INTERNATIONAL STANDARD

ISO 8859-3

First edition 1988-04-15



INTERNATIONAL ORGANIZATION FOR STANDARDIZATION ORGANISATION INTERNATIONALE DE NORMALISATION МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ

Information processing — 8-bit single-byte coded graphic character sets

Part 3:

Latin alphabet No. 3 AND ARD PREVIEW

Traitement de l'information - Jeux de caractères graphiques codés sur un seul octet -

Partie 3: Alphabet latin nº 3

https://standards.iteh.ai/catalog/standards/sist/bd69f04d-d9e4-4a30-87e5-222877bf209d/iso-

Reference number ISO 8859-3:1988 (E)

ISO 8859-3: 1988 (E)

Contents

			Pa	ge
For	reword .			iii
Inti	roductio	n		iv
1	Scope .			1
2	Confor	mance .		1
3	Normat	tive refe	rences	1
4	Definition	ons		1
	4.1	bit con	nbination; byte	1
	4.2	charac	ter	1
	4.3	coded	character set; code	KIK VIK W
	4.4		ablestandards.itch	.ai)
	4.5	graphi	c character	1
	4.6	graphi	symbol	2 1 4-20 97-5 222977h#2000/iss
	4.7	positio	://standards.iteh.ai/eatalog/standards/sist/bd69f04d-d9e n	2
5	Notatio	on, code	e table and names	2
	5.1	Notati	on	2
	5.2	Layou	t of the code table	2
	5.3	Name	s and meanings	2
		5.3.1	SPACE (SP)	2
		5.3.2	NO-BREAK SPACE (NBSP)	2
		5.3.3	SOFT HYPHEN (SHY)	2
6	Specif	ication	of the coded character set	2
	6.1	Chara	cters of the set and their coded representation	2
	6.2	Code	table	4
7	Desigr	nation o	f the character set	4
8	Bit cor	mbinati	ons not to be used	4

Printed in Switzerland

[©] International Organization for Standardization, 1988 ●

ISO 8859-3: 1988 (E)

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborate closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 8859-3 was prepared by Technical Committee ISO/TC 97, *Information processing systems.*

ISO 8859 consists of the following parts, under the general title *Information* processing — 8-bit single-byte coded graphic character sets:

- Part 1: Latin alphabet No. 1
- Part 2: Latin alphabet No. 2
- Part 3: Latin alphabet No. 3
- Part 4: Latin alphabet No. 4
- Part 5: Latin/Cyrillic alphabet
- Part 6: Latin/Arabic alphabet
- Part 7: Latin/Greek alphabet
- Part 8: Latin/Hebrew alphabet

ISO 8859-3: 1988 (E)

Introduction

ISO 8859 consists of several parts. Each part specifies a set of up to 191 graphic characters and the coded representation of each of these characters by means of a single 8-bit byte. The use of control functions for the coded representation of composite characters is prohibited by ISO 8859. Each set is intended for use for a group of languages.

iTeh STANDARD PREVIEW (standards.iteh.ai)

ISO 8859-3:1988

https://standards.iteh.ai/catalog/standards/sist/bd69f04d-d9e4-4a30-87e5-222877bf209c/iso-8859-3-1988

Information processing — 8-bit single-byte coded graphic character sets —

Part 3:

Latin alphabet No. 3

1 Scope

This part of ISO 8859 specifies a set of 184 graphic characters identified as Latin alphabet No. 3.

This set of graphic characters, the Latin alphabet No. 3, is intended for use in data processing and text applications and may also be used for information interchange.

The set contains graphic characters used for general purpose applications in typical office environments in the following languages:

Afrikaans, Catalan, Dutch, English, Esperanto, German, Italian, Maltese, Spanish and Turkish.

This set of graphic characters is suitable for use in a version of an 8-bit code according to ISO 2022 or ISO 4873.

NOTE — ISO 8859 is not intended for use with CCITT-defined Telematic services. If information coded according to ISO 8859 is to be transferred to such services, it will have to conform at the coding interface to their requirements.

2 Conformance

A set of graphic characters is in conformance with this part of ISO 8859 if it comprises all graphic characters specified herein to the exclusion of any other and if their coded representations are those specified by this part of ISO 8859.

Equipment claimed to implement this part of ISO 8859 shall implement all 184 characters.

3 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO 8859. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this part of ISO 8859 are encouraged to investigate the possibility of applying the most recent editions of the standards listed below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 646: 1983, Information processing — ISO 7-bit coded character set for information interchange.

