Contents
Page
Foreword ..... iii
Introduction ..... iv
1 Scope ..... 1
2 Conformance ..... 1
3 Normative references ..... 1
4 Definitions ..... 2

6 Specification of the coded character set indards.itele ${ }^{3}$ ..... 1.ai)
7 Identification of the character set ..... 7
ISO/IEC 8859-8:1999
Annex A: Coverage of languagesby parts/to 10 ofrds/sist/7599e231-be7b-4817-bcaa- ISO/IEC 8859 ..... 81999
Annex B: Main differences between ISO 8859-8:1988 and this first edition of this part of ISO/IEC 8859 ..... 10
Annex C: Bi-directional text support ..... 11
Annex D: Bibliography ..... 12

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## Introduction

ISO/IEC 8859 consists of several parts. Each part specifies a set of up to 191 graphic characters and the coded representation of these characters by means of a single 8-bit byte. Each set is intended for use for a particular group of languages.

# iTeh STANDARD PREVIEW (standards.iteh.ai) 

ISO/IEC 8859-8:1999
https//standards.iteh.ai/catalog/standards/sist/7599e231-be7b-4817-bcaa-
3e3133312e51/iso-iec-8859-8-1999

ISO/IEC 2022:1994, Information technology Character code structure and extension techniques.

ISO/IEC 4873:1991, Information technology ISO 8-bit code for information interchange Structure and rules for implementation.

ISO/IEC 8824-1:1995, Information technology Abstract Syntax Notation One (ASN.1): Specification of basic notation.

## 4 Definitions

For the purposes of this part of ISO/IEC 8859 the following definitions apply:
4.1 bi-directional text: A text which may contain strings of characters with left-to-right and right-toleft directions.
4.2 bit combination: An ordered set of bits used for the representation of characters.
4.3 byte: A bit string that is operated upon as a unit.
4.4 character: A member of a set of elements used for the organization, control, or representation of data.
4.5 code table: A table showing the characters allocated to each bit combination in a code.
4.6 coded character set; code: A set of unambiguous rules that establishes a character set and the one-to-one relationship between the characters of the set and their bit combinations.
4.7 coded-character-data-element (CC-dataelement): An element of interchanged information that is specified to consist of a sequence of coded representations of characters, in accordance with one or more identified standards for coded character sets.
4.8 directional character properties: A set of mutually exclusive properties which may qualify the members of a character set. These properties are used by algorithms which transform text from processing sequence into presentation sequence. Examples of values for directional character properties are "right-to-left", "left-to-right", "digit", "numeric separator", "neutral".
4.9 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.
NOTE - In ISO/IEC 8859 a single bit combination is used to represent each character.

