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# **link.json Documentation**

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**link.json** provides some utilities for JSON like:

- [JSON Schema](#) (validation and generation)
- [JSON Patch](#)
- [Collection+JSON](#)
- ...

Checkout the source code on [Github](#).



## **Installation**

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```
pip install link.json
```



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## Contents

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## 2.1 API documentation

### 2.1.1 link.json package

#### Submodules

##### link.json.collection module

```
class link.json.collection.CollectionJSONResponse (href, links=None, items=None,  

queries=None, template=None, error=None, *args, **kwargs)
```

Bases: `object`

Helper class used to generate valid Collection+JSON objects.

**ITEM\_ID = ‘id’**

**json()**  
Generate JSON object.

**Returns** Collection+JSON object

**Return type** `dict`

**classmethod make\_item(*href*, *document*, *schema=None*)**

**static template\_from\_schema(*schema*)**

```
link.json.collection.generate_collection_response (href, links=None, items=None,  

queries=None, schema=None,  

error=None)
```

Helper instantiating a `CollectionJSONResponse` class using the default schema.

#### Parameters

- **href** (`str`) – Base URL
- **links** (`list`) – Optional list of links
- **items** (`list`) – Optional list of items
- **queries** (`list`) – Optional list of queries
- **schema** (`dict`) – Optional item schema
- **error** (`dict`) – Optional error

**Returns** Collection+JSON object

**Return type** dict

## link.json.exceptions module

**exception** link.json.exceptions.JsonError

Bases: exceptions.Exception

Base error raised in this package.

**exception** link.json.exceptions.JsonTransformationError

Bases: link.json.exceptions.JsonError

Transformation error.

**exception** link.json.exceptions.JsonValidationError

Bases: link.json.exceptions.JsonError

Validation error.

## link.json.resolver module

**class** link.json.resolver.JsonResolver(*base\_uri*='', *referrer*=None, *\*\*kwargs*)

Bases: jsonschema.validators.RefResolver

Resolve JSON references.

See: <https://tools.ietf.org/html/draft-pbryan-zyp-json-ref-03>

**resolve\_remote**(*uri*)

## link.json.schema module

**class** link.json.schema.JsonSchema(\*args, \*\*kwargs)

Bases: object

Helper class used to validate data with the JSON Schema specification.

See: <http://json-schema.org>

**isValid**(*schema\_or\_url*, *data*)

Check if data is validated by schema.

### Parameters

- **schema\_or\_url** (dict or str) – Schema used for validation, or URL pointing to it
- **data** (any) – Data to validate

**Returns** True if data is valid, False otherwise

**Return type** bool

**validate**(*schema\_or\_url*, *data*)

Validate data against schema.

### Parameters

- **schema\_or\_url** (dict or str) – Schema used for validation, or URL pointing to it

- **data** ([any](#)) – Data to validate

**Raises** `JsonValidationError` – if data is not validated by schema

## link.json.generator module

**class** `link.json.generator.SchemaGenerator`

Bases: `object`

Class used to generate JSON schema from data.

**DRAFT** = ‘<http://json-schema.org/draft-04/schema#>’

**exception Error**

Bases: `exceptions.Exception`

Error raised when an error occurred during schema generation.

`SchemaGenerator.get_type(obj)`

Get JSON type from object.

**Parameters** `obj`(any JSON serializable basic type) – Object to guess type name from.

**Returns** JSON type name

**Return type** `str`

**Raises** `SchemaGenerator.Error`: when obj is not a valid type

`SchemaGenerator.get_unique_keys(properties, obj, required)`

Get required keys from object.

`SchemaGenerator.process_array(obj, output=None, nested=False)`

Guess schema of array’s items.

`SchemaGenerator.process_object(obj, output=None, nested=False)`

Guess schema of object’s properties.

## link.json.transform module

**class** `link.json.transform.JsonTransform(source, patch, target, *args, **kwargs)`

Bases: `object`

Apply a transformation on data.

A schema is used to validate the input data, and the output data. A JSON Patch is used to apply the transformation.

See: <http://jsonpatch.com>

`patch`

`source`

`target`

## Module contents



## **CHAPTER 3**

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### **Donating**

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