
Subject: [Proposal] IsDoubleWidth() implementation for double width unicode chars.
Posted by [Oblivion](#) on Mon, 18 Nov 2019 11:40:32 GMT

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Hello,

I propose adding the below code to charsets functions.

It simplifies Eastern-Asian/CJK character handling, and seems to cover more than IsCJKIdeograph().

Code is a rip-off from Markus Kuhns wwidth() implementation. It is widely used, and doesn't seem to have a problematic license.

Other parts of the original code can be added as separate functions too, but while rendering double width characters, this function can be safely used.

```
bool IsDoubleWidth(int c)
{
    // This function is taken from Markus Kuhn's wwidth implementation.
    // For license and implementation details, see:
    // https://www.cl.cam.ac.uk/~mgk25/ucs/wcwidth.c

    return c >= 0x1100
        && (c <= 0x115F      // Hangul Jamo init. consonants
           || c == 0x2329
           || c == 0x232A
           || (c >= 0x2E80 && c <= 0xA4CF && c != 0x303F)      // CJK ... Yi
           || (c >= 0xAC00 && c <= 0xD7A3)    // Hangul Syllables
           || (c >= 0xF900 && c <= 0xFAFF)    // CJK Compatibility Ideographs
           || (c >= 0xFE10 && c <= 0xFE19)    // Vertical forms
           || (c >= 0xFE30 && c <= 0xFE6F)    // CJK Compatibility Forms
           || (c >= 0xFF00 && c <= 0xFF60)    // Fullwidth Forms
           || (c >= 0xFFE0 && c <= 0xFFE6)
           || (c >= 0x20000 && c <= 0x2FFFD)
           || (c >= 0x30000 && c <= 0x3FFFD)
        );
}
```

Best regards,
Oblivion
