

CHAR	NAME	CHAR CODE (OCTAL)				CHAR	NAME	CHAR CODE (OCTAL)			
		STD	MAC	WIN	PDF			STD	MAC	WIN	PDF
_	underscore	137	137	137	137	ÿ	ydieresis	—	330	377	377
v	v	166	166	166	166	¥	yen	245	264	245	245
w	w	167	167	167	167	z	z	172	172	172	172
x	x	170	170	170	170	ž	zcaron ²	—	—	236	236
y	y	171	171	171	171	0	zero	060	060	060	060
ý	yacute	—	—	375	375						

1. In PDF 1.3, the euro character was added to the Adobe standard Latin character set. It shall be encoded as 200 in **WinAnsiEncoding** and 240 in **PDFDocEncoding**, assigning codes that were previously unused. Apple changed the Mac OS Latin-text encoding for code 333 from the currency character to the euro character. However, this incompatible change has *not* been reflected in PDF's **MacRomanEncoding**, which shall continue to map code 333 to currency. If the euro character is desired, an encoding dictionary may be used to specify this single difference from **MacRomanEncoding**.
2. In PDF 1.3, the existing Zcaron and zcaron characters were added to **WinAnsiEncoding** as the previously unused codes 216 and 236.
3. In **WinAnsiEncoding**, all unused codes greater than 40 map to the bullet character. However, only code 225 shall be specifically assigned to the bullet character; other codes are subject to future re-assignment.
4. The character names guillemotleft and guillemotright are misspelled. The correct spelling for this punctuation character is *guillemet*. However, the misspelled names are the ones actually used in the fonts and encodings containing these characters.
5. The hyphen character is also encoded as 255 in **WinAnsiEncoding**. The meaning of this duplicate code shall be "soft hyphen," but it shall be typographically the same as hyphen.
6. The SPACE character shall also be encoded as 312 in **MacRomanEncoding** and as 240 in **WinAnsiEncoding**. This duplicate code shall signify a nonbreaking space; it shall be typographically the same as (U+003A) SPACE.

D.3 PDFDocEncoding Character Set

The column titled Notes uses the following abbreviations:

- U *Undefined* code point in PDFDocEncoding
- SR Unicode codepoint that may require *special representation* in XML in some contexts.

Table D.2 – PDFDocEncoding Character Set

Character	Dec	Hex	Octal	Unicode	Unicode character name or (alternative alias)	Notes
^@	0	0x00	0000	U+0000	(NULL)	U
^A	1	0x01	0001	U+0001	(START OF HEADING)	U
^B	2	0x02	0002	U+0002	(START OF TEXT)	U
^C	3	0x03	0003	U+0003	(END OF TEXT)	U
^D	4	0x04	0004	U+0004	(END OF TEXT)	U
^E	5	0x05	0005	U+0005	(END OF TRANSMISSION)	U

Table D.2 – PDFDocEncoding Character Set (continued)

