#### **Commodore PETSCII character sets**

PET ASCII, CBM ASCII

The PETSCII character sets, also known as PET ASCII or CBM ASCII, were 8-bit character sets used by Commodore computers of the 1970s and 1980s. Originally introduced with Commodore PET 2001 in 1977, PETSCII was modified and reused in several later Commodore computers.

In each version of PETSCII, there were two alternative character sets available: an upper case set (graphics mode) and a lower case set (text/business mode). The upper case set supported upper case letters along with digits and symbols. The lower case set supported both upper and lower case letters, but less symbols. The current set was selected by either the user or a program.

Originally, both character sets consisted of 127 visually unique characters. In upper case, there were 62 standard ASCII characters and 65 additional graphic characters. In lower case there were 87 ASCII and 38 graphic characters. Several of the 127 unique characters were duplicated, resulting in each set containing a total of 192 visible characters. Character order was ideal for the PET keyboard layout: holding down the SHIFT key would produce the character whose PETSCII value was base character + 128. Later on, the sets were adjusted a bit, ending with 123 unique characters (61 ASCII, 62 graphical) in upper case and 125 ones (87 ASCII + 38 graphical) in lower case for Commodore 64.

In addition to the visible characters, the sets also supported a number of invisible control characters. Support for these control codes varied from device to device. Control characters were used for special keys, cursor movement, editing, color selection and the like. If typed between quotes "..", control characters became visible in program listings. There they appeared in reverse field (see the Sym column in the character charts).

At least four different versions of PETSCII have existed, not counting any regional modifications.

- 1) The 1977 version defaulted to upper case letters. In business mode, lower case letters were available with SHIFT.
- 2) Business mode soon changed. Upper and lower case were swapped. Lower case could now be typed without SHIFT.
- 3) VIC-20 replaced the backslash (\) by the pound (£). Area hex 60-7F now duplicated different characters than before. Most characters were still similar to PET, but they all appeared stretched on VIC-20.
- 4) With Commodore 64, the characters became thicker in order to look better on TV. 1-pixel lines were converted to 2-pixel lines. This caused 4 pairs of line drawing characters, which used to be 1 pixel off each other, to become similar.

If we consider visible characters only, the 1977 version of PETSCII was downwards compatible with ASCII-1963, which was the initial (and long forgotten) version of the ASCII standard. Control characters differed, though. Because of this, PETSCII has never been compatible with any version of ASCII. Thus, the names PET ASCII and CBM ASCII are rather misleading.

Even though PETSCII is not fully compatible with either ASCII or Unicode, the following charts list matching characters in these standard character sets where available.

PETSCII was used in main memory, keyboard input, storage and printing. A completely different representation for the same characters was used for screen memory. For this purpose Commodore computers used screen display codes. These codes could be "poked" to screen RAM area instead of using PETSCII. As with PETSCII, poke codes too came in upper and lower case sets, which meant each Commodore computer used a total of 4 non-standard character encodings.

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# PETSCII (Commodore 64) — Character sets 1 & 2

C64, C16, C128

	Sym	00 C64 C16 C128 C	C128 80c Sym	10 C64 C16 C128 C128 40c 80c	20	30	40	50	60	70	Sym	80 C64 C16 C128 C128 40c 80c	Sym	90 C64 C16 C128 C128 40c 80c	A0	В0	C0	D0	E0	F0
-0	o C		16 <b>P</b>		32 SPACE	48	64	<b>P P</b>	96	112 <b>P</b>	128		144	BLACK	SHIFT+SPC	176	192	208 <b>P</b>	224	240
-1	A		17 <b>Q</b>	CURSOR DOWN	33	49	Å a	<b>Q q</b>	97	113 <b>Q</b>	129	ORANGE DK PUR	145	CURSOR UP	161	177	193 <b>A</b>	209 <b>Q</b>	225	241
-2	2 <b>B</b>		UL R	REVERSE ON	34	2	В ь	82 <b>R</b> r	98 <b>B</b>	□ <b>R</b>	130	FSH UL ON OFF	146	REVERSE OFF	162	178	194 <b>B</b>	210 <b>R</b>	226	242
-3	3 <b>C</b>	STOP	19 <b>S</b>	HOME	35 #	<sup>51</sup>	67 <b>C</b> C	<sup>83</sup> <b>5 5</b>	99	<sup>115</sup> <b>S</b>	131	RUN	147	CLEAR	163	179	195 <b>C</b>	<sup>211</sup> <b>S</b>	227	243
-4	4 <b>D</b>		20	DEL	36 <b>\$</b>	52	В Д	T <b>t</b>	100 <b>D</b>	116 <b>T</b>	132	FSH OFF	148	INST	164	180	196 <b>D</b>	<sup>212</sup>	228	244
-5	5 <b>E</b>	WHITE	21		37	53	<sup>69</sup> E <b>e</b>	W <b>U</b>	101 <b>E</b>	117 <b>U</b>	133	F1	149	BROWN DK YEL	165	181	197 <b>E</b>	213	229	245
-6	F		22 <b>U</b>		38 <b>&amp;</b>	<sup>54</sup> <b>6</b>	<sup>70</sup> <b>F f</b>	W W	102 <b>F</b>	118 <b>X</b> V	134	F3	150	PINK YEL PINK	166	182	198 <b>F</b>	214 <b>V</b>	230	246
-7	7 <b>G</b>	BEL	23		39	55	<sup>71</sup> <b>G g</b>	<sup>87</sup> Ы w	<sup>103</sup> <b>G</b>	119	135	F5	151	DK PINK DK DK GRY CYN	167	183	<sup>199</sup> <b>G</b>	215 M	231	247
-8	×	LOCK CASE	24 <b>X</b>	TAB SET/ CLEAR	40	56 <b>8</b>	<sup>72</sup> <b>H h</b>	** <b>X X</b>	104 <b>H</b>	120 <b>X</b>	136	F7		MED BL MEDIUM GRY GRN GRAY	168	184	200 <b>H</b>	216	232	248
-9	9 <b>I</b>	UNLOCK TAE	25		<sup>41</sup>	57	<sup>73</sup> <b>I i</b>	89 <b>Y y</b>	105 <b>I</b>	121 <b>Y</b>	137	F2	153	LGT LGT LIGHT GRN BLU GREEN	169	185	201 <b>I</b>	217 <b>Y</b>	233	249
-A	10 <b>J</b>	LINE F	26 Z		42 <b>**</b>	58	J j	<sup>90</sup> <b>Z Z</b>	106 <b>4 J</b>	122 <b>2</b>	138	F4		LGT DK LIGHT BLU BLUE	170	186	<sup>202</sup> <b>J</b>	218 <b>Z</b>	234	250
-В	II K	UNLO	CK E	ESC	43 <b>+</b>	59	<sup>75</sup> <b>K</b> k	91 <b>[</b>	107 <b>K</b>	123	139	F6	155	LGT LGT LIGHT GRY GRN GRAY	<sup>171</sup>	187	203 <b>K</b>	219	235	251
-C	12	LOC	<b>K £ £</b>	RED	44	60	<sup>76</sup> <b>L</b> 1	92 <b>£</b>	108 L	124	140	F8 HLP F8	156	PURPLE	172	188	204	220	236	252
-D	13	RETURN	29	CURSOR RIGHT	45	61	<sup>77</sup> M M	93	109	125	141	SHIFT+RETURN	157	CURSOR LEFT	173	189	205	221	237	253
-E	14	LOWER CASE	30	GREEN	46	62	<sup>78</sup> <b>M</b> n	94	110 <b>H</b>	126	142	UPPER CASE	158 <b>1</b>	YELLOW	174	190	206	2222	238	254
-F	15		SH ON	BLUE	47	63	<sup>79</sup> <b>O</b> o	95	<sup>111</sup> <b>O</b>	127	143	FSH OFF	159	CYAN	175	191	207	223	239	255

## PETSCII (Commodore 64) — Character set 1

C64, C16, C128 — Upper case (graphics mode)