ISO 2022: 1986, Information processing — ISO 7-bit and 8-bit coded character sets — Code extension techniques.

ISO 4873: 1986, Information processing — ISO 8-bit code for information interchange — Structure and rules for implementation

ISO 6429: 1988, Information processing — ISO 7-bit and 8-bit coded character sets — Control functions for coded character sets.

4 Definitions 5-222877bf209c/iso-

For the purpose of this part of ISO 8859 the following definitions apply:

- **4.1 bit combination; byte:** An ordered set of bits that represents a character or is used as a part of the representation of a character.
- **4.2 character:** A member of a set of elements used for the organization, control or representation of data.
- **4.3 coded character set; code:** A set of unambiguous rules that establishes a character set and the one-to-one relationship between each character of the set and its coded representation.
- **4.4 code table:** A table showing the character allocated to each bit combination in a code.
- **4.5 graphic character:** A character, other than a control function, that has a visual representation normally handwritten, printed or displayed, and that has a coded representation consisting of one or more bit combinations.

 ${\sf NOTE}-{\sf In}$ ISO 8859 a single bit combination is used to represent each character.

4.6 graphic symbol: A visual representation of a graphic character.

4.7 position: That part of a code table identified by its column and row co-ordinates.

5 Notation, code table and names

5.1 Notation

The bits of the bit combinations of the 8-bit code are identified by b_8 , b_7 , b_6 , b_5 , b_4 , b_3 , b_2 and b_1 , where b_8 is the highest-order, or most-significant bit and b_1 is the lowest-order, or least-significant bit.

The bit combinations may be interpreted to represent numbers in binary notation by attributing the following weights to the individual bits:

Bit	b ₈	b ₇	b ₆	b ₅	b ₄	b ₃	b ₂	b ₁	
Weight	128	64	32	16	8	4	2	1	

Using these weights, the bit combinations of the 8-bit code represent numbers in the range 0 to 255.

In this part of ISO 8859 the bit combinations are identified by notations of the form xx/yy, where xx and yy are numbers in the range 00 to 15. The correspondence between the notations of the form xx/yy and the bit combinations consisting of the bits b_8 to b_1 , is a follows:

- xx is the number represented by b_8 , b_7 , b_6 and b_5 where these bits are given the weights 8, 4, 2 and 1 respectively;
- yy is the number represented by b_4 , b_3 , b_2 and b_1 where these bits are given the weights 8, 4, 2 and 1 respectively.

5.2 Layout of the code table

An 8-bit code table consists of 256 positions arranged in 16 columns and 16 rows. The columns and the rows are numbered 00 to 15

The code table positions are identified by notations of the form xx/yy, where xx is the column number and yy is the row number.

The positions of the code table are in one-to-one correspondence with the bit combinations of the code. The notation of a code table position, of the form xx/yy, is the same as that of the corresponding bit combination.

5.3 Names and meanings

This part of ISO 8859 assigns at least one name to each character. In addition, it specifies a graphic symbol for each graphic character. By convention only capital letters, the graphic symbols of small letters and hyphens are used for writing the names of the characters.

The names chosen to denote graphic characters are intended to reflect their customary meaning. However, except for SPACE (SP), NO-BREAK SPACE (NBSP) and SOFT HYPHEN (SHY), this part of ISO 8859 does not define and does not restrict the meanings of graphic characters. Neither does it specify a particular style or font design for imaging graphic characters.

5.3.1 SPACE (SP)

This character may be interpreted as a graphic character, a control character or as both. As a graphic character it has the visual representation consisting of the absence of a graphic symbol.

5.3.2 NO-BREAK SPACE (NBSP)

A graphic character the visual representation of which consists of the absence of a graphic symbol, for use when a line break is to be prevented in the text as presented.

5.3.3 SOFT HYPHEN (SHY)

A graphic character that is imaged by a graphic symbol identical with, or similar to, that representing HYPHEN, for use when a line break has been established within a word.

6 Specification of the coded character set

This part of ISO 8859 specifies 184 characters allocated to the bit combinations of the Code Table. None of these characters are "non-spacing".

The use of control functions, such as BACKSPACE or CARRIAGE RETURN for the coded representation of composite characters is prohibited by this International Standard.

