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# API Elements (JS) Documentation

*Release 1.0*

**Apiary**

Jan 24, 2019



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# CHAPTER 1

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## Installation

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```
$ npm install api-elements
```



# CHAPTER 2

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## Usage

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```
const apiElements = require('api-elements');
const namespace = new apiElements.Namespace();

// Parsing a JSON Representation of API Elements tree
const parseResult = namespace.serialiser.deserialise({
  element: 'parseResult',
  content: []
});

console.log(parseResult);

// Creating API Elements directly
const parseResult = new namespace.elements.ParseResult();
console.log(parseResult);
```



# CHAPTER 3

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## API Reference

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### 3.1 API Reference

#### Contents

- *API Reference*
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### 3.1.1 Namespace

`class Namespace()`

A refract element implementation with an extensible namespace, able to load other namespaces into it.

The namespace allows you to register your own classes to be instantiated when a particular refract element is encountered, and allows you to specify which elements get instantiated for existing Javascript objects.

`Namespace.register(name, elementClass)`

Register a new element class for an element.

#### Arguments

- **name** (*string*) –
- **elementClass** –

`Namespace.serialiser`

**type:** JSONSerialiser

Convinience method for getting a JSON Serialiser configured with the current namespace

`Namespace.unregister(name)`

Unregister a previously registered class for an element.

#### Arguments

- **name** (*string*) –

`Namespace.use(plugin)`

Use a namespace plugin or load a generic plugin.

#### Arguments

- **plugin** –

### Serialiser

`class JSONSerialiser(namespace)`

#### Arguments

- **namespace** (`Namespace`) –
- **namespace** –

`JSONSerialiser.deserialise(value)`

**Arguments**

- **value** (*object*) –

**Returns Element** –

`JSONSerialiser.serialise(element)`

**Arguments**

- **element** (*Element*) –

**Returns object** –

### 3.1.2 Elements

#### Element

`class Element(content, meta, attributes)`

**Arguments**

- **content** –
- **meta** –
- **attributes** –
- **element** (*string*) –

`Element.attributes`

The attributes property defines attributes about the given instance of the element, as specified by the element property.

`Element.children`

**type:** ArraySlice

Returns all of the children elements found within the element.

**See also:**

- *recursiveChildren*

`Element.classes`

**type:** ArrayElement

`Element.clone()`

Creates a deep clone of the instance

`Element.description`

**type:** StringElement

Human-readable description of element

`Element.element`

**type:** String

`Element.findRecursive(...names)`

Finds the given elements in the element tree. When providing multiple element names, you must first freeze the element.

**Arguments**

- **names** (*elementNames*) –

**Returns** **ArraySlice** –

**Element.freeze()**

Freezes the element to prevent any mutation. A frozen element will add *parent* property to every child element to allow traversing up the element tree.

**Element.id**

**type:** StringElement

Unique Identifier, MUST be unique throughout an entire element tree.

**Element.isFrozen**

**type:** boolean

Returns whether the element is frozen.

**See also:**

- *freeze*

**Element.links**

**type:** ArrayElement

**Element.meta**

**Element.parents**

**type:** ArraySlice

Returns all of the parent elements.

**See also:**

- *freeze*

**Element.recursiveChildren**

**type:** ArraySlice

Returns all of the children elements found within the element recursively.

**See also:**

- *children*

**Element.title**

**type:** StringElement

Human-readable title of element

**Element.toRef()**

Creates a reference pointing at the Element

**Returns** **RefElement** –

**Element.toValue()**

## Primitives

### String

```
class StringElement (content, meta, attributes)
```

#### Arguments

- **content** (*string*) –
- **meta** –
- **attributes** –

`StringElement.length`

**type:** number

The length of the string.

### Number

```
class NumberElement (content, meta, attributes)
```

#### Arguments

- **content** (*number*) –
- **meta** –
- **attributes** –

### Boolean

```
class BooleanElement (content, meta, attributes)
```

#### Arguments

- **content** (*boolean*) –
- **meta** –
- **attributes** –

### Null

```
class NullElement ()
```

## Collections

### Array

```
class ArrayElement (content, meta, attributes)
```

#### Arguments

- **content** (`Array.<Element>`) –
- **meta** –

- **attributes** –

ArrayElement.**add** (*value*)

**Arguments**

- **value** –

ArrayElement.**compactMap** (*transform*, *thisArg*)

Returns an array containing the truthy results of calling the given transformation with each element of this sequence

**Arguments**

- **transform** – A closure that accepts an element of this array as its argument and returns an optional value.
- **thisArg** – Value to use as this (i.e the reference Object) when executing callback

**Returns** An array of the non-undefined results of calling transform with each element of the array

ArrayElement.**contains** (*value*)

Looks for matching children using deep equality

**Arguments**

- **value** –

**Returns boolean** –

ArrayElement.**filter** (*callback*, *thisArg*)

**Arguments**

- **callback** – Function to execute for each element
- **thisArg** – Value to use as this (i.e the reference Object) when executing callback

**Returns ArraySlice** –

ArrayElement.**find** (*condition*)

Recusively search all descendants using a condition function.

