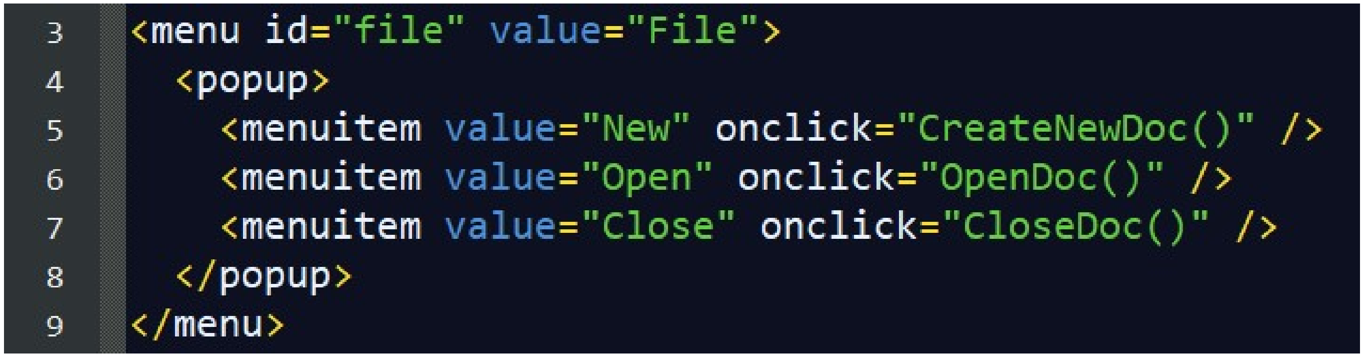
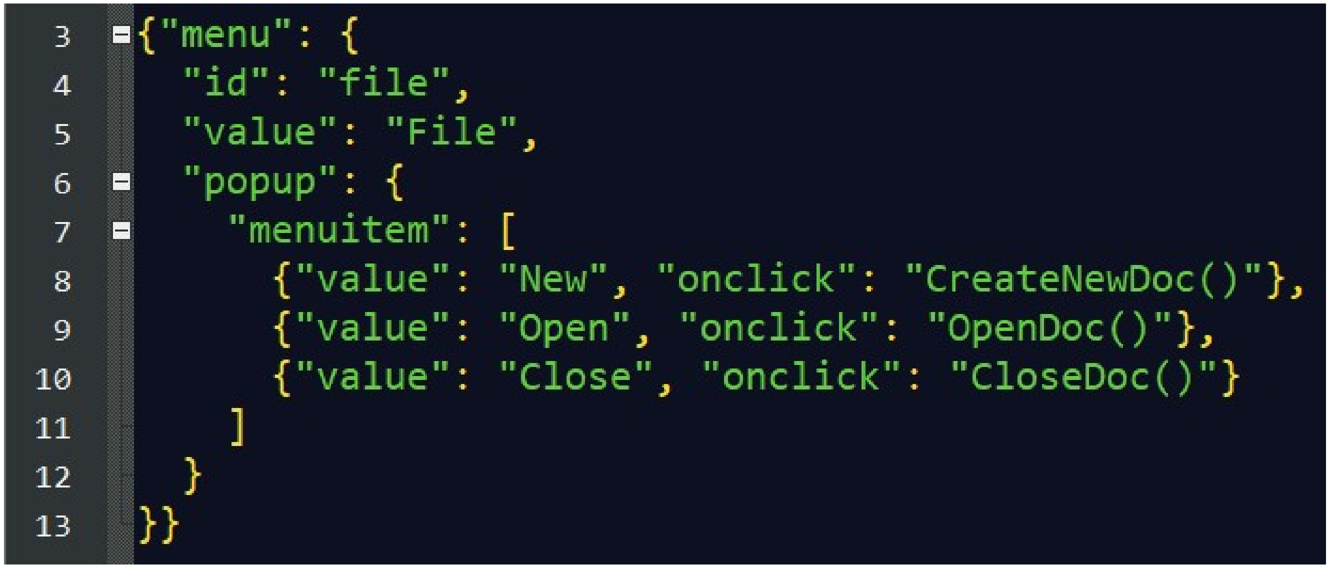
JSON

What is JSON?