6.1 Characters of the set and their coded representation

Table 1 - Character set - Coded representation

Bit combination	Name
02/00	SPACE
02/01	EXCLAMATION MARK
02/02	QUOTATION MARK
02/03	NUMBER SIGN
02/04	DOLLAR SIGN
02/05	PERCENT SIGN
02/06	AMPERSAND
02/07	APOSTROPHE
02/08	LEFT PARENTHESIS
02/09	RIGHT PARENTHESIS
02/10	ASTERISK
02/11	PLUS SIGN
02/12	COMMA
02/13	HYPHEN, MINUS SIGN
02/14	FULL STOP
02/15	SOLIDUS

Bit combination	Name		Bit combination	Name
03/00	DIGIT ZERO]	07/05	SMALL LETTER u
03/01	DIGIT ONE		07/06	SMALL LETTER v
03/02	DIGIT TWO		07/07	SMALL LETTER w
03/03	DIGIT THREE		07/08	SMALL LETTER x
03/04	DIGIT FOUR		07/09	SMALL LETTER y
03/05	DIGIT FIVE		07/10	SMALL LETTER z
03/06	DIGIT SIX		07/11	LEFT CURLY BRACKET
03/07	DIGIT SEVEN		07/12	VERTICAL LINE
03/08	DIGIT EIGHT		07/13	RIGHT CURLY BRACKET
03/09	DIGIT NINE		07/14	TILDE
03/10	COLON	1	10/00	NO-BREAK SPACE
03/11	SEMICOLON		10/01	CAPITAL LETTER H WITH STROKE
03/12	LESS-THAN SIGN	-	10/02 10/03	BREVE POUND SIGN
03/13	EQUALS SIGN	ĺ	10/03	CURRENCY SIGN
03/14	GREATER-THAN SIGN	1	10/04	This position shall not be used
03/15	QUESTION MARK	1	10/05	CAPITAL LETTER H WITH CIRCUMFLEX
04/00	COMMERCIAL AT		10/00	ACCENT
04/01	CAPITAL LETTER A CAPITAL LETTER B		10/07	PARAGRAPH SIGN
04/02		1	10/07	DIAERESIS
04/03 04/04	CAPITAL LETTER C CAPITAL LETTER D		10/08	CAPITAL LETTER I WITH DOT ABOVE
04/04	CAPITAL LETTER D		10/09	CAPITAL LETTER S WITH CEDILLA
04/05	CAPITAL LETTER E		10/10	CAPITAL LETTER G WITH BREVE
04/07	CAPITAL LETTER G		10/12	CAPITAL LETTER J WITH CIRCUMFLEX
04/07	CAPITAL LETTER H		10/12	ACCENT
04/09	CAPITAL LETTER I	1	10/13	SOFT HYPHEN
04/10	CAPITAL LETTER J		10/14	This position shall not be used
04/10	CAPITAL LETTER K	KI	10/15	CAPITAL LETTER Z WITH DOT ABOVE
04/12	CAPITAL LETTER L		11/00	DEGREE SIGN, RING ABOVE
04/13	CAPITAL LETTER M		11/01	SMALL LETTER h WITH STROKE
04/14	CAPITAL LETTER N	(LS.)	11/02	SUPERSCRIPT TWO
04/15	CAPITAL LETTER O		11/03	SUPERSCRIPT THREE
05/00	CAPITAL LETTER P		11/04	ACUTE ACCENT
05/01	CAPITAL LETTER Q ISO 88	50 2.1	11/05	MICRO SIGN
05/02	CAPITAL LETTER R		11/06	SMALL LETTER h WITH CIRCUMFLEX
05/03://stan	CAPITAL LETTER Sog/standards/sist/	bd69f0	4d-d9e4-4a30-8	7 ACCENT 877bf209c/iso-
05/04	CAPITAL LETTER II	-3-198	11/07	MIDDLE DOT
05/05	CALITAL LLITER O	-3-190	11/08	CEDILLA
05/06	CAPITAL LETTER V		11/09	SMALL LETTER I WITHOUT DOT ABOVE
05/07	CAPITAL LETTER W		11/10	SMALL LETTER'S WITH CEDILLA
05/08	CAPITAL LETTER X		11/11	SMALL LETTER & WITH BREVE
05/09	CAPITAL LETTER Y		11/12	SMALL LETTER j WITH CIRCUMFLEX ACCENT
05/10	CAPITAL LETTER Z	1	11/13	VULGAR FRACTION ONE HALF
05/11	LEFT SQUARE BRACKET		11/13	This position shall not be used
05/12 05/13	REVERSE SOLIDUS		11/15	SMALL LETTER z WITH DOT ABOVE
05/13	RIGHT SQUARE BRACKET CIRCUMFLEX ACCENT		12/00	CAPITAL LETTER A WITH GRAVE ACCENT
05/14	LOW LINE		12/01	CAPITAL LETTER A WITH ACUTE ACCENT
06/00	GRAVE ACCENT		12/02	CAPITAL LETTER A WITH CIRCUMFLEX
06/00	SMALL LETTER a		1	ACCENT
06/02	SMALL LETTER b		12/03	This position shall not be used
06/03	SMALL LETTER c		12/04	CAPITAL LETTER A WITH DIAERESIS
06/04	SMALL LETTER d		12/05	CAPITAL LETTER C WITH DOT ABOVE
06/05	SMALL LETTER e		12/06	CAPITAL LETTER C WITH CIRCUMFLEX
06/06	SMALL LETTER f			ACCENT
06/07	SMALL LETTER g		12/07	CAPITAL LETTER C WITH CEDILLA
06/08	SMALL LETTER h		12/08	CAPITAL LETTER E WITH GRAVE ACCENT
06/09	SMALL LETTER i		12/09	CAPITAL LETTER E WITH ACUTE ACCENT
06/10	SMALL LETTER j		12/10	CAPITAL LETTER E WITH CIRCUMFLEX
06/11	SMALL LETTER k	-		ACCENT
06/12	SMALL LETTER I	- [12/11	CAPITAL LETTER E WITH DIAERESIS
06/13	SMALL LETTER m		12/12	CAPITAL LETTER I WITH GRAVE ACCENT
06/14	SMALL LETTER n		12/13	CAPITAL LETTER I WITH ACUTE ACCENT
06/15	SMALL LETTER o		12/14	CAPITAL LETTER I WITH CIRCUMFLEX
07/00	SMALL LETTER p		46/45	ACCENT
1			12/15	CAPITAL LETTER I WITH DIAERESIS
07/01	SMALL LETTER q	Į.	3	
07/01 07/02	SMALL LETTER r		13/00	This position shall not be used
07/01	,		3	