**Arguments**

- **condition** –

**Returns ArraySlice** –

ArrayElement.**findByClass** (*className*)

**Arguments**

- **className** (*string*) –

**Returns ArraySlice** –

ArrayElement.**findByElement** (*element*)

**Arguments**

- **element** (*string*) –

**Returns ArraySlice** –

ArrayElement.**findElements** ()

Recusively search all descendants using a condition function.

**Returns** `Array.<Element>` –

`ArrayElement.first`

**type:** Element

Return the first item in the collection

`ArrayElement.flatMap(callback, thisArg)`

Maps and then flattens the results.

**Arguments**

- **callback** – Function to execute for each element.
- **thisArg** – Value to use as this (i.e the reference Object) when executing callback

**Returns** `array` –

`ArrayElement.forEach(callback, thisArg)`

**Arguments**

- **callback** (`forEachCallback`) – Function to execute for each element
- **thisArg** – Value to use as this (i.e the reference Object) when executing callback

`ArrayElement.get()`

**Returns** `Element` –

`ArrayElement.getById(id)`

Search the tree recursively and find the element with the matching ID

**Arguments**

- **id** (`string`) –

**Returns** `Element` –

`ArrayElement.getIndex()`

**Returns** `Element` –

`ArrayElement.getValue()`

Helper for returning the value of an item This works for both `ArrayElement` and `ObjectElement` instances

`ArrayElement.isEmpty`

**type:** boolean

Returns whether the collection is empty

`ArrayElement.last`

**type:** Element

Return the last item in the collection

`ArrayElement.length`

**type:** number

Returns the length of the collection

`ArrayElement.map(callback, thisArg)`

**Arguments**

- **callback** – Function to execute for each element
- **thisArg** – Value to use as this (i.e the reference Object) when executing callback

ArrayElement.**push** (*value*)

**Arguments**

- **value** –

ArrayElement.**reject** (*callback, thisArg*)

**Arguments**

- **callback** – Function to execute for each element
- **thisArg** – Value to use as this (i.e the reference Object) when executing callback

**Returns** ArraySlice –

ArrayElement.**remove** ()

ArrayElement.**second**

**type:** Element

Return the second item in the collection

ArrayElement.**set** ()

ArrayElement.**shift** ()

**Returns** Element –

ArrayElement.**unshift** (*value*)

**Arguments**

- **value** –

## Object

**class** ObjectElement (*content, meta, attributes*)

**Arguments**

- **content** –
- **meta** –
- **attributes** –

ObjectElement.**compactMap** (*transform, thisArg*)

Returns an array containing the truthy results of calling the given transformation with each element of this sequence

**Arguments**

- **transform** – A closure that accepts the value, key and member element of this object as its argument and returns an optional value.
- **thisArg** – Value to use as this (i.e the reference Object) when executing callback

**Returns** An array of the non-undefined results of calling transform with each element of the array

ObjectElement.**filter** (*callback, thisArg*)

**Arguments**

- **callback** –

- **thisArg** – Value to use as this (i.e the reference Object) when executing callback

**Returns ObjectSlice –**

ObjectElement.**forEach** (callback, thisArg)

**Arguments**

- **callback** –
- **thisArg** – Value to use as this (i.e the reference Object) when executing callback

ObjectElement.**get** (key)

**Arguments**

- **key** –

**Returns Element –**

ObjectElement.**getKey** (key)

**Arguments**

- **key** –

**Returns Element –**

ObjectElement.**getMember** (key)

**Arguments**

- **key** –

**Returns MemberElement –**

ObjectElement.**hasKey** ()

**Returns boolean –**

ObjectElement.**items** ()

**Returns array –**

ObjectElement.**keys** ()

ObjectElement.**map** (callback, thisArg)

**Arguments**

- **callback** –
- **thisArg** – Value to use as this (i.e the reference Object) when executing callback

ObjectElement.**reject** (callback, thisArg)

**Arguments**

- **callback** –
- **thisArg** – Value to use as this (i.e the reference Object) when executing callback

