

The Unicode Standard

Version 6.1 – Core Specification

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The Unicode Standard / the Unicode Consortium ; edited by Julie D. Allen ... [et al.]. — Version 6.1.

Includes bibliographical references and index.

ISBN 978-1-936213-02-3 (<http://www.unicode.org/versions/Unicode6.1.0/>)

1. Unicode (Computer character set) I. Allen, Julie D. II. Unicode Consortium.

QA268.U545 2012

ISBN 978-1-936213-02-3

Published in Mountain View, CA

April 2012

References

Citations are given for the standards and dictionaries that were used as the actual resources for *The Unicode Standard*, primarily for Version 1.0. Where a Draft International Standard (DIS) is known to have progressed to International Standard status, the entry for the DIS has been revised. *A revised or reaffirmed edition, with a different date, may have been published subsequently.* For the current version of a standard, see the catalog issued by the standards organization. The Web site of the International Organization for Standardization (<http://www.iso.org>) includes the *ISO Catalogue* and links to the sites of member organizations. Many of the ISO character set standards were originally developed by ECMA and are also ECMA standards.

In general, American library practice has been followed for the romanization of titles and names written in non-Roman script. Exceptions are when information supplied by an author had to be used because the name or title in the original script was unavailable.

R.1 Source Standards and Specifications

This section identifies the standards and specifications used as sources for the Unicode Standard. The section also includes selected current standards and specifications relevant to the use of coded character sets.

AAT: “About Apple Advanced Typography Fonts.” In *TrueType Reference Manual*, Chapter 6: *Font Files*. Apple Computer, ©1997–2002 (last updated 18 Dec 2002).

<http://developer.apple.com/fonts/TTRefMan/RM06/Chap6AATIntro.html>

ANSI X3.4: American National Standards Institute. *Coded character set—7-bit American national standard code for information interchange*. New York: 1986. (ANSI X3.4-1986).

ANSI X3.32: American National Standards Institute. *American national standard graphic representation of the control characters of American national standard code for information interchange*. New York: 1973. (ANSI X3.32-1973).

ANSI Y10.20: American National Standards Institute. *Mathematic signs and symbols for use in physical sciences and technology*. New York: 1988. (ANSI Y10.20-1975 (R1988)).

ANSI Z39.47: American National Standards Institute. *Extended Latin alphabet coded character set for bibliographic use*. New York: 1985. (ANSI Z39.47-1985).

ANSI Z39.64: American National Standards Institute. *East Asian character code for bibliographic use*. New Brunswick, NJ: Transaction, 1991. (ANSI Z39.64-1989).

ARIB STD-B24: Association of Radio Industries and Businesses. *Data Coding and Transmission Specification for Digital Broadcasting*. Tokyo: 2008.

ASMO 449: Arab Organization for Standardization and Metrology. *Data processing 7-bit coded character set for information interchange*. [s.l.]: 1983. (Arab standard specifications, 449-1982). Authorized English translation.

BCP 47: (See RFC 4646 and RFC 4647.)

CCCI: *Zhongwen Zixun Jiaohuanma (Chinese Character Code for Information Interchange)*. Revised edition. Taipei: Xingzhengyuan Wenhua Jianshe Xiaozu (Executive Yuan Committee for Cultural Construction), 1985.

CNS 11643-1986: *Tongyong hanzi biaozhun jiaohuanma (Han character standard interchange code for general use)*. Taipei: Xingzhengyuan (Executive Yuan), 1986.

CNS 11643-1992: *Zhongwen biaozhun jiaohuanma (Chinese standard interchange code)*. Taipei: 1992.

Obsoletes 1986 edition.

DIN 66006: *Informationsverarbeitung—Darstellung von ALGOL-Symbolen auf 5-Spur-Lochstreifen und 80spaltigen Lochkarten. (Information processing—representation of ALGOL symbols on 5-track punched tape and on 80-column punched cards)*. Berlin: Fachnormenausschuß Informationsverarbeitung (FNI) im Deutschen Normenausschuß (DNA), 1965.

Also cited as: *Darstellung von ALGOL/ALCOR-Programmen auf Lochstreifen und Lochkarten*.

EACC: (See ANSI Z39.64.)

ECMA Registry: (See ISO Register.)

ELOT 1373: Hellenic Organization for Standardization (ELOT). *The Greek Byzantine musical notation system*. Athens: 1997.

GB 2312: *Xinxi jiaohuanyong hanzi bianmaj, jibenji (Code of Chinese graphic character set for information interchange, primary set)*. Beijing: Jishu Biaozhun Chubanshe (Technical Standards Press), 1981. (GB 2312-1980).

