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Unicode Guide Laminated Reference Chart (Quickstudy: Computer)

Unicode Guide
The Ultimate Reference Guide to the Universal Character Encoding Standard

UNICODE CODESPACE

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.,
U+0041 (A) U+0042 (B)
U+0043 (C) U+0044 (D)
U+0045 (E) U+0046 (F)
U+0047 (G) U+0048 (H)

KEY GOTCHAS

- The Unicode Standard encodes characters, not the possible visual presentations of those characters. Thus, all of the following shapes will share the same code point (character):
A a A a
- Unicode does not encode characters by language. Thus, a French *à* and German *ä* have the same code point as an English *æ* (though *æ* has a different source and pronunciation). Likewise, Chinese *ä* (ä) and *ü* (ü) has the same code point as corresponding Japanese *ä* (ä) (*ü*).

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 data processing, and for external storage/transportation (e.g., database, Internet data).
 - Use appropriate encodings as needed to represent output.
 - Move all readable text strings out of code and into separate files called *resource*.
 - Make output of these files, menus, messages, and messages locale dependent by calling API via *Resource* according to local language, country, currency, calendar, time zone, etc.
 - Perform all input or text processing, especially sorting 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. Newer versions of Java, C++, and Python use Unicode.
 - C and C++ have neither native Unicode data types nor standard Unicode libraries, but most operating system APIs provide C/C++ interfaces 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:
 - Use ICU for all internal data processing, and for external storage/transportation (e.g., database, Internet data).
 - Use ICU for all internal data processing, and for external storage/transportation (e.g., database, Internet data).
- Internet: For XML, 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.
 - Use ICU for all internal data processing, and for external storage/transportation (e.g., database, Internet data).
- Security: The large number of characters and bytes in Unicode make new security threats, especially (1) using phonetic representations to disguise text strings (e.g., *ph0n3t1c*), and (2) using visual similarity to disguise text (e.g., *ph0n3t1c* vs. *ph0n3t1c*).
- 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 modifications.

Detail of General Symb. Area (2000 to 20FF)

2000	U+2000	U+2001	U+2002	U+2003	U+2004	U+2005	U+2006	U+2007	U+2008	U+2009	U+200A	U+200B	U+200C	U+200D	U+200E	U+200F
2010	U+2010	U+2011	U+2012	U+2013	U+2014	U+2015	U+2016	U+2017	U+2018	U+2019	U+201A	U+201B	U+201C	U+201D	U+201E	U+201F
2020	U+2020	U+2021	U+2022	U+2023	U+2024	U+2025	U+2026	U+2027	U+2028	U+2029	U+202A	U+202B	U+202C	U+202D	U+202E	U+202F
2030	U+2030	U+2031	U+2032	U+2033	U+2034	U+2035	U+2036	U+2037	U+2038	U+2039	U+203A	U+203B	U+203C	U+203D	U+203E	U+203F
2040	U+2040	U+2041	U+2042	U+2043	U+2044	U+2045	U+2046	U+2047	U+2048	U+2049	U+204A	U+204B	U+204C	U+204D	U+204E	U+204F
2050	U+2050	U+2051	U+2052	U+2053	U+2054	U+2055	U+2056	U+2057	U+2058	U+2059	U+205A	U+205B	U+205C	U+205D	U+205E	U+205F
2060	U+2060	U+2061	U+2062	U+2063	U+2064	U+2065	U+2066	U+2067	U+2068	U+2069	U+206A	U+206B	U+206C	U+206D	U+206E	U+206F
2070	U+2070	U+2071	U+2072	U+2073	U+2074	U+2075	U+2076	U+2077	U+2078	U+2079	U+207A	U+207B	U+207C	U+207D	U+207E	U+207F
2080	U+2080	U+2081	U+2082	U+2083	U+2084	U+2085	U+2086	U+2087	U+2088	U+2089	U+208A	U+208B	U+208C	U+208D	U+208E	U+208F
2090	U+2090	U+2091	U+2092	U+2093	U+2094	U+2095	U+2096	U+2097	U+2098	U+2099	U+209A	U+209B	U+209C	U+209D	U+209E	U+209F
20A0	U+20A0	U+20A1	U+20A2	U+20A3	U+20A4	U+20A5	U+20A6	U+20A7	U+20A8	U+20A9	U+20AA	U+20AB	U+20AC	U+20AD	U+20AE	U+20AF
20B0	U+20B0	U+20B1	U+20B2	U+20B3	U+20B4	U+20B5	U+20B6	U+20B7	U+20B8	U+20B9	U+20BA	U+20BB	U+20BC	U+20BD	U+20BE	U+20BF
20C0	U+20C0	U+20C1	U+20C2	U+20C3	U+20C4	U+20C5	U+20C6	U+20C7	U+20C8	U+20C9	U+20CA	U+20CB	U+20CC	U+20CD	U+20CE	U+20CF
20D0	U+20D0	U+20D1	U+20D2	U+20D3	U+20D4	U+20D5	U+20D6	U+20D7	U+20D8	U+20D9	U+20DA	U+20DB	U+20DC	U+20DD	U+20DE	U+20DF
20E0	U+20E0	U+20E1	U+20E2	U+20E3	U+20E4	U+20E5	U+20E6	U+20E7	U+20E8	U+20E9	U+20EA	U+20EB	U+20EC	U+20ED	U+20EE	U+20EF
20F0	U+20F0	U+20F1	U+20F2	U+20F3	U+20F4	U+20F5	U+20F6	U+20F7	U+20F8	U+20F9	U+20FA	U+20FB	U+20FC	U+20FD	U+20FE	U+20FF