**Returns ObjectSlice –**

ObjectElement.**remove** (key)

**Arguments**

- **key** –

`ObjectElement.set()`

Set allows either a key/value pair to be given or an object If an object is given, each key is set to its respective value

`ObjectElement.values()`

### Member

`class MemberElement (key, value, meta, attributes)`

#### Arguments

- `key (Element)` –
- `value (Element)` –
- `meta` –
- `attributes` –

`MemberElement.key`

`type:` Element

`MemberElement.value`

`type:` Element

### Profiles

`class LinkElement (content, meta, attributes)`

Hyperlinking MAY be used to link to other resources, provide links to instructions on how to process a given element (by way of a profile or other means), and may be used to provide meta data about the element in which it's found. The meaning and purpose of the hyperlink is defined by the link relation according to RFC 5988.

#### Arguments

- `content` –
- `meta` –
- `attributes` –

`LinkElement.href`

`type:` StringElement

The URI for the given link.

`LinkElement.relation`

`type:` StringElement

The relation identifier for the link, as defined in RFC 5988.

### Referencing

`class RefElement (content, meta, attributes)`

#### Arguments

- `content` –
- `meta` –
- `attributes` –

RefElement.**path**

**type:** StringElement

Path of referenced element to transclude instead of element itself.

## Parse Result

**class ParseResult** (*content, meta, attributes*)

### Arguments

- **content** (Array) –

- **meta** –

- **attributes** –

ParseResult.**annotations**

**type:** ArraySlice

ParseResult.**api**

**type:** Category

ParseResult.**errors**

**type:** ArraySlice

ParseResult.**sourceMapValue**

**type:** Array

ParseResult.**warnings**

**type:** ArraySlice

## Annotation

**class Annotation** (*content, meta, attributes*)

### Arguments

- **content** (string) –

- **meta** –

- **attributes** –

Annotation.**sourceMapValue**

**type:** Array

## SourceMap

**class SourceMap** (*content, meta, attributes*)

### Arguments

- **content** (Array) –

- **meta** –

- **attributes** –

SourceMap.**sourceMapValue**

**type:** Array

## API Description

### Category

```
class Category (content, meta, attributes)
```

#### Arguments

- **content** (Array) –
- **meta** –
- **attributes** –

```
Category.authSchemeGroups
```

**type:** ArraySlice

```
Category.authSchemes
```

**type:** ArraySlice

```
Category.dataStructures
```

**type:** ArraySlice

```
Category.resourceGroups
```

**type:** ArraySlice

```
Category.resources
```

**type:** ArraySlice

```
Category.transitions
```

**type:** ArraySlice

### Copy

```
class Copy (content, meta, attributes)
```

#### Arguments

- **content** (string) –
- **meta** –
- **attributes** –

```
Copy.contentType
```

**type:** StringElement

```
Copy.copy
```

**type:** Copy

### Data Structure

```
class DataStructure (content, meta, attributes)
```

#### Arguments

- **content** (Element) –
- **meta** –
- **attributes** –

```
class Enum(content, meta, attributes)
```

#### Arguments

- **content** ([Element](#)) –
- **meta** –
- **attributes** –

```
Enum.enumerations
```

```
type: ArrayElement
```

## Resource

```
class Resource(content, meta, attributes)
```

#### Arguments

- **content** ([Array](#)) –
- **meta** –
- **attributes** –

```
Resource.dataStructure
```

```
type: DataStructure
```

```
Resource.href
```

```
type: StringElement
```

```
Resource.hrefVariables
```

```
type: HrefVariables
```

```
Resource.transitions
```

```
type: ArraySlice
```

```
class Transition(content, meta, attributes)
```

#### Arguments

- **content** ([Array](#)) –
- **meta** –
- **attributes** –

```
Transition.contentTypes
```

```
type: ArrayElement
```

```
Transition.data
```

```
type: DataStructure
```

```
Transition.href
```

```
type: StringElement
```

```
Transition.hrefVariables
```

```
type: HrefVariables
```

```
Transition.method
```

```
type: StringElement
```

```
Transition.relation
```

```
type: StringElement
```