	Sym	OO C64 C16 C128 C128 40c 80c	Sym	10 C64 C16 C128 C128 40c 80c	20	30	40	50	60	70	Sym	80 C64 C16 C128 C128 40c 80c	Sym	90 C64 C16 C128 C128 40c 80c	Α0	В0	C0	D0	E0	F0
-0	e		16 <b>P</b>		32 <b>SPACE</b> u+0020	48 <b>1</b> u+0030	64 <b>C</b> u+0040	80 <b>P</b> u+0050	96 u+2500	112	128		144	BLACK	160 <b>SHIFT+SPC</b> u+0020	176 u+250c	192 u+2500	208	224 	240 u+250c
-1	ı A		17 <b>Q</b>	CURSOR DOWN u+0084	33 u+0021	49 <b>1</b> u+0031	65 <b>A</b> u+0041	81 <b>Q</b> u+0051	97 u+2660	113 u+25cf	129	ORANGE DK PUR	145	CURSOR UP u+008d	161 u+258c	177 u+2534	193 u+2660	209 u+25cf	225 u+258c	241 u+2534
-2	2 <b>B</b>	UL ON	18 <b>R</b>	REVERSE ON	34 ■ u+0022	50 2 u+0032	66 <b>B</b> u+0042	82 <b>R</b> u+0052	98	114	130	FSH UL ON OFF		REVERSE OFF	162 u+2584	178 u+252c	194 u+2502	210	226 u+2584	242 u+252c
-3	3 <b>C</b>	STOP	19 <b>S</b>	HOME	35 ## u+0023	51 u+0033	67 C u+0043	83 <b>5</b> u+0053	99 u+2500	115 u+2665	131	RUN	147	CLEAR	163 u+2594	179 u+2524	195 u+2500	211 u+2665	227 u+2594	243 u+2524
-4	4 <b>D</b>		20 <b>T</b>	<b>DEL</b> u+0008	36 <b>\$</b> u+0024	52 u+0034	68 <b>D</b> u+0044	84 T u+0054	100	116	132	FSH OFF	148	INST	164 u+2581	180 u+258e	196	212	228 u+2581	244 u+258e
-5	5 <b>E</b>	WHITE	21 <b>U</b>		37 u+0025	53 <b>5</b> u+0035	69 E u+0045	85 <b>U</b> u+0055	101	117 u+256d	133	F1	149	BROWN DK YEL	165 u+258e	181 u+258d	197	213 u+256d	229 u+258e	245 u+258d
-6	6 <b>F</b>		22 <b>U</b>		38 <b>E</b> u+0026	54 <b>G</b> u+0036	70 F u+0046	86 <b>U</b> u+0056	102	118 u+2573	134	F3	150	PINK YEL PINK	166 u+2592	182	198	214 u+2573	230 u+2592	246
-7	7 <b>G</b>	<b>BELL</b> u+0007	23		39 u+0027	55 u+0037	71 <b>G</b> u+0047	87 u+0057	103	119 u+25cb	135	F5	151	DK PINK DK DK GRY CYN	167	183	199	215 u+25cb	231	247
-8	× H	LOCK CASE	24	TAB SET/ CLEAR u+0088	40 u+0028	56 <b>B</b> u+0038	72 <b>H</b> u+0048	88 <b>X</b> u+0058	104	120 u+2663	136	F7	152	MED BL MEDIUM GRY GRN GRAY	168	184	200	216 u+2663	232	248
-9	9 <b>I</b>	UNLOCK CASE TAB	25 <b>Y</b>		41 u+0029	57 <b>9</b> u+0039	73 <b>I</b> u+0049	89 <b>Y</b> u+0059	105 u+256e	121	137	F2	153	LGT LGT LIGHT GRN BLU GREEN	169 u+25e4	185 u+2583	201 u+256e	217	233 u+25e4	249 u+2583
-A	10 <b>J</b>	LINE FEED u+000a	26 <b>Z</b>		42 <b>₩</b> u+002a	58 • u+003a	74 <b>J</b> u+004a	90 u+005a	106 u+2570	122 u+2666	138	F4		LGT DK LIGHT BLU BLUE	170	186 u+2713	202 u+2570	218 u+2666	234	250 u+2713
-В	н <b>К</b>	UNLOCK CASE	27 <b>[</b>	<b>ESC</b> u+001b	43 <b>★</b> u+002b	59 u+003b	75 <b>K</b> u+004b	91 L u+005b	107 u+256f	123 u+253c	139	F6		LGT LGT LIGHT GRY GRN GRAY	171 <b>H</b> u+251c	187 u+2596	203 u+256f	219 u+253c	235 u+251c	251 u+2596
-C	12 <b>L</b>	LOCK CASE	28 £	RED	44 u+002c	60 u+003c	76 u+004c	92 <b>£</b> u+00a3	108	124	140	F8 HLP F8	156	PURPLE	172 u+2597	188 u+259d	204	220	236 u+2597	252 u+259d
-D	13	RETURN	29	CURSOR RIGHT	45 — u+002d	61 = u+003d	77 <b>M</b> u+004d	93 u+005d	109 u+2572	125 u+2502	141	SHIFT+RETURN	157	CURSOR LEFT	173 u+2514	189 u+2518	205 u+2572	221 u+2502	237 u+2514	253 u+2518
-E	14 <b>N</b>	LOWER CASE u+000e	30	GREEN	46 ■ u+002e	62 u+003e	78 H u+004e	94 <b>1</b> u+2191	110 u+2571	126 u+2592	142	UPPER CASE u+000f	158 1	YELLOW	174 u+2510	190 u+2598	206 u+2571	222 u+2592	238 u+2510	254 u+2598
-F	15	FSH ON	31	BLUE	47 u+002f	63 u+003f	79 <b>U</b> u+004f	95 u+2190	111	127	143	FSH OFF	159	CYAN	175 u+2582	191 u+259a	207	223	239 u+2582	255 u+2592

## PETSCII (Commodore 64) — Character set 2

C64, C16, C128 — Lower case (text mode)

