

Custom Serialization



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Custom Serialization

Conditional
Serialization

Custom
JsonConverter

Callbacks

ITraceWriter

Conditional Serialization

- Select dynamically what to serialize and what not to based on certain conditions

A solid orange square.

ShouldSerialize

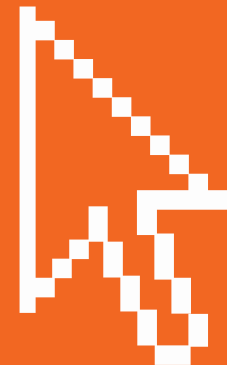
A solid green square.

DataContractResolver

Demo 9: Conditional Serialization

ShouldSerialize<*Member*>

IContractResolver



Custom JsonConvert

- Create your own converter
- Derived from JsonConvert
- Override methods as needed

```
{  
  "name": "Xavier Morera",  
  "courses": [  
    "Solr",  
    "dotTrace"  
  ],  
  "since": "2014-01-14T00:00:00",  
  "happy": true,  
  "issues": null,  
  "car": {  
    "model": "Land Rover Series III",  
    "year": 1976  
  }  
}
```



```
Author xavierAuthor = new Author()  
{  
  name = "Xavier Morera",  
  courses = new string[] { "Solr",  
    "JIRA",  
    "dotTrace"  
  },  
  happy = true,  
  issues = null  
};
```

Demo 10: Custom JsonConverter

```
Converters = new List<JsonConverter>()
```



Serialization Callbacks

OnSerializing

Methods Executed

OnSerialized

Before & After

OnDeserializing

Serialization /
Deserialization

OnDeserialized

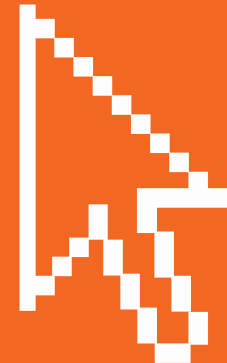
Demo 11: Callbacks

OnSerializing

OnSerialized

OnDeserializing

OnDeserialized



Debugging with ITraceWriter

- What if you want to debug?
- Or understand better the serialization process?
- Or you are running into errors but can't figure out why...
- Use a ITraceWriter

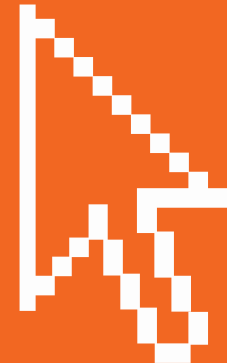
Memory
TraceWriter

Custom
TraceWriter

Demo 12: TraceWriter

Logging

Debugging



Takeaway

Conditional
Serialization

Custom
JsonConverter

Callbacks

ITraceWriter