

文字化け

(Mojibake)

by

Martinho Fernandes

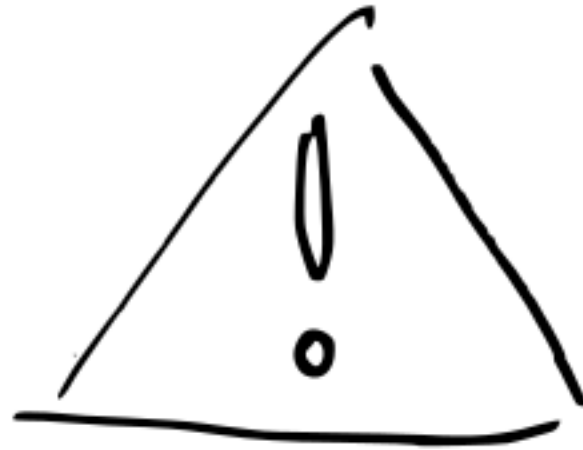
UTF-8 (hex) : 4D617274696E686F2046657226E616E646573

[mɑːˈtiɲu]

[fəˈɾɐndəs]

Unicode

WARNING!



← U+26A0
(NOT ASCII)

NON-ASCII
CHARACTER PORN
AHEAD

OR

THIS WOULD NOT BE A TALK
ABOUT UNICODE 😊

U+1F609

← (NOT ASCII)
(NOT BMP)

the C-word

A?

the C-word

A'?

the C-word

-?

the C-word

A'?

the C-word

I?

A'?

the C-word

한?

A'?

漢?

the C-word

한?

A'?

漢?

the C-word

한?

o?

A'?

漢?

the C-word

한?

호?o?

A'?

漢?

the C-word

한?

ㅈ? ㅊ? ㅇ?

A'?

漢?

the C-word

한?

다? &? 다? 오?

Á?

漢?

the C-word

الله?

한?

ه؟ ه؟ ه؟ ه؟

U+D800?

Á?

漢?

the C-word

الله?

한?

ه? ه? ه? ه?

U+D800?

A'?

0+80?

漢?

the C-word

الله?

한?

ا? ه? ه? ه?

U+D800?

A'?

0+80?

漢?

the C-word

人?

الله?

한?

ا? ه? ه? ه?

U+D800?

Á?

wchar_t?

0x80?

char?

漢?

the C-word

人?

الله?

한?

ا? ع? ه? و?

U+D800?

A'?

wchar_t?

0x80?

char?

漢?

the C-word

人?

[tʃaʊ]?
[kʰæʊ]?

ت؟

الله؟

ا؟ ع؟ ه؟ و؟

u"你好世界 😄" char16_t[8]

UTF-16

4F60 597D 4E16 754C 0020 D83D DE02 0000

std::u16string

U"你好世界 😊" char32_t[7]

UTF-32

0004F60 000597D 0004E16 0000154C 00000020 0001F602 00000000

std::u32string

u8"你好世界 😄" char8-t

08"你好世界 😊" ~~chart~~

u8"你好世界 😄" char[17]

UTF-8

E4 BD A0 E5 A5 BD E4 B8 96 E7 95 8C 20 F0 9F 98 82

std::u8string

u8"你好世界 😄" char[17]

UTF-8

E4 BD A0 E5 A5 BD E4 B8 96 E7 95 8C 20 F0 9F 98 82

~~std::u8string~~

u8"你好世界 😄" char[17]

UTF-8

E4 BD A0 E5 A5 BD E4 B8 96 E7 95 8C 20 F0 9F 98 82

std::string

std::wstring_convert

std::wbuffer_convert

bytes \longleftrightarrow "wide string"
"wide stream"

codecv_t_utf8<char16_t>

codecv_t_utf8<wchar_t>

codecv_t_utf8<char32_t>

codecv_t_utf16<char16_t>

codecv_t_utf16<wchar_t>

codecv_t_utf16<char32_t>

codecv_t_utf8_utf16<char16_t>

codecv_t_utf8_utf16<wchar_t>

UCS-2?

codecv_t_utf8<char16_t>

codecv_t_utf8<wchar_t>

codecv_t_utf8<char32_t>

codecv_t_utf16<char16_t>

codecv_t_utf16<wchar_t>

codecv_t_utf16<char32_t>

codecv_t_utf8_utf16<char16_t>

codecv_t_utf8_utf16<wchar_t>

<locale>

bool isspace(charT c, const locale& loc);

charT toupper(charT c, const locale& loc);

<locale>

bool isspace(charT c, const locale& loc);

charT toupper(charT c, const locale& loc);

u8" β"
└──┬──
C3 9F

<regex>



UTS #18
Not even
Level 1

std::regex("...")
matches "中"

ICU

Boost. Locale

SO answer this talk is based on:

<http://stackoverflow.com/a/17106065>

Recent Unicode support proposal that didn't make it:

<http://www.open-std.org/jtc1/wg21/docs/papers/2013/n3572.html>