																			1	duplica	ite area
	Sym	OO C64 C16 C128 C128 80c	Sym	10 C64 C16 C128 C128 40c 80c	20		30	40	50	60	70	Sym	80 C64 C16 C128 C128 40c 80c	Sym	90 C64 C16 C128 C128 40c 80c	A0	В0	C0	D0	E0	F0
-0	° C		16 <b>P</b>		SPACE u+00	20	<b>a</b> +0030	64 L u+0040	80 <b>P</b> u+0070	96 u+2500	112 P u+0050	128		144 <b>P</b>	BLACK	SHIFT+SPC u+0020	176 u+250c	192 u+2500	208 P u+0050	224 u+0020	240 u+250c
-1	a		17 <b>9</b>	CURSOR DOWN u+0084	33 u+00	49	u+0031	65 <b>a</b> u+0061	81 <b>u</b> +0071	97 <b>Å</b> u+0041	113 <b>Q</b> u+0051	129 <b>A</b>	ORANGE DK PUR		CURSOR UP u+008d	161 u+258c	177 u+2534	193 <b>Å</b> u+0041	209 ••• u+0051	225 u+258c	241 u+2534
-2	2 <b>Б</b>	UL ON	18	REVERSE ON	34 ■ ■ u+00	50	<b>2</b> u+0032	66 <b>b</b> u+0062	82 <b>C</b> u+0072	98 <b>B</b> u+0042	114 <b>R</b> u+0052	130 <b>B</b>	FSH UL ON OFF	146 <b>R</b>	REVERSE OFF	162 u+2584	178 u+252c	194 <b>B</b> u+0042	210 R u+0052	226 u+2584	242 u+252c
-3	3 <b>C</b>	STOP	19 <b>5</b>	НОМЕ	35 u+00	23	<b>3</b> u+0033	67 <b>C</b> u+0063	83 <b>5</b> u+0073	99 <b>C</b> u+0043	115 <b>S</b> u+0053	131 <b>C</b>	RUN	147 <b>S</b>	CLEAR	163 u+2594	179 <b>1</b> u+2524	195 <b>C</b> u+0043	211 <b>5</b> u+0053	227 u+2594	243 u+2524
-4	4 <b>d</b>		20 <b>t</b>	<b>DEL</b> u+0008	36 <b>5</b> u+00	52	u+0034	68 u+0064	84 <b>1</b> u+0074	100 <b>D</b> u+0044	116 <b>T</b> u+0054	132 <b>D</b>	FSH OFF	148	INST	164 u+2581	180 u+258e	196 <b>D</b> u+0044	212 <b>T</b> u+0054	228 u+2581	244 u+258e
-5	5 <b>@</b>	WHITE	21		37 u+00	53 25	<b>5</b> u+0035	69 <b>e</b> u+0065	85 <b>u</b> +0075	101 <b>E</b> u+0045	117 <b>U</b> u+0055	133 <b>E</b>	F1	149 <b>U</b>	BROWN DK YEL	165 u+258e	181 u+258d	197 <b>E</b> u+0045	213 U u+0055	229 u+258e	245 u+258d
-6	6 <b>f</b>		22		38 <b>&amp;</b> u+00	54	<b>6</b>	70 <b>f</b> u+0066	86 <b>Ų</b> u+0076	102 F u+0046	118 <b>U</b> u+0056	134 <b>F</b>	F3	150 <b>U</b>	PINK YEL PINK	166 u+2592	182	198 F u+0046	214 <b>U</b> u+0056	230 u+2592	246
-7	7 <b>9</b>	<b>BELL</b> u+0007	23		39 u+00	55 27	u+0037	71 <b>9</b> u+0067	87 <b>4</b> u+0077	103 <b>G</b> u+0047	119 u+0057	135 <b>G</b>	F5	151	DK PINK DK DK GRY CYN	167	183	199 <b>G</b> u+0047	215 u+0057	231	247
-8	8 <b>h</b>	LOCK CASE	24	TAB SET/ CLEAR u+0088	40 <b>4</b> u+00	56 28	<b>8</b> u+0038	72 h u+0068	88 <b>X</b> u+0078	104 <b>H</b> u+0048	120 <b>X</b> u+0058	136	F7	152	MED BL MEDIUM GRY GRN GRAY	168	184	200 <b>H</b> u+0048	216 u+0058	232	248
-9	9 <b>i</b>	UNLOCK CASE TAB	25		41 u+00	57	<b>9</b> u+0039	73 <b>1</b> u+0069	89 <b>U</b> u+0079	105 <b>I</b> u+0049	121 <b>1</b> u+0059	137 <b>I</b>	F2	153 <b>Y</b>	LGT LGT LIGHT GRN BLU GREEN	169	185 u+2583	201 <b>I</b> u+0049	217 <b>Y</b> u+0059	233	249 u+2583
-A	10	LINE FEED u+000a	26 <b>Z</b>		42 <b>11</b> u+0	58 12a	u+003a	74 u+006a	90 	106 <b>J</b> u+004a	122 <b>Z</b> u+005a	138 <b>J</b>	F4	154 <b>Z</b>	LGT DK LIGHT BLU BLU BLUE	170	186 u+2713	202 <b>J</b> u+004a	218 Z u+005a	234	250 u+2713
-В	11 <b>K</b>	UNLOCK CASE	27 <b>C</b>	<b>ESC</b> u+001b	43 + u+00	59 2b	u+003b	75 <b>I-c.</b> u+006b	91 <b>C</b> u+005b	107 <b>K</b> u+004b	123 u+253c	139 <b>K</b>	F6		LGT LGT LIGHT GRY GRN GRAY	171 u+251c	187 u+2596	203 u+004b	219 u+253c	235 u+251c	251 u+2596
-c	12	LOCK CASE	28 £	RED	44 u+0	60 12c	u+003c	76 <b>1</b> u+006c	92 £ u+00a3	108 L u+004c	124	140	F8 HLP F8	156	PURPLE	172 u+2597	188 u+259d	204 L u+004c	220	236 u+2597	252 u+259d
-D	13	RETURN	29	CURSOR RIGHT	45 — u+00	61	u+003d	77 u+006d	93 u+005d	109 u+004d	125 u+2502	141	SHIFT+RETURN	157	CURSOR LEFT	173 u+2514	189 u+2518	205 u+004d	221 u+2502	237 u+2514	253 u+2518
-E	14 <b>n</b>	LOWER CASE	30	GREEN	46 ■ u+0	62	u+003e	78 u+006e	94 <b>†</b> u+2191	110 H u+004e	126 u+2592	142	UPPER CASE	158	YELLOW	174 u+2510	190 u+2598	206 u+004e	222 u+2592	238 u+2510	254 u+2598
-F	15	FSH	31	BLUE	47 u+0	63	u+003f	79 u+006f	95 u+2190	111 u+004f	127	143	FSH OFF	159	CYAN	175 u+2582	191 u+259a	207 u+004f	223	239 u+2582	255 u+2592
										duplica	te area										

	00	10	20	30	40	50	60	70		80		90	Α0	В0	C0	D0	E0	ate area
-0	0	16	32 SPACE	48	64	80 <b>F F</b>	96	112	128		144	BLACK	160 SHIFT+SPC	176	192	208	224	240
-1		17 CURSOR DOWN	33	49 <b>1</b>	<sup>65</sup> Аа.	81 Q <b>q</b>	97	113	129		145	CURSOR UP	161	177	193	209	225	241
-2	2 <b>B</b>	18 REVERSE ON	34	50	66 <b>B b</b>	82 F: F-	98 []]] <b>B</b>	114	130		146	REVERSE OFF	162	178	194 []] <b>B</b>	210	226	242
-3	3 STOP	19 HOME	35	51	67	83 <b>S S</b>	99	115	131	RUN	147	CLEAR	163	179	195	211	227	243
-4	4 <b>D</b>	20 DEL	36 <b>\$</b>	52	Þa	T <b>t</b> .	100	116 <b>T</b>	132		148	INST	164	180	196 <b>T</b>	<sup>212</sup>	228	244
-5	S WHITE	21	37	53	69	85 <b></b>	101	117	133	F1	149		165	181	197 <b>E</b>	213	229	245
-6	<sup>6</sup>	22	<sup>38</sup> <b>8.</b>	54	70	86 <b>1</b> 1 1 1 1	102	118 <b>X</b>	134	F3	150		166	182	198	<sup>214</sup>	230	246
-7	7 <b>G</b>	23	39	55	<sup>71</sup> G <b>9</b>	87 <b>L-1 1_1_1</b>	103 <b>G</b>	119 <b>[-]</b>	135	F5	151		167	183	<sup>199</sup> <b>G</b>	215	231	247
-8	8 LOCK CASE	24	40	56	72 	**	104 	120	136	F7	152		168	184	200	216	232	248
-9	9 UNLOCK CASE	25	41	57	<sup>73</sup> <b>I</b> i	89 <b>"T"                                   </b>	105 <b> I</b>	121	137	F2	153		169	185	<sup>201</sup>	217	233	249
-A	10	26	42	58	_ <b>J</b> _ <b>j</b>	90	106 T	122	138	F4	154		170	186 <b>L</b>	<sup>202</sup> <b>T</b>	218	234	250 <b>L</b>
-В	:: K	27	43	59	<sup>75</sup> K	91	107	123	139	F6	155		171 <b>H</b>	187	203	219	235	251
-C	12	28 <b>₹ RED</b>	44	60	<sup>76</sup> <b>L 1</b>	92	108	124	140	F8	156	PURPLE	172	188	204	220	236	252
-D	13 RETURN	29 CURSOR RIGHT	45	61	77 <b>                   </b>	93	109	125	141	SHIFT+RETURN		CURSOR LEFT	173	189	205	221	237	253
-E	LOWER CASE	30 GREEN	46	62	78 <b>                   </b>	94 <b>†</b>	110	126	142	UPPER CASE	158 •π*	YELLOW	174	190	206	222 - <b>TT</b>	238	254
-F	15	31 ← BLUE	47	63	<sup>79</sup> • •	95		127	143		159	CYAN	175	191	207	223	239	255

# PETSCII (Commodore VIC-20) — Character set 1

Upper case (graphics mode)

