

# Japan Specific | JIS

- [UTF8 to Shift\\_JIS in Javascript](#)

# 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 positio U+FF61 to U+FF9F.

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F			
FF 60		𐤀	𐤁	𐤂	𐤃	𐤄	𐤅	𐤆	𐤇	𐤈	𐤉	𐤊	𐤋	𐤌	𐤍	𐤎			
FF 70	𐤏	𐤐	𐤑	𐤒	𐤓	𐤔	𐤕	𐤖	𐤗	𐤘	𐤙	𐤚	𐤛	𐤜	𐤝	𐤞			
FF 80	𐤟	𐤠	𐤡	𐤢	𐤣	𐤤	𐤥	𐤦	𐤧	𐤨	𐤩	𐤪	𐤫	𐤬	𐤭	𐤮			
FF 90	𐤯	𐤰	𐤱	𐤲	𐤳	𐤴	𐤵	𐤶	𐤷	𐤸	𐤹	𐤺	𐤻	𐤼	𐤽	𐤾			

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).