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INTERNATIONAL STANDARD



2047

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## Information processing – Graphical representations for the control characters of the 7-bit coded character set

*Traitement de l'information – Représentation graphique des caractères de commande du jeu de caractères codés à 7 éléments*

First edition – 1975-08-01

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## FOREWORD

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO Member Bodies). The work of developing International Standards is carried out through ISO Technical Committees. Every Member Body interested in a subject for which a Technical Committee has been set up 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.

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.

International Standard ISO 2047 was drawn up by Technical Committee ISO/TC 97, *Computers and information processing*, and circulated to the Member Bodies in December 1972.

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It has been approved by the Member Bodies of the following countries :

Belgium	Ireland	South Africa, Rep. of
Brazil	Italy	Sweden
Canada	Japan	Switzerland
Czechoslovakia	Mexico	United Kingdom
Denmark	New Zealand	U.S.A.
Egypt, Arab Rep. of	Poland	
France	Romania	

The Member Bodies of the following countries expressed disapproval of the document :

Germany  
Netherlands

# Information processing – Graphical representations for the control characters of the 7-bit coded character set

## 1 SCOPE

This International Standard specifies graphical representations of the control characters of columns 0 and 1 of the ISO 7-bit coded character set for information interchange (ISO 646). It also provides graphical representations for the normally non-printing character SPACE (position 2/0 of the Code Table) and for the character DELETE (position 7/15 of the Code Table).

Two modes of representation are given in this International Standard :

- a set of specific symbols where a single character is required for the graphical representation of each of these normally non-printing characters;
- a set of alphanumeric representations comprising two characters derived from the abbreviations used in the ISO 7-bit table.

## 2 FIELD OF APPLICATION

These graphical representations are intended for use for display of control characters on devices when the graphical representation of these normally non-printing characters is required. Among the devices included are paper tape punches, printers and CRT equipment. Various areas of use are possible; for example, monitoring and diagnostic applications.

The precise font design is not part of this International Standard.









The implementation of some of the symbols does not imply that the whole set should be available.

Each alphanumeric representation is to be considered as a single symbol. It may occupy either one or more positions on a printed or displayed line depending on the implementation.









## 3 REFERENCE

ISO 646, *7-bit coded character set for information processing interchange*.

4 REPRESENTATIONS

Position in the 7-bit set table	Set table name	Meaning	Pictorial representation	Alphanumeric representation
0/0	<b>NUL</b>	Null		<b>NU</b>
0/1	<b>TC<sub>1</sub></b>	Start of heading		<b>SH</b>
0/2	<b>TC<sub>2</sub></b>	Start of text		<b>SX</b>
0/3	<b>TC<sub>3</sub></b>	End of text		<b>EX</b>
0/4	<b>TC<sub>4</sub></b>	End of transmission		<b>ET</b>
0/5	<b>TC<sub>5</sub></b>	Enquiry	 <sup>1)</sup>	<b>EQ</b>
0/6	<b>TC<sub>6</sub></b>	Acknowledge		<b>AK</b>
0/7	<b>BEL</b>	Bell		<b>BL</b>

1) The pictorial representation of position 0/5 is a schematic representation of  which may also be used when equipment allows it.

Position in the 7-bit set table	Set table name	Meaning	Pictorial representation	Alphanumeric representation
0/8	<b>FE<sub>0</sub></b>	Backspace		<b>BS</b>
0/9	<b>FE<sub>1</sub></b>	Horizontal tabulation		<b>HT</b>
0/10	<b>FE<sub>2</sub></b>	Line feed		<b>LF</b>
0/11	<b>FE<sub>3</sub></b>	Vertical tabulation		<b>VT</b>
0/12	<b>FE<sub>4</sub></b>	Form feed		<b>FF</b>
0/13	<b>FE<sub>5</sub></b>	Carriage return		<b>CR</b>
0/14	<b>SO</b>	Shift-out		<b>SO</b>
0/15	<b>SI</b>	Shift-in		<b>SI</b>









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Vertical tabulation

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Position in the 7-bit set table	Set table name	Meaning	Pictorial representation	Alphanumeric representation
1/0	<b>TC<sub>7</sub></b>	Data link escape		<b>DL</b>
1/1	<b>DC<sub>1</sub></b>	Device control		<b>D1</b>
1/2	<b>DC<sub>2</sub></b>	-		<b>D2</b>
1/3	<b>DC<sub>3</sub></b>	-		<b>D3</b>
1/4	<b>DC<sub>4</sub></b>	-		<b>D4</b>
1/5	<b>TC<sub>8</sub></b>	Negative acknowledge		<b>NK</b>
1/6	<b>TC<sub>9</sub></b>	Synchronous idle		<b>SY</b>
1/7	<b>TC<sub>10</sub></b>	End of transmission block		<b>EB</b>

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Position in the 7-bit set table	Set table name	Meaning	Pictorial representation	Alphanumeric representation
1/8	<b>CAN</b>	Cancel		<b>CN</b>
1/9	<b>EM</b>	End of medium		<b>EM</b>
1/10	<b>SUB</b>	Substitute character		<b>SB</b>
1/11	<b>ESC</b>	Escape		<b>EC</b>
1/12	<b>IS<sub>4</sub></b>	File separator		<b>FS</b>
1/13	<b>IS<sub>3</sub></b>	Group separator		<b>GS</b>
1/14	<b>IS<sub>2</sub></b>	Record separator		<b>RS</b>
1/15	<b>IS<sub>1</sub></b>	Unit separator		<b>US</b>

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Position in the 7-bit set table	Set table name	Meaning	Pictorial representation	Alphanumeric representation
2/10	<b>SP</b>	Space		<b>SP</b>
7/15	<b>DEL</b>	Delete		<b>DT</b>

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