	00	10	20	30	40	50	60	70		80		90	A0	В0	CO	D0	duplica <b>E0</b>	F0
-0	0	16 <b>P</b>	32 <b>SPACE</b> u+0020	48 u+0030	64 u+0040	80 u+0050	96 u+2500	112	128		144	BLACK	160 SHIFT+SPC u+0020	176 u+250c	192 u+2500	208	224 u+0020	240 u+250c
-1	A	17 CURSOR DOWN u+0084	33 u+0021	49 -1 u+0031	65 u+0041	81 u+0051	97 u+2660	113 u+25cf	129		145	CURSOR UP	161 u+258c	177 u+2534	193 u+2660	209 u+25cf	225 u+258c	241 u+2534
-2	2 <b>B</b>	18 REVERSE ON	34 u+0022	50 u+0032	66 H: u+0042	82 u+0052	98 []_]	114	130		146	REVERSE OFF	162 u+2584	178 u+252c	194	210	226 u+2584	242 u+252c
-3	3 STOP	19 HOME	35 # u+0023	51 u+0033	67 u+0043	83 u+0053	99	115 u+2665	131	RUN	147	CLEAR	163 u+2594	179 u+2524	195	211 u+2665	227 u+2594	243 u+2524
-4	4	20 DEL u+0008	36 # u+0024	52 u+0034	68 L u+0044	84 T u+0054	100	116	132		148	INST	164 u+2581	180 u+258e	196	212	228 u+2581	244 u+258e
-5	5 WHITE	21	37 u+0025	53 u+0035	69 L u+0045	85 L_L u+0055	101	117 u+256d	133	F1	149		165 u+258f	181 u+258d	197	213 u+256d	229 u+258f	245 u+258d
-6	6 <b>F</b>	22	38 u+0026	54 u+0036	70 u+0046	86 u+0056	102	118 u+2573	134	F3	150		166 u+2592	182	198	214 u+2573	230 u+2592	246
-7	7 G	23	39 u+0027	55 u+0037	71 u+0047	87 <b>L-1</b> u+0057	103	119 u+25cb	135	F5	151		167 u+2595	183	199	215 u+25cb	231 u+2595	247
-8	8 LOCK CASE	24	40 u+0028	56 u+0038	72 	88 u+0058	104	120 u+2663	136	F7	152		168	184	200	216 u+2663	232	248
-9	9 UNLOCK CASE	25 <b>Y</b>	41 u+0029	57 u+0039	73 <b>I</b> u+0049	89 <b>"-1"</b> u+0059	105 u+256e	121	137	F2	153		169	185 u+2583	201 u+256e	217	233	249 u+2583
-A	10	<sup>26</sup>	42 <b>३</b> u+002a	58 - u+003a	74 	90 u+005a	106 u+2570	122 u+2666	138	F4	154		170	186 u+2713	202 u+2570	218 u+2666	234	250 u+2713
-B	11 <b>K</b>	27	43 + u+002b	59 u+003b	75 L=: u+004b	91 u+005b	107 u+256f	123 u+253c	139	F6	155		171 u+251c	187 u+2596	203 u+256f	219 u+253c	235 u+251c	251 u+2596
-C	12	28 <b>₹</b> RED	44 ■ u+002c	u+003c	76 u+004c	92 u+00a3	108	124	140	F8	156	PURPLE	172 u+2597	188 u+259d	204	220	236 u+2597	252 u+259d
-D	RETURN	29 CURSOR RIGHT	45 u+002d	61 u+003d	77 <b>-1</b> u+004d	93 u+005d	109 u+2572	125 u+2502	141	SHIFT+RETURN	157	CURSOR LEFT	173 u+2514	189 u+2518	205 u+2572	221 u+2502	237 u+2514	253 u+2518
-E	LOWER CASE  u+000e	GREEN	46 ■ u+002e	62 u+003e	78 <b>[*]</b> u+004e	94 • <b>T</b> - u+2191	110 u+2571	126 u+2592	142	UPPER CASE u+000f	158 - <b>TT</b>	YELLOW	174 u+2510	190 u+2598	206 u+2571	222 u+2592	238 u+2510	254 u+2598
-F	15	31 ← BLUE	47 u+002f	63 u+003f	79 u+004f	95 u+2190	duplica	127	143		159	CYAN	175 u+2582	191 u+259a	207	223	239 u+2582	255 u+2592

## PETSCII (Commodore VIC-20) — Character set 2

Lower case (text mode)

	00	10	20	30	40	50	60	70		80		90	Α0	В0	C0	D0	E0	F0
-0	0	16 P	32 <b>SPACE</b> u+0020	48 u+0030	64 u+0040	80 u+0070	96 u+2500	112 u+0050	128		144 <b>P</b>	BLACK	160 SHIFT+SPC u+0020	176 u+250c	192 u+2500	208 u+0050	224 u+0020	240 u+250c
-1	, w	17 CURSOR DOWN  u+0084	33 u+0021	49 <b>1</b> u+0031	65 <b>a.</b> u+0061	81 •=•••••••••••••••••••••••••••••••••••	97 u+0041	113 Q u+0051	129		145 Q	CURSOR UP	161 u+258c	177 u+2534	193 u+0041	209 Q u+0051	225 u+258c	241 u+2534
-2	2	REVERSE ON	34 <b>u</b> +0022	50 u+0032	66 L=1 u+0062	82 u+0072	98 E u+0042	114 u+0052	130 <b>B</b>		146 R	REVERSE OFF	162 u+2584	178 u+252c	194 <b>E</b> u+0042	210 u+0052	226 u+2584	242 u+252c
-3	3 STOP	HOME	35 u+0023	51 u+0033	67 u+0063	83 <u>u+0073</u>	99 u+0043	115 u+0053	131	RUN	147 <b>S</b>	CLEAR	163 u+2594	179 u+2524	195 u+0043	211 = u+0053	227 u+2594	243 u+2524
-4	4 ©	20 <b>DEL</b> u+0008	36 <b>‡</b> u+0024	52 u+0034	68 u+0064	84 <b>1</b> u+0074	100 <b>L</b> u+0044	116 u+0054	132 <b>D</b>		148	INST	164 u+2581	180 u+258e	196 Lu u+0044	212 u+0054	228 u+2581	244 u+258e
-5	5 WHITE	21	37 u+0025	53 u+0035	69 u+0065	85 <b>II</b> u+0075	101 u+0045	117 u+0055	133 <b>E</b>	F1	149		165 u+258f	181 u+258d	197 u+0045	213 LL u+0055	229 u+258f	245 u+258d
-6	6 <b>F</b>	22	38 u+0026	54 u+0036	70 	86 <b>11</b> u+0076	102 u+0046	118 u+0056	134 <b>F</b>	F3	150		166 u+2592	182	198 - u+0046	214 u+0056	230 u+2592	246
-7	7	23	39 u+0027	55 u+0037	71 •=1 u+0067	87 <b>L_L</b> l u+0077	103 u+0047	119 L=J u+0057	135	F5	151		u+2595	183	199 u+0047	215 L=J u+0057	231 u+2595	247
-8	8 LOCK CASE	24	40 u+0028	56 u+0038	72 L-1 u+0068	88 u+0078	104 ————————————————————————————————————	120 u+0058	136	F7	152		168	184	200 ———————————————————————————————————	216 u+0058	232	248
-9	9 UNLOCK CASE	25	41 u+0029	57 u+0039	73 <b>1</b> u+0069	89 <b>1_1</b> u+0079	105 <b>I</b> u+0049	121 u+0059	137 I	F2	153 <b>Y</b>		169	185 u+2583	201 <b>I</b> u+0049	217 <b>1</b> u+0059	233	249 u+2583
-A	10 	26 <b>Z</b>	42 <b>★</b> u+002a	58 • u+003a	74 <b>i</b> u+006a	90  u+007a	106  u+004a	122 u+005a	138	F4	154		170	186 u+2713	202  u+004a	218 u+005a	234	250 u+2713
-В	K II	27	43 u+002b	59 u+003b	75 <b>L</b> =: u+006b	91 u+005b	107 L=C u+004b	123 u+253c	139	F6	155		171 u+251c	187 u+2596	203 u+004b	219 u+253c	235 u+251c	251 u+2596
-C	12	£ RED	44 u+002c	60 u+003c	76 <b>1</b> u+006c	92 <b>±</b> u+00a3	108 u+004c	124	140	F8	156	PURPLE	172 u+2597	188 u+259d	204 u+004c	220	236 u+2597	252 u+259d
-D	13 RETURN	29 CURSOR RIGHT	45 u+002d	61 u+003d	77 <b>ГГ</b> u+006d	93 u+005d	109   <b>†=1</b>   u+004d	125 u+2502	141	SHIFT+RETURN	157	CURSOR LEFT	173 u+2514	189 u+2518	205   <b>-1</b> u+004d	221 u+2502	237 u+2514	253 u+2518
-E	LOWER CASE  u+000e	30 GREEN	46 • u+002e	62 u+003e	78 <b>►</b> 1 u+006e	94 • <b>T</b> - u+2191	110 	126 u+2592	142	UPPER CASE u+000f	158	YELLOW	174 u+2510	190 u+2598	206    u+004e	222 u+2592	238 u+2510	254 u+2598
-F	15	31 BLUE	47 u+002f	63 u+003f	79 u+006f	95 u+2190	111 u+004f	127	143		159	CYAN	175 u+2582	191 u+259a	207 u+004f	223	239 u+2582	255 u+2592

