB	\$F7
4EA2	EB	00730		FCB	\$EB
4EA3	FF	00740		FCB	\$FF
		00750			
		00760	* CHARACTER 163 - AR09		
		00770	* = ARROW #09		
4EA4	FF	00780	CHR163	FCB	\$FF
4EA5	F7	00790		FCB	\$F7
4EA6	F7	00800		FCB	\$F7
4EA7	E3	00810		FCB	\$E3
4EA8	E3	00820		FCB	\$E3
4EA9	F7	00830		FCB	\$F7
4EAA	F7	00840		FCB	\$F7
4EAB	F7	00850		FCB	\$F7
4EAC	F7	00860		FCB	\$F7
4EAD	F7	00870		FCB	\$F7
4EAE	EB	00880		FCB	\$EB
4EAF	FF	00890		FCB	\$FF
		00900			
		00910	* CHARACTER 164 - AR10		
		00920	* = ARROW #10		
4EB0	FF	00930	CHR164	FCB	\$FF
4EB1	F7	00940		FCB	\$F7

4EB2	F7	00950	FCB	\$F7
4EB3	E3	00960	FCB	\$E3
4EB4	E3	00970	FCB	\$E3
4EB5	F7	00980	FCB	\$F7
4EB6	F7	00990	FCB	\$F7
4EB7	F7	01000	FCB	\$F7
4EB8	F7	01010	FCB	\$F7
4EB9	F7	01020	FCB	\$F7
4EBA	EB	01030	FCB	\$EB
4EBB	FF	01040	FCB	\$FF
		01050		
		01060	* CHARACTER 165 - AR11	
		01070	* = ARROW #11	
4EBC	FF	01080	CHR165	FCB \$FF
4EBD	F7	01090	FCB	\$F7
4EBE	F7	01100	FCB	\$F7
4EBF	E3	01110	FCB	\$E3
4EC0	E3	01120	FCB	\$E3
4EC1	F7	01130	FCB	\$F7
4EC2	F7	01140	FCB	\$F7
4EC3	F7	01150	FCB	\$F7
4EC4	F7	01160	FCB	\$F7
4EC5	F7	01170	FCB	\$F7
4EC6	EB	01180	FCB	\$EB
4EC7	FF	01190	FCB	\$FF
		01200		
		01210	* CHARACTER 166 - AR12	
		01220	* = ARROW #12	
4EC8	FF	01230	CHR166	FCB \$FF
4EC9	F7	01240	FCB	\$F7
4ECA	F7	01250	FCB	\$F7
4ECB	E3	01260	FCB	\$E3
4ECC	E3	01270	FCB	\$E3
4ECD	F7	01280	FCB	\$F7
4ECE	F7	01290	FCB	\$F7
4ECF	F7	01300	FCB	\$F7
4ED0	F7	01310	FCB	\$F7
4ED1	F7	01320	FCB	\$F7
4ED2	EB	01330	FCB	\$EB
4ED3	FF	01340	FCB	\$FF
		01350		
		01360	* CHARACTER 167 - BK01	
		01370	* = BOOK #01	
		01380	* THE ENTIRE BIBLE	
4ED4	FF	01390	CHR167	FCB \$FF
4ED5	C1	01400	FCB	\$C1
4ED6	81	01410	FCB	\$81

4ED7	B9	01420	FCB	\$B9
4ED8	A9	01430	FCB	\$A9
4ED9	A9	01440	FCB	\$A9
4EDA	A9	01450	FCB	\$A9
4EDB	A9	01460	FCB	\$A9
4EDC	A9	01470	FCB	\$A9
4EDD	B9	01480	FCB	\$B9
4EDE	83	01490	FCB	\$83
4EDF	FF	01500	FCB	\$FF
		01510		
		01520	* CHARACTER 168 - BK02	
		01530	* = BOOK #02	
		01540	* HISTORY OF ROME	
		01550	* BY LIVY	
4EE0	FF	01560	CHR168 FCB	\$FF
4EE1	C1	01570	FCB	\$C1
4EE2	81	01580	FCB	\$81
4EE3	B9	01590	FCB	\$B9
4EE4	A9	01600	FCB	\$A9
4EE5	A9	01610	FCB	\$A9
4EE6	A9	01620	FCB	\$A9
4EE7	A9	01630	FCB	\$A9
4EE8	A9	01640	FCB	\$A9
4EE9	B9	01650	FCB	\$B9
4EEA	83	01660	FCB	\$83
4EEB	FF	01670	FCB	\$FF
		01680		
		01690	* CHARACTER 169 - BK03	
		01700	* = BOOK #03	
		01710	* ODESSEY	
		01720	* BY HOMER	
4EEC	FF	01730	CHR169 FCB	\$FF
4EED	C1	01740	FCB	\$C1
4EEE	81	01750	FCB	\$81
4EEF	B9	01760	FCB	\$B9
4EF0	A9	01770	FCB	\$A9
4EF1	A9	01780	FCB	\$A9
4EF2	A9	01790	FCB	\$A9
4EF3	A9	01800	FCB	\$A9
4EF4	A9	01810	FCB	\$A9
4EF5	B9	01820	FCB	\$B9
4EF6	83	01830	FCB	\$83
4EF7	FF	01840	FCB	\$FF
		01850		
		01860	* CHARACTER 170 - BK04	
		01870	* = BOOK #04	
		01880	* REPUBLIC	

		01890	* BY PLATO		
4EF8	FF	01900	CHR170	FCB	\$FF
4EF9	C1	01910		FCB	\$C1
4EFA	81	01920		FCB	\$81
4EFB	B9	01930		FCB	\$B9
4EFC	A9	01940		FCB	\$A9
4EFD	A9	01950		FCB	\$A9
4EFE	A9	01960		FCB	\$A9
4EFF	A9	01970		FCB	\$A9
4F00	A9	01980		FCB	\$A9
4F01	B9	01990		FCB	\$B9
4F02	83	02000		FCB	\$83
4F03	FF	02010		FCB	\$FF
		02020			
		02030	* CHARACTER 171		- BK05
		02040	* = BOOK #05		
		02050	* AENEID		
		02060	* BY VIRGIL		
4F04	FF	02070	CHR171	FCB	\$FF
4F05	C1	02080		FCB	\$C1
4F06	81	02090		FCB	\$81
4F07	B9	02100		FCB	\$B9
4F08	A9	02110		FCB	\$A9
4F09	A9	02120		FCB	\$A9
4F0A	A9	02130		FCB	\$A9
4F0B	A9	02140		FCB	\$A9
4F0C	A9	02150		FCB	\$A9
4F0D	B9	02160		FCB	\$B9
4F0E	83	02170		FCB	\$83
4F0F	FF	02180		FCB	\$FF
		02190			
		02200	* CHARACTER 172		- BK06
		02210	* = BOOK #06		
		02220	* METAMORPHOSES		
		02230	* BY OVID		
4F10	FF	02240	CHR172	FCB	\$FF
4F11	C1	02250		FCB	\$C1
4F12	81	02260		FCB	\$81
4F13	B9	02270		FCB	\$B9
4F14	A9	02280		FCB	\$A9
4F15	A9	02290		FCB	\$A9
4F16	A9	02300		FCB	\$A9
4F17	A9	02310		FCB	\$A9
4F18	A9	02320		FCB	\$A9
4F19	B9	02330		FCB	\$B9
4F1A	83	02340		FCB	\$83
4F1B	FF	02350		FCB	\$FF

		02360		
		02370	* CHARACTER 173 - BK07	
		02380	* = BOOK #07	
		02390	* AESOP'S FABLES	
		02400	* BY AESOP	
4F1C	FF	02410	CHR173 FCB	\$FF
4F1D	C1	02420	FCB	\$C1
4F1E	81	02430	FCB	\$81
4F1F	B9	02440	FCB	\$B9
4F20	A9	02450	FCB	\$A9
4F21	A9	02460	FCB	\$A9
4F22	A9	02470	FCB	\$A9
4F23	A9	02480	FCB	\$A9
4F24	A9	02490	FCB	\$A9
4F25	B9	02500	FCB	\$B9
4F26	83	02510	FCB	\$83
4F27	FF	02520	FCB	\$FF
		02530		
		02540	* CHARACTER 174 - BK08	
		02550	* = BOOK #08	
		02560	* APOLOGY	
		02570	* BY PLATO	
4F28	FF	02580	CHR174 FCB	\$FF
4F29	C1	02590	FCB	\$C1
4F2A	81	02600	FCB	\$81
4F2B	B9	02610	FCB	\$B9
4F2C	A9	02620	FCB	\$A9
4F2D	A9	02630	FCB	\$A9
4F2E	A9	02640	FCB	\$A9
4F2F	A9	02650	FCB	\$A9
4F30	A9	02660	FCB	\$A9
4F31	B9	02670	FCB	\$B9
4F32	83	02680	FCB	\$83
4F33	FF	02690	FCB	\$FF
		02700		
		02710	* CHARACTER 175 - BK09	
		02720	* = BOOK #09	
		02730	* UKYSSES	
		02740	* BY JAMES JOYCE	
4F34	FF	02750	CHR175 FCB	\$FF
4F35	C1	02760	FCB	\$C1
4F36	81	02770	FCB	\$81
4F37	B9	02780	FCB	\$B9
4F38	A9	02790	FCB	\$A9
4F39	A9	02800	FCB	\$A9
4F3A	A9	02810	FCB	\$A9
4F3B	A9	02820	FCB	\$A9

4F3C	A9	02830	FCB	\$A9
4F3D	B9	02840	FCB	\$B9
4F3E	83	02850	FCB	\$83
4F3F	FF	02860	FCB	\$FF
		02870		
		02880	* CHARACTER 176 - BK10	
		02890	* = BOOK #10	
		02900	* DON QUIXOTE	
		02910	* BY MIGUEL DE CERVANTES	
4F40	FF	02920	CHR176	FCB \$FF
4F41	C1	02930		FCB \$C1
4F42	81	02940		FCB \$81
4F43	B9	02950		FCB \$B9
4F44	A9	02960		FCB \$A9
4F45	A9	02970		FCB \$A9
4F46	A9	02980		FCB \$A9
4F47	A9	02990		FCB \$A9
4F48	A9	03000		FCB \$A9
4F49	B9	03010		FCB \$B9
4F4A	83	03020		FCB \$83
4F4B	FF	03030		FCB \$FF
		03040		
		03050	* CHARACTER 177 - BK11	
		03060	* = BOOK #11	
		03070	* MOBY DICK	
		03080	* BY HERMAN MELVILLE	
4F4C	FF	03090	CHR177	FCB \$FF
4F4D	C1	03100		FCB \$C1
4F4E	81	03110		FCB \$81
4F4F	B9	03120		FCB \$B9
4F50	A9	03130		FCB \$A9
4F51	A9	03140		FCB \$A9
4F52	A9	03150		FCB \$A9
4F53	A9	03160		FCB \$A9
4F54	A9	03170		FCB \$A9
4F55	B9	03180		FCB \$B9
4F56	83	03190		FCB \$83
4F57	FF	03200		FCB \$FF
		03210		
		03220	* CHARACTER 178 - BK12	
		03230	* = BOOK #12	
		03240	* WAR AND PEACE	
		03250	* BY LEO TOLSTOY	
4F58	FF	03260	CHR178	FCB \$FF
4F59	C1	03270		FCB \$C1
4F5A	81	03280		FCB \$81
4F5B	B9	03290		FCB \$B9

