

# UTF8 to Shift\_JIS in Javascript

## Background

The ***TextEncoder()*** in js does [not support Shift\\_JIS](#), which means you may need to find some alternative ways to turn UTF-8 Japanese/Kana character into Shift\_JIS encoding format for further handling in your use-case (such as FeliCa chip personalisation).

To verify whether a pair of hex values is in SJIS format - use this [site](#)[1] or this [site](#)[2].

## Know more about Japanese Character Set

See this [presentation](#) by MySQL.

## Half-width Katakana in UTF-8

In Unicode, half-width katakana, which is called as hankaku (半角), is represented from position **U+FF61** to **U+FF9F**.

|       | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |  |  |  |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|--|
| FF 60 |   | □ | □ | □ | □ | □ | □ | □ | □ | □ | □ | □ | □ | □ | □ | □ |  |  |  |
| FF 70 | □ | □ | □ | □ | □ | □ | □ | □ | □ | □ | □ | □ | □ | □ | □ | □ |  |  |  |
| FF 80 | □ | □ | □ | □ | □ | □ | □ | □ | □ | □ | □ | □ | □ | □ | □ | □ |  |  |  |
| FF 90 | □ | □ | □ | □ | □ | □ | □ | □ | □ | □ | □ | □ | □ | □ | □ | □ |  |  |  |

Read this [article to learn more](#).

## Existing library

- [encoding.js](#)

# If you cannot use external library for any reason

- Implement yourself - use mapping, you can take reference to this [script](#) [2]
- [JIS X 0213 Table](#)

## References

- [1] "Hex to SJIS," freaka.freehostia.com. [http://freaka.freehostia.com/charset\\_js.html](http://freaka.freehostia.com/charset_js.html) (accessed Sep. 24, 2023).
- [2] toracatman, "toracatman/UTF-JIS," GitHub, Jan. 26, 2023. <https://github.com/toracatman/UTF-JIS> (accessed Sep. 24, 2023).
- [3] "Character Width (Half-width, Full-width) Converter Online," DenCode. <https://dencode.com/en/string/character-width> (accessed Sep. 24, 2023).

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