## PETSCII (Commodore PET) — Character sets 1 & 2

Commodore PET 8032

	00	10	20	30	40	50	60	70	80	90	Α0	В0	C0	D0	E0	F0
-0	0	16 P	32 SPACE	48 <b>P</b>	64 ( <b>2</b>	<sup>80</sup> P p	96	112	128	144	160 SHIFT+SPC	176	192	208 <b>P</b>	224	240
-1	A	17 CURSOR DOWN	33	49 <b>1</b>	ñа	81 Q <b>q</b>	97	113	129	145 CURSOR UP	161	177	193 <b>A</b>	209 Q	225	241
-2	<b>B</b>	REVERSE ON	34	50	<sup>66</sup> Bb	<sup>82</sup> Rr	98 ידה יי	114	130	REVERSE OFF	162	178	<sup>194</sup> <b>B</b>	<sup>210</sup> <b>□ R</b>	226	242
-3	STOP	HOME	35 #	3	G C C	Ss	99	115	131	147 CLEAR	163	179	195 C	<sup>211</sup> S	227	243
-4	4 <b>D</b>	DEL DEL	36 <b>\$</b>	<sup>52</sup> <b>4</b>	D d	T <b>t</b> .	100	116	132	IA8 INST	164	180	196 <b>D</b>	<sup>212</sup> <b>T</b>	228	244
-5	5	KILL LINE	37	53	E e	85 U u	101	117	133	INSERT LINE ABOVE	165	181	197 <b>E</b>	213	229	245
-6	F	ERASE TO RIGHT	<sup>38</sup> &.	6	F #	<sup>86</sup> ₩ ∪	102 <b>E</b>	118	134	ERASE TO LEFT	166	182	198 <b>F</b>	<sup>214</sup> <b>▼ V</b>	230	246
-7	7 G BELL	23	39	<sup>55</sup> 7	G g	87   <b>M</b> W	103	119	DOUBLE BELL	151	167	183	<sup>199</sup> <b>G</b>	215	231	247
-8	8 <b>H</b>	24	40	8	<sup>72</sup> H h	** X ×	104 [ <u>]</u>	120	136	152	168	184	<sup>200</sup> <b>H</b>	<sup>216</sup> ×	232	248
-9	TAB	SCROLL UP	)	9	<sup>73</sup> I i	89 Y <b>y</b>	105	121	TAB SET/CLEAR	SCROLL DOWN	169	185	<sup>201</sup> I	217 <b>Y</b>	233	249
-A	J	26 Z	42 <b>*</b>	58	J j	<sup>90</sup> Z z	106	122	138	154	170	186	<sup>202</sup> <b>J</b>	<sup>218</sup> <b>∠</b>	234	250
-В	II K	ESC ESC	43 <b>+</b>	59	<sup>75</sup> K k	91	107	123	139	155	171	187	<sup>203</sup> K	219	235	251
-C	12	28	44 J	60	<sup>76</sup> <b>L 1</b>	92 [ <u>S</u> ]	108	124	140	156	172	188	204	220	236	252
-D	13 RETURN	CURSOR RIGHT	45	61	<sup>77</sup> M m	93	109	125	SHIFT+RETURN	157 CURSOR LEFT	173	189	<sup>205</sup> M	221	237	253
-E	LOWER CASE	30 ↑	46	62	N n	94 <b>†</b>	110	126	UPPER CASE	158 ·π'	174	190	206 N	2222 <b>m 8</b>	238	254
-F	SET WINDOW TOP	31 ←	47	63	<sup>79</sup> O o	95	<sup>111</sup> [Z]	127	SET WINDOW END	159	175	191	207	223	239	255 <b>TI BB</b>

#### PETSCII (Commodore PET) — Character set 1

Commodore PET 8032 — Upper case (graphics mode)

	<b>l</b> 1				ا م		۱	1	ı	, (grapines i	ı						duplica	
	00	10	20	30	40	50	60	70		80		90	A0	В0	C0	D0	E0	F0
-0	0	16 <b>P</b>	32 <b>SPACE</b> u+0020	48 <b>a</b> u+0030	64 (2 u+0040	80 u+0050	96        u+0020	112 u+0030	128		144		160 SHIFT+SPC u+0020	176 u+250c	192 u+2500	208	224 u+0020	240 u+250c
-1	_ <b>1</b>	17 CURSOR DOWN u+0084	33 u+0021	19 1 u+0031	65 <b>A</b> u+0041	81 Q u+0051	97 u+0021	113 111 u+0031	129		145	CURSOR UP  u+008d	161 u+258c	177 u+2534	193 u+2660	209 u+25cf	225 u+258c	241 u+2534
-2	<b>B</b>	REVERSE ON	34 III u+0022	u+0032	B u+0042	82 <b>R</b> u+0052	98 L-1 u+0022	114 u+0032	130		146	REVERSE OFF	162 u+2584	178 u+252c	194	210	226 u+2584	242 u+252c
-3	3 STOP u+0003	HOME	35 # u+0023	3 u+0033	67 C u+0043	83 <b>S</b> u+0053	99 u+0023	115 u+0033	131		147	CLEAR	163 u+2594	179 H u+2524	195	211 u+2665	227 u+2594	243 u+2524
-4	4 <b>D</b>	20 <b>DEL</b> u+0008	36 <b>\$</b> u+0024	52 <b>4</b> u+0034	68 <b>D</b> u+0044	84 <b>T</b> u+0054	100 u+0024	116 u+0034	132		148	INST	164 u+2581	180 u+258e	196	212	228 u+2581	244 u+258e
-5	5	KILL LINE	37 u+0025	53 5 u+0035	69 E u+0045	85  u+0055	101 u+0025	117 u+0035	133		149	NSERT LINE ABOVE	165 u+258f	181 u+258d	197	213 u+256d	229 u+258f	245 u+258d
-6	F	ERASE TO RIGHT	8. u+0026	54 <b>6</b> u+0036	70 <b>F</b> u+0046	86 u+0056	102 u+0026	118 <u>E</u> u+0036	134		150	ERASE TO LEFT	166 u+2592	182	198	214 u+2573	230 u+2592	246
-7	7 <b>G</b> BELL u+0007	23	39 u+0027	u+0037	71 <b>G</b> u+0047	87 u+0057	103 u+0027	119 u+0037	135	DOUBLE BELL	151		167 u+2595	183	199	215 u+25cb	231 u+2595	247
-8	8 <b>H</b>	24	40 £ u+0028	8 u+0038	72 <b>H</b> u+0048	88 u+0058	104 u+0028	120 B u+0038	136		152		168	184	200	216 u+2663	232	248
-9	9 <b>TAB</b> u+0009	SCROLL UP	41 g u+0029	57 <b>9</b> u+0039	73 <b>I</b> u+0049	89 <b>T</b> u+0059	105 u+0029	121 121 u+0039	137	TAB SET/CLEAR u+0088	153	SCROLL DOWN	169 u+25e4	185 u+2583	201 u+256e	217	233 u+25e4	249 u+2583
-A	J	26 Z	42 <b>*</b> u+002a	u+003a	74 <b>J</b> u+004a	90 u+005a	106 u+002a	122 u+003a	138		154		170	186 u+2713	202 u+2570	218 u+2666	234	250 u+2713
-B	K	27 <b>ESC</b> u+001b	43 + u+002b	u+003b	75 <b>K</b> u+004b	91 <b>L</b> u+005b	107 L u+002b	123 u+003b	139		155		171 u+251c	187 u+2596	203 u+256f	219 u+253c	235 u+251c	251 u+2596
-C	12	28	44 u+002c	u+003c	76 L u+004c	92 u+005c	108 u+002c	124 u+003c	140		156		172 u+2597	188 u+259d	204	220	236 u+2597	252 u+259d
-D	RETURN	CURSOR RIGHT	45 u+002d	u+003d	77 <b>- 1</b> u+004d	93 u+005d	109 u+002d	125 u+003d	141	SHIFT+RETURN	157	CURSOR LEFT	173 u+2514	189 u+2518	205 u+2572	221 	237 u+2514	253 u+2518
-E	LOWER CASE  u+000e	30	■ u+002e	u+003e	78 N u+004e	94 <b>1</b> u+2191	110 u+002e	126 u+003e	142	UPPER CASE u+000f	158 π		174 u+2510	190 u+2598	206 u+2571	222 <b>11</b> u+2592	238 u+2510	254 u+2598
-F	SET WINDOW TOP	31 ←	47 u+002f	u+003f	79 U u+004f	95 <b>←</b> u+2190	111 u+002f	127 u+003f	143 S	ET WINDOW END	159		175 u+2582	191 u+259a	207	223	239 u+2582	255 u+2592

duplicate area

## PETSCII (Commodore PET) — Character set 2

Commodore PET 8032 — Lower case (business mode)

