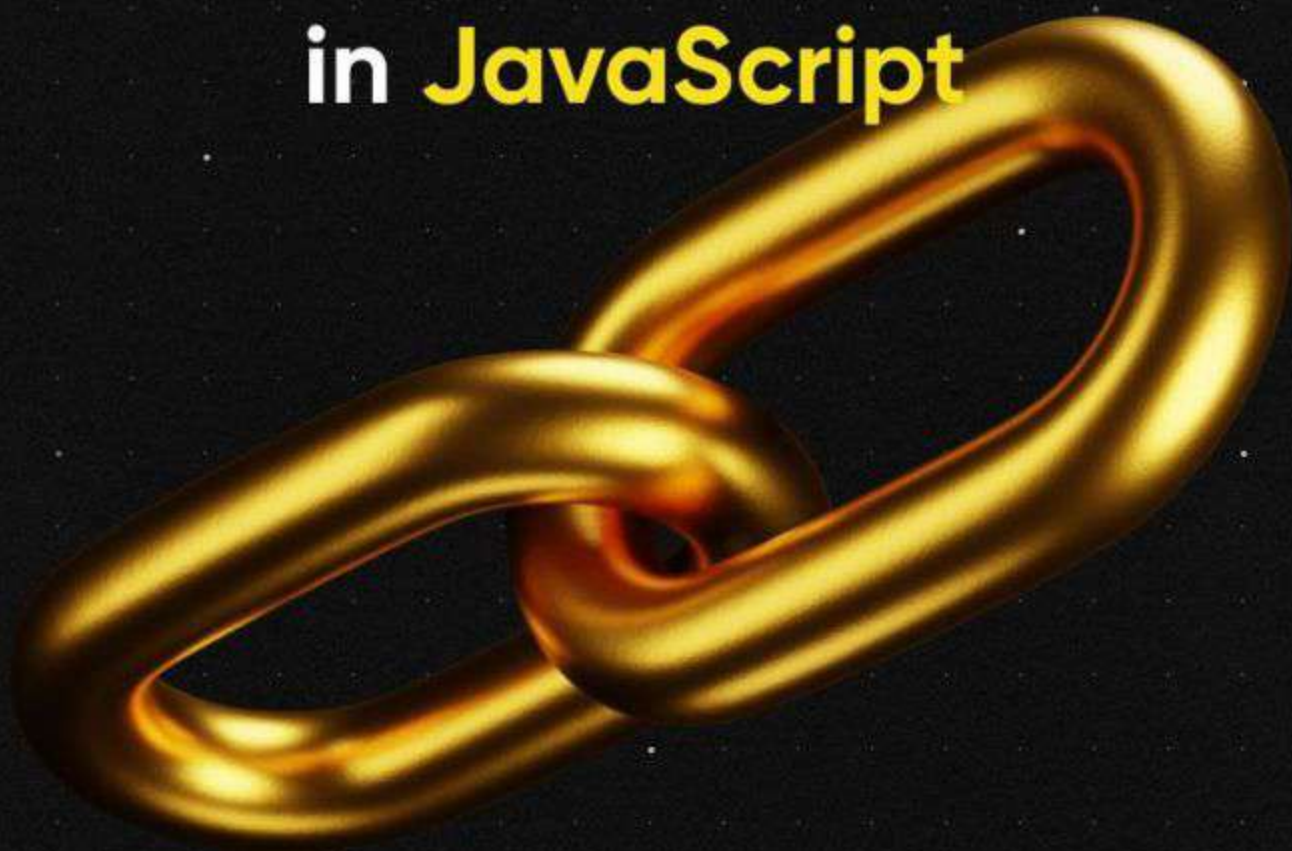




Working with URLs

in JavaScript



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1. Creating and Parsing URLs

Use the **URL constructor** to create or parse URLs easily.



```
const url = new URL('https://example.com/path?name=shravan');  
console.log(url.hostname); // example.com  
console.log(url.searchParams.get('name')); // shravan
```

2. Manipulating Query Parameters

Access, add, or modify query parameters with **URLSearchParams**.



```
const url = new URL('https://example.com?name=shravan');  
url.searchParams.set('age', '24');  
console.log(url.toString()); // https://example.com/?  
name=shravan&age=24
```



3. Extracting URL Components

Retrieve parts like protocol, pathname, and hash.



```
const url = new URL('https://example.com/path#section');  
console.log(url.protocol); // https:  
console.log(url.pathname); // /path  
console.log(url.hash); // #section
```

4. Encoding & Decoding URLs

Use **encodeURIComponent** and **decodeURIComponent** to handle special characters.



```
const query = 'name=shravan&city=some space';  
const encoded = encodeURIComponent(query);  
console.log(encoded); //  
name%3Dshravan%26city%3Dsome%20space  
console.log(decodeURIComponent(encoded)); //  
name=shravan&city=some space
```



5. Handling Relative URLs

Use the **URL constructor** to resolve relative URLs.
javascript.



```
const base = new
URL('https://example.com/base/');
const relative = new URL('subpath', base);
console.log(relative.toString()); //
https://example.com/base/subpath
```

6. Checking URL Validity

Validate a URL with a **try-catch block**.



```
try {
  const url = new URL('invalid-url');
} catch (error) {
  console.log('Invalid URL'); // Invalid
URL
}
```



7. Constructing URLs Dynamically

Build dynamic URLs **based on user input** or configurations.

```
const base = 'https://example.com';
const endpoint = '/api';
const query = { id: '123', name: 'shravan' };

const url = new URL(`${base}${endpoint}`);
Object.entries(query).forEach(([key, value]) => {
  url.searchParams.set(key, value);
});
console.log(url.toString()); //
https://example.com/api?id=123&name=shravan
```



8. Fetching Data with URLs

Combine URL and fetch **for making API calls**.



```
const url = new  
URL('https://api.example.com/data');  
url.searchParams.set('id', '123');  
fetch(url)  
  .then(response => response.json())  
  .then(data => console.log(data));
```



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9. Shortening Long URLs

Create shorter URLs using third-party services or **libraries**.



```
const longURL =  
'https://example.com/super/long/path?  
with=query&parameters=true';  
// Use APIs like bit.ly for URL shortening
```

10. URL Path Normalization

Use libraries like path or **URL APIs for consistent paths**.



```
const url = new  
URL('https://example.com//a/../b');  
console.log(url.pathname); // /b
```





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