

## How to parse JSON string

JSON is a popular data representation format. This article shows how to parse a JSON string using Windows Phone and Symbian C++, and provides links to libraries that can be used to parse JSON in Qt.

### JSON Parsing in Windows Phone



The code snippet below shows how the [json2csharp](#) and [json.net](#) are used to parse JSON. The code given below parses the response received by Google's translator which is in JSON format.

```
private void ParseJson()
{
    var jsonString =
        "{\"responseData\": {\"translatedText\": \"תלד ןגא\", \"responseDetails\": null,
        \"responseStatus\": 200}";
    RootObject jsonObject = JsonConvert.DeserializeObject<RootObject>(jsonString);
    MessageBox.Show(jsonObject.responseData.translatedText);
}
//This class was generated with json2csharp
public class ResponseData
{
    public string translatedText { get; set; }
}
//This class was generated with json2csharp
public class RootObject
{
    public ResponseData responseData { get; set; }
    public object responseDetails { get; set; }
    public int responseStatus { get; set; }
}
```

### Symbian C++ parsing library

The Symbian C++ parser is called **s60-json-library**. It is hosted on code.google.com [here](#) and can be downloaded from: [Media:S60-json-library.zip](#).

The code snippet below shows how the API is used to parse JSON. The code given below parses the response received by Google's translator which is in JSON format.

```
_LIT(KTestFormattedJson, "{\"responseData\": {\"translatedText\": \"תלד ןגא\",
        \"responseDetails\": null, \"responseStatus\": 200}");

CJsonBuilder* jsonBuilder = CJsonBuilder::NewL();
// this will create json string representation in memory
jsonBuilder->BuildFromJsonStringL(ikTestFormattedJson);

CJsonObject* rootObject;
CJsonObject* textObj;
jsonBuilder->GetDocumentObject(rootObject);

if(rootObject)
{
    TBuf<256> message;
    rootObject->GetObjectL(_L("responseData"), textObj);
    textObj->GetStringL(_L("translatedText"), message);
}
```

```
}  
  
// we need manually release created object  
delete rootObject;  
  
// releases only jsonBuilder object, not objects which was created by him  
delete jsonBuilder;
```

## JSON Parsing in Qt

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- [QJson](#) - a library for parsing JSON in Qt

## JSON in Java

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See [J2ME clients for JSON services made easy: the complete implementation](#)