	00	10	20	30	40	50	60	70		80		90	Α0	В0	CO	D0	duplica <b>E0</b>	F0
																	_	
-0	0 @	16 P	32 <b>SPACE</b> u+0020	48 u+0030	64 <b>(3</b> u+0040	80 u+0070	96 	112 u+0030	128		P		160 <b>SHIFT+SPC</b> u+0020	176 u+250c	192 u+2500	208 P u+0050	224 u+0020	240 u+250c
-1	1 (8)	CURSOR DOWN  u+0084	33 L u+0021	49 <b>1</b> u+0031	65 <b>a.</b> u+0061	81 <b></b> u+0071	97 u+0021	113 L u+0031	129		145 Q	CURSOR UP  u+008d	161 u+258c	177 u+2534	193 iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	209 Q u+0051	225 u+258c	241 u+2534
-2	2 <b>D</b>	REVERSE ON	34 11 u+0022	50 2 u+0032	66 u+0062	82 u+0072	98 	114 u+0032	130 <b>B</b>		146 R	REVERSE OFF	162 u+2584	178 u+252c	194 <b>B</b> u+0042	210 R u+0052	226 u+2584	242 u+252c
-3	3 STOP u+0003	19 HOME	35 # u+0023	51 3 u+0033	67 u+0063	83 <b>=</b> u+0073	99 # u+0023	115 u+0033	131 C		147 <b>S</b>	CLEAR	163 u+2594	179 u+2524	195 C u+0043	211 <b>S</b> u+0053	227 u+2594	243 u+2524
-4	4 <b>d</b>	20 <b>t</b> DEL u+0008	36 <b>\$</b> u+0024	52 4 u+0034	68 u+0064	84 <b>t</b> u+0074	100 u+0024	116 4 u+0034	132 D		148 <b>T</b>	INST	164 u+2581	180 u+258e	196 <b>D</b> u+0044	212 <b>T</b> u+0054	228 u+2581	244 u+258e
-5	5	KILL LINE	37 u+0025	53 <b>5</b> u+0035	69 <b>e</b> u+0065	85 L1 u+0075	101 u+0025	117 u+0035	133 <b>E</b>		149	INSERT LINE ABOVE	165 u+258f	181 u+258d	197 <b>E</b> u+0045	213 	229 u+258f	245 u+258d
-6	6 <b>f</b>	22 ERASE TO RIGHT	38 & u+0026	54 <b>6</b> u+0036	70 <b>+</b> u+0066	86 U u+0076	102 u+0026	118 u+0036	134 <b>F</b>		150 V	ERASE TO LEFT	166 u+2592	182	198 F u+0046	214 u+0056	230 u+2592	246
-7	7 BELL u+0007	23 W	39 u+0027	55 T u+0037	71 <b>9</b> u+0067	87 <b>W</b> u+0077	103 u+0027	119 u+0037	135 <b>G</b>	DOUBLE BELL	151		167 u+2595	183	199 <b>G</b> u+0047	215 u+0057	231 u+2595	247
-8	8 <b>h</b>	24 ×	40 u+0028	56 8 u+0038	72 u+0068	88 × u+0078	104 u+0028	120 u+0038	136 <b>H</b>		152		168	184	200 H u+0048	216 u+0058	232	248
-9	9 <b>1</b> TAB u+0009	25 SCROLL UP	41 u+0029	57 <b>9</b> u+0039	73 <b>İ</b> u+0069	89 u+0079	105 u+0029	121 u+0039	137 I	TAB SET/CLEAR u+0088	153 <b>Y</b>	SCROLL DOWN	169	185 u+2583	201 <b>I</b> u+0049	217 <b>T</b> u+0059	233	249 u+2583
-A	10	26 <b>Z</b>	42 #: u+002a	58 u+003a	74 	90 u+007a	106 u+002a	122 u+003a	138 J		154 Z		170	186 u+2713	202 	218 u+005a	234	250 u+2713
-В	K II	27 <b>ESC</b> u+001b	43 + u+002b	59 u+003b	75 u+006b	91 <b>L</b> u+005b	107   <b>+</b>   u+002b	123 u+003b	139 <b>K</b>		155		171 u+251c	187 u+2596	203 	219 u+253c	235 u+251c	251 u+2596
-C	12	28	44 u+002c	60 u+003c	76 <b>1</b> u+006c	92 u+005c	108 u+002c	124 u+003c	140		156		172 u+2597	188 u+259d	204 u+004c	220	236 u+2597	252 u+259d
-D	13 RETURN	29 CURSOR RIGHT	45 u+002d	61 <b>—</b> u+003d	77 <b>F</b> n u+006d	93 u+005d	109 u+002d	125 u+003d	141	SHIFT+RETURN	157	CURSOR LEFT	173 u+2514	189 u+2518	205 [•1 u+004d	221	237 u+2514	253 u+2518
-E	LOWER CASE  u+000e	30	46 ■ u+002e	62 u+003e	78 <b>I</b> 1 u+006e	94 <b>†</b> u+2191	110 u+002e	126 u+003e	142 N	UPPER CASE  u+000f	158		174 u+2510	190 u+2598	206 N u+004e	222 u+2592	238 u+2510	254 u+2598
F	15 SET WINDOW TOP	31 ←	47 u+002f	63 u+003f	79 u+006f	95 u+2190	111 u+002f	127 u+003f	143	SET WINDOW END	159		175 u+2582	191 u+259a	207 O u+004f	223	239 u+2582	255 u+2592

duplicate area

# PETSCII (Original version) — Character sets 1 & 2

First Commodore PET 2001 (1977)

	00	10	20	30	40	50	60	70	80	90	Α0	В0	C0	D0	E0	F0
-0	0	16 <b>P</b>	32 SPACE	48 <b>B</b>	64	80 E	96	112	128	144	160 SHIFT+SPC	176	192	208	224	240
-1	i A	17 CURSOR DOWN	33	49 <b>1</b>	65 [ <u>A</u>	81	97 I	113 <b>1</b>	129	145 CURSOR UP	161	177	193	209	225	241
-2	2 <b>B</b>	REVERSE ON	34	2	66 <u>B</u>	82 <b>R</b>	98 I I	2	130	REVERSE OFF	162	178	194 <b>[]</b>	210	226	242
-3	3 STOP	HOME	35 #	3	67 <u>C</u>	83 [1]	99 #	3	131	147 CLEAR	163	179	195	211	227	243
-4	4 <b>D</b>	DEL DEL	36 <b>\$</b>	52	<u>"D</u> "	84	100 <b>\$</b>	116	132	IA8 INST	164	180	196	212	228	244
-5	5 <b>E</b>	21	37	53	69 <b>E</b>	85	101	5	133	149	165	181	197	213	229	245
-6	F	22 <b>V</b>	38 <b>Q</b>	54	70 <b>E</b>	86	102 &	6	134	150	166	182	198 <b>T</b>	214	230	246
-7	7 <b>G</b>	23	39	55	71   <u>G</u>	87	103	<sup>119</sup> 7	135	151	167	183	199	215	231	247
-8	8 <b>H</b>	24	40	8	72	<u> </u>	104	120	136	152	168	184	200	216	232	248
-9	9 I	25 <b>Y</b>	41	57	73 [ <u>I</u> ]	89 <b>2</b>	105	121	137	153	169	185	201	217	233	249
-A	10 J	26 Z	42 <b>#</b>	58	74 []	90	106	122	138	154	170	186	<sup>202</sup>	218	234	250
-В	II K	27 <b>C</b>	43 <b>+</b>	59	75 <u>K</u>	91	107	123	139	155	171 <b>H</b>	187	203	219	235	251
-C	12	28	44	60	76	92	108	124	140	156	172	188	204 	220	236	252
-D	RETURN	CURSOR RIGHT	45	61	77	93	109	125	SHIFT+RETURN	157 CURSOR LEFT	173	189	205	221	237	253
-E	14 N	30 ↑	46	62	<sup>78</sup> N	94 <b>†</b>	110	126	142	158 •π	174	190	206	222 <b>m 88</b>	238	254
-F	15	31 ←	47	63	79 [O]	95	111	127	143	159	175	191	207	223	239	255 <b>m</b> 🐯

## **PETSCII** (Original version) — Character set 1

First Commodore PET 2001 (1977) — Upper case (graphics mode)

