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Unicode Guide Laminated Reference Chart (Quickstudy: Computer)

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Unicode Guide

The Ultimate Reference Guide to the Universal Character Encoding Standard

This guide summarizes the principles of the Unicode encoding along with an overview of the key processes that programmers need to be more familiar with plus some of the pitfalls brought on by international text. The guide uses these aspects as a gateway to each one for those to look for more information.

UNICODE AND TEXT

- Unicode is the universal character encoding standard. It extends ASCII and ISO 8859-1 (Latin-1), so that electronic text can convey all of the world's languages and symbols.
- The Unicode Consortium supplies a wide range of globalization specifications that give programmers the ability to interpret and deal with all languages of the world. These specifications are built on the Unicode Standard as their foundation.
- The Unicode Standard assigns a unique numeric code to every character and symbol used to write text in any language. The alphanumeric prefix for U+XXXX generally code points of which 98,944 are currently assigned to specific characters (e.g.,
X (Cyrillic) 2940 2A24
€ (Euro) 20AC 20AC
© (Copyright) 25A0 25A0
☺ (Smiley) 263A 263A

To look up the code for any particular character, see:
• <http://unicode.org/faq/>
• <http://unicode.org/standard/standard.html>—if you certified at
• The Unicode Consortium website also contains the latest reference, specifications, FAQs, guidelines, a gallery of prepared additions, and roadmaps to the standard's future.
• <http://unicode.org>
• The Unicode Standard can be <http://unicode.org/book/>
• Unicode (Copyrighted) Richard Kitson, Addison-Wesley, 2003.

KEY GOTCHAS

- The Unicode Standard encodes characters, not the possible visual presentation of those characters. Thus, all of the following shapes will share the same code point: $\text{A} \text{a} \text{A} \text{a} \text{A} \text{a}$
- Unicode does not encode characters by language. Thus, a French and German ü have the same code point as an English ü . However, ü has a different name and pronunciation. Likewise, Chinese ü (ü) has the same code point as corresponding Japanese ü (ü).
- Characters are not necessarily eight bytes. Characters are encoded as a character.
- What many may think of as a single character (e.g., ü) might be represented via a sequence of coded characters in Unicode.

UNICODE IN PRACTICE

- Unicode is the key to software globalization, making software easily localizable for any target market. Here is globalization in a nutshell:
 - Use Unicode for all internal processing, and for external string interchange where possible. Convert from one to target encoding as needed in output stage.
 - Move all readable text strings out of code and into separate files called resources.
 - Make output of these files, locales, encodings, and messages locale dependent by calling API via format according to local language, country, currency, calendar, time zone, etc.
 - Perform all input or text processing, especially writing and parsing, in globalized UTF-8.
 - Programming Language and Platform: Most modern operating systems, such as Microsoft Windows and Mac OS, and modern programming languages, such as Java, the .NET languages, JavaScript, and Perl, use Unicode as their native character set. However, various of Data Link due handle Unicode.
 - C and C++ have neither native Unicode data types nor standard Unicode libraries. The most operating system APIs provide C/C++ APIs for handling Unicode text.
- The open-source library ICU (International Components for Unicode) can be used to implement OS-specific, or where cross-platform solutions are desired.
 - <http://icu.sourceforge.net/>
- Internet Explorer, Unicode support is required in all new Internet protocols. Email messages support Unicode through character declarations in the MIME format. Modern versions of HTML use Unicode. The XML standard is based on Unicode as the default encoding. All XML parsers are required to understand it.
 - <http://www.w3.org/TR/xml/>
- Security: The large number of characters and bytes in Unicode make new security profiles, especially (1) using alternate representations to slip past text string parsing software and (2) using visual similarity to disguise text (e.g., <http://www.mozilla.com/unicode/unicode-security.html>).
- International Standardization: The Unicode Standard maintains consistency with the international encoding standard ISO/IEC 10646. For example, Unicode version 3.0 has the same repertoire as ISO/IEC 10646:2003 with amendments.