4F5C	A9	03300	FCB	\$A9
4F5D	A9	03310	FCB	\$A9
4F5E	A9	03320	FCB	\$A9
4F5F	A9	03330	FCB	\$A9
4F60	A9	03340	FCB	\$A9
4F61	B9	03350	FCB	\$B9
4F62	83	03360	FCB	\$83
4F63	FF	03370	FCB	\$FF
		03380		
		03390	* CHARACTER 179 - BK13	
		03400	* = BOOK #13	
		03410	* HAMLET	
		03420	* BY WILLIAM SHAKESPEARE	
4F64	FF	03430	CHR179 FCB	\$FF
4F65	C1	03440	FCB	\$C1
4F66	81	03450	FCB	\$81
4F67	B9	03460	FCB	\$B9
4F68	A9	03470	FCB	\$A9
4F69	A9	03480	FCB	\$A9
4F6A	A9	03490	FCB	\$A9
4F6B	A9	03500	FCB	\$A9
4F6C	A9	03510	FCB	\$A9
4F6D	B9	03520	FCB	\$B9
4F6E	83	03530	FCB	\$83
4F6F	FF	03540	FCB	\$FF
		03550		
		03560	* CHARACTER 180 - BK14	
		03570	* = BOOK #14	
		03580	* BROTHERS KARAMAZOV	
		03590	* BY FYODOR DOSTOYEVSKY	
4F70	FF	03600	CHR180 FCB	\$FF
4F71	C1	03610	FCB	\$C1
4F72	81	03620	FCB	\$81
4F73	B9	03630	FCB	\$B9
4F74	A9	03640	FCB	\$A9
4F75	A9	03650	FCB	\$A9
4F76	A9	03660	FCB	\$A9
4F77	A9	03670	FCB	\$A9
4F78	A9	03680	FCB	\$A9
4F79	B9	03690	FCB	\$B9
4F7A	83	03700	FCB	\$83
4F7B	FF	03710	FCB	\$FF
		03720		
		03730	* CHARACTER 181 - BK15	
		03740	* = BOOK #15	
		03750	* ADVENTURES OF	
		03760	* HUCKLEBERRY FINN	

		03770	* BY MARK TWAIN		
4F7C	FF	03780	CHR181	FCB	\$FF
4F7D	C1	03790		FCB	\$C1
4F7E	81	03800		FCB	\$81
4F7F	B9	03810		FCB	\$B9
4F80	A9	03820		FCB	\$A9
4F81	A9	03830		FCB	\$A9
4F82	A9	03840		FCB	\$A9
4F83	A9	03850		FCB	\$A9
4F84	A9	03860		FCB	\$A9
4F85	B9	03870		FCB	\$B9
4F86	83	03880		FCB	\$83
4F87	FF	03890		FCB	\$FF
		03900			
		03910	* CHARACTER 182 - DC01		
		03920	* = DOCUMENT #01		
		03930	* GENESIS		
4F88	FF	03940	CHR182	FCB	\$FF
4F89	FF	03950		FCB	\$FF
4F8A	83	03960		FCB	\$83
4F8B	BB	03970		FCB	\$BB
4F8C	BB	03980		FCB	\$BB
4F8D	AB	03990		FCB	\$AB
4F8E	AB	04000		FCB	\$AB
4F8F	AB	04010		FCB	\$AB
4F90	BB	04020		FCB	\$BB
4F91	BB	04030		FCB	\$BB
4F92	83	04040		FCB	\$83
4F93	FF	04050		FCB	\$FF
		04060			
		04070	* CHARACTER 183 - DC02		
		04080	* = DOCUMENT #02		
		04090	* EXODUS		
4F94	FF	04100	CHR183	FCB	\$FF
4F95	FF	04110		FCB	\$FF
4F96	83	04120		FCB	\$83
4F97	BB	04130		FCB	\$BB
4F98	BB	04140		FCB	\$BB
4F99	AB	04150		FCB	\$AB
4F9A	AB	04160		FCB	\$AB
4F9B	AB	04170		FCB	\$AB
4F9C	BB	04180		FCB	\$BB
4F9D	BB	04190		FCB	\$BB
4F9E	83	04200		FCB	\$83
4F9F	FF	04210		FCB	\$FF
		04220			
		04230	* CHARACTER 184 - DC03		

		04240	* = DOCUMENT #03		
		04250	* LEVITICUS		
4FA0	FF	04260	CHR184	FCB	\$FF
4FA1	FF	04270		FCB	\$FF
4FA2	83	04280		FCB	\$83
4FA3	BB	04290		FCB	\$BB
4FA4	BB	04300		FCB	\$BB
4FA5	AB	04310		FCB	\$AB
4FA6	AB	04320		FCB	\$AB
4FA7	AB	04330		FCB	\$AB
4FA8	BB	04340		FCB	\$BB
4FA9	BB	04350		FCB	\$BB
4FAA	83	04360		FCB	\$83
4FAB	FF	04370		FCB	\$FF
		04380			
		04390	* CHARACTER 185 - DC04		
		04400	* = DOCUMENT #04		
		04410	* NUMBERS		
4FAC	FF	04420	CHR185	FCB	\$FF
4FAD	FF	04430		FCB	\$FF
4FAE	83	04440		FCB	\$83
4FAF	BB	04450		FCB	\$BB
4FB0	BB	04460		FCB	\$BB
4FB1	AB	04470		FCB	\$AB
4FB2	AB	04480		FCB	\$AB
4FB3	AB	04490		FCB	\$AB
4FB4	BB	04500		FCB	\$BB
4FB5	BB	04510		FCB	\$BB
4FB6	83	04520		FCB	\$83
4FB7	FF	04530		FCB	\$FF
		04540			
		04550	* CHARACTER 186 - DC05		
		04560	* = DOCUMENT #05		
		04570	* DEUTERONOMY		
4FB8	FF	04580	CHR186	FCB	\$FF
4FB9	FF	04590		FCB	\$FF
4FBA	83	04600		FCB	\$83
4FBB	BB	04610		FCB	\$BB
4FBC	BB	04620		FCB	\$BB
4FBD	AB	04630		FCB	\$AB
4FBE	AB	04640		FCB	\$AB
4FBF	AB	04650		FCB	\$AB
4FC0	BB	04660		FCB	\$BB
4FC1	BB	04670		FCB	\$BB
4FC2	83	04680		FCB	\$83
4FC3	FF	04690		FCB	\$FF
		04700			

		04710	*	CHARACTER 187 - DC06	
		04720	*	= DOCUMENT #06	
		04730	*	JOSHUA	
4FC4	FF	04740	CHR187	FCB	\$FF
4FC5	FF	04750		FCB	\$FF
4FC6	83	04760		FCB	\$83
4FC7	BB	04770		FCB	\$BB
4FC8	BB	04780		FCB	\$BB
4FC9	AB	04790		FCB	\$AB
4FCA	AB	04800		FCB	\$AB
4FCB	AB	04810		FCB	\$AB
4FCC	BB	04820		FCB	\$BB
4FCD	BB	04830		FCB	\$BB
4FCE	83	04840		FCB	\$83
4FCF	FF	04850		FCB	\$FF
		04860			
		04870	*	CHARACTER 188 - DC07	
		04880	*	= DOCUMENT #07	
		04890	*	JUDGES	
4FD0	FF	04900	CHR188	FCB	\$FF
4FD1	FF	04910		FCB	\$FF
4FD2	83	04920		FCB	\$83
4FD3	BB	04930		FCB	\$BB
4FD4	BB	04940		FCB	\$BB
4FD5	AB	04950		FCB	\$AB
4FD6	AB	04960		FCB	\$AB
4FD7	AB	04970		FCB	\$AB
4FD8	BB	04980		FCB	\$BB
4FD9	BB	04990		FCB	\$BB
4FDA	83	05000		FCB	\$83
4FDB	FF	05010		FCB	\$FF
		05020			
		05030	*	CHARACTER 189 - DC08	
		05040	*	= DOCUMENT #08	
		05050	*	RUTH	
4FDC	FF	05060	CHR189	FCB	\$FF
4FDD	FF	05070		FCB	\$FF
4FDE	83	05080		FCB	\$83
4FDF	BB	05090		FCB	\$BB
4FE0	BB	05100		FCB	\$BB
4FE1	AB	05110		FCB	\$AB
4FE2	AB	05120		FCB	\$AB
4FE3	AB	05130		FCB	\$AB
4FE4	BB	05140		FCB	\$BB
4FE5	BB	05150		FCB	\$BB
4FE6	83	05160		FCB	\$83
4FE7	FF	05170		FCB	\$FF

```

05180
05190 * CHARACTER 190 - DC09
05200 * = DOCUMENT #09
05210 * 1 SAMUEL
4FE8      FF      05220 CHR190  FCB      $FF
4FE9      FF      05230          FCB      $FF
4FEA      83      05240          FCB      $83
4FEB      BB      05250          FCB      $BB
4FEC      BB      05260          FCB      $BB
4FED      AB      05270          FCB      $AB
4FEE      AB      05280          FCB      $AB
4FEF      AB      05290          FCB      $AB
4FF0      BB      05300          FCB      $BB
4FF1      BB      05310          FCB      $BB
4FF2      83      05320          FCB      $83
4FF3      FF      05330          FCB      $FF
05340
05350 * CHARACTER 191 - DC10
05360 * = DOCUMENT #10
05370 * 2 SAMUEL
4FF4      FF      05380 CHR191  FCB      $FF
4FF5      FF      05390          FCB      $FF
4FF6      83      05400          FCB      $83
4FF7      BB      05410          FCB      $BB
4FF8      BB      05420          FCB      $BB
4FF9      AB      05430          FCB      $AB
4FFA      AB      05440          FCB      $AB
4FFB      AB      05450          FCB      $AB
4FFC      BB      05460          FCB      $BB
4FFD      BB      05470          FCB      $BB
4FFE      83      05480          FCB      $83
4FFF      FF      05490 ENDCHK  FCB      $FF
0000      05500          END

```

For testing, see the Fake Text Testing Chapter below.