GB 12345: *Xinxi jiaohuanyong hanzi bianmaj, fuzhuji (Code of Chinese ideogram set for information interchange, supplementary set)*. Beijing: Jishu Biaozhun Chubanshe (Technical Standards Press), 1990. (GB 12345-1990).

GB 13000: *Xinxi jishu—Tongyong duobawei bianma zifuji (UCS)—Diyi bufen: Tixi jiegou yu jiben duowenzhong pingmian (Information technology—Universal multiple-octet coded character set (UCS)—Part 1: Architecture and basic multilingual plane)*. Beijing: Jishu Biaozhun Chubanshe (Technical Standards Press), 1993. (GB 13000.1-93). (ISO/IEC 10646.1-1993).

GB 13134: *Xinxi jiaohuanyong yiwen bianma zifuji (Yi coded character set for information interchange)*, [prepared by] Sichuansheng Minzushiwu Weiyuanhui. Beijing: Jishu Biaozhun Chubanshe (Technical Standards Press), 1991. (GB 13134-1991).

GB 18030: *Xinxi jishu—Xinxi jiaohuan yong hanzi bianma zifuji—Jibenji de kuochong. (Information technology—Chinese ideograms coded character set for information interchange—Extension for the basic set)*. Beijing: Guojiao zhiliang jishu jianduju, 2000. (GB 18030-2000).

GBK: *Xinxi jiaohuanyong hanzi bianma kuozhan guifan (Extended Code of Chinese graphic character set for information interchange)*. Beijing: Zhongguo dianzi gongye bu [and] Guojiao jishu jianduju, 1995.

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GOST 10859-64: USSR. State Committee on Standards, Measures and Measuring Devices of the USSR. *Computational machinery. Alphanumeric Codes for Punchcards and Punchedtapes*. Moscow: Standards Publishing, 1964.

HKSCS-2001: *Hong Kong Supplementary Character Set – 2001*. Hong Kong: Information Technology Services Department & Official Languages Agency, Government of the Hong Kong Special Administrative Region, 2001.

English: http://www.info.gov.hk/digital21/eng/hkscs/download/e_hkscs.pdf

Chinese: http://www.info.gov.hk/digital21/chi/hkscs/download/c_hkscs.pdf

Irish Standard 434:1999. *Information technology—8-bit single-byte graphic coded character set for Ogham / Teicneolaíocht eolais—Tacar carachtar grafach Oghaim códaithe go haonbheartach le 8 ngiotán.*

ISCII-88: India. Department of Electronics. *Indian script code for information interchange*. New Delhi: 1988.

ISCII-91: India. Bureau of Indian Standards. *Indian script code for information interchange*. New Delhi: 1991.

ISIRI 3342: Institute of Standards and Industrial Research of Iran. *estaandaard-e tabaadol-e ettela'at-e 8 biti-e faarsi = Farsi 8-bit coded character set for information interchange*. Tehran: 1993 (1372 AP). (ISIRI 3342:1993).

ISO Register: International Organization for Standardization. *ISO international register of coded character sets to be used with escape sequences*.

Current register: <http://www.itscj.ipsj.or.jp/ISO-IR/>

ISO 639: International Organization for Standardization. *Code for the representation of names of languages*. [Geneva]: 1988. (ISO 639:1988).

ISO/IEC 646: International Organization for Standardization. *Information technology—ISO 7-bit coded character set for information interchange*. [Geneva]: 1991. (ISO/IEC 646:1991).

ISO/IEC 2022: International Organization for Standardization. *Information processing—ISO 7-bit and 8-bit coded character sets—Code extension techniques*. 3rd ed. [Geneva]: 1986. (ISO 2022:1994).

Edition 4 (ISO/IEC 2022:1994) has title: *Information technology—Character code structure and extension techniques*.

ISO 2033: International Organization for Standardization. *Information processing—Coding of machine-readable characters (MICR and OCR)*. 2nd ed. [Geneva]: 1983. (ISO 2033:1983).

ISO 2047: International Organization for Standardization. *Information processing—Graphical representations for the control characters of the 7-bit coded character set*. [Geneva]: 1975. (ISO 2047:1975).

ISO/IEC 2375: International Organization for Standardization. *Information technology—Procedure for registration of escape sequences and coded character sets*. [Geneva]: 2003. (ISO/IEC 2375:2003).

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ISO/IEC 8859: International Organization for Standardization. *Information processing—8-bit single-byte coded graphic character sets*. [Geneva]: 1987–.

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The other parts of ISO/IEC 8859 are Part 10, *Latin alphabet No. 6*; Part 11, *Latin/Thai alphabet*; Part 13, *Latin alphabet No. 7*; Part 14, *Latin alphabet No. 8 (Celtic)*; Part 15, *Latin alphabet No. 9*; and Part 16, *Latin alphabet No. 10*. There is no Part 12.