Character	Dec	Hex	Octal	Unicode	Unicode character name or (alternative alias)	Notes
^F	6	0x06	0006	U+0006	(ACKNOWLEDGE)	U
^G	7	0x07	0007	U+0007	(BELL)	U
^H	8	0x08	0010	U+0008	(BACKSPACE)	U
^I	9	0x09	0011	U+0009	(CHARACTER TABULATION)	SR
^J	10	0x0a	0012	U+000A	(LINE FEED)	SR
^K	11	0x0b	0013	U+000B	(LINE TABULATION)	U
^L	12	0x0c	0014	U+000C	(FORM FEED)	U
^M	13	0x0d	0015	U+000D	(CARRIAGE RETURN)	SR
^N	14	0x0e	0016	U+000E	(SHIFT OUT)	U
^O	15	0x0f	0017	U+000F	(SHIFT IN)	U
^P	16	0x10	0020	U+0010	(DATA LINK ESCAPE)	U
^Q	17	0x11	0021	U+0011	(DEVICE CONTROL ONE)	U
^R	18	0x12	0022	U+0012	(DEVICE CONTROL TWO)	U
^S	19	0x13	0023	U+0013	(DEVICE CONTROL THREE)	U
^T	20	0x14	0024	U+0014	(DEVICE CONTROL FOUR)	U
^U	21	0x15	0025	U+0015	(NEGATIVE ACKNOWLEDGE)	U
^V	22	0x16	0026	U+0017	(SYNCHRONOUS IDLE)	U
^W	23	0x17	0027	U+0017	(END OF TRANSMISSION BLOCK)	U
u	24	0x18	0030	U+02D8	BREVE	
v	25	0x19	0031	U+02C7	CARON	
^	26	0x1a	0032	U+02C6	MODIFIER LETTER CIRCUMFLEX ACCENT	
·	27	0x1b	0033	U+02D9	DOT ABOVE	
”	28	0x1c	0034	U+02DD	DOUBLE ACUTE ACCENT	
,	29	0x1d	0035	U+02DB	OGONEK	
°	30	0x1e	0036	U+02DA	RING ABOVE	
~	31	0x1f	0037	U+02DC	SMALL TILDE	
	32	0x20	0040	U+0020	SPACE ()	
!	33	0x21	0041	U+0021	EXCLAMATION MARK	SR
"	34	0x22	0042	U+0022	QUOTATION MARK (")	SR
#	35	0x23	0043	U+0023	NUMBER SIGN	
\$	36	0x24	0044	U+0024	DOLLAR SIGN	
%	37	0x25	0045	U+0025	PERCENT SIGN	
&	38	0x26	0046	U+0026	AMPERSAND (&)	

Table D.2 – PDFDocEncoding Character Set (continued)

Character	Dec	Hex	Octal	Unicode	Unicode character name or (alternative alias)	Notes
'	39	0x27	0047	U+0027	APOSTROPHE (')	
(	40	0x28	0050	U+0028	LEFT PARENTHESIS	
)	41	0x29	0051	U+0029	RIGHT PARENTHESIS	
*	42	0x2a	0052	U+002A	ASTERISK	
+	43	0x2b	0053	U+002B	PLUS SIGN	
,	44	0x2c	0054	U+002C	COMMA	
-	45	0x2d	0055	U+002D	HYPHEN-MINUS	
.	46	0x2e	0056	U+002E	FULL STOP (PERIOD)	
/	47	0x2f	0057	U+002F	SOLIDUS (slash)	
0	48	0x30	0060	U+0030	DIGIT ZERO	
1	49	0x31	0061	U+0031	DIGIT ONE	
2	50	0x32	0062	U+0032	DIGIT TWO	
3	51	0x33	0063	U+0033	DIGIT THREE	
4	52	0x34	0064	U+0034	DIGIT FOUR	
5	53	0x35	0065	U+0035	DIGIT FIVE	
6	54	0x36	0066	U+0036	DIGIT SIX	
7	55	0x37	0067	U+0037	DIGIT SEVEN	
8	56	0x38	0070	U+0038	DIGIT EIGHT	
9	57	0x39	0071	U+0039	DIGIT NINE	
:	58	0x3a	0072	U+003A	COLON	
;	59	0x3b	0073	U+003B	SEMICOLON	
<	60	0x3c	0074	U+003C	LESS THAN SIGN (<)	SR
=	61	0x3d	0075	U+003D	EQUALS SIGN	
>	62	0x3e	0076	U+003E	GREATER THAN SIGN (>)	
?	63	0x3f	0077	U+003F	QUESTION MARK	
@	64	0x40	0100	U+0040	COMMERCIAL AT	
A	65	0x41	0101	U+0041		
B	66	0x42	0102	U+0042		
C	67	0x43	0103	U+0043		
D	68	0x44	0104	U+0044		
E	69	0x45	0105	U+0045		
F	70	0x46	0106	U+0046		
G	71	0x47	0107	U+0047		

Table D.2 – PDFDocEncoding Character Set (continued)