JSON VS XML

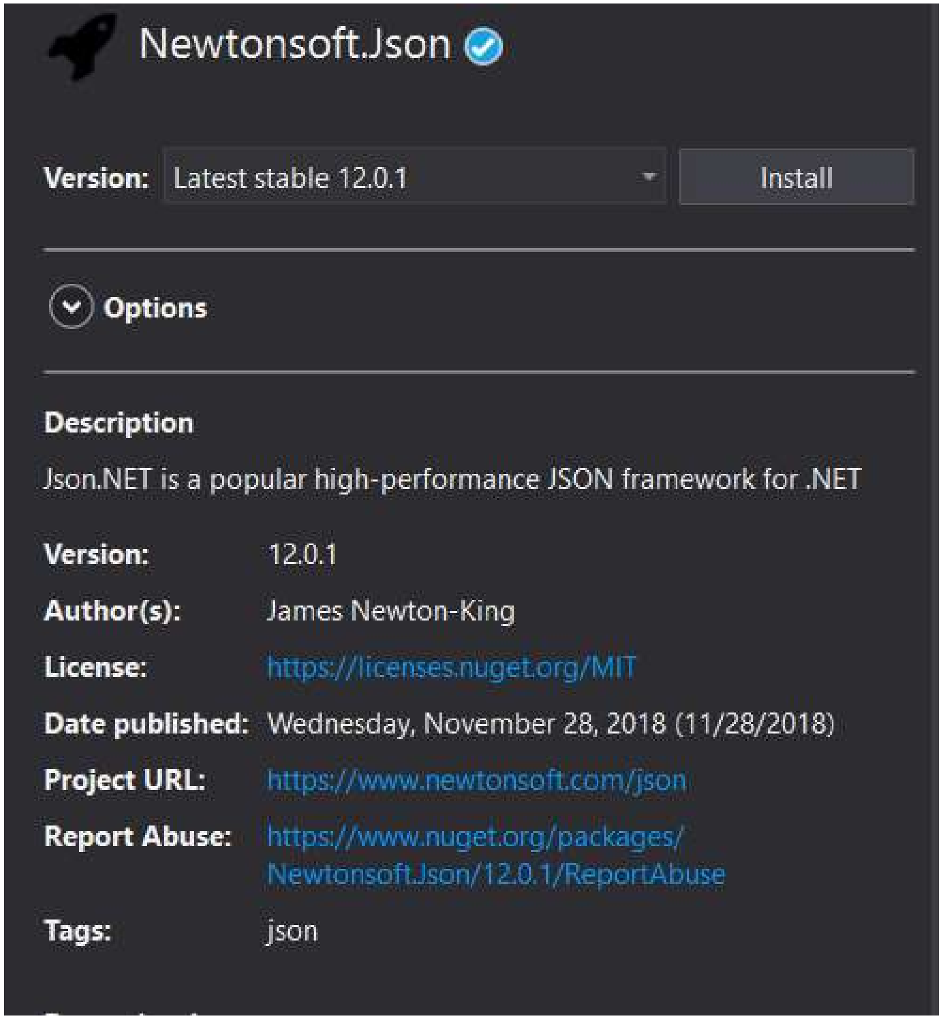


```xml
<menu id="file" value="File">
  <popup>
    <menuitem value="New" onclick="CreateNewDoc()" />
    <menuitem value="Open" onclick="OpenDoc()" />
    <menuitem value="Close" onclick="CloseDoc()" />
  </popup>
</menu>
```



```json
{"menu": {
  "id": "file",
  "value": "File",
  "popup": {
    "menuitem": [
      {"value": "New", "onclick": "CreateNewDoc()"},
      {"value": "Open", "onclick": "OpenDoc()"},
      {"value": "Close", "onclick": "CloseDoc()"}
    ]
  }
}}
```

