

# Lesson Objectives

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



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### 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

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### 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

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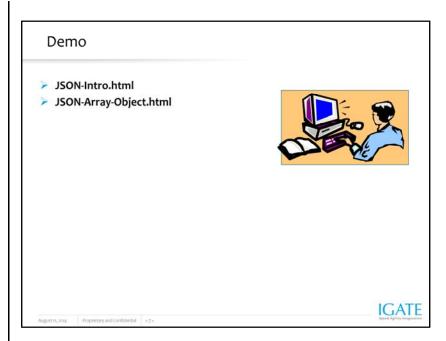
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## JSON Object Notation

- 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);

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jQuery Working with JSON



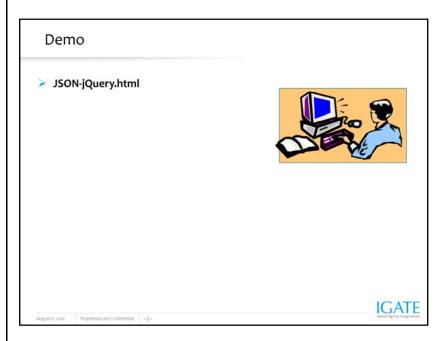
# Using JSON in jQuery

- 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);

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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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jQuery Working with JSON

# Lab → 3.1.Working with JSON Object → 3.2.Working with JSON Object and Array → 3.3.Using JSON object in jQuery → 3.4.Using JSON object in jQuery

