

#Programming

#JavaScript

#js

#crc

#crc32

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EN

JavaScript - calculate crc32

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590

5

points



In this short article, we would like to show how in a simple way calculate CRC32 sum using JavaScript.

Practical example:

```
1  const CRC_TABLE = Array(256);
2
3  for (let i = 0; i < 256; ++i) {
4      let code = i;
5      for (let j = 0; j < 8; ++j) {
6          code = (code & 0x01 ? 0xEDB88320 ^ (code >> 1) : (code >> 1));
7      }
8      CRC_TABLE[i] = code;
9  }
10
11 const crc32 = text => {
12     let crc = -1;
13     for (let i = 0; i < text.length; ++i) {
14         const code = text.charCodeAt(i);
15         crc = CRC_TABLE[(code ^ crc) & 0xFF] ^ (crc >> 8);
16     }
17     return (-1 ^ crc) >> 0;
18 };
19
20
21 // Usage example:
22
23 console.log(crc32('This is example text ...')); // 3473739588
```

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