=====

Fake Text Character Set Character Encoding Characters 192-223

```

00100 *****
00110 *
00120 * CHR3216G.ASM
00130 * MDJ 2023/03/31
00140 *
00150 * THE FAKETEXT 32 X 16
00160 * CHARACTER SET FOR
00170 * PMODE 4
00180 *
00190 * EACH OF THE 255
00200 * CHARACTERS IS 8 BITS
00210 * (I.E. ONE BYTE) WIDE
00220 * AND TWELVE BYTES HIGH
00230 *
00240 * THIS FILE = CHARACTERS
00250 * CHR192 THROUGH CHR223
00260 *
00270 *****
00280
5000          00290          ORG          $5000
00300
00310 * CHARACTER 192 - DC11
00320 * = DOCUMENT #11
00330 * 1 KINGS
5000          FF          00340 CHR192  FCB          $FF
5001          FF          00350          FCB          $FF
5002          83          00360          FCB          $83
5003          BB          00370          FCB          $BB
5004          BB          00380          FCB          $BB
5005          AB          00390          FCB          $AB
5006          AB          00400          FCB          $AB
5007          AB          00410          FCB          $AB
5008          BB          00420          FCB          $BB
5009          BB          00430          FCB          $BB
500A          83          00440          FCB          $83
500B          FF          00450          FCB          $FF
00460
00470 * CHARACTER 193 - DC12

```


		00480	*	=	DOCUMENT	#12		
		00490	*		2	KINGS		
500C	FF	00500	CHR193	FCB			\$FF	
500D	FF	00510		FCB			\$FF	
500E	83	00520		FCB			\$83	
500F	BB	00530		FCB			\$BB	
5010	BB	00540		FCB			\$BB	
5011	AB	00550		FCB			\$AB	
5012	AB	00560		FCB			\$AB	
5013	AB	00570		FCB			\$AB	
5014	BB	00580		FCB			\$BB	
5015	BB	00590		FCB			\$BB	
5016	83	00600		FCB			\$83	
5017	FF	00610		FCB			\$FF	
		00620						
		00630	*		CHARACTER	194	-	DC13
		00640	*	=	DOCUMENT	#13		
		00650	*		1	CHRONICLES		
5018	FF	00660	CHR194	FCB			\$FF	
5019	FF	00670		FCB			\$FF	
501A	83	00680		FCB			\$83	
501B	BB	00690		FCB			\$BB	
501C	BB	00700		FCB			\$BB	
501D	AB	00710		FCB			\$AB	
501E	AB	00720		FCB			\$AB	
501F	AB	00730		FCB			\$AB	
5020	BB	00740		FCB			\$BB	
5021	BB	00750		FCB			\$BB	
5022	83	00760		FCB			\$83	
5023	FF	00770		FCB			\$FF	
		00780						
		00790	*		CHARACTER	195	-	DC14
		00800	*	=	DOCUMENT	#14		
		00810	*		2	CHRONICLES		
5024	FF	00820	CHR195	FCB			\$FF	
5025	FF	00830		FCB			\$FF	
5026	83	00840		FCB			\$83	
5027	BB	00850		FCB			\$BB	
5028	BB	00860		FCB			\$BB	
5029	AB	00870		FCB			\$AB	
502A	AB	00880		FCB			\$AB	
502B	AB	00890		FCB			\$AB	
502C	BB	00900		FCB			\$BB	
502D	BB	00910		FCB			\$BB	
502E	83	00920		FCB			\$83	
502F	FF	00930		FCB			\$FF	
		00940						

		00950	*	CHARACTER 196 - DC15	
		00960	*	= DOCUMENT #15	
		00970	*	EZRA	
5030	FF	00980	CHR196	FCB	\$FF
5031	FF	00990		FCB	\$FF
5032	83	01000		FCB	\$83
5033	BB	01010		FCB	\$BB
5034	BB	01020		FCB	\$BB
5035	AB	01030		FCB	\$AB
5036	AB	01040		FCB	\$AB
5037	AB	01050		FCB	\$AB
5038	BB	01060		FCB	\$BB
5039	BB	01070		FCB	\$BB
503A	83	01080		FCB	\$83
503B	FF	01090		FCB	\$FF
		01100			
		01110	*	CHARACTER 197 - DC16	
		01120	*	= DOCUMENT #16	
		01130	*	NEHEMIAH	
503C	FF	01140	CHR197	FCB	\$FF
503D	FF	01150		FCB	\$FF
503E	83	01160		FCB	\$83
503F	BB	01170		FCB	\$BB
5040	BB	01180		FCB	\$BB
5041	AB	01190		FCB	\$AB
5042	AB	01200		FCB	\$AB
5043	AB	01210		FCB	\$AB
5044	BB	01220		FCB	\$BB
5045	BB	01230		FCB	\$BB
5046	83	01240		FCB	\$83
5047	FF	01250		FCB	\$FF
		01260			
		01270	*	CHARACTER 198 - DC17	
		01280	*	= DOCUMENT #17	
		01290	*	ESTHER	
5048	FF	01300	CHR198	FCB	\$FF
5049	FF	01310		FCB	\$FF
504A	83	01320		FCB	\$83
504B	BB	01330		FCB	\$BB
504C	BB	01340		FCB	\$BB
504D	AB	01350		FCB	\$AB
504E	AB	01360		FCB	\$AB
504F	AB	01370		FCB	\$AB
5050	BB	01380		FCB	\$BB
5051	BB	01390		FCB	\$BB
5052	83	01400		FCB	\$83
5053	FF	01410		FCB	\$FF

		01420			
		01430	* CHARACTER 199 - DC18		
		01440	* = DOCUMENT #18		
		01450	* JOB		
5054	FF	01460	CHR199	FCB	\$FF
5055	FF	01470		FCB	\$FF
5056	83	01480		FCB	\$83
5057	BB	01490		FCB	\$BB
5058	BB	01500		FCB	\$BB
5059	AB	01510		FCB	\$AB
505A	AB	01520		FCB	\$AB
505B	AB	01530		FCB	\$AB
505C	BB	01540		FCB	\$BB
505D	BB	01550		FCB	\$BB
505E	83	01560		FCB	\$83
505F	FF	01570		FCB	\$FF
		01580			
		01590	* CHARACTER 200 - DC19		
		01600	* = DOCUMENT #19		
		01610	* PSALMS		
5060	FF	01620	CHR200	FCB	\$FF
5061	FF	01630		FCB	\$FF
5062	83	01640		FCB	\$83
5063	BB	01650		FCB	\$BB
5064	BB	01660		FCB	\$BB
5065	AB	01670		FCB	\$AB
5066	AB	01680		FCB	\$AB
5067	AB	01690		FCB	\$AB
5068	BB	01700		FCB	\$BB
5069	BB	01710		FCB	\$BB
506A	83	01720		FCB	\$83
506B	FF	01730		FCB	\$FF
		01740			
		01750	* CHARACTER 201 - DC20		
		01760	* = DOCUMENT #20		
		01770	* PROVERBS		
506C	FF	01780	CHR201	FCB	\$FF
506D	FF	01790		FCB	\$FF
506E	83	01800		FCB	\$83
506F	BB	01810		FCB	\$BB
5070	BB	01820		FCB	\$BB
5071	AB	01830		FCB	\$AB
5072	AB	01840		FCB	\$AB
5073	AB	01850		FCB	\$AB
5074	BB	01860		FCB	\$BB
5075	BB	01870		FCB	\$BB
5076	83	01880		FCB	\$83

5077	FF	01890	FCB	\$FF
		01900		
		01910	* CHARACTER 202 - DC21	
		01920	* = DOCUMENT #21	
		01930	* ECCLESIASTES	
5078	FF	01940	CHR202 FCB	\$FF
5079	FF	01950	FCB	\$FF
507A	83	01960	FCB	\$83
507B	BB	01970	FCB	\$BB
507C	BB	01980	FCB	\$BB
507D	AB	01990	FCB	\$AB
507E	AB	02000	FCB	\$AB
507F	AB	02010	FCB	\$AB
5080	BB	02020	FCB	\$BB
5081	BB	02030	FCB	\$BB
5082	83	02040	FCB	\$83
5083	FF	02050	FCB	\$FF
		02060		
		02070	* CHARACTER 203 - DC22	
		02080	* = DOCUMENT #22	
		02090	* SONG OF SOLOMON	
5084	FF	02100	CHR203 FCB	\$FF
5085	FF	02110	FCB	\$FF
5086	83	02120	FCB	\$83
5087	BB	02130	FCB	\$BB
5088	BB	02140	FCB	\$BB
5089	AB	02150	FCB	\$AB
508A	AB	02160	FCB	\$AB
508B	AB	02170	FCB	\$AB
508C	BB	02180	FCB	\$BB
508D	BB	02190	FCB	\$BB
508E	83	02200	FCB	\$83
508F	FF	02210	FCB	\$FF
		02220		
		02230	* CHARACTER 204 - DC23	
		02240	* = DOCUMENT #23	
		02250	* ISAIAH	
5090	FF	02260	CHR204 FCB	\$FF
5091	FF	02270	FCB	\$FF
5092	83	02280	FCB	\$83
5093	BB	02290	FCB	\$BB
5094	BB	02300	FCB	\$BB
5095	AB	02310	FCB	\$AB
5096	AB	02320	FCB	\$AB
5097	AB	02330	FCB	\$AB
5098	BB	02340	FCB	\$BB
5099	BB	02350	FCB	\$BB

509A	83	02360	FCB	\$83
509B	FF	02370	FCB	\$FF
		02380		
		02390	* CHARACTER 205 - DC24	
		02400	* = DOCUMENT #24	
		02410	* JEREMIAH	
509C	FF	02420	CHR205 FCB	\$FF
509D	FF	02430	FCB	\$FF
509E	83	02440	FCB	\$83
509F	BB	02450	FCB	\$BB
50A0	BB	02460	FCB	\$BB
50A1	AB	02470	FCB	\$AB
50A2	AB	02480	FCB	\$AB
50A3	AB	02490	FCB	\$AB
50A4	BB	02500	FCB	\$BB
50A5	BB	02510	FCB	\$BB
50A6	83	02520	FCB	\$83
50A7	FF	02530	FCB	\$FF
		02540		
		02550	* CHARACTER 206 - DC25	
		02560	* = DOCUMENT #25	
		02570	* LAMENTATIONS	
50A8	FF	02580	CHR206 FCB	\$FF
50A9	FF	02590	FCB	\$FF
50AA	83	02600	FCB	\$83
50AB	BB	02610	FCB	\$BB
50AC	BB	02620	FCB	\$BB
50AD	AB	02630	FCB	\$AB
50AE	AB	02640	FCB	\$AB
50AF	AB	02650	FCB	\$AB
50B0	BB	02660	FCB	\$BB
50B1	BB	02670	FCB	\$BB
50B2	83	02680	FCB	\$83
50B3	FF	02690	FCB	\$FF
		02700		
		02710	* CHARACTER 207 - DC26	
		02720	* = DOCUMENT #26	
		02730	* EZEKIEL	
50B4	FF	02740	CHR207 FCB	\$FF
50B5	FF	02750	FCB	\$FF
50B6	83	02760	FCB	\$83
50B7	BB	02770	FCB	\$BB
50B8	BB	02780	FCB	\$BB
50B9	AB	02790	FCB	\$AB
50BA	AB	02800	FCB	\$AB
50BB	AB	02810	FCB	\$AB
50BC	BB	02820	FCB	\$BB

50BD	BB	02830	FCB	\$BB
50BE	83	02840	FCB	\$83
50BF	FF	02850	FCB	\$FF
		02860		
		02870	* CHARACTER 208 - DC27	
		02880	* = DOCUMENT #27	
		02890	* DANIEL	
50C0	FF	02900	CHR208 FCB	\$FF
50C1	FF	02910	FCB	\$FF
50C2	83	02920	FCB	\$83
50C3	BB	02930	FCB	\$BB
50C4	BB	02940	FCB	\$BB
50C5	AB	02950	FCB	\$AB
50C6	AB	02960	FCB	\$AB
50C7	AB	02970	FCB	\$AB
50C8	BB	02980	FCB	\$BB
50C9	BB	02990	FCB	\$BB
50CA	83	03000	FCB	\$83
50CB	FF	03010	FCB	\$FF
		03020		
		03030	* CHARACTER 209 - DC28	
		03040	* = DOCUMENT #28	
		03050	* HOSEA	
50CC	FF	03060	CHR209 FCB	\$FF
50CD	FF	03070	FCB	\$FF
50CE	83	03080	FCB	\$83
50CF	BB	03090	FCB	\$BB
50D0	BB	03100	FCB	\$BB
50D1	AB	03110	FCB	\$AB
50D2	AB	03120	FCB	\$AB
50D3	AB	03130	FCB	\$AB
50D4	BB	03140	FCB	\$BB
50D5	BB	03150	FCB	\$BB
50D6	83	03160	FCB	\$83
50D7	FF	03170	FCB	\$FF
		03180		
		03190	* CHARACTER 210 - DC29	
		03200	* = DOCUMENT #29	
		03210	* JOEL	
50D8	FF	03220	CHR210 FCB	\$FF
50D9	FF	03230	FCB	\$FF
50DA	83	03240	FCB	\$83
50DB	BB	03250	FCB	\$BB
50DC	BB	03260	FCB	\$BB
50DD	AB	03270	FCB	\$AB
50DE	AB	03280	FCB	\$AB
50DF	AB	03290	FCB	\$AB