NuGet JSON Library



Version: Latest stable 12.0.1

Description

Json.NET is a popular high-performance JSON framework for .NET

Version:	12.0.1
Author(s):	James Newton-King
License:	https://licenses.nuget.org/MIT
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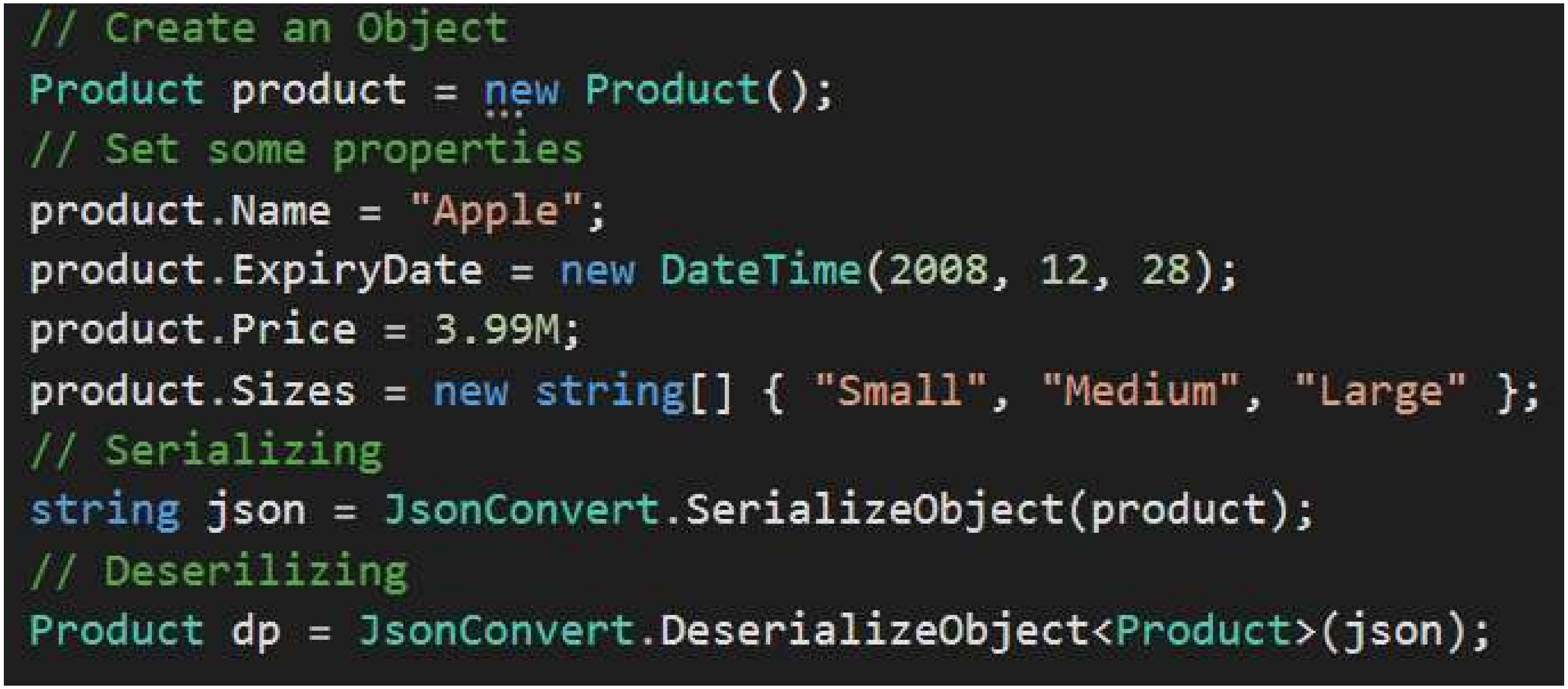
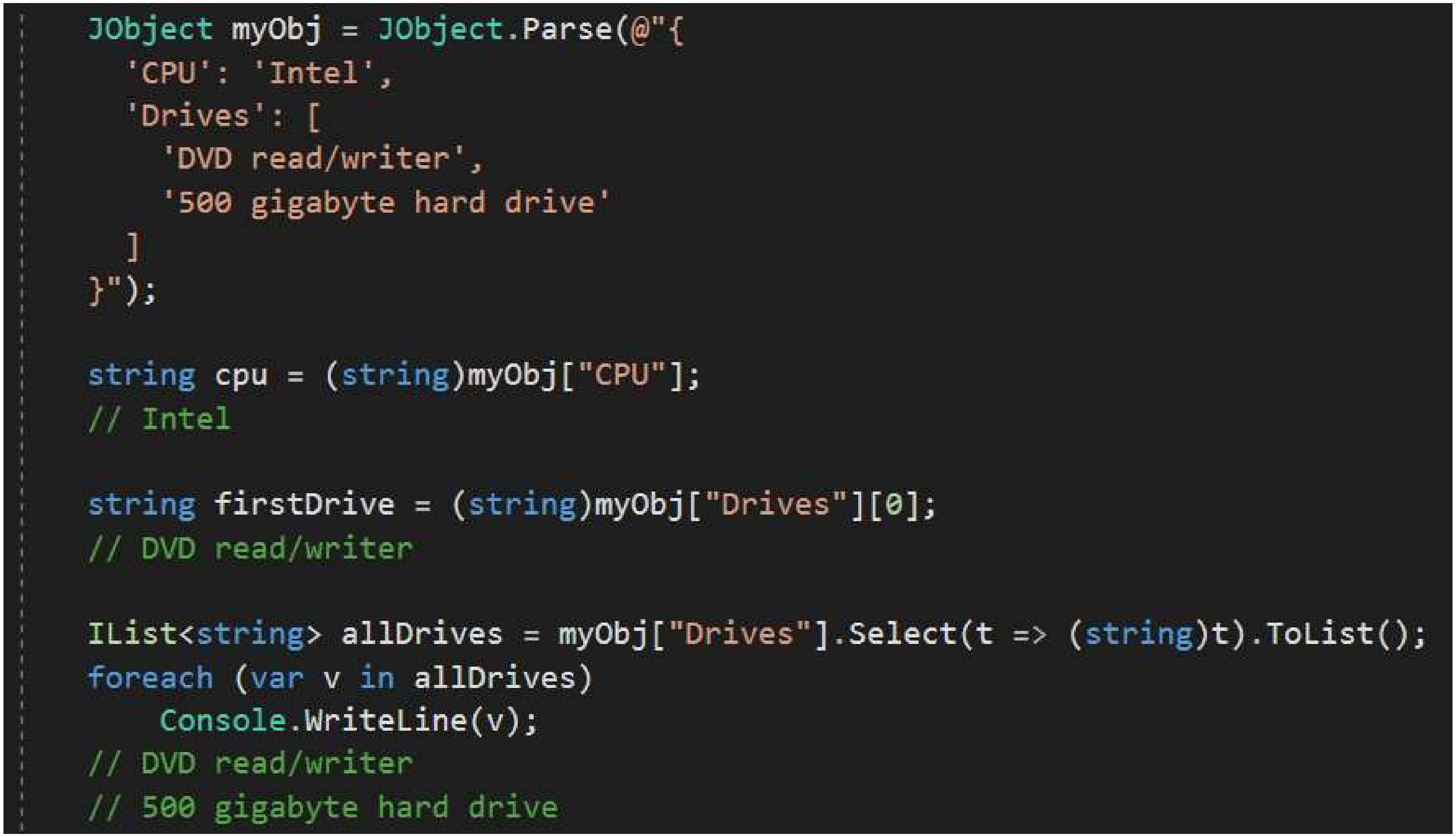
Project URL:	https://www.newtonsoft.com/json
Report Abuse:	https://www.nuget.org/packages/Newtonsoft.Json/12.0.1/ReportAbuse
Tags:	json

JsonConvert



```
// Create an Object
Product product = new Product();
// Set some properties
product.Name = "Apple";
product.ExpiryDate = new DateTime(2008, 12, 28);
product.Price = 3.99M;
product.Sizes = new string[] { "Small", "Medium", "Large" };
// Serializing
string json = JsonConvert.SerializeObject(product);
// Deserilizing
Product dp = JsonConvert.DeserializeObject<Product>(json);
```

JSON and LINQ



```
JObject myObj = JObject.Parse(@"{
  'CPU': 'Intel',
  'Drives': [
    'DVD read/writer',
    '500 gigabyte hard drive'
  ]
}");

string cpu = (string)myObj["CPU"];
// Intel

string firstDrive = (string)myObj["Drives"][0];
// DVD read/writer

IList<string> allDrives = myObj["Drives"].Select(t => (string)t).ToList();
foreach (var v in allDrives)
    Console.WriteLine(v);
// DVD read/writer
// 500 gigabyte hard drive
```