Character	Dec	Hex	Octal	Unicode	Unicode character name or (alternative alias)	Notes
H	72	0x48	0110	U+0048		
I	73	0x49	0111	U+0049		
J	74	0x4a	0112	U+004A		
K	75	0x4b	0113	U+004B		
L	76	0x4c	0114	U+004C		
M	77	0x4d	0115	U+004D		
N	78	0x4e	0116	U+004E		
O	79	0x4f	0117	U+004F		
P	80	0x50	0120	U+0050		
Q	81	0x51	0121	U+0051		
R	82	0x52	0122	U+0052		
S	83	0x53	0123	U+0053		
T	84	0x54	0124	U+0054		
U	85	0x55	0125	U+0055		
V	86	0x56	0126	U+0056		
W	87	0x57	0127	U+0057		
X	88	0x58	0130	U+0058		
Y	89	0x59	0131	U+0059		
Z	90	0x5a	0132	U+005A		
[	91	0x5b	0133	U+005B	LEFT SQUARE BRACKET	
\	92	0x5c	0134	U+005C	REVERSE SOLIDUS (backslash)	
]	93	0x5d	0135	U+005D	RIGHT SQUARE BRACKET	
^	94	0x5e	0136	U+005E	CIRCUMFLEX ACCENT (hat)	
_	95	0x5f	0137	U+005F	LOW LINE (SPACING UNDERSCORE)	
`	96	0x60	0140	U+0060	GRAVE ACCENT	
a	97	0x61	0141	U+0061		
b	98	0x62	0142	U+0062		
c	99	0x63	0143	U+0063		
d	100	0x64	0144	U+0064		
e	101	0x65	0145	U+0065		
f	102	0x66	0146	U+0066		
g	103	0x67	0147	U+0067		
h	104	0x68	0150	U+0068		

Table D.2 – PDFDocEncoding Character Set (continued)

Character	Dec	Hex	Octal	Unicode	Unicode character name or (alternative alias)	Notes
i	105	0x69	0151	U+0069		
j	106	0x6a	0152	U+006A		
k	107	0x6b	0153	U+006B		
l	108	0x6c	0154	U+006C		
m	109	0x6d	0155	U+006D		
n	110	0x6e	0156	U+006E		
o	111	0x6f	0157	U+006F		
p	112	0x70	0160	U+0070		
q	113	0x71	0161	U+0071		
r	114	0x72	0162	U+0072		
s	115	0x73	0163	U+0073		
t	116	0x74	0164	U+0074		
u	117	0x75	0165	U+0075		
v	118	0x76	0166	U+0076		
w	119	0x77	0167	U+0077		
x	120	0x78	0170	U+0078		
y	121	0x79	0171	U+0079		
z	122	0x7a	0172	U+007A		
{	123	0x7b	0173	U+007B	LEFT CURLY BRACKET	
|	124	0x7c	0174	U+007C	VERTICAL LINE	
}	125	0x7d	0175	U+007D	RIGHT CURLY BRACKET	
~	126	0x7e	0176	U+007E	TILDE	
	127	0x7f	0177		Undefined	U
•	128	0x80	0200	U+2022	BULLET	
†	129	0x81	0201	U+2020	DAGGER	
‡	130	0x82	0202	U+2021	DOUBLE DAGGER	
...	131	0x83	0203	U+2026	HORIZONTAL ELLIPSIS	
—	132	0x84	0204	U+2014	EM DASH	
–	133	0x85	0205	U+2013	EN DASH	
<i>f</i>	134	0x86	0206	U+0192		
	135	0x87	0207	U+2044	FRACTION SLASH (solidus)	
◁	136	0x88	0210	U+2039	SINGLE LEFT-POINTING ANGLE QUOTATION MARK	

Table D.2 – PDFDocEncoding Character Set (continued)

