

Charlotte PowerBuilder Conference

Moving at the Speed of Change

May 2015

'Roll your own' JSON parser

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- Introduction
- C# Json.Net
- PowerBuilder Code
- Questions

Agenda

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- Matthew Balent
 - Began with PB 5 at Computer Sciences Corporation
 - Senior Software Engineer with McKesson Enterprise Information Systems
 - Healthcare, Insurance, Manufacturing, Logistics, and Public Utility software
 - SQL Server, Sybase, Oracle database development
 - Founding member of North Carolina PowerBuilder Users Group (NCPBUG.ORG)
 - PowerBuilder MVP

Curriculum vitae

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- **JSON**, or JavaScript Object Notation, is a minimal, readable format for structuring data. It is used primarily to transmit data between a server and web application, as an alternative to XML
- An example of where this is used is web services responses. In the 'old' days, web services used XML as their primary data format for transmitting back data, but since JSON appeared it has been the preferred format because it is much more **lightweight**
- JSON is built on two structures:
- A collection of name/value pairs. In various languages, this is realized as an object, record, struct, dictionary, hash table, keyed list, or associative array.
- An ordered list of values. In most languages, this is realized as an array, vector, list, or sequence.
- Here is an example of JSON data:
- ```
{ "firstName": "John", "lastName": "Smith", "address": { "streetAddress": "21 2nd Street", "city": "New York", "state": "NY", "postalCode": 10021 }, "phoneNumbers": ["212 555-1234", "646 555-4567"] }
```
- <http://www.newtonsoft.com/json> - Open source

## Introduction



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- Create a C# dll with methods exposed via COM
- Json.Net has wide variety of methods

**.Net component**



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