50E0	BB	03300	FCB	\$BB
50E1	BB	03310	FCB	\$BB
50E2	83	03320	FCB	\$83
50E3	FF	03330	FCB	\$FF
		03340		
		03350	* CHARACTER 211 - DC30	
		03360	* = DOCUMENT #30	
		03370	* AMOS	
50E4	FF	03380	CHR211 FCB	\$FF
50E5	FF	03390	FCB	\$FF
50E6	83	03400	FCB	\$83
50E7	BB	03410	FCB	\$BB
50E8	BB	03420	FCB	\$BB
50E9	AB	03430	FCB	\$AB
50EA	AB	03440	FCB	\$AB
50EB	AB	03450	FCB	\$AB
50EC	BB	03460	FCB	\$BB
50ED	BB	03470	FCB	\$BB
50EE	83	03480	FCB	\$83
50EF	FF	03490	FCB	\$FF
		03500		
		03510	* CHARACTER 212 - DC31	
		03520	* = DOCUMENT #31	
		03530	* OBADIAH	
50F0	FF	03540	CHR212 FCB	\$FF
50F1	FF	03550	FCB	\$FF
50F2	83	03560	FCB	\$83
50F3	BB	03570	FCB	\$BB
50F4	BB	03580	FCB	\$BB
50F5	AB	03590	FCB	\$AB
50F6	AB	03600	FCB	\$AB
50F7	AB	03610	FCB	\$AB
50F8	BB	03620	FCB	\$BB
50F9	BB	03630	FCB	\$BB
50FA	83	03640	FCB	\$83
50FB	FF	03650	FCB	\$FF
		03660		
		03670	* CHARACTER 213 - DC32	
		03680	* = DOCUMENT #32	
		03690	* JONAH	
50FC	FF	03700	CHR213 FCB	\$FF
50FD	FF	03710	FCB	\$FF
50FE	83	03720	FCB	\$83
50FF	BB	03730	FCB	\$BB
5100	BB	03740	FCB	\$BB
5101	AB	03750	FCB	\$AB
5102	AB	03760	FCB	\$AB

5103	AB	03770	FCB	\$AB
5104	BB	03780	FCB	\$BB
5105	BB	03790	FCB	\$BB
5106	83	03800	FCB	\$83
5107	FF	03810	FCB	\$FF
		03820		
		03830	* CHARACTER 214 - DC33	
		03840	* = DOCUMENT #33	
		03850	* MICAH	
5108	FF	03860	CHR214 FCB	\$FF
5109	FF	03870	FCB	\$FF
510A	83	03880	FCB	\$83
510B	BB	03890	FCB	\$BB
510C	BB	03900	FCB	\$BB
510D	AB	03910	FCB	\$AB
510E	AB	03920	FCB	\$AB
510F	AB	03930	FCB	\$AB
5110	BB	03940	FCB	\$BB
5111	BB	03950	FCB	\$BB
5112	83	03960	FCB	\$83
5113	FF	03970	FCB	\$FF
		03980		
		03990	* CHARACTER 215 - DC34	
		04000	* = DOCUMENT #34	
		04010	* NAHUM	
5114	FF	04020	CHR215 FCB	\$FF
5115	FF	04030	FCB	\$FF
5116	83	04040	FCB	\$83
5117	BB	04050	FCB	\$BB
5118	BB	04060	FCB	\$BB
5119	AB	04070	FCB	\$AB
511A	AB	04080	FCB	\$AB
511B	AB	04090	FCB	\$AB
511C	BB	04100	FCB	\$BB
511D	BB	04110	FCB	\$BB
511E	83	04120	FCB	\$83
511F	FF	04130	FCB	\$FF
		04140		
		04150	* CHARACTER 216 - DC35	
		04160	* = DOCUMENT #35	
		04170	* HABAKKUK	
5120	FF	04180	CHR216 FCB	\$FF
5121	FF	04190	FCB	\$FF
5122	83	04200	FCB	\$83
5123	BB	04210	FCB	\$BB
5124	BB	04220	FCB	\$BB
5125	AB	04230	FCB	\$AB

5126	AB	04240	FCB	\$AB
5127	AB	04250	FCB	\$AB
5128	BB	04260	FCB	\$BB
5129	BB	04270	FCB	\$BB
512A	83	04280	FCB	\$83
512B	FF	04290	FCB	\$FF
		04300		
		04310	* CHARACTER 217 - DC36	
		04320	* = DOCUMENT #36	
		04330	* ZEPHANIAH	
512C	FF	04340	CHR217 FCB	\$FF
512D	FF	04350	FCB	\$FF
512E	83	04360	FCB	\$83
512F	BB	04370	FCB	\$BB
5130	BB	04380	FCB	\$BB
5131	AB	04390	FCB	\$AB
5132	AB	04400	FCB	\$AB
5133	AB	04410	FCB	\$AB
5134	BB	04420	FCB	\$BB
5135	BB	04430	FCB	\$BB
5136	83	04440	FCB	\$83
5137	FF	04450	FCB	\$FF
		04460		
		04470	* CHARACTER 218 - DC37	
		04480	* = DOCUMENT #37	
		04490	* HAGGAI	
5138	FF	04500	CHR218 FCB	\$FF
5139	FF	04510	FCB	\$FF
513A	83	04520	FCB	\$83
513B	BB	04530	FCB	\$BB
513C	BB	04540	FCB	\$BB
513D	AB	04550	FCB	\$AB
513E	AB	04560	FCB	\$AB
513F	AB	04570	FCB	\$AB
5140	BB	04580	FCB	\$BB
5141	BB	04590	FCB	\$BB
5142	83	04600	FCB	\$83
5143	FF	04610	FCB	\$FF
		04620		
		04630	* CHARACTER 219 - DC38	
		04640	* = DOCUMENT #38	
		04650	* ZECHARIAH	
5144	FF	04660	CHR219 FCB	\$FF
5145	FF	04670	FCB	\$FF
5146	83	04680	FCB	\$83
5147	BB	04690	FCB	\$BB
5148	BB	04700	FCB	\$BB

5149	AB	04710	FCB	\$AB
514A	AB	04720	FCB	\$AB
514B	AB	04730	FCB	\$AB
514C	BB	04740	FCB	\$BB
514D	BB	04750	FCB	\$BB
514E	83	04760	FCB	\$83
514F	FF	04770	FCB	\$FF
		04780		
		04790	* CHARACTER 220 - DC39	
		04800	* = DOCUMENT #39	
		04810	* MALACHI	
5150	FF	04820	CHR220 FCB	\$FF
5151	FF	04830	FCB	\$FF
5152	83	04840	FCB	\$83
5153	BB	04850	FCB	\$BB
5154	BB	04860	FCB	\$BB
5155	AB	04870	FCB	\$AB
5156	AB	04880	FCB	\$AB
5157	AB	04890	FCB	\$AB
5158	BB	04900	FCB	\$BB
5159	BB	04910	FCB	\$BB
515A	83	04920	FCB	\$83
515B	FF	04930	FCB	\$FF
		04940		
		04950	* CHARACTER 221 - DC40	
		04960	* = DOCUMENT #40	
		04970	* MATTHEW	
515C	FF	04980	CHR221 FCB	\$FF
515D	FF	04990	FCB	\$FF
515E	83	05000	FCB	\$83
515F	BB	05010	FCB	\$BB
5160	BB	05020	FCB	\$BB
5161	AB	05030	FCB	\$AB
5162	AB	05040	FCB	\$AB
5163	AB	05050	FCB	\$AB
5164	BB	05060	FCB	\$BB
5165	BB	05070	FCB	\$BB
5166	83	05080	FCB	\$83
5167	FF	05090	FCB	\$FF
		05100		
		05110	* CHARACTER 222 - DC41	
		05120	* = DOCUMENT #41	
		05130	* MARK	
5168	FF	05140	CHR222 FCB	\$FF
5169	FF	05150	FCB	\$FF
516A	83	05160	FCB	\$83
516B	BB	05170	FCB	\$BB

516C	BB	05180	FCB	\$BB
516D	AB	05190	FCB	\$AB
516E	AB	05200	FCB	\$AB
516F	AB	05210	FCB	\$AB
5170	BB	05220	FCB	\$BB
5171	BB	05230	FCB	\$BB
5172	83	05240	FCB	\$83
5173	FF	05250	FCB	\$FF
		05260		
		05270	* CHARACTER 223 - DC42	
		05280	* = DOCUMENT #42	
		05290	* LUKE	
5174	FF	05300	CHR223 FCB	\$FF
5175	FF	05310	FCB	\$FF
5176	83	05320	FCB	\$83
5177	BB	05330	FCB	\$BB
5178	BB	05340	FCB	\$BB
5179	AB	05350	FCB	\$AB
517A	AB	05360	FCB	\$AB
517B	AB	05370	FCB	\$AB
517C	BB	05380	FCB	\$BB
517D	BB	05390	FCB	\$BB
517E	83	05400	FCB	\$83
517F	FF	05410	ENDCHK FCB	\$FF
	0000	05420	END	

For testing, see the Fake Text Testing Chapter below.