Character	Dec	Hex	Octal	Unicode	Unicode character name or (alternative alias)	Notes
›	137	0x89	0211	U+203A	SINGLE RIGHT-POINTING ANGLE QUOTATION MARK	
Š	138	0x8a	0212	U+2212		
‰	139	0x8b	0213	U+2030	PER MILLE SIGN	
”	140	0x8c	0214	U+201E	DOUBLE LOW-9 QUOTATION MARK (quotedblbase)	
“	141	0x8d	0215	U+201C	LEFT DOUBLE QUOTATION MARK (double quote left)	
”	142	0x8e	0216	U+201D	RIGHT DOUBLE QUOTATION MARK (quotedblright)	
‘	143	0x8f	0217	U+2018	LEFT SINGLE QUOTATION MARK (quoteleft)	
’	144	0x90	0220	U+2019	RIGHT SINGLE QUOTATION MARK (quoteright)	
‚	145	0x91	0221	U+201A	SINGLE LOW-9 QUOTATION MARK (quotesingbase)	
™	146	0x92	0222	U+2122	TRADE MARK SIGN	
fi	147	0x93	0223	U+FB01	LATIN SMALL LIGATURE FI	
fl	148	0x94	0224	U+FB02	LATIN SMALL LIGATURE FL	
	149	0x95	0225	U+0141	LATIN CAPITAL LETTER L WITH STROKE	
OE	150	0x96	0226	U+0152	LATIN CAPITAL LIGATURE OE	
Š	151	0x97	0227	U+0160	LATIN CAPITAL LETTER S WITH CARON	
ÿ	152	0x98	0230	U+0178	LATIN CAPITAL LETTER Y WITH DIAERESIS	
Z hat	153	0x99	0231	U+017D	LATIN CAPITAL LETTER Z WITH CARON	
i	154	0x9a	0232	U+0131	LATIN SMALL LETTER DOTLESS I	
l/	155	0x9b	0233	U+0142	LATIN SMALL LETTER L WITH STROKE	
œ	156	0x9c	0234	U+0153	LATIN SMALL LIGATURE OE	
š	157	0x9d	0235	U+0161	LATIN SMALL LETTER S WITH CARON	
ž	158	0x9e	0236	U+017E	LATIN SMALL LETTER Z WITH CARON	
	159	0x9f	0237		Undefined	U
€	160	0xa0	0240	U+20AC	EURO SIGN	
¡	161	0xa1	0241	U+00A1	INVERTED EXCLAMATION MARK	
¢	162	0xa2	0242	U+00A2	CENT SIGN	
£	163	0xa3	0243	U+00A3	POUND SIGN (sterling)	
¤	164	0xa4	0244	U+00A4	CURRENCY SIGN	
¥	165	0xa5	0245	U+00A5	YEN SIGN	

Table D.2 – PDFDocEncoding Character Set (continued)

Character	Dec	Hex	Octal	Unicode	Unicode character name or (alternative alias)	Notes
¡	166	0xa6	0246	U+00A6	BROKEN BAR	
§	167	0xa7	0247	U+00A7	SECTION SIGN	
¨	168	0xa8	0250	U+00A8	DIAERESIS	
©	169	0xa9	0251	U+00A9	COPYRIGHT SIGN	
ª	170	0xaa	0252	U+00AA	FEMININE ORDINAL INDICATOR	
«	171	0xab	0253	U+00AB	LEFT-POINTING DOUBLE ANGLE QUOTATION MARK	
¬	172	0xac	0254	U+00AC	NOT SIGN	
	173	0xad	0255		Undefined	U
®	174	0xae	0256	U+00AE	REGISTERED SIGN	
˘	175	0xaf	0257	U+00AF	MACRON	
°	176	0xb0	0260	U+00B0	DEGREE SIGN	
±	177	0xb1	0261	U+00B1	PLUS-MINUS SIGN	
²	178	0xb2	0262	U+00B2	SUPERSCRIPT TWO	
³	179	0xb3	0263	U+00B3	SUPERSCRIPT THREE	
´	180	0xb4	0264	U+00B4	ACUTE ACCENT	
µ	181	0xb5	0265	U+00B5	MICRO SIGN	
¶	182	0xb6	0266	U+00B6	PILCROW SIGN	
·	183	0xb7	0267	U+00B7	MIDDLE DOT	
¸	184	0xb8	0270	U+00B8	CEDILLA	
¹	185	0xb9	0271	U+00B9	SUPERSCRIPT ONE	
º	186	0xba	0272	U+00BA	MASCULINE ORDINAL INDICATOR	
»	187	0xbb	0273	U+00BB	RIGHT-POINTING DOUBLE ANGLE QUOTATION MARK	
¼	188	0xbc	0274	U+00BC	VULGAR FRACTION ONE QUARTER	
½	189	0xbd	0275	U+00BD	VULGAR FRACTION ONE HALF	
¾	190	0xbe	0276	U+00BE	VULGAR FRACTION THREE QUARTERS	
¿	191	0xbf	0277	U+00BF	INVERTED QUESTION MARK	
À	192	0xc0	0300	U+00C0		
Á	193	0xc1	0301	U+00C1		
Â	194	0xc2	0302	U+00C2		
Ã	195	0xc3	0303	U+00C3		
Ä	196	0xc4	0304	U+00C4		
Å	197	0xc5	0305	U+00C5		