Transition.**transactions**  
type: ArraySlice

## HTTP Transaction

**class HttpTransaction**(*content, meta, attributes*)

### Arguments

- **content** (Array) –
- **meta** –
- **attributes** –

HttpTransaction.**authSchemes**  
type: ArrayElement

HttpTransaction.**request**  
type: HttpRequest

HttpTransaction.**response**  
type: HttpResponse

**class HttpMessagePayload**(*content, meta, attributes*)

### Arguments

- **content** (Array) –
- **meta** –
- **attributes** –

HttpMessagePayload.**contentType**  
type: StringElement

HttpMessagePayload.**dataStructure**  
type: Asset

HttpMessagePayload.**headers**  
type: HttpHeaders

HttpMessagePayload.**messageBody**  
type: Asset

HttpMessagePayload.**messageBodySchema**  
type: Asset

**class HttpRequest**(*content, meta, attributes*)

### Arguments

- **content** –
- **meta** –
- **attributes** –

HttpRequest.**href**  
type: StringElement

HttpRequest.**method**  
type: StringElement

```
class HttpResponse (content, meta, attributes)
```

#### Arguments

- **content** –
- **meta** –
- **attributes** –

```
HttpResponse.statusCode
```

**type:** NumberElement

```
class HttpHeaders (content, meta, attributes)
```

#### Arguments

- **content** (Array) –
- **meta** –
- **attributes** –

```
class Asset (content, meta, attributes)
```

#### Arguments

- **content** (string) –
- **meta** –
- **attributes** –

```
Asset.contentType
```

**type:** StringElement

```
Asset.href
```

**type:** StringElement

```
class HrefVariables (content, meta, attributes)
```

#### Arguments

- **content** (Array) –
- **meta** –
- **attributes** –

```
class AuthScheme (content, meta, attributes)
```

#### Arguments

- **content** (Array) –
- **meta** –
- **attributes** –

### 3.1.3 Slice

```
class ArraySlice (elements)
```

#### Arguments

- **elements** (Array.<Element>) –
- **elements** –

`ArraySlice.add()`

`ArraySlice.compactMap (transform, thisArg)`

Returns an array containing the truthy results of calling the given transformation with each element of this sequence

### Arguments

- **transform** – A closure that accepts an element of this array as its argument and returns an optional value.
- **thisArg** – Value to use as this (i.e the reference Object) when executing callback

**Returns** An array of the non-undefined results of calling transform with each element of the array

`ArraySlice.filter (callback, thisArg)`

### Arguments

- **callback** – Function to execute for each element. This may be a callback, an element name or an element class.
- **thisArg** – Value to use as this (i.e the reference Object) when executing callback

**Returns** `ArraySlice` –

`ArraySlice.find (callback, thisArg)`

Returns the first element in the array that satisfies the given value

### Arguments

- **callback** – Function to execute for each element. This may be a callback, an element name or an element class.
- **thisArg** – Value to use as this (i.e the reference Object) when executing callback

**Returns** `Element` –

`ArraySlice.first`

**type:** Element

Returns the first element in the slice or undefined if the slice is empty

`ArraySlice.flatMap (callback, thisArg)`

Maps and then flattens the results.

### Arguments

- **callback** – Function to execute for each element.
- **thisArg** – Value to use as this (i.e the reference Object) when executing callback

**Returns** `array` –

`ArraySlice.forEach (callback, thisArg)`

### Arguments

- **callback** – Function to execute for each element
- **thisArg** – Value to use as this (i.e the reference Object) when executing callback

`ArraySlice.get()`

**Returns** `Element` –

`ArraySlice.getValue()`

`ArraySlice.includes (value)`

**Arguments**

- **value** –

**Returns boolean** –

`ArraySlice.isEmpty`

**type:** boolean

Returns whether the slice is empty

`ArraySlice.length`

**type:** number

Returns the number of elements in the slice

`ArraySlice.map (callback, thisArg)`

**Arguments**

- **callback** – Function to execute for each element
- **thisArg** – Value to use as this (i.e the reference Object) when executing callback

**Returns array** – A new array with each element being the result of the callback function

`ArraySlice.push ()`

Adds the given element to the end of the slice

`ArraySlice.reduce (callback, initialValue)`

**Arguments**

- **callback** – Function to execute for each element
- **initialValue** –

`ArraySlice.reject (callback, thisArg)`

**Arguments**

- **callback** – Function to execute for each element. This may be a callback, an element name or an element class.
- **thisArg** – Value to use as this (i.e the reference Object) when executing callback

**Returns ArraySlice** –

`ArraySlice.shift ()`

Removes the first element from the slice

**Returns Element** – The removed element or undefined if the slice is empty

`ArraySlice.toValue ()`

**Returns Array** –

`ArraySlice.unshift ()`

Adds the given element to the begining of the slice

`class ObjectSlice ()`

`ObjectSlice.keys ()`

**Returns array** –

ObjectSlice.**values**()

**Returns array –**

# CHAPTER 4

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