=====

Fake Text Character Set Character Encoding Characters 224-255

```

00100 *****
00110 *
00120 * CHR3216H.ASM
00130 * MDJ 2023/03/31
00140 *
00150 * THE FAKETEXT 32 X 16
00160 * CHARACTER SET FOR
00170 * PMODE 4
00180 *
00190 * EACH OF THE 255
00200 * CHARACTERS IS 8 BITS
00210 * (I.E. ONE BYTE) WIDE
00220 * AND TWELVE BYTES HIGH
00230 *
00240 * THIS FILE = CHARACTERS
00250 * CHR224 THROUGH CHR255
00260 *
00270 *****
00280
5180          00290          ORG          $5180
00300
00310 * CHARACTER 224 - DC43
00320 * = DOCUMENT #43
00330 * JOHN
5180          FF          00340 CHR224   FCB          $FF
5181          FF          00350          FCB          $FF
5182          83          00360          FCB          $83
5183          BB          00370          FCB          $BB
5184          BB          00380          FCB          $BB
5185          AB          00390          FCB          $AB
5186          AB          00400          FCB          $AB
5187          AB          00410          FCB          $AB
5188          BB          00420          FCB          $BB
5189          BB          00430          FCB          $BB
518A          83          00440          FCB          $83
518B          FF          00450          FCB          $FF
00460
00470 * CHARACTER 225 - DC44

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		00480	*	=	DOCUMENT	#44		
		00490	*		ACTS			
518C	FF	00500	CHR225	FCB		\$FF		
518D	FF	00510		FCB		\$FF		
518E	83	00520		FCB		\$83		
518F	BB	00530		FCB		\$BB		
5190	BB	00540		FCB		\$BB		
5191	AB	00550		FCB		\$AB		
5192	AB	00560		FCB		\$AB		
5193	AB	00570		FCB		\$AB		
5194	BB	00580		FCB		\$BB		
5195	BB	00590		FCB		\$BB		
5196	83	00600		FCB		\$83		
5197	FF	00610		FCB		\$FF		
		00620						
		00630	*		CHARACTER 226 - DC45			
		00640	*	=	DOCUMENT	#45		
		00650	*		ROMANS			
5198	FF	00660	CHR226	FCB		\$FF		
5199	FF	00670		FCB		\$FF		
519A	83	00680		FCB		\$83		
519B	BB	00690		FCB		\$BB		
519C	BB	00700		FCB		\$BB		
519D	AB	00710		FCB		\$AB		
519E	AB	00720		FCB		\$AB		
519F	AB	00730		FCB		\$AB		
51A0	BB	00740		FCB		\$BB		
51A1	BB	00750		FCB		\$BB		
51A2	83	00760		FCB		\$83		
51A3	FF	00770		FCB		\$FF		
		00780						
		00790	*		CHARACTER 227 - DC46			
		00800	*	=	DOCUMENT	#46		
		00810	*		1 CORINTHIANS			
51A4	FF	00820	CHR227	FCB		\$FF		
51A5	FF	00830		FCB		\$FF		
51A6	83	00840		FCB		\$83		
51A7	BB	00850		FCB		\$BB		
51A8	BB	00860		FCB		\$BB		
51A9	AB	00870		FCB		\$AB		
51AA	AB	00880		FCB		\$AB		
51AB	AB	00890		FCB		\$AB		
51AC	BB	00900		FCB		\$BB		
51AD	BB	00910		FCB		\$BB		
51AE	83	00920		FCB		\$83		
51AF	FF	00930		FCB		\$FF		
		00940						

		00950	*	CHARACTER 228 - DC47	
		00960	*	= DOCUMENT #47	
		00970	*	2 CORINTHIANS	
51B0	FF	00980	CHR228	FCB	\$FF
51B1	FF	00990		FCB	\$FF
51B2	83	01000		FCB	\$83
51B3	BB	01010		FCB	\$BB
51B4	BB	01020		FCB	\$BB
51B5	AB	01030		FCB	\$AB
51B6	AB	01040		FCB	\$AB
51B7	AB	01050		FCB	\$AB
51B8	BB	01060		FCB	\$BB
51B9	BB	01070		FCB	\$BB
51BA	83	01080		FCB	\$83
51BB	FF	01090		FCB	\$FF
		01100			
		01110	*	CHARACTER 229 - DC48	
		01120	*	= DOCUMENT #48	
		01130	*	GALATIANS	
51BC	FF	01140	CHR229	FCB	\$FF
51BD	FF	01150		FCB	\$FF
51BE	83	01160		FCB	\$83
51BF	BB	01170		FCB	\$BB
51C0	BB	01180		FCB	\$BB
51C1	AB	01190		FCB	\$AB
51C2	AB	01200		FCB	\$AB
51C3	AB	01210		FCB	\$AB
51C4	BB	01220		FCB	\$BB
51C5	BB	01230		FCB	\$BB
51C6	83	01240		FCB	\$83
51C7	FF	01250		FCB	\$FF
		01260			
		01270	*	CHARACTER 230 - DC49	
		01280	*	= DOCUMENT #49	
		01290	*	EPHESIANS	
51C8	FF	01300	CHR230	FCB	\$FF
51C9	FF	01310		FCB	\$FF
51CA	83	01320		FCB	\$83
51CB	BB	01330		FCB	\$BB
51CC	BB	01340		FCB	\$BB
51CD	AB	01350		FCB	\$AB
51CE	AB	01360		FCB	\$AB
51CF	AB	01370		FCB	\$AB
51D0	BB	01380		FCB	\$BB
51D1	BB	01390		FCB	\$BB
51D2	83	01400		FCB	\$83
51D3	FF	01410		FCB	\$FF

		01420			
		01430	* CHARACTER 231 - DC50		
		01440	* = DOCUMENT #50		
		01450	* PHILIPPIANS		
51D4	FF	01460	CHR231	FCB	\$FF
51D5	FF	01470		FCB	\$FF
51D6	83	01480		FCB	\$83
51D7	BB	01490		FCB	\$BB
51D8	BB	01500		FCB	\$BB
51D9	AB	01510		FCB	\$AB
51DA	AB	01520		FCB	\$AB
51DB	AB	01530		FCB	\$AB
51DC	BB	01540		FCB	\$BB
51DD	BB	01550		FCB	\$BB
51DE	83	01560		FCB	\$83
51DF	FF	01570		FCB	\$FF
		01580			
		01590	* CHARACTER 232 - DC51		
		01600	* = DOCUMENT #51		
		01610	* COLOSSIANS		
51E0	FF	01620	CHR232	FCB	\$FF
51E1	FF	01630		FCB	\$FF
51E2	83	01640		FCB	\$83
51E3	BB	01650		FCB	\$BB
51E4	BB	01660		FCB	\$BB
51E5	AB	01670		FCB	\$AB
51E6	AB	01680		FCB	\$AB
51E7	AB	01690		FCB	\$AB
51E8	BB	01700		FCB	\$BB
51E9	BB	01710		FCB	\$BB
51EA	83	01720		FCB	\$83
51EB	FF	01730		FCB	\$FF
		01740			
		01750	* CHARACTER 233 - DC52		
		01760	* = DOCUMENT #52		
		01770	* 1 THESSALONIANS		
51EC	FF	01780	CHR233	FCB	\$FF
51ED	FF	01790		FCB	\$FF
51EE	83	01800		FCB	\$83
51EF	BB	01810		FCB	\$BB
51F0	BB	01820		FCB	\$BB
51F1	AB	01830		FCB	\$AB
51F2	AB	01840		FCB	\$AB
51F3	AB	01850		FCB	\$AB
51F4	BB	01860		FCB	\$BB
51F5	BB	01870		FCB	\$BB
51F6	83	01880		FCB	\$83

51F7	FF	01890	FCB	\$FF
		01900		
		01910	* CHARACTER 234 - DC53	
		01920	* = DOCUMENT #53	
		01930	* 2 THESSALONIANS	
51F8	FF	01940	CHR234 FCB	\$FF
51F9	FF	01950	FCB	\$FF
51FA	83	01960	FCB	\$83
51FB	BB	01970	FCB	\$BB
51FC	BB	01980	FCB	\$BB
51FD	AB	01990	FCB	\$AB
51FE	AB	02000	FCB	\$AB
51FF	AB	02010	FCB	\$AB
5200	BB	02020	FCB	\$BB
5201	BB	02030	FCB	\$BB
5202	83	02040	FCB	\$83
5203	FF	02050	FCB	\$FF
		02060		
		02070	* CHARACTER 235 - DC54	
		02080	* = DOCUMENT #54	
		02090	* 1 TIMOTHY	
5204	FF	02100	CHR235 FCB	\$FF
5205	FF	02110	FCB	\$FF
5206	83	02120	FCB	\$83
5207	BB	02130	FCB	\$BB
5208	BB	02140	FCB	\$BB
5209	AB	02150	FCB	\$AB
520A	AB	02160	FCB	\$AB
520B	AB	02170	FCB	\$AB
520C	BB	02180	FCB	\$BB
520D	BB	02190	FCB	\$BB
520E	83	02200	FCB	\$83
520F	FF	02210	FCB	\$FF
		02220		
		02230	* CHARACTER 236 - DC55	
		02240	* = DOCUMENT #55	
		02250	* 2 TIMOTHY	
5210	FF	02260	CHR236 FCB	\$FF
5211	FF	02270	FCB	\$FF
5212	83	02280	FCB	\$83
5213	BB	02290	FCB	\$BB
5214	BB	02300	FCB	\$BB
5215	AB	02310	FCB	\$AB
5216	AB	02320	FCB	\$AB
5217	AB	02330	FCB	\$AB
5218	BB	02340	FCB	\$BB
5219	BB	02350	FCB	\$BB

521A	83	02360	FCB	\$83
521B	FF	02370	FCB	\$FF
		02380		
		02390	* CHARACTER 237 - DC56	
		02400	* = DOCUMENT #56	
		02410	* TITUS	
521C	FF	02420	CHR237 FCB	\$FF
521D	FF	02430	FCB	\$FF
521E	83	02440	FCB	\$83
521F	BB	02450	FCB	\$BB
5220	BB	02460	FCB	\$BB
5221	AB	02470	FCB	\$AB
5222	AB	02480	FCB	\$AB
5223	AB	02490	FCB	\$AB
5224	BB	02500	FCB	\$BB
5225	BB	02510	FCB	\$BB
5226	83	02520	FCB	\$83
5227	FF	02530	FCB	\$FF
		02540		
		02550	* CHARACTER 238 - DC57	
		02560	* = DOCUMENT #57	
		02570	* PHILEMON	
5228	FF	02580	CHR238 FCB	\$FF
5229	FF	02590	FCB	\$FF
522A	83	02600	FCB	\$83
522B	BB	02610	FCB	\$BB
522C	BB	02620	FCB	\$BB
522D	AB	02630	FCB	\$AB
522E	AB	02640	FCB	\$AB
522F	AB	02650	FCB	\$AB
5230	BB	02660	FCB	\$BB
5231	BB	02670	FCB	\$BB
5232	83	02680	FCB	\$83
5233	FF	02690	FCB	\$FF
		02700		
		02710	* CHARACTER 239 - DC58	
		02720	* = DOCUMENT #58	
		02730	* HEBREWS	
5234	FF	02740	CHR239 FCB	\$FF
5235	FF	02750	FCB	\$FF
5236	83	02760	FCB	\$83
5237	BB	02770	FCB	\$BB
5238	BB	02780	FCB	\$BB
5239	AB	02790	FCB	\$AB
523A	AB	02800	FCB	\$AB
523B	AB	02810	FCB	\$AB
523C	BB	02820	FCB	\$BB

523D	BB	02830	FCB	\$BB
523E	83	02840	FCB	\$83
523F	FF	02850	FCB	\$FF
		02860		
		02870	* CHARACTER 240 - DC59	
		02880	* = DOCUMENT #59	
		02890	* JAMES	
5240	FF	02900	CHR240 FCB	\$FF
5241	FF	02910	FCB	\$FF
5242	83	02920	FCB	\$83
5243	BB	02930	FCB	\$BB
5244	BB	02940	FCB	\$BB
5245	AB	02950	FCB	\$AB
5246	AB	02960	FCB	\$AB
5247	AB	02970	FCB	\$AB
5248	BB	02980	FCB	\$BB
5249	BB	02990	FCB	\$BB
524A	83	03000	FCB	\$83
524B	FF	03010	FCB	\$FF
		03020		
		03030	* CHARACTER 241 - DC60	
		03040	* = DOCUMENT #60	
		03050	* 1 PETER	
524C	FF	03060	CHR241 FCB	\$FF
524D	FF	03070	FCB	\$FF
524E	83	03080	FCB	\$83
524F	BB	03090	FCB	\$BB
5250	BB	03100	FCB	\$BB
5251	AB	03110	FCB	\$AB
5252	AB	03120	FCB	\$AB
5253	AB	03130	FCB	\$AB
5254	BB	03140	FCB	\$BB
5255	BB	03150	FCB	\$BB
5256	83	03160	FCB	\$83
5257	FF	03170	FCB	\$FF
		03180		
		03190	* CHARACTER 242 - DC61	
		03200	* = DOCUMENT #61	
		03210	* 2 PETER	
5258	FF	03220	CHR242 FCB	\$FF
5259	FF	03230	FCB	\$FF
525A	83	03240	FCB	\$83
525B	BB	03250	FCB	\$BB
525C	BB	03260	FCB	\$BB
525D	AB	03270	FCB	\$AB
525E	AB	03280	FCB	\$AB
525F	AB	03290	FCB	\$AB

5260	BB	03300	FCB	\$BB
5261	BB	03310	FCB	\$BB
5262	83	03320	FCB	\$83
5263	FF	03330	FCB	\$FF
		03340		
		03350	* CHARACTER 243 - DC62	
		03360	* = DOCUMENT #62	
		03370	* 1 JOHN	
5264	FF	03380	CHR243 FCB	\$FF
5265	FF	03390	FCB	\$FF
5266	83	03400	FCB	\$83
5267	BB	03410	FCB	\$BB
5268	BB	03420	FCB	\$BB
5269	AB	03430	FCB	\$AB
526A	AB	03440	FCB	\$AB
526B	AB	03450	FCB	\$AB
526C	BB	03460	FCB	\$BB
526D	BB	03470	FCB	\$BB
526E	83	03480	FCB	\$83
526F	FF	03490	FCB	\$FF
		03500		
		03510	* CHARACTER 244 - DC63	
		03520	* = DOCUMENT #63	
		03530	* 2 JOHN	
5270	FF	03540	CHR244 FCB	\$FF
5271	FF	03550	FCB	\$FF
5272	83	03560	FCB	\$83
5273	BB	03570	FCB	\$BB
5274	BB	03580	FCB	\$BB
5275	AB	03590	FCB	\$AB
5276	AB	03600	FCB	\$AB
5277	AB	03610	FCB	\$AB
5278	BB	03620	FCB	\$BB
5279	BB	03630	FCB	\$BB
527A	83	03640	FCB	\$83
527B	FF	03650	FCB	\$FF
		03660		
		03670	* CHARACTER 245 - DC64	
		03680	* = DOCUMENT #64	
		03690	* 3 JOHN	
527C	FF	03700	CHR245 FCB	\$FF
527D	FF	03710	FCB	\$FF
527E	83	03720	FCB	\$83
527F	BB	03730	FCB	\$BB
5280	BB	03740	FCB	\$BB
5281	AB	03750	FCB	\$AB
5282	AB	03760	FCB	\$AB

5283	AB	03770	FCB	\$AB
5284	BB	03780	FCB	\$BB
5285	BB	03790	FCB	\$BB
5286	83	03800	FCB	\$83
5287	FF	03810	FCB	\$FF
		03820		
		03830	* CHARACTER 246 - DC65	
		03840	* = DOCUMENT #65	
		03850	* JUDE	
5288	FF	03860	CHR246 FCB	\$FF
5289	FF	03870	FCB	\$FF
528A	83	03880	FCB	\$83
528B	BB	03890	FCB	\$BB
528C	BB	03900	FCB	\$BB
528D	AB	03910	FCB	\$AB
528E	AB	03920	FCB	\$AB
528F	AB	03930	FCB	\$AB
5290	BB	03940	FCB	\$BB
5291	BB	03950	FCB	\$BB
5292	83	03960	FCB	\$83
5293	FF	03970	FCB	\$FF
		03980		
		03990	* CHARACTER 247 - DC66	
		04000	* = DOCUMENT #66	
		04010	* REVELATION	
5294	FF	04020	CHR247 FCB	\$FF
5295	FF	04030	FCB	\$FF
5296	83	04040	FCB	\$83
5297	BB	04050	FCB	\$BB
5298	BB	04060	FCB	\$BB
5299	AB	04070	FCB	\$AB
529A	AB	04080	FCB	\$AB
529B	AB	04090	FCB	\$AB
529C	BB	04100	FCB	\$BB
529D	BB	04110	FCB	\$BB
529E	83	04120	FCB	\$83
529F	FF	04130	FCB	\$FF
		04140		
		04150	* CHARACTER 248 - DC67	
		04160	* = DOCUMENT #67	
		04170	* DECLARATION OF	
		04180	* INDEPENDENCE	
52A0	FF	04190	CHR248 FCB	\$FF
52A1	FF	04200	FCB	\$FF
52A2	83	04210	FCB	\$83
52A3	BB	04220	FCB	\$BB
52A4	BB	04230	FCB	\$BB

52A5	AB	04240	FCB	\$AB
52A6	AB	04250	FCB	\$AB
52A7	AB	04260	FCB	\$AB
52A8	BB	04270	FCB	\$BB
52A9	BB	04280	FCB	\$BB
52AA	83	04290	FCB	\$83
52AB	FF	04300	FCB	\$FF
		04310		
		04320	* CHARACTER 249 - DC68	
		04330	* = DOCUMENT #68	
		04340	* CONSTITUTION OF THE	
		04350	* UNITED STATES	
52AC	FF	04360	CHR249 FCB	\$FF
52AD	FF	04370	FCB	\$FF
52AE	83	04380	FCB	\$83
52AF	BB	04390	FCB	\$BB
52B0	BB	04400	FCB	\$BB
52B1	AB	04410	FCB	\$AB
52B2	AB	04420	FCB	\$AB
52B3	AB	04430	FCB	\$AB
52B4	BB	04440	FCB	\$BB
52B5	BB	04450	FCB	\$BB
52B6	83	04460	FCB	\$83
52B7	FF	04470	FCB	\$FF
		04480		
		04490	* CHARACTER 250 - DC69	
		04500	* = DOCUMENT #69	
		04510	* MAGNA CHARTA	
52B8	FF	04520	CHR250 FCB	\$FF
52B9	FF	04530	FCB	\$FF
52BA	83	04540	FCB	\$83
52BB	BB	04550	FCB	\$BB
52BC	BB	04560	FCB	\$BB
52BD	AB	04570	FCB	\$AB
52BE	AB	04580	FCB	\$AB
52BF	AB	04590	FCB	\$AB
52C0	BB	04600	FCB	\$BB
52C1	BB	04610	FCB	\$BB
52C2	83	04620	FCB	\$83
52C3	FF	04630	FCB	\$FF
		04640		
		04650	* CHARACTER 251 - DC70	
		04660	* = DOCUMENT #70	
		04670	* EMANCIPATION PROCLAMATION	
52C4	FF	04680	CHR251 FCB	\$FF
52C5	FF	04690	FCB	\$FF
52C6	83	04700	FCB	\$83

52C7	BB	04710	FCB	\$BB
52C8	BB	04720	FCB	\$BB
52C9	AB	04730	FCB	\$AB
52CA	AB	04740	FCB	\$AB
52CB	AB	04750	FCB	\$AB
52CC	BB	04760	FCB	\$BB
52CD	BB	04770	FCB	\$BB
52CE	83	04780	FCB	\$83
52CF	FF	04790	FCB	\$FF
		04800		
		04810	* CHARACTER 252 - BRAT	
		04820	* = BIG RIGHT ARROW TAIL	
52D0	FF	04830	CHR252	FCB \$FF
52D1	FF	04840		FCB \$FF
52D2	FF	04850		FCB \$FF
52D3	FF	04860		FCB \$FF
52D4	FF	04870		FCB \$FF
52D5	80	04880		FCB \$80
52D6	FF	04890		FCB \$FF
52D7	FF	04900		FCB \$FF
52D8	FF	04910		FCB \$FF
52D9	FF	04920		FCB \$FF
52DA	FF	04930		FCB \$FF
52DB	FF	04940		FCB \$FF
		04950		
		04960	* CHARACTER 253 - BRAH	
		04970	* = BIG RIGHT ARROW HEAD	
52DC	FF	04980	CHR253	FCB \$FF
52DD	DF	04990		FCB \$DF
52DE	EF	05000		FCB \$EF
52DF	F7	05010		FCB \$F7
52E0	FB	05020		FCB \$FB
52E1	01	05030		FCB \$01
52E2	FB	05040		FCB \$FB
52E3	F7	05050		FCB \$F7
52E4	EF	05060		FCB \$EF
52E5	DF	05070		FCB \$DF
52E6	FF	05080		FCB \$FF
52E7	FF	05090		FCB \$FF
		05100		
		05110	* CHARACTER 254 - SUPX	
		05120	* = SUPER-X	
52E8	18	05130	CHR254	FCB \$18
52E9	18	05140		FCB \$18
52EA	99	05150		FCB \$99
52EB	81	05160		FCB \$81
52EC	C3	05170		FCB \$C3

52ED	E7	05180	FCB	\$E7
52EE	E7	05190	FCB	\$E7
52EF	C3	05200	FCB	\$C3
52F0	81	05210	FCB	\$81
52F1	99	05220	FCB	\$99
52F2	18	05230	FCB	\$18
52F3	18	05240	FCB	\$18
		05250		
		05260	* CHARACTER 255	- SUPO
		05270	* = SUPER-O	
52F4	C3	05280	CHR255 FCB	\$C3
52F5	81	05290	FCB	\$81
52F6	18	05300	FCB	\$18
52F7	3C	05310	FCB	\$3C
52F8	3C	05320	FCB	\$3C
52F9	3C	05330	FCB	\$3C
52FA	3C	05340	FCB	\$3C
52FB	3C	05350	FCB	\$3C
52FC	3C	05360	FCB	\$3C
52FD	18	05370	FCB	\$18
52FE	81	05380	FCB	\$81
52FF	C3	05390	ENDCHK FCB	\$C3
	0000	05400	END	

For testing, see the Fake Text Testing Chapter below.

=====

PTFCHR: Put a Fake Text Character to the PMODE 4 Screen

The fourth stage of development was the PTFCHR Routine:

