# DOM, JSON And AJAX

## DOM

### What is DOM

Navigators use DOM to render the HTML file received from Server to graphical user interface. Therefore, if we change the information within the DOM, the GUI in the client site would be changed correspondently.

Diagram

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### JS interacts with DOM

There are four common ways using JavaScript to interact with DOM

1. Use `id`
2. Use `element tag`
3. Use `class`
4. Use HTML object collections

Graphical user interface, text, application, email

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## JSON

### What is JSON

JSON is a data structure JS used to pass data between Server side and Client side.

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### Transfer JSON to a JavaScript Object

Graphical user interface, text, application

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### Free JSON Data API

<https://jsonplaceholder.typicode.com/posts>

https://gorest.co.in/public-api/users

## Asynchronous JavaScript and XML(AJAX)

### What is AJAX

Compared to the traditional way, AJAX allows us do not refresh the whole website but update it accordingly based on the data received from Server side.

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### Example: get JSON data from free API

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