# classToJSON

**Syntax**

```
set aString = anObject.classToJSON()
set aString = anObject.classToJSON(options)
```

**Semantics**

The operation `classToJSON()` takes any object (`anObject`) or array of objects and tries to map it to a JSON string `aString`. If this is not possible, an error is raised.
JSON types and xUML types are mapped as listed on JSON Type Mapping.

> `classToJSON()` does not support cyclic structures. When a cyclic structure is detected during serializing the given object, an exception will be thrown.

**Substitutables**

| | |
|---|---|
| `anObject` | Any object. |
| `aString` | Target JSON document as **String**. |

**JSONAdapter_Example**

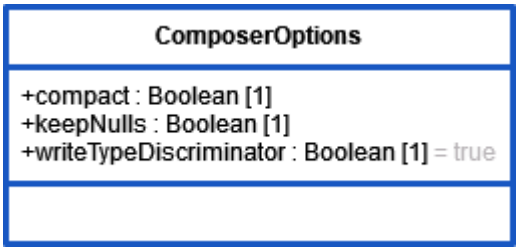
Click the icon to download a simple example model that shows the usage of the JSON adapter (classToJSON) in **Sc heer PAS** *Designer*.

**Related Pages:**

- jsonToClass() Operation
- JSON Type Mapping
- classToExtendedJSON() Operation
- extendedJSONToClass() Operation

`options`

The optional parameter is an object of type **ComposerOptions**.




Its attribute is:

| Attribute | Type | Description | Allowed Values | |
|---|---|---|---|---|
| **keepNulls** | Boolean | When **keepNulls** is true, attributes of anObject with NULL values will be rendered to the JSON object, otherwise they will be left out completely (see also chapter NULL Values). The default behavior of `classToJson()` (i.e. when called without options) is equivalent to **keepNulls**=false. | true | Render NULL attributes to the JSON object. |
| | | | **false** | Leave out NULL attributes (default). |
| **compact** | Boolean | When **compact** is true, the JSON composer will generate compact JSON, otherwise it will generate pretty JSON. The default behavior of `classToJson()` (i.e. when called without options) is equivalent to **compact**=false. | true | Generate compact JSON. |
| | | | **false** | Generate pretty JSON (default). |
| **writeTypeDiscriminator** | Boolean | Use **writeTypeDiscriminator** to suppress the generation of xUML type properties ("e2e:type") to the generated JSON. If this option is true, the Runtime will write the original xUML type to the generated JSON in form of `"e2e:type": "<name of the original xUML type>"` if the type being serialized does not match the expected metadata. This is necessary if you want to convert the generated JSON back to an xUML class using jsonToClass().<br><br>Runtime versions before 2021.6 will ignore the value. | **true** | Write xUML type discriminator (default). |
| | | | false | Do not write xUML type discriminator. |

**Examples**

```
set addressAsJSONDocument = myAddress.classToJSON();
```

**JSONAdapter_Example**

Click the icon to download a simple example model that shows the usage of the JSON adapter (classToJSON) in **Scheer PAS** *Designer*.