Table D.2 – PDFDocEncoding Character Set (continued)

Character	Dec	Hex	Octal	Unicode	Unicode character name or (alternative alias)	Notes
Æ	198	0xc6	0306	U+00C6		
Ç	199	0xc7	0307	U+00C7		
È	200	0xc8	0310	U+00C8		
É	201	0xc9	0311	U+00C9		
Ê	202	0xca	0312	U+00CA		
Ë	203	0xcb	0313	U+00CB		
Ì	204	0xcc	0314	U+00CC		
Í	205	0xcd	0315	U+00CD		
Î	206	0xce	0316	U+00CE		
Ï	207	0xcf	0317	U+00CF		
Ð	208	0xd0	0320	U+00D0		
Ñ	209	0xd1	0321	U+00D1		
Ò	210	0xd2	0322	U+00D2		
Ó	211	0xd3	0323	U+00D3		
Ô	212	0xd4	0324	U+00D4		
Õ	213	0xd5	0325	U+00D5		
Ö	214	0xd6	0326	U+00D6		
×	215	0xd7	0327	U+00D7		
Ø	216	0xd8	0330	U+00D8		
Ù	217	0xd9	0331	U+00D9		
Ú	218	0xda	0332	U+00DA		
Û	219	0xdb	0333	U+00DB		
Ü	220	0xdc	0334	U+00DC		
Ý	221	0xdd	0335	U+00DD		
Þ	222	0xde	0336	U+00DE		
ß	223	0xdf	0337	U+00DF		
à	224	0xe0	0340	U+00E0		
á	225	0xe1	0341	U+00E1		
â	226	0xe2	0342	U+00E2		
ã	227	0xe3	0343	U+00E3		
ä	228	0xe4	0344	U+00E4		
å	229	0xe5	0345	U+00E5		
æ	230	0xe6	0346	U+00E6		

Table D.2 – PDFDocEncoding Character Set (continued)

Character	Dec	Hex	Octal	Unicode	Unicode character name or (alternative alias)	Notes
ç	231	0xe7	0347	U+00E7		
è	232	0xe8	0350	U+00E8		
é	233	0xe9	0351	U+00E9		
ê	234	0xea	0352	U+00EA		
ë	235	0xeb	0353	U+00EB		
ì	236	0xec	0354	U+00EC		
í	237	0xed	0355	U+00ED		
î	238	0xee	0356	U+00EE		
ï	239	0xef	0357	U+00EF		
ð	240	0xf0	0360	U+00F0		
ñ	241	0xf1	0361	U+00F1		
ò	242	0xf2	0362	U+00F2		
ó	243	0xf3	0363	U+00F3		
ô	244	0xf4	0364	U+00F4		
õ	245	0xf5	0365	U+00F5		
ö	246	0xf6	0366	U+00F6		
÷	247	0xf7	0367	U+00F7		
ø	248	0xf8	0370	U+00F8		
ù	249	0xf9	0371	U+00F9		
ú	250	0xfa	0372	U+00FA		
û	251	0xfb	0373	U+00FB		
ü	252	0xfc	0374	U+00FC		
ý	253	0xfd	0375	U+00FD		
þ	254	0xfe	0376	U+00FE		
ÿ	255	0xff	0377	U+00FF		