1	
Bit combination	Name
13/03	CAPITAL LETTER O WITH ACUTE ACCENT
13/04	CAPITAL LETTER O WITH CIRCUMFLEX
13/05	ACCENT CAPITAL LETTER G WITH DOT ABOVE
13/05	CAPITAL LETTER O WITH DOT ABOVE
13/07	MULTIPLICATION SIGN
13/08	CAPITAL LETTER G WITH CIRCUMFLEX
	ACCENT
13/09	CAPITAL LETTER U WITH GRAVE ACCENT
13/10 13/11	CAPITAL LETTER U WITH ACUTE ACCENT CAPITAL LETTER U WITH CIRCUMFLEX
13/11	ACCENT
13/12	CAPITAL LETTER U WITH DIAERESIS
13/13	CAPITAL LETTER U WITH BREVE
13/14	CAPITAL LETTER S WITH CIRCUMFLEX
12/45	ACCENT
13/15 14/00	SMALL GERMAN LETTER SHARP s SMALL LETTER a WITH GRAVE ACCENT
14/00	SMALL LETTER a WITH ACUTE ACCENT
14/02	SMALL LETTER a WITH CIRCUMFLEX
	ACCENT
14/03	This position shall not be used
14/04	SMALL LETTER a WITH DIAERESIS SMALL LETTER c WITH DOT ABOVE
14/05 14/06	SMALL LETTER C WITH DOT ABOVE
14/00	ACCENT
14/07	SMALL LETTER c WITH CEDILLA
14/08	SMALL LETTER e WITH GRAVE ACCENT
14/09	SMALL LETTER e WITH ACUTE ACCENT
14/10	SMALL LETTER e WITH CIRCUMFLEX ACCENT
14/11	SMALL LETTER e WITH DIAERESIS
14/12	SMALL LETTER I WITH GRAVE ACCENT
14/13	SMALL LETTER I WITH ACUTE ACCENT
14/14	SMALL LETTER I WITH CIRCUMFLEX
a a /a Enttroce //	ACCENT
14/15 LLPS 7/ 15/00	SMALL LETTER i WITH DIAERESIS This position shall not be used
15/00	SMALL LETTER n WITH TILDE
15/02	SMALL LETTER o WITH GRAVE ACCENT
15/03	SMALL LETTER o WITH ACUTE ACCENT
15/04	SMALL LETTER o WITH CIRCUMFLEX
15/05	ACCENT SMALL LETTER g WITH DOT ABOVE
15/05	SMALL LETTER 9 WITH DOT ABOVE
15/07	DIVISION SIGN
15/08	SMALL LETTER g WITH CIRCUMFLEX
	ACCENT
15/09	SMALL LETTER II WITH ACUTE ACCENT
15/10 15/11	SMALL LETTER u WITH ACUTE ACCENT SMALL LETTER u WITH CIRCUMFLEX
15/11	ACCENT
15/12	SMALL LETTER u WITH DIAERESIS
15/13	SMALL LETTER u WITH BREVE
15/14	SMALL LETTER s WITH CIRCUMFLEX
15/15	ACCENT DOT ABOVE
10/10	DOT ABOVE