Code Point	Character
U+0000	NUL
U+0001	SOH
U+0002	STX
U+0003	ETX
U+0004	HT
U+0005	LF
U+0006	VT
U+0007	FF
U+0008	SO
U+0009	SH
U+000A	HT
U+000B	FF
U+000C	SO
U+000D	SH
U+000E	HT
U+000F	FF
U+0010	SO
U+0011	SH
U+0012	HT
U+0013	FF
U+0014	SO
U+0015	SH
U+0016	HT
U+0017	FF
U+0018	SO
U+0019	SH
U+001A	HT
U+001B	FF
U+001C	SO
U+001D	SH
U+001E	HT
U+001F	FF
U+0020	SP
U+0021	EXCLAMATION MARK
U+0022	QUOTATION MARK
U+0023	HASH SIGN
U+0024	DOLLAR SIGN
U+0025	PERCENT SIGN
U+0026	AMPERSAND
U+0027	APOSTROPHE
U+0028	PARENTHESIS LEFT
U+0029	PARENTHESIS RIGHT
U+002A	ASTERISK
U+002B	PLUS SIGN
U+002C	COMMA
U+002D	HYPHEN-MINUS
U+002E	PERIOD
U+002F	SOLIDUS
U+0030	DIGIT ZERO
U+0031	DIGIT ONE
U+0032	DIGIT TWO
U+0033	DIGIT THREE
U+0034	DIGIT FOUR
U+0035	DIGIT FIVE
U+0036	DIGIT SIX
U+0037	DIGIT SEVEN
U+0038	DIGIT EIGHT
U+0039	DIGIT NINE
U+003A	COLON
U+003B	SEMICOLON
U+003C	LESS-THAN SIGN
U+003D	EQUAL SIGN
U+003E	GREATER-THAN SIGN
U+003F	QUESTION MARK
U+0040	AT SIGN
U+0041	CAPITAL LETTER A
U+0042	CAPITAL LETTER B
U+0043	CAPITAL LETTER C
U+0044	CAPITAL LETTER D
U+0045	CAPITAL LETTER E
U+0046	CAPITAL LETTER F
U+0047	CAPITAL LETTER G
U+0048	CAPITAL LETTER H
U+0049	CAPITAL LETTER I
U+004A	CAPITAL LETTER J
U+004B	CAPITAL LETTER K
U+004C	CAPITAL LETTER L
U+004D	CAPITAL LETTER M
U+004E	CAPITAL LETTER N
U+004F	CAPITAL LETTER O
U+0050	CAPITAL LETTER P
U+0051	CAPITAL LETTER Q
U+0052	CAPITAL LETTER R
U+0053	CAPITAL LETTER S
U+0054	CAPITAL LETTER T
U+0055	CAPITAL LETTER U
U+0056	CAPITAL LETTER V
U+0057	CAPITAL LETTER W
U+0058	CAPITAL LETTER X
U+0059	CAPITAL LETTER Y
U+005A	CAPITAL LETTER Z
U+005B	LEFT SQUARE BRACKET
U+005C	BACKSLASH
U+005D	RIGHT SQUARE BRACKET
U+005E	CIRCUMFLEX ACCENT
U+005F	LOW LINE
U+0060	GRAVE ACCENT
U+0061	LOWER CASE LETTER A
U+0062	LOWER CASE LETTER B
U+0063	LOWER CASE LETTER C
U+0064	LOWER CASE LETTER D
U+0065	LOWER CASE LETTER E
U+0066	LOWER CASE LETTER F
U+0067	LOWER CASE LETTER G
U+0068	LOWER CASE LETTER H
U+0069	LOWER CASE LETTER I
U+006A	LOWER CASE LETTER J
U+006B	LOWER CASE LETTER K
U+006C	LOWER CASE LETTER L
U+006D	LOWER CASE LETTER M
U+006E	LOWER CASE LETTER N
U+006F	LOWER CASE LETTER O
U+0070	LOWER CASE LETTER P
U+0071	LOWER CASE LETTER Q
U+0072	LOWER CASE LETTER R
U+0073	LOWER CASE LETTER S
U+0074	LOWER CASE LETTER T
U+0075	LOWER CASE LETTER U
U+0076	LOWER CASE LETTER V
U+0077	LOWER CASE LETTER W
U+0078	LOWER CASE LETTER X
U+0079	LOWER CASE LETTER Y
U+007A	LOWER CASE LETTER Z
U+007B	LEFT CURLY BRACKET
U+007C	UNDERSCORE
U+007D	RIGHT CURLY BRACKET
U+007E	TILDE
U+007F	DEL

Detail of General Symbols Area (2000 to 20FF)
Detail of Symbols and CJK Miscellaneous Areas (2000 to 20FF)

khoomsi@indfor
theinfo@lookmy
acquires@indfor
good characters
OSCAR WALDE



Synopsis

The ultimate reference guide to the universal character encoding standard. 6-page laminated guide includes information on: [Unicode & text](#) [Unicode codespace](#) [key gotchas](#) [Unicode in practice](#) [data as text & text as data](#) [Unicode code chart sample](#) [text segmentation](#) [text comparison](#) [text transformations](#) [Chinese characters - CJK/HAN Ideographs](#) [text encoding conversions](#) [text rendering](#) [character properties](#) [from characters to bytes](#) [byte order mark - the bom](#) [utf-32](#) [utf-16](#) [utf-8](#)

Book Information

Series: Quickstudy: Computer

Pamphlet: 6 pages

Publisher: Barcharts, Inc.; Lam Crds edition (April 2006)

Language: English

ISBN-10: 1423201809

ISBN-13: 978-1423201809

Product Dimensions: 8.5 x 11 x 0.1 inches

Shipping Weight: 3.2 ounces

Average Customer Review: 5.0 out of 5 stars [See all reviews](#) (3 customer reviews)

Best Sellers Rank: #2,573,262 in Books (See Top 100 in Books) #12 in [Books > Computers & Technology > Programming > APIs & Operating Environments > Unicode](#) #14899 in [Books > Computers & Technology > Programming > Languages & Tools](#) #533653 in [Books > Reference](#)

Customer Reviews

Very few people will need such a Unicode reference, but it's great for web-designers and people working with fonts in various languages. I design international webpages, and Asian dictionary interfaces, so this reference is a nice visual way to "peel back the layers of the onion" of Unicode to get a better understanding of where various characters of languages reside.

Wow. Love it. The Unicode Guide Laminated Reference Chart is a geek's dream. It's jampacked with tons of details. Much better than I expected. I'll bet the author, Joe Becker, has a very large throbbing head.

This chart is prepared so well that it has tons of nitty-gritty details well put together in couple of pages. I have this on my desk and I just love it.

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