	00	10	20	30	40	50	60	70	80	1	90	Α0	В0	C0	D0	duplica <b>E0</b>	te area
-0	0	16 P	32 4 SPACE u+0020	8 u+0030	64 (2 u+0040	80 u+0050	96 u+0020	112 <b>a</b> u+0030	128	144		160 SHIFT+SPC u+0020	176 u+250c	192 u+2500	208	224 u+0020	240 u+250c
-1	A	17 CURSOR DOWN u+0084	33 4 L u+0021		65 A u+0041	81 Q u+0051	97 u+0021	113 1 u+0031	129	145	CURSOR UP	161 u+258c	177 u+2534		209 u+25cf	225 u+258c	241 u+2534
-2	2 <b>B</b>	REVERSE ON	34 5 u+0022	u+0032	66 <b>B</b> u+0042	82 <b>R</b> u+0052	98 I I u+0022	114 u+0032	130	146 <b>R</b>	EVERSE OFF	162 u+2584	178 u+252c	194	210	226 u+2584	242 u+252c
-3	3 STOP u+0003	HOME	35 # 5 u+0023	3 u+0033	67 C u+0043	83 <b>5</b> u+0053	99 # u+0023	115 3 u+0033	131	147	CLEAR	163 u+2594	179 <b></b>	195	211 u+2665	227 u+2594	243 u+2524
-4	4 <b>D</b>	20 <b>DEL</b> u+0008	36 <b>\$</b> u+0024	2 4 u+0034	68 <b>D</b> u+0044	84 <b>T</b> u+0054	100 <b>\$</b> u+0024	116 4 u+0034	132	148	INST	164 u+2581	180 u+258e	196	212	228 u+2581	244 u+258e
-5	5 <b>E</b>	21	37 5 u+0025	5 u+0035	69 E u+0045	85 LJ u+0055	101 u+0025	117 5 u+0035	133	149		165 u+258f	181 u+258d	197	213 u+256d	229 u+258f	245 u+258d
-6	F	22 <b>V</b>	38 5. 8. u+0026	4 <b>6</b> u+0036	70 <b>F</b> u+0046	86 u+0056	102 & u+0026	118 <b>6</b> u+0036	134	150		166 u+2592	182	198	214 u+2573	230 u+2592	246
-7	7 <b>G</b>	23	39 5. u+0027	5 u+0037	71 <b>G</b> u+0047	87   •   u+0057	103 u+0027	119 u+0037	135	151		167 u+2595	183	199	215 u+25cb	231 u+2595	247
-8	8 <b>H</b>	24	40 5 u+0028	6 <b>B</b> u+0038	72 <b>H</b> u+0048	88 × u+0058	104 u+0028	120 <b>8</b> u+0038	136	152		168	184	200	216 u+2663	232	248
-9	9 I	25 <b>Y</b>	41 5 u+0029	7 9 u+0039	73 <b>I</b> u+0049	89 <b>\</b> u+0059	105 u+0029	121 <b>9</b> u+0039	137	153		169 u+25e4	185 u+2583	201 u+256e	217	233 u+25e4	249 u+2583
-A	J	26 Z	42 5 #: u+002a	8 ∴ u+003a	74 	90 u+005a	106 <b>★:</b> u+002a	122 • u+003a	138	154		170	186 u+2713	202 u+2570	218 u+2666	234	250 u+2713
-В	K	27	43 5 + u+002b	u+003b	75 <b>K</b> u+004b	91 L u+005b	107 <b>+</b> u+002b	123 u+003b	139	155		171 u+251c	187 u+2596	203 u+256f	219 u+253c	235 u+251c	251 u+2596
-C	12	28	44 6 u+002c	u+003c	76 	92 u+005c	108 u+002c	124 u+003c	140	156		172 u+2597	188 u+259d	204	220	236 u+2597	252 u+259d
-D	RETURN	CURSOR RIGHT	45 6 u+002d	u+003d	77	93 u+005d	109 u+002d	125 — u+003d	SHIFT+RETURN	157 C	URSOR LEFT	173 u+2514	189 u+2518	205 u+2572	221	237 u+2514	253 u+2518
-E	14 N	30	46	u+003e	78 N u+004e	94 <b>1</b> u+2191	110 ■ u+002e	126 u+003e	142	158 π		174 L u+2510	190 u+2598	206 u+2571	222 <b>m</b> u+2592	238	254 u+2598
-F	15	31 ←	47 6 u+002f	u+003f	79 O u+004f	95 u+2190	111 u+002f	127 u+003f	143	159		175 u+2582	191 u+259a	207	223	239 u+2582	255 <b>T</b> u+2592

# PETSCII (Original version) — Character set 2

First Commodore PET 2001 (1977) — Lower case (business mode)

		1	1 1					Lower case (bus									te area
	00	10	20	30	40	50	60	70	80	9	0	A0	В0	C0	D0	E0	F0
-0	0	16 P	32 SPACE u+0020	48 <b>2</b> u+0030	64 ( <b>2</b> u+0040	80 L u+0050	96 u+0020	112 P u+0030	128	144 P		60 SHIFT+SPC u+0020	176 u+250c	192 u+2500	208 u+0070	224 u+0020	240 u+250c
-1	i A	17 CURSOR DOWN u+0084	33 u+0021	49 <b>1</b> u+0031	65 u+0041	81 Q u+0051	97 L u+0021	113 <b>1</b> u+0031	129 a.	145 CUF	RSOR UP u+008d	61 u+258c	177 u+2534	193 u+0061	209 u+0071	225 u+258c	241 u+2534
-2	2 <b>B</b>	REVERSE ON	34 II u+0022	u+0032	66 Bi u+0042	82 R1 u+0052	98 II u+0022	114 u+0032	130 <b>b</b>	_	ERSE OFF	62 u+2584	178 u+252c	194 Lol u+0062	210 u+0072	226 u+2584	242 u+252c
-3	3 STOP u+0003	S HOME	35 <b>#</b> u+0023	3 u+0033	67 [] u+0043	83 u+0053	99 # u+0023	115 3 u+0033	131		CLEAR	63 u+2594	179 u+2524	195 u+0063	211 u+0073	227 u+2594	243 u+2524
-4	D D	20 <b>DEL</b> u+0008	36 <b>\$</b> u+0024	u+0034	68 L u+0044	84 u+0054	100 <b>\$</b> u+0024	116 4 u+0034	132 d		INST	64 u+2581	180 u+258e	196 Lal u+0064	212 L u+0074	228 u+2581	244 u+258e
<b>-5</b>	5 <b>E</b>	21	37 u+0025	53 <b>5</b> u+0035	69 L u+0045	85 u+0055	101 u+0025	117 5 u+0035	133	149 U	16	65 u+258f	181 u+258d	197 <u>u+0065</u>	213 u+0075	229 u+258f	245 u+258d
-6	F	22	8k u+0026	54 <b>6</b> u+0036	70 L u+0046	86 u+0056	102 & u+0026	118 <b>6</b> u+0036	134 <b>f</b>	150	16	66 u+2592	182	198 L u+0066	214 Lu- u+0076	230 u+2592	246
<b>-7</b>	7 <b>G</b>	23	39 u+0027	u+0037	71 G u+0047	87 u+0057	103 u+0027	119 u+0037	135	151 W		67 u+2595	183	199 <u>u</u> +0067	215 Lul u+0077	231 u+2595	247
-8	8 <b>H</b>	24	40 u+0028	8 u+0038	72 H u+0048	88   <b>E</b>   u+0058	104 u+0028	120 B u+0038	h	152	16	68	184	200 Li u+0068	216 L u+0078	232	248
-9	9 I	25 ¥	41 u+0029	57 <b>9</b> u+0039	73 [ <u>I</u> ] u+0049	89 u+0059	105 u+0029	121 <b>9</b> u+0039	137 1	153 归	16	69	185 u+2583	201 [1] u+0069	217 u+0079	233	249 u+2583
-A	10 J	26 Z	42 <b>*</b> u+002a	58 : u+003a	74 u+004a	90 u+005a	106 <b>*</b> u+002a	122 • u+003a	.i	154 <b>Z</b>	17	70	186 u+2713	202 u+006a	218 u+007a	234	250 u+2713
-B	II K	27	43 + u+002b	u+003b	75 <b>K</b> u+004b	91 L u+005b	107 <b>+</b> u+002b	123 u+003b	139	155	17	71 u+251c	187 u+2596	203 L u+006b	219 u+253c	235 u+251c	251 u+2596
-c	12	28	44 u+002c	60 u+003c	76 u+004c	92 •• u+005c	108 u+002c	124 u+003c	140	156	17	72 u+2597	188 u+259d	204 II u+006c	220	236 u+2597	252 u+259d
-D	13 RETURN	CURSOR RIGHT	45 — u+002d	u+003d	77 11 u+004d	93 u+005d	109 u+002d	125 — u+003d	SHIFT+RETURN	157 CURS	SOR LEFT	73 u+2514	189 u+2518	205 m u+006d	221	237 u+2514	253 u+2518
-E	14 N	30	46 ■ u+002e	62 u+003e	78 N u+004e	94 <b>†</b> u+2191	110 ■ u+002e	126 u+003e	142 <b>n</b>	158	17	74 u+2510	190 u+2598	206 Lin u+006e	222 u+2592	238 u+2510	254 u+2598
-F	15	31 ←	47 u+002f	63 u+003f	79 [O] u+004f	95 u+2190	111 u+002f	127 u+003f	143	159	17	75 u+2582	191 u+259a	207 u+006f	223	239 u+2582	255 u+2592
							duplica	ite area									