```

00100 *****
00110 *
00120 * PTFCHR.ASM
00130 * MDJ 2023/04/04
00140 *
00150 * THE FAKETEXT 32 X 16
00160 * CHARACTER SET FOR
00170 * PMODE 4
00180 *
00190 * EACH OF THE 255
00200 * CHARACTERS IS 8 BITS
00210 * (I.E. ONE BYTE) WIDE
00220 * AND TWELVE BYTES HIGH
00230 *
00240 * THIS FILE = THE SUBROUTINE
00250 * TO PUT A CHARACTER AT A
00260 * GIVEN POSITION ON THE
00270 * PMODE 4 SCREEN
00280 *
00290 * ENTRY CONDITIONS:
00300 * A = X-COORDINATE (0-31)
00310 * B = Y-COORDINATE (0-15)
00320 * X = CHARACTER CODE (0-255)
00330 *     EXTENDED TO 16-BITS
00340 *     I.E. ($0000 - $00FF)
00350 *
00360 * EXIT CONDITIONS
00370 * NONE
00380 *
00390 *****
00400
00BA    00410 BEGGRP  EQU    $00BA
4700    00420 CHR000 EQU    $4700
00430
5300    00440          ORG    $5300
00450
5300 7E  5307    00460 PTFCHR  JMP    LBL001
00470

```