Table 1 - Character set, coded representation

| Bit combination | Hex | Identifier | Name | Bit combination | Hex | Identifier | Name |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 02/00 | 20 | U+0020 | SPACE | 05/00 | 50 | U+0050 | LATIN CAPITAL LETTER P |
| 02/01 | 21 | U+0021 | EXCLAMATION MARK | 05/01 | 51 | U+0051 | LATIN CAPITAL LETTER Q |
| 02/02 | 22 | U+0022 | QUOTATION MARK | 05/02 | 52 | U+0052 | LATIN CAPITAL LETTER R |
| 02/03 | 23 | U+0023 | NUMBER SIGN | 05/03 | 53 | U+0053 | LATIN CAPITAL LETTER S |
| 02/04 | 24 | U+0024 | DOLLAR SIGN | 05/04 | 54 | U+0054 | LATIN CAPITAL LETTER T |
| 02/05 | 25 | U+0025 | PERCENT SIGN | 05/05 | 55 | U+0055 | LATIN CAPITAL LETTER U |
| 02/06 | 26 | U+0026 | AMPERSAND | 05/06 | 56 | U+0056 | LATIN CAPITAL LETTER V |
| 02/07 | 27 | U+0027 | APOSTROPHE | 05/07 | 57 | U+0057 | LATIN CAPITAL LETTER W |
| 02/08 | 28 | $U+0028$ | LEFT PARENTHESIS | 05/08 | 58 | U+0058 | LATIN CAPITAL LETTER X |
| 02/09 | 29 | U+0029 | RIGHT PARENTHESIS | 05/09 | 59 | U+0059 | LATIN CAPITAL LETTER Y |
| 02/10 | 2 A | U+002A | ASTERISK | 05/10 | 5A | U+005A | LATIN CAPITAL LETTER Z |
| 02/11 | 2 B | U+002B | PLUS SIGN | 05/11 | 5B | U+005B | LEFT SQUARE BRACKET |
| 02/12 | 2 C | U+002C | COMMA | 05/12 | 5 C | U+005C | REVERSE SOLIDUS |
| 02/13 | 2 D | U+002D | HYPHEN-MINUS | 05/13 | 5D | U+005D | RIGHT SQUARE BRACKET |
| 02/14 | 2 E | U+002E | FULL STOP | 05/14 | 5E | U +005 E | CIRCUMFLEX ACCENT |
| 02/15 | 2 F | U+002F | SOLIDUS | 05/15 | 5 F | U+005F | LOW LINE |
| 03/00 | 30 | U+0030 | DIGIT ZERO | 06/00 | 60 | U+0060 | GRAVE ACCENT |
| 03/01 | 31 | U+0031 | DIGIT ONE | 06/01 | 61 | U+0061 | LATIN SMALL LETTER A |
| 03/02 | 32 | U+0032 | DIGIT TWO | 06/02 | 62 | U +0062 | LATIN SMALL LETTER B |
| 03/03 | 33 | U+0033 | DIGIT THREE İ el N | 06/03 | 63 | $\mathrm{U}+0063$ | LATIN SMALL LETTER C |
| 03/04 | 34 | U+0034 | DIGIT FOUR | 06/04 | 64 | U+0064 | LATIN SMALL LETTER D |
| 03/05 | 35 | U+0035 | DIGIT FIVE (Stの10 | 06/05 | 65 | $U+0065$ | LATIN SMALL LETTER E |
| 03/06 | 36 | U+0036 | DIGIT SIX | 06/06 | 66 | U+0066 | LATIN SMALL LETTER F |
| 03/07 | 37 | U+0037 | DIGIT SEVEN | 06/07 | 67 | U+0067 | LATIN SMALL LETTER G |
| 03/08 | 38 | U+0038 | DIGIT EIGHT ISO/I | 86/08 | 68. | U+0068 | LATIN SMALL LETTER H |
| 03/09 | 39 | U+0039 | DIGIT NINE | $06 / 09$ | 69 | U +0069 | LATIN SMALL LETTER I |
| 03/10 | 3 A | U+003A | COLON https //standards.iteh.aicatalog/s | $26 / 10$ | $6 A^{5}$ | $U+006 \mathrm{~A}^{-}$ | LATIN SMALE LETTER J |
| 03/11 | 3B | U+003B | SEMICOLON 3e3133312e 5 | Sco6idq- | 6 B | U+006B | LATIN SMALL LETTER K |
| 03/12 | 3C | U +003 C | LESS-THAN SIGN | 06/12 | 6C | U+006C | LATIN SMALL LETTER L |
| 03/13 | 3D | U+003D | EQUALS SIGN | 06/13 | 6D | U+006D | LATIN SMALL LETTER M |
| 03/14 | 3 E | U+003E | GREATER-THAN SIGN | 06/14 | 6E | U+006E | LATIN SMALL LETTER N |
| 03/15 | 3 F | U+003F | QUESTION MARK | 06/15 | 6 F | U+006F | LATIN SMALL LETTER O |
| 04/00 | 40 | U+0040 | COMMERCIAL AT | 07/00 | 70 | U+0070 | LATIN SMALL LETTER P |
| 04/01 | 41 | U+0041 | LATIN CAPITAL LETTER A | 07/01 | 71 | U+0071 | LATIN SMALL LETTER Q |
| 04/02 | 42 | U+0042 | LATIN CAPITAL LETTER B | 07/02 | 72 | U+0072 | LATIN SMALL LETTER R |
| 04/03 | 43 | U+0043 | LATIN CAPITAL LETTER C | 07/03 | 73 | U+0073 | LATIN SMALL LETTER S |
| 04/04 | 44 | U+0044 | LATIN CAPITAL LETTER D | 07/04 | 74 | U+0074 | LATIN SMALL LETTER T |
| 04/05 | 45 | U+0045 | LATIN CAPITAL LETTER E | 07/05 | 75 | U+0075 | LATIN SMALL LETTER U |
| 04/06 | 46 | U+0046 | LATIN CAPITAL LETTER F | 07/06 | 76 | U+0076 | LATIN SMALL LETTER V |
| 04/07 | 47 | U+0047 | LATIN CAPITAL LETTER G | 07/07 | 77 | U+0077 | LATIN SMALL LETTER W |
| 04/08 | 48 | U+0048 | LATIN CAPITAL LETTER H | 07/08 | 78 | U+0078 | LATIN SMALL LETTER X |
| 04/09 | 49 | U+0049 | LATIN CAPITAL LETTER I | 07/09 | 79 | U+0079 | LATIN SMALL LETTER Y |
| 04/10 | 4A | U+004A | LATIN CAPITAL LETTER J | 07/10 | 7A | U+007A | LATIN SMALL LETTER Z |
| 04/11 | 4B | U+004B | LATIN CAPITAL LETTER K | 07/11 | 7B | U+007B | LEFT CURLY BRACKET |
| 04/12 | 4C | U+004C | LATIN CAPITAL LETTER L | 07/12 | 7 C | U+007C | VERTICAL LINE |
| 04/13 | 4D | U+004D | LATIN CAPITAL LETTER M | 07/13 | 7 D | U+007D | RIGHT CURLY BRACKET |
| 04/14 | 4E | U+004E | LATIN CAPITAL LETTER N | 07/14 | 7E | U+007E | TILDE |
| 04/15 | 4F | U+004F | LATIN CAPITAL LETTER O |  |  |  |  |


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