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Web- 231

11/21/2022

What is JSON?

JSON was created in the early 2000s along with JavaScript. JSON stands for JavaScript Object Notation, and it is a method used to store and move around data in JavaScript, for example, when data is moved from server to web page. Other reasons why JSON would be used can be to store information temporarily or when data is being transferred between systems. Today, JSON is found throughout all parts of programs (front-end and back-end), and is very popular among developers and in the IT community.

The reason why JSON is popular today is because it is text based, so its’ easy for humans to read and the machines can read them to. JSON is also lightweight and terse in its format, making it an efficient tool. JSON can be used throughout many programming languages, in addition to JavaScript, making it practical for data exchanges. JSON is fast in its results and is overall good at what it does, making it a very popular tool.

JSON does have markup rules, the way that its written does matter. Some rules include that data comes in name and value pairs, data is separated by commas, curly braces surround the object, and square brackets surround the arrays (multiple objects). The name of the data is in quotes, then a colon, then the value. JSON is written with the JavaScript and is integrated in the JavaScript with the built in function JSON.parse(). JSON code can be validated through a third party validator, such as <https://jsonlint.com/>.

Resources:

*What is JSON?* What is JSON. (n.d.). Retrieved November 21, 2022, from <https://www.w3schools.com/whatis/whatis_json.asp>

*What is JSON?* Oracle. (n.d.). Retrieved November 21, 2022, from <https://www.oracle.com/database/what-is-json/>

Tyson, M. (2022, August 26). *What is JSON? The Universal Data Format*. InfoWorld. Retrieved November 21, 2022, from <https://www.infoworld.com/article/3222851/what-is-json-a-better-format-for-data-exchange.html>