```

00480 * HOLDING VARIABLES FOR
00490 * X - COORDINATE (REGA)
00500 * NOW AS 16-BITS
5303      00      00510 TEMPX1  FCB      $00
5304      00      00520 TEMPX2  RMB      1
00530
00540 * HOLDING VARIABLE FOR
00550 * Y - COORDINATE (REGB)
00560 * STILL AS 8-BITS
5305      00      00570 TEMPY   RMB      1
00580
00590 * HOLDING VARIABLE FOR
00600 * COLOR CODE (REGX)
00610 * NOW AS 8-BITS
5306      00      00620 TEMPC   RMB      1
00630
00640 * CONCEPT:
00650 * WITH THE (32 X 16)
00660 * = ($20 X $10) SCREEN,
00670 * EACH CHARACTER ENCODING
00680 * IS ONE BYTE WIDE AND
00690 * TWELVE BYTES HIGH; THUS
00700 * EACH LINE OF FAKE TEXT IS
00710 * LINEARLY 32 * 12 = 384
00720 * = $0180 BYTES LONG; AND,
00730 * THEREFORE, THE FAKE TEXT'S
00740 * LINEAR STARTING POSITION IS:
00750 *   (Y * $0180) + X
00760 * BUT 384 = $180 IS TOO LARGE
00770 * TO FIT INTO AN EIGHT-BIT
00780 * REGISTER, SO WE WILL INSTEAD
00790 * USE THE EQUIVALENT:
00800 *   ((Y * $02) * $C0) + X
00810 *
00820 *****
00830
00840 * SAVE THE X-COORDINATE
5307 B7      5304 00850 LBL001  STA      TEMPX2
00860
00870 * SAVE THE Y-COORDINATE
530A F7      5305 00880          STB      TEMPY
00890
00900 * SAVE THE COLOR CODE
530D 1F      10   00910          TFR      X,D
530F F7      5306 00920          STB      TEMPC
00930
00940 * MULTIPLY THE Y-COORDINATE

```

			00950	* BY \$02 AND THEN BY \$C0
5312	F6	5305	00960	LDB TEMPY
5315	58		00970	LSLB
5316	86	C0	00980	LDA #\$C0
5318	3D		00990	MUL
			01000	
			01010	* ADD THE X-COORDINATE
			01020	* AS 16-BITS
5319	F3	5303	01030	ADDD TEMPX1
			01040	
			01050	* ADD THE START ADDRESS
			01060	* OF THE PMODE 4 SCREEN
			01070	* AND TRANSFER RESULT TO
			01080	* INDEX REGISTER X
531C	D3	BA	01090	ADDD BEGGRP
531E	1F	01	01100	TFR D,X
			01110	
			01120	* GET THE CHARACTER CODE
5320	B6	5306	01130	LDA TEMPC
			01140	
			01150	* MULTIPLY IT BY 12
			01160	* = \$0C BYTES PER
			01170	* CHARACTER
5323	C6	0C	01180	LDB #\$0C
5325	3D		01190	MUL
			01200	
			01210	* ADD THE START ADDRESS
			01220	* OF THE ABOVE LIST OF
			01230	* CHARACTERS AND
			01240	* TRANSFER RESULT TO
			01250	* INDEX REGISTER Y
5326	C3	4700	01260	ADDD #CHR000
5329	1F	02	01270	TFR D,Y
			01280	
			01290	* PUT THE CHARACTER TO
			01300	* PMODE 4 SCREEN
532B	A6	A0	01310	LDA ,Y+
532D	A7	84	01320	STA ,X
532F	A6	A0	01330	LDA ,Y+
5331	A7	88 20	01340	STA \$20,X
5334	A6	A0	01350	LDA ,Y+
5336	A7	88 40	01360	STA \$40,X
5339	A6	A0	01370	LDA ,Y+
533B	A7	88 60	01380	STA \$60,X
533E	A6	A0	01390	LDA ,Y+
5340	A7	89 0080	01400	STA \$80,X
5344	A6	A0	01410	LDA ,Y+

```

5346 A7      89 00A0  01420      STA      $A0,X
534A A6      A0      01430      LDA      ,Y+
534C A7      89 00C0  01440      STA      $C0,X
5350 A6      A0      01450      LDA      ,Y+
5352 A7      89 00E0  01460      STA      $E0,X
5356 A6      A0      01470      LDA      ,Y+
5358 A7      89 0100  01480      STA      $0100,X
535C A6      A0      01490      LDA      ,Y+
535E A7      89 0120  01500      STA      $0120,X
5362 A6      A0      01510      LDA      ,Y+
5364 A7      89 0140  01520      STA      $0140,X
5368 A6      A0      01530      LDA      ,Y+
536A A7      89 0160  01540      STA      $0160,X
                    01550
                    01560 * EXIT
536E 39      0000      01570 ENDCHK  RTS
                    01580      END

```

For testing, see the Fake Text Testing Chapter below.

=====

CH3216FM.BAS: FileMaker Program

The fifth stage of development was the utility and testing routines.

CH3216FM combines the eight character-encoding files into one large file that can be loaded as a single entity.

```
1000 '*****
1010 '*
1020 '* CH3216FM.BAS
1030 '* MDJ 2023/03/31
1040 '*
1050 '* THE FAKETEXT 32 X 16
1060 '* CHARACTER SET FOR
1070 '* PMODE 4
1080 '*
1090 '* EACH OF THE 255
1100 '* CHARACTERS IS 8 BITS
1110 '* (I.E. ONE BYTE) WIDE
1120 '* AND TWELVE BYTES HIGH
1130 '*
1140 '* THIS IS THE FILEMAKER
1150 '* PROGRAM
1160 '*
1170 '*****
1180 '

1300 CLEAR 200, &H4000
1310 LOADM "CHR3216A.BIN"
1320 LOADM "CHR3216B.BIN"
1330 LOADM "CHR3216C.BIN"
1340 LOADM "CHR3216D.BIN"
1350 LOADM "CHR3216E.BIN"
1360 LOADM "CHR3216F.BIN"
1370 LOADM "CHR3216G.BIN"
1380 LOADM "CHR3216H.BIN"
1400 '

1500 SAVEM "CHR3216X.BIN", &H4700, &H52FF, &H4700
1510 '

32767 END
```

For testing, see the Fake Text Testing Chapter below.

=====

CHR3216T: Fake Text BASIC to ML Transfer Routine

```

00100 *****
00110 *
00120 * CHR3216T.ASM
00130 * MDJ 2023/04/04
00140 *
00150 * TRANSFER MECHANISM
00160 * FROM BASIC PROGRAMS
00170 * TO THE PTFCHR FAKETEXT
00180 * DISPLAY CHARACTER
00190 * ROUTINE
00200 *
00210 * USING THE
00220 * FAKETEXT 32 X 16
00230 * CHARACTER SET FOR
00240 * PMODE 4
00250 *
00260 * COORDINATES AND
00270 * CHARACTER CODE MUST
00280 * BE CHECKED FOR VALIDITY
00290 * IN THE CALLING BASIC
00300 * PROGRAM
00310 *
00320 *****
00330
5300 00340 PTFCHR EQU $5300
00350
7000 00360 ORG $7000
00370
00380 * TRANSFER VARIABLES:
00390
00400 * X-COORDINATE AT $7000 (0-31)
7000 00410 XCOORD RMB 1
00420
00430 * Y-COORDINATE AT $7001 (0-15)
7001 00440 YCOORD RMB 1
00450
00460 * CHARACTER CODE AT $7002 (0-255)
7002 00470 CHRCOD RMB 1

```

			00480
			00490 * EXECUTION ADDRESS AT \$7003
7003	34	16	00500 CTEXEC PSHS A,B,X
			00510
			00520 * LOAD THE CHARACTER CODE
7005	F6	7002	00530 LDB CHRCOD
7008	4F		00540 CLRA
7009	1F	01	00550 TFR D,X
			00560
			00570 * LOAD THE COORDINATES
700B	B6	7000	00580 LDA XCOORD
700E	F6	7001	00590 LDB YCOORD
			00600
			00610 * PUT CHARACTER TO SCREEN
7011	BD	5300	00620 JSR PTFCHR
			00630
			00640 * FINISH AND RETURN
7014	35	16	00650 PULS A,B,X
7016	39		00660 ENDCHK RTS
		0000	00670 END

For testing, see the Fake Text Testing Chapter below.

=====

CHRSTEST: Fake Text All-BASIC Test Routine

CHRSTEST calls PTFCHR 256 times (at line 4220 below) to display the entire character set. It's somewhat slow.

```
1000 '*****
1010 '*
1020 '* CHRSTEST.BAS
1030 '* MDJ 2023/04/04
1040 '*
1050 '* TEST PRINTS THE
1060 '* PMODE 4 FAKETEXT
1070 '* CHARACTER SET
1080 '*
1090 '*****
1110 '

2000 ' X = X-COORDINATE (0-31) TO &H7000
2010 ' Y = Y-COORDINATE (0-15) TO &H7001
2020 ' C = CHARACTER CODE (0-255) TO &H7002
2030 '

3000 ' LOAD THE ML ROUTINES
3010 CLEAR 200, &H4000
3020 LOADM "CHR3216X.BIN"
3030 LOADM "CHR3216T.BIN"
3040 LOADM "PTFCHR.BIN"
3050 '

3100 ' SET UP THE PMODE 4 SCREEN
3110 PCLEAR 4
3120 PMODE 4,1
3130 PCLS 1
3140 SCREEN 1,0
3150 '

4000 ' SETUP FOR ROLLOVER ON
4010 ' FIRST ITERATION
4020 X = -1
4030 Y = 0
```



```
4040 '
4100 ' DISPLAY THE CHARACTER SET
4110 FOR C = 0 TO 255
4120   X = X + 1
4130   IF X < 32 GOTO 4190
4140     X = 0
4150     Y = Y + 1
4160     IF Y < 16 GOTO 4190
4170       GOTO 4310
4180   ' DISPLAY THE CHARACTER
4190   POKE &H7000, X
4200   POKE &H7001, Y
4210   POKE &H7002, C
4220   EXEC &H7003
4230 NEXT 'C
4240 '

4300 ' HOLD THE SCREEN
4310 GOTO 4310
4320 '

32767 END
```

For testing, see the Fake Text Testing Chapter below.

=====

CHDISP: Fake Text ML Test Loop

CHDISP is an Assembly Language Routine designed to replace lines 4110 to 4230 of the CHRSTEST.BAS program.

```

00100 *****
00110 *
00120 * CHDISP.ASM
00130 * MDJ 2023/04/04
00140 *
00150 * FAST ML CHARACTER SET
00160 * DISPLAY ROUTINE
00170 *
00180 * THIS DUPLICATES THE
00190 * CHRSTEST.BAS LOOP
00200 * IN ASSEMBLY LANGUAGE
00210 *
00220 *****
00230
536F      00240          ORG          $536F
00250
536F 7E    5375      00260 CHDISP  JMP          LBL001
00270
5372      00280 TX          RMB          1
5373      00290 TY          RMB          1
5374      00300 TC          RMB          1
00310
5375 34     02      00320 LBL001  PSHS         A
00330
5377 86     FF      00340          LDA          #$FF      = -1 FOR
INITIAL ROLLOVER
5379 B7     5372      00350          STA          TX
537C B7     5374      00360          STA          TC
537F 4F
5380 B7     5373      00380          STA          TY
00390
5383 7C     5374      00400 LBL002  INC          TC
5386 7C     5372      00410          INC          TX
00420
5389 B6     5372      00430          LDA          TX
538C 81     20      00440          CMPA         #32
538E 25     11      00450          BLO          LBL003

```

```

00460
5390 4F          00470      CLRA
5391 B7    5372    00480      STA      TX
5394 7C    5373    00490      INC      TY
00500
5397 B6    5373    00510      LDA      TY
539A 81    08      00520      CMPA     #8      MUST STOP
BECAUSE TC NOT LIMITE
D
539C 25    03      00530      BLO      LBL003
00540
539E 7E    53B9    00550      JMP      LBL004
00560
53A1 B6    5372    00570 LBL003 LDA      TX
53A4 B7    7000    00580      STA     $7000
53A7 B6    5373    00590      LDA      TY
53AA B7    7001    00600      STA     $7001
53AD B6    5374    00610      LDA      TC
53B0 B7    7002    00620      STA     $7002
53B3 BD    7003    00630      JSR     $7003
00640
53B6 7E    5383    00650      JMP      LBL002
00660
00670 *FINISH AND RETURN
53B9 35    02      00680 LBL004 PULS      A
53BB 39          00690 ENDCHK  RTS
0000          00700      END

```

For testing, see the Fake Text Testing Chapter below.

=====

CHRSTST2: Fake Text ML Test Loop BASIC Driver

CHRSTST2 calls CHDISP once (at line 4110 below) to display the entire character set using ML code. It's quite fast.