# Commodore 64 screen display codes — POKE character sets 1 & 2

Character codes in screen memory

	00	10	20	30	40	50	60	70	80	90	Α0	В0	C0	D0	E0	F0
-0	° C	P P	32 SPACE	48	64	80 <b>P</b>	96 SHIFT+SPC	112	128	P P	160	176	192	208	224	240
-1	Аа	17 <b>Q q</b>	33	49	65 <b>A</b>	81 <b>Q</b>	97	113	129 <b>A</b> a	145 <b>О д</b>	161	177	193 <b>A</b>	209	225	241
-2	В ь	18 R r	34	50	66 <b>B</b>	82 <b>R</b>	98	114	130 <b>B b</b>	146 <b>R C</b>	162	178	194	210	226	242
-3	<sup>3</sup> С с	<sup>19</sup> <b>S S</b>	35 #	51 <b>3</b>	67 <b>E</b> C	83 <b>T</b> S	99	115	131 <b>C C</b>	147 <b>S</b> S	163	179	195	<sup>211</sup> <b>S</b>	227	243
-4	D d	20 <b>T t</b>	36 <b>5</b>	52	68 <b>D</b>	84 T	100	116	132	148	164 <b>5</b>	180	196 <b>D</b>	212	228	244
-5	E e	<sup>21</sup> U U	37	53	69 <b>E</b>	85 U	101	117	E <b>e</b>	149 <b>[]]</b>	165	181	197	213	229	245
-6	F f	<sup>22</sup> U v	38 <b>&amp;</b>	54 <b>G</b>	70 <b>F</b>	86 <b>X</b> V	102	118	134 <b>F f</b>	U U	166	182	198	214 <b>X U</b>	230	246
-7	<sup>7</sup> G g	23   <b>4 W</b>	39	55	<sup>71</sup> <b>■ G</b>	87 <b>D H</b>	103	119	135 <b>G g</b>	151 H H	167	183	199 <b>[</b>	215	231	247
-8	8 H h	24 <b>X X</b>	40	56 <b>B</b>	72 <b>H</b>	88 <b>X</b>	104	120	H H	152 <b>X X</b>	168	184	200	216	232	248
-9	J i	<sup>25</sup> <b>Y y</b>	<sup>41</sup>	57 <b>9</b>	73 <b>I</b>	89 <b>Y</b>	105	121	137 <b>I i</b>	153 <b>Y y</b>	169	185	201 <b>1</b>	217	233	249
-A	J j	<sup>26</sup> Z Z	42 #	58	74 <b>T</b>	<sup>90</sup> <b>₹ Z</b>	106	122	138	154 <b>Z Z</b>	170	186	202	218 Z	234	250
-В	"K k	27 <b>L</b>	43	59	75 <b>K</b>	91	107	123	139 <b>K K</b>	155	171	187	203	219	235	251
-C	L 1	28 £	44	60	76 L	92	108	124	140	156 <b>£</b>	172	188	204	220	236	252
-D	13 <b>M</b> H	29 <b>J</b>	45	61	<sup>77</sup> M	93	109	125	141 M M	157	173	189	205	221	237	253
-E	14 <b>H</b> n	30	46	62	78 N	94	110	126	142 <b>H n</b>	158	174	190	206	222	238	254
-F	0 o	31	47	63	<sup>79</sup> <b>O</b>	95	111	127	143	159	175	191	207	223	239	255

#### Thick vs. narrow characters

C64 vs. PET 8032 — POKE character sets 1 & 2

	00	10	20	30	40	50	60	70	00	10	20	30	40	50	60	70
-0				BB												
-1		<b>0</b> 🕸											AA	Q ®		
-2		RR											BB	RR		
-3		5		33										55		
-4	DD		<b>5 *</b>	44							<b>5 5</b>		DD			
-5			**	55							* *					
-6			<b>E</b> 8.	66			***				<b>E</b>					
-7	<b>G</b> (5)			77									66			
-8		* **	CK				****			<b>x</b> ×	CC			XX	****	
-9			<b>)</b>	99							<b>)</b>	99			<b>8</b>	
-A			# #								###					w v
-В	KK												KK			
-C				<b>4 4</b>										₹ 8		
-D																
-E				<b>&gt;</b> >												
-F														88		

# **Commodore PETSCII control characters**

(monitor and keyboard)

Control characters	C0/C1		PET specific control characters	
BELL	BEL (07)	Produce bell tone.	ERASE TO LEFT	Erase all from start of line to current position. Don't move cursor.
ESC	ESC (1B)	Escape.	ERASE TO RIGHT	Erase all from current position to end of line. Don't move cursor.
FSH ON		Output following characters in flashing mode.	INSERT LINE ABOVE	Insert empty line before current line. Move remaining lines down.
FSH OFF		Terminate flashing mode.	KILL LINE	Delete current line. Move remaining lines up.
LOCK CASE		Disable SHIFT + C= keypress. User cannot change character set.	SCROLL DOWN	Scroll all lines down by one line.
LOWER CASE	SO (0E)	Switch character set to lower case (text/business mode).	SCROLL UP	Scroll all lines up by one line.
REVERSE ON		Output following characters in reverse field mode.	SET WINDOW END	Set viewport bottom-right coordinate to current position.
REVERSE OFF		Terminate reverse field mode.	SET WINDOW TOP	Set viewport top-left coordinate to current position.
TAB SET/CLEAR	HTS (88)	Set horizontal tab position. Clear position if it exists already.		
UL ON		Output following characters in underlined mode.	Keyboard codes	
UL OFF		Terminate underlined mode.	F1F8	Keycodes for function keys F1 to F8.
UNLOCK CASE		Enable SHIFT + C= to change character set.	HLP	Keycode for HELP key (on F7 key on keyboard).
UPPER CASE	SI (0F)	Switch character set to upper case (graphics mode).	RUN	Keycode for RUN key (SHIFT+RUN/STOP). Pressing RUN causes the loading and running of a program.
Cursor and editing c	ontrols		SHIFT+SPC	Keycode for SHIFT+SPACE. The character is visually similar to a
CLEAR		Clear screen and move cursor to home position (top left). Similar to		regular space. (Not really a non-breaking space without word wrapping functionality.)
		Ctrl+L on some systems. Closest ASCII equivalent is FF (0C).	STOP	Keycode for STOP key. Pressing STOP ends the current program.
CURSOR DOWN	IND (84)	Move cursor to next line, keeping the same column.		Similar to Ctrl+C on other systems.
CURSOR LEFT		Move cursor one position to left.	Color codes	
CURSOR RIGHT		Move cursor one position to right.		Dadukhua
CURSOR UP	RI (8D)	Move cursor to previous line, keeping the same column.	DK BLU	Dark blue
DEL	BS (08)	Delete character on the left.	DK CYN	Dark cyan
HOME		Move cursor to home position (top left) of the display.	DK PUR	Dark purple
INST		Insert a space at current position.	DK YEL	Dark yellow
LINE FEED	LF (0A)	Move cursor to next row, keeping the same column.	BL GRN	Blue green
RETURN		Carriage return and line feed. This is the newline character. Closest	YEL GRN	Yellow green
CLUET, DETUDN		ASCII equivalent is CR+LF. *)	DK GRY	Dark gray (gray 1)
SHIFT+RETURN	LIT (00)	Carriage return and line feed. Do not execute current line. *)	MED GRY	Medium gray (gray 2)
TAB	HT (09)	Move cursor horizontally to next tab position.	LGT GRY	Light gray (gray 3)
			Other colors appear by their name	

C0/C1: Respective standard control code in ASCII/Unicode.

<sup>\*)</sup> Pressing RETURN executes current line, SHIFT+RETURN discards it. Both move cursor to start of next line. Line ending convention is RETURN alone, no LF. Printer control characters differ from these codes.