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ISO/IEC 9995-7: International Organization for Standardization. *Information technology—Keyboard layouts for text and office systems—Part 7: Symbols used to represent functions*. [Geneva]: 1994. (ISO/IEC 9995-7:1994).

ISO/IEC 10367: International Organization for Standardization. *Information technology—Standardized coded graphic character sets for use in 8-bit codes*. [Geneva]: 1991. (ISO/IEC 10367:1991).

ISO 10585: International Organization for Standardization. *Information and documentation—Armenian alphabet coded character set for bibliographic information interchange*. [Geneva]: 1996. (ISO 10585:1996).

ISO 10586: International Organization for Standardization. *Information and documentation—Georgian alphabet coded character set for bibliographic information interchange*. [Geneva]: 1996. (ISO 10586:1996).

ISO/IEC 10646: International Organization for Standardization. *Information Technology—Universal Multiple-Octet Coded Character Set (UCS)*. [Geneva]: 2003. (ISO/IEC 10646:2003).

ISO/IEC 10646/Amd 1:2005: International Organization for Standardization. *Information Technology—Universal Multiple-Octet Coded Character Set (UCS). Glagolitic, Coptic, Georgian and other characters*. [Geneva]: 2005. (ISO/IEC 10646:2003/Amd 1:2005).

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ISO 10754: International Organization for Standardization. *Information and documentation—Extension of the Cyrillic alphabet coded character set for non-Slavic languages for bibliographic information interchange*. [Geneva]: 1996. (ISO 10754:1996).

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ISO 11822: International Organization for Standardization. *Information and documentation—Extension of the Arabic coded character set for bibliographic information interchange*. [Geneva]: 1996. (ISO 11822:1996).

ISO/IEC 14651: International Organization for Standardization. *Information technology—International string ordering and comparison—Method for comparing character strings and description of the common template tailorable ordering*. [Geneva]: 2001. (ISO/IEC 14651:2001).

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JIS X 4052:2000: Japanese Industrial Standards Committee. *Nihongo Bunsho no Kumihan Shitei Koukan Keishiki. (Exchange format for Japanese documents with composition markup)*. Tokyo: Japanese Standards Association, 2000. (JIS X 4052:2000).

KPS 9566-97: Committee for Standardization of the Democratic People’s Republic of Korea. *(Code of the Korean graphic character set for information interchange)*. Pyongyang: 1997. (KPS 9566-97).

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KS C 5601: Korea Industrial Standards Association. *Chongbo kyohwanyong puho (Han’gul mit Hancha)*. Seoul: 1989. (KS C 5601-1987).

KS X 1001: Korean Agency for Technology and Standards. *Chongbo kyohwanyong puho (Han’gul mit Hancha). (Code for information interchange (Hanguel and Hanja))*. Seoul: 1992. (KS X 1001-1992).

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KS X 1002: Korean Agency for Technology and Standards. *Chongbo kyohwanyong puho hwakchang se’u. (Extension code sets for information interchange.)* Seoul: 1991. (KS X 1002-1991).

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MIME: (See RFCs 2045-2049, 4648-4649.)

OpenType: *OpenType™ Specification*, version 1.4.

<http://partners.adobe.com/asn/developer/opentype/main.html> (Adobe Systems, ©2000–2003)

<http://www.microsoft.com/typography/otspec/> (Microsoft, ©2001)

The RFCs listed below are available through the *Request for Comments* page of the IETF Web site (<http://www.ietf.org/rfc.html>). This page provides for retrieval by RFC number and includes a list of all RFCs in numerical order (*RFC Index*).

RFC 2045: *Multipurpose Internet Mail Extensions (MIME). Part One: Format of Internet message bodies*, by N. Freed and N. Borenstein. November 1996. (Status: DRAFT STANDARD).

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RFC 2046: *Multipurpose Internet Mail Extensions (MIME). Part Two: Media types*, by N. Freed and N. Borenstein. November 1996. (Status: DRAFT STANDARD).

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RFC 2047: *MIME (Multipurpose Internet Mail Extensions). Part Three: Message header extensions for non-ASCII text*, by K. Moore. November 1996. (Status: DRAFT STANDARD).

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RFC 2048: Obsoleted by RFC 4288, RFC 4289.

RFC 2049: *Multipurpose Internet Mail Extensions (MIME). Part Five: Conformance criteria and examples*, by N. Freed and N. Borenstein. November 1996. (Status: DRAFT STANDARD).

RFC 2152: *UTF-7: A mail-safe transformation format of Unicode*, by D. Goldsmith and M. Davis. May 1997. (Status: INFORMATIONAL).

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R.2 Source Dictionaries for Han Unification

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R.3 Other Sources for the Unicode Standard

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