

See Your Characters in SAS Studio

Exploring the great unknown



Re store Peace to Your Programs

SAS Studio



Failed to transcode data from U_UTF8_CE to U_WLATIN1_CE encoding because it contained characters which are not supported by your SAS session encoding. Please review your encoding= and locale= SAS system options to ensure that they can accommodate the data that you want to process. A portion of the source string, in hex representation is:

Close

×

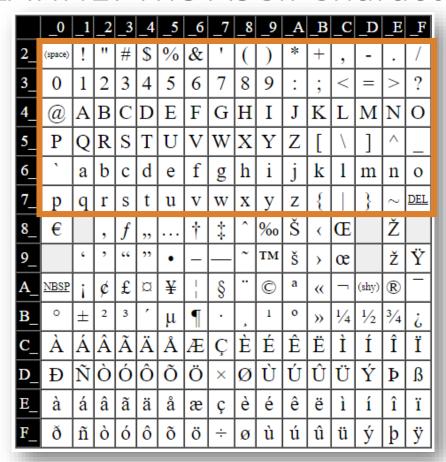


WLATIN1

	_0	_1	_2	_3	_4	_5	_6	_7	_8	_9	_A	_B	_C	_D	_E	_F
2_	(space)	!	"	#	\$	%	&	1	()	*	+	,	-		/
3_	0	1	2	3	4	5	6	7	8	9	:	;	<	=	>	?
4_	<u>@</u>	A	В	C	D	E	F	G	Η	Ι	J	K	L	M	N	O
5_	P	Q	R	S	T	U	V	W	X	Y	Z	[\]	^	_
6_	`	a	b	c	d	e	f	g	h	i	j	k	1	m	n	o
7_	p	q	r	S	t	u	v	w	X	у	Z	{		}	?	<u>DEL</u>
8_	€		,	f	,,		†	*	^	‰	Š	•	Œ		Ž	
9_		6	,	66	"	•	_	_	~	TM	š	>	œ		ž	Ÿ
A _	NBSP	i	¢	£	¤	¥	1	§		©	a	«	_	(shy)	®	_
B _	0	±	2	3	,	μ	¶		3	1	0	>>	1/4	1/2	3/4	ن
C _	À	Á	Â	Ã	Ä	Å	Æ	Ç	È	É	Ê	Ë	Ì	Í	Î	Ϊ
D_	Ð	Ñ	Ò	Ó	Ô	Õ	Ö	×	Ø	Ù	Ú	Û	Ü	Ý	Þ	ß
E_	à	á	â	ã	ä	å	æ	ç	è	é	ê	ë	ì	í	î	ï
F_	ð	ñ	ò	ó	ô	õ	ö	÷	ø	ù	ú	û	ü	ý	þ	ÿ



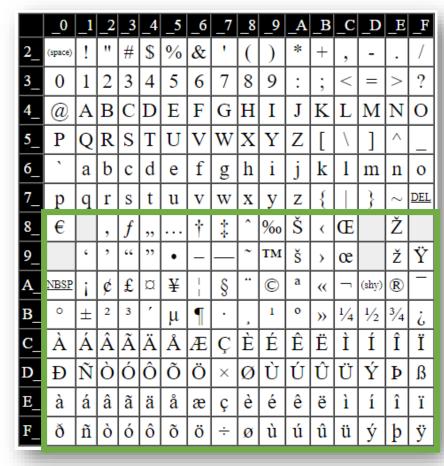
WLATIN1: The ASCII Characters



Represented as **one** byte in UTFF-8



WLATIN1: Not ASCII



Represented as two or three bytes in UTF-8



How UTF-8 characters are different

Hexadecimal representation

	€	1	2	3
WLATIN1	80	31	32	33
UTF-8	E282AC	31	32	33



Suppose to be ASCII

- Keyboard punctuation → typographic characters
 - Hyphen or minus (-) → En dash (-)
 - Apostrophe (')
 → Quotation marks (' ')
 - Quotation mark (") → Double quotation marks ("")
- Newline
 - Windows vs. Unix



Looks fine in SAS Studio

Errors in the SAS Log!

- Characters not in SAS Session encoding
- Typographical characters



KPROPDATA

Remove or convert unprintable characters

- Input string
- Output type for unprintable characters
 - UESC Replace with Unicode escape (\unnnn)
 - BLANK Replace Space
 - TRIM Removes
 - etc
- Input encoding
- Output encoding



KPROPDATA



BASECHAR

Convert characters to base type

 Converts characters to the "base" form without accents or other combining characters