6.2 Code table

The code table (table 2) shows the characters listed at the position in the code table corresponding to the specified bit combination.

The shaded positions correspond to bit combinations that do not represent graphic characters. Their use is outside the scope of ISO 8859; it is specified in other International Standards, for example ISO 646 or ISO 6429.

7 Designation of the character set

The graphic characters of this part of ISO 8859 constitute a single coded character set. However, when this character set is implemented together with other coding standards such as ISO 2022 or ISO 4873, the code table of this part of ISO 8859 shall be considered to consist of the following components:

- $-\,$ The character SPACE represented by bit combination 02/00.
- A 94-character G0 graphic character set represented by bit combination 02/01 to 07/14.
- A 96-character G1 graphic character set represented by bit combination 10/00 to 15/15.

When required by other coding standards, for example ISO 2022 or ISO 4873, the following pair of escape sequences shall be used:

ESC 02/08 04/02

ESC 02/13 04/03

to designate the G0 and the G1 sets, respectively. According to ISO 2022, the character SPACE does not require designation.

8 Bit combinations not to be used

Bit combinations 10/05, 10/14, 11/14, 12/03, 13/00, 14/03 and 15/00 are reserved for future standardization and shall not be used. They are cross-hatched in the code table (table 2).

Any allocation of characters to these positions is incompatible with this part of ISO 8859.

Table 2 — Code table of Latin alphabet No. 3

				b.	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1
				b,	0	0	0	0	1	1	1	1	0	0	0	0	1	1	1	1
				b.	0	0	0	1	0	0	1 0	1	0	0	0	1	0	0	1	1
				b₅	00	01	02	03	04	0 5	06	07	08	09	10	11	12	13	14	15
b,	b,	b₂	b,		UU	יט	02	0.5	04	כ ט	UO	07	UO	UP	10		12	13	14	ן כי
0	0	0	0	00			SP	0	а	Р	,	р			NBSP	0	À	\bigotimes	à	
0	0	0	1	01				1	Α	Q	а	q			Ħ	ħ	Á	~Z	á	ñ
0	0	1	0	02			"	2	В	R	b	r)	2	Â	Ò	â	ò
0	0	1	1	03			#	3	С	S	С	S			£	3	\bigotimes	Ó	XX	ó
0	1	0	0	0 4			\$	4 1	D	A	d	t			¤		Ά	Ô	ä	Ô
0	1	0	1	0 5			%	51	E	UC	е	u			XX	μ	Ċ	Ġ	ċ	ġ
0	1	1	0	06			&	6	F	V 8859	f -3·19	V 88			Î	ĥ	Ĉ	Ю:	ĉ	Ö
0	111	178	:1/8	07			talog	sta 7 nd	ır G s/	isWoo	(g)	d W 19			S ₂	2 2 87	Ç	9 × is	Ç	÷
1	0	0	0	80			(8	Н	X	h	Х			11	,	'Ш	(G	è	ĝ
1	0	0	1	09)	9	I	Υ	i	У			İ	٦	É	Ù	é	ù
1	0	1	0	10			*		J	Z	j	Z			Ş	Ş	Ê	Ú	ê	ú
1	0	1	1	11			+	,	K		k	{			Ğ	ğ	Ë	Û	ë	û
1	1	0	0	12			,	<	L	١	l				ĵ	ĵ	Ì	Ü	ì	ü
1	1	0	1	13			-	=	М	J	m	}			SHY	1/2	Í	Ŭ	í	ŭ
1	1	1	0	14				>	N	^	n	~			\bigvee	\bigotimes	Î	Ŝ	î	ŝ
1	1	1	1	15			/	?	0		0				Ż	ż	Ï	ß	ï	٠

iTeh STANDARD PREVIEW (standards.iteh.ai)

ISO 8859_3·1988

https://standards.iteh.ai/catalog/standards/sist/bd69f04d-d9e4-4a30-87e5-222877bf209c/iso-8859-3-1988