


# Working with JSON

## Lesson 03

August 16, 2016

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Ignite Agency Inc.

## Lesson Objectives

- JSON Introduction
- JSON Types
- JSON vs. XML
- Working with JSON Object
- Using JSON in jQuery



## JSON Introduction

- **Java Script Object Notation**
- **JSON is a lightweight format for exchanging data between the client and server.**
- **JSON is a syntax for passing around objects that contain name/value pairs, arrays and other objects.**
- **It is often used in AJAX applications because of its simplicity and because its format is based on JavaScript object literals.**
- **JSON is language independent and text based. It is easy to parse and generate.**
- **Supported by most of the languages.**

## JSON Types

- **Number** : integer, real or floating point
- **String** : double-quoted Unicode with backslashes
- **Boolean** : true and false
- **Array** : ordered sequence of comma-separated values enclosed in square brackets
- **Object** : collection of comma-separated “key”:value pairs enclosed in curly braces
- **null**

## JSON vs. XML

- **Lighter and faster than XML as on-the-wire data format**
- **JSON objects are typed while XML data is typeless**
  - JSON types: string, number, array, boolean
  - XML data are all string
- **Native data form for JavaScript code**
  - Data is readily accessible as JSON objects in your JavaScript code vs. XML data needed to be parsed and assigned to variables through tedious DOM APIs
  - Retrieving values is as easy as reading from an object property in your JavaScript code

## JSON Object Notation

- A JSON object is an unordered set of name/value pairs
  - A JSON object begins with { (left brace) and ends with } (right brace)
  - Each name is followed by : (colon) and the name/value pairs are separated by , (comma) and enclosed with in quotes.
- `var jsonObject = {"Name": "Karthik", "Company": "iGATE Patni"}`
- It is very easy to parse JSON. In JavaScript, the parsing process is immediate: All we have to do is pass the JSON string to the JavaScript `eval()` function
  - `var parsedJson = eval(jsonObject);`

## Demo

- [JSON-Intro.html](#)
- [JSON-Array-Object.html](#)



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## Using JSON in jQuery

- A JSON object can be passed as input into jQuery Methods, so that we can avoid method chaining.
- We can parse a JSON string in jQuery using the following syntax

```
var obj = jQuery.parseJSON(jsonString);
```



## Demo

➤ [JSON-jQuery.html](#)



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## Summary

- JSON is a lightweight format for exchanging data between the client and server.
- JSON objects are typed
- JSON is language independent and text based. It is easy to parse and generate
- It is often used in AJAX applications because of its simplicity



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## Lab

- 3.1. Working with JSON Object
- 3.2. Working with JSON Object and Array
- 3.3. Using JSON object in jQuery



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## Review Question

➤ JSON is language dependent?

- True / False



➤ \_\_\_\_\_ is not a valid JSON type

- A. Boolean
- B. String
- C. Date
- D. Array

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