```
1000 '*****
1010 '*'
1020 '* CHRSTST2.BAS
1030 '* MDJ 2023/04/04
1040 '*'
1050 '* TEST PRINTS THE
1060 '* PMODE 4 FAKETEXT
1070 '* CHARACTER SET
1080 '* USING ML LOOP
1090 '*'
1100 '*****
1110 '

2000 ' X = X-COORDINATE (0-31) TO &H7000
2010 ' Y = Y-COORDINATE (0-15) TO &H7001
2020 ' C = CHARACTER CODE (0-255) TO &H7002
2030 '

3000 ' LOAD THE ML ROUTINES
3010 CLEAR 200, &H4000
3020 LOADM "CHR3216X.BIN"
3030 LOADM "CHR3216T.BIN"
3040 LOADM "PTFCHR.BIN"
3050 LOADM "CHDISP.BIN"
3060 '

3100 ' SET UP THE PMODE 4 SCREEN
3110 PCLEAR 4
3120 PMODE 4,1
3130 PCLS 1
3140 SCREEN 1,0
3150 '

4000 ' SETUP FOR ROLLOVER ON
4010 ' FIRST ITERATION
```

```
4020 X = -1
4030 Y = 0
4040 '

4100 ' GO DISPLAY THE CHARACTER SET
4110 EXEC &H536F
4240 '

4300 ' HOLD THE SCREEN
4310 GOTO 4310
4320 '

32767 END
```

For testing, see the Fake Text Testing Chapter below.

=====

Fake Text Testing

The sixth and final stage of development was the testing itself. Both CHRSTEST and CHRSTST2 produce the same screen shown here. Run them both for yourself to compare the speeds with which the character set is displayed.



=====

Results

Finally, CHR3216X.BIN is combined with PTFCHR.BIN to produce C3216SET.BIN which includes both the characters encoding and the code to put characters to the screen; all in one combined file which can be loaded as a single entity:

```
1000 '*****
1010 '*
1020 '* C3216FM2.BAS
1030 '* MDJ 2023/04/06
1040 '*
1050 '* THE FAKETEXT 32 X 16
1060 '* CHARACTER SET FOR
1070 '* PMODE 4
1080 '*
1090 '* EACH OF THE 255
1100 '* CHARACTERS IS 8 BITS
1110 '* (I.E. ONE BYTE) WIDE
1120 '* AND TWELVE BYTES HIGH
1130 '*
1140 '* THIS IS THE FILEMAKER
1150 '* PROGRAM
1160 '*
1170 '*****
1180 '

1300 CLEAR 200, &H4000
1310 LOADM "CHR3216X.BIN"
1390 LOADM "PTFCHR.BIN"
1400 '

1500 SAVEM "C3216SET.BIN", &H4700, &H536E, &H4700
1510 '

32767 END
```

And this file is herein tested with CHRSTST3.BAS which is the same as CHRSTST2.BAS except with adjustments to use C3216SET.BIN instead of CH3216X.BIN and PTFCHR.BIN separately:

```
1000 '*****
1010 '*
1020 '* CHRSTST3.BAS
1030 '* MDJ 2023/04/06
1040 '*
```

```

1050 '* TEST PRINTS THE
1060 '* PMODE 4 FAKETEXT
1070 '* CHARACTER SET
1080 '* USING ML LOOP
1081 '* WITH C3216SET.BIN
1082 '* INSTEAD OF CH3216X.BIN
1090 '*
1100 '*****
1110 '

2000 ' X = X-COORDINATE (0-31) TO &H7000
2010 ' Y = Y-COORDINATE (0-15) TO &H7001
2020 ' C = CHARACTER CODE (0-255) TO &H7002
2030 '

3000 ' LOAD THE ML ROUTINES
3010 CLEAR 200, &H4000
3020 LOADM "C3216SET.BIN"
3030 LOADM "CHR3216T.BIN"
3050 LOADM "CHDISP.BIN"
3060 '

3100 ' SET UP THE PMODE 4 SCREEN
3110 PCLEAR 4
3120 PMODE 4,1
3130 PCLS 1
3140 SCREEN 1,0
3150 '

4000 ' SETUP FOR ROLLOVER ON
4010 ' FIRST ITERATION
4020 X = -1
4030 Y = 0
4040 '

4100 ' GO DISPLAY THE CHARACTER SET
4110 EXEC &H536F
4240 '

4300 ' HOLD THE SCREEN
4310 GOTO 4310
4320 '

32767 END

```


All of this is performed on the FTEXT002.DSK disk, simply because the FTEXT001.DSK disk is full. The results are identical to those shown in the Testing Chapter above.

=====

Appendix A

Decimal to Hexadecimal Conversions

<u>DEC</u>	<u>HEX</u>	<u>DEC</u>	<u>HEX</u>	<u>DEC</u>	<u>HEX</u>	<u>DEC</u>	<u>HEX</u>
000	00	032	20	064	40	096	60
001	01	033	21	065	41	097	61
002	02	034	22	066	42	098	62
003	03	035	23	067	43	099	63
004	04	036	24	068	44	100	64
005	05	037	25	069	45	101	65
006	06	038	26	070	46	102	66
007	07	039	27	071	47	103	67
008	08	040	28	072	48	104	68
009	09	041	29	073	49	105	69
010	0A	042	2A	074	4A	106	6A
011	0B	043	2B	075	4B	107	6B
012	0C	044	2C	076	4C	108	6C
013	0D	045	2D	077	4D	109	6D
014	0E	046	2E	078	4E	110	6E
015	0F	047	2F	079	4F	111	6F
016	10	048	30	080	50	112	70
017	11	049	31	081	51	113	71
018	12	050	32	082	52	114	72
019	13	051	33	083	53	115	73
020	14	052	34	084	54	116	74
021	15	053	35	085	55	117	75
022	16	054	36	086	56	118	76
023	17	055	37	087	57	119	77
024	18	056	38	088	58	120	78
025	19	057	39	089	59	121	79
026	1A	058	3A	090	5A	122	7A
027	1B	059	3B	091	5B	123	7B
028	1C	060	3C	092	5C	124	7C
029	1D	061	3D	093	5D	125	7D
030	1E	062	3E	094	5E	126	7E
031	1F	063	3F	095	5F	127	7F

<u>DEC</u>	<u>HEX</u>	<u>DEC</u>	<u>HEX</u>	<u>DEC</u>	<u>HEX</u>	<u>DEC</u>	<u>HEX</u>
128	80	160	A0	192	C0	224	E0
129	81	161	A1	193	C1	225	E1
130	82	162	A2	194	C2	226	E2
131	83	163	A3	195	C3	227	E3
132	84	164	A4	196	C4	228	E4
133	85	165	A5	197	C5	229	E5
134	86	166	A6	198	C6	230	E6
135	87	167	A7	199	C7	231	E7
136	88	168	A8	200	C8	232	E8
137	89	169	A9	201	C9	233	E9
138	8A	170	AA	202	CA	234	EA
139	8B	171	AB	203	CB	235	EB
140	8C	172	AC	204	CC	236	EC
141	8D	173	AD	205	CD	237	ED
142	8E	174	AE	206	CE	238	EE
143	8F	175	AF	207	CF	239	EF
144	90	176	B0	208	D0	240	F0
145	91	177	B1	209	D1	241	F1
146	92	178	B2	210	D2	242	F2
147	93	179	B3	211	D3	243	F3
148	94	180	B4	212	D4	244	F4
149	95	181	B5	213	D5	245	F5
150	96	182	B6	214	D6	246	F6
151	97	183	B7	215	D7	247	F7
152	98	184	B8	216	D8	248	F8
153	99	185	B9	217	D9	249	F9
154	9A	186	BA	218	DA	250	FA
155	9B	187	BB	219	DB	251	FB
156	9C	188	BC	220	DC	252	FC
157	9D	189	BD	221	DD	253	FD
158	9E	190	BE	222	DE	254	FE
159	9F	191	BF	223	DF	255	FF

=====

Appendix B: My CoCo Philosophy

The CoCo community enjoys a great diversity of interests.

Some choose to concentrate on hardware innovations and modifications such as interfacing with VGA and HDMI monitors, SD Card data storage, and 104-key keyboards. This interest is at least partly born of necessity, since composite monitors, floppy diskettes, and CoCo spare parts are no longer manufactured and are in increasingly short supply.

Others concentrate on expanding the software horizons of the CoCo 3, using NitrOS-9 and other operating systems to make the multitasking CoCo behave ever closer to modern Windows, Mac, and Linux machines.

Still others are devoted to emulating the CoCo on other platforms by developing emulators such as VCC, OVCC, MAME, and XRoar.

And some just love retro gaming.

My personal interest is twofold:

1. To see VCC increasingly used as a learning tool for budding software developers.
2. To see just how much I can cram into a 64K CoCo 2.

First, VCC: Today's Grade School, Junior High, and High School students have a wealth of available learning tools. Micro-bits, Arduinos, and Raspberry Pi supermicro devices provide highly affordable entry-level introductions to computer programming and interfacing. Maker-Spaces and Innovation Centers in our schools and libraries help foster growth and experience.

But these devices do have limitations. Even these simple(?) computers can have rather steep learning curves, and their low initial cost can quickly expand as new peripherals and experimental equipment and supplies are added.

VCC is free, and can be used on any Windows computer: just download it, install it, and it runs. If you don't own a Windows computer, your school, library, or a friend probably does. The included BASIC language is easy to learn and can readily serve as a stepping-stone towards more complex programming languages. (And, no, learning structured programming does not require a language that enforces structure. In fact, I think learning to structure your programs is actually more effective when you do so on your own.)

I prefer VCC to the other emulators for these purposes because its setup is trivial: Again, just download it, install it, and it runs. OVCC, MAME, and XRoar have their advantages, but ease of setup is not one of them. Even with their available Windows binary packages, they require pre-installation of other bits and pieces of software before they can be downloaded,

installed, and run. This may not be a major problem for a reasonably adept aficionado, but it forms a significant barrier for the newbie. And, it's the newbie whom we're trying to reach, interest, and encourage here; the newbie who may not yet recognize even the tiniest awakening of interest in things computational.

But, for these purposes, VCC has one glaring weakness: its instruction manual is woefully terse. I would like to see VCC bundled with a selection of tutorials, manuals, and examples suited to guiding even the most newbie of newbies into the wonders of computing.

Second, The Stuffed CoCo: I'm simply fascinated by the challenge of seeing how much functional capability I can sandwich into the nooks and crannies of the 64K space. Whether it's working in the available RAM left by the 32K ROM and the dedicated RAM that supports that ROM, or whether it's jumping right into ALLRAM mode and just filling the entire 64K to near-overflowing; it's an investigative gauntlet which goes right to the heart of my enchantment with puzzles in general.

It's great fun!

M.D.J. 2021/08/29

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M.D.J. 2018/06/08

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