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

2000	U+2000	U+2001	U+2002	U+2003	U+2004	U+2005	U+2006	U+2007	U+2008	U+2009	U+200A	U+200B	U+200C	U+200D	U+200E	U+200F
2010	U+2010	U+2011	U+2012	U+2013	U+2014	U+2015	U+2016	U+2017	U+2018	U+2019	U+201A	U+201B	U+201C	U+201D	U+201E	U+201F
2020	U+2020	U+2021	U+2022	U+2023	U+2024	U+2025	U+2026	U+2027	U+2028	U+2029	U+202A	U+202B	U+202C	U+202D	U+202E	U+202F
2030	U+2030	U+2031	U+2032	U+2033	U+2034	U+2035	U+2036	U+2037	U+2038	U+2039	U+203A	U+203B	U+203C	U+203D	U+203E	U+203F
2040	U+2040	U+2041	U+2042	U+2043	U+2044	U+2045	U+2046	U+2047	U+2048	U+2049	U+204A	U+204B	U+204C	U+204D	U+204E	U+204F
2050	U+2050	U+2051	U+2052	U+2053	U+2054	U+2055	U+2056	U+2057	U+2058	U+2059	U+205A	U+205B	U+205C	U+205D	U+205E	U+205F
2060	U+2060	U+2061	U+2062	U+2063	U+2064	U+2065	U+2066	U+2067	U+2068	U+2069	U+206A	U+206B	U+206C	U+206D	U+206E	U+206F
2070	U+2070	U+2071	U+2072	U+2073	U+2074	U+2075	U+2076	U+2077	U+2078	U+2079	U+207A	U+207B	U+207C	U+207D	U+207E	U+207F
2080	U+2080	U+2081	U+2082	U+2083	U+2084	U+2085	U+2086	U+2087	U+2088	U+2089	U+208A	U+208B	U+208C	U+208D	U+208E	U+208F
2090	U+2090	U+2091	U+2092	U+2093	U+2094	U+2095	U+2096	U+2097	U+2098	U+2099	U+209A	U+209B	U+209C	U+209D	U+209E	U+209F
20A0	U+20A0	U+20A1	U+20A2	U+20A3	U+20A4	U+20A5	U+20A6	U+20A7	U+20A8	U+20A9	U+20AA	U+20AB	U+20AC	U+20AD	U+20AE	U+20AF
20B0	U+20B0	U+20B1	U+20B2	U+20B3	U+20B4	U+20B5	U+20B6	U+20B7	U+20B8	U+20B9	U+20BA	U+20BB	U+20BC	U+20BD	U+20BE	U+20BF
20C0	U+20C0	U+20C1	U+20C2	U+20C3	U+20C4	U+20C5	U+20C6	U+20C7	U+20C8	U+20C9	U+20CA	U+20CB	U+20CC	U+20CD	U+20CE	U+20CF
20D0	U+20D0	U+20D1	U+20D2	U+20D3	U+20D4	U+20D5	U+20D6	U+20D7	U+20D8	U+20D9	U+20DA	U+20DB	U+20DC	U+20DD	U+20DE	U+20DF
20E0	U+20E0	U+20E1	U+20E2	U+20E3	U+20E4	U+20E5	U+20E6	U+20E7	U+20E8	U+20E9	U+20EA	U+20EB	U+20EC	U+20ED	U+20EE	U+20EF
20F0	U+20F0	U+20F1	U+20F2	U+20F3	U+20F4	U+20F5	U+20F6	U+20F7	U+20F8	U+20F9	U+20FA	U+20FB	U+20FC	U+20FD	U+20FE	U+20FF

Additional Resources:

- Unicode.org
- Unicode Consortium
- Unicode Standard
- Unicode Reference
- Unicode Converter
- Unicode Encoder
- Unicode Decoder
- Unicode Generator
- Unicode Validator
- Unicode Tester
- Unicode Analyzer
- Unicode Debugger
- Unicode Profiler
- Unicode Monitor
- Unicode Reporter
- Unicode Logger
- Unicode Tracer
- Unicode Debugger
- Unicode Profiler
- Unicode Monitor
- Unicode Reporter
- Unicode Logger
- Unicode Tracer



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](#)

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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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