

# Robot API

http://127.0.0.1:8000/api

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## /robot

### GET /robot

Retrieves the list of all existing robots

GET /robot

## Response 200

Returns the list of robots

### [Body](#)

## POST /robot

Creates a new robot.

```
POST /robot
```

### [Body](#)

## Response 201

Creates a new robot with the given properties

### [Body](#)

## Response 400

Invalid request

## GET /robot/{robotId}

Retrieves the properties of a robot

```
GET /robot/{robotId}
```

### URI Parameters

- **robotId**: *required (string)*  
The robot unique Id

## Response 200

Returns the description of the robot

### [Body](#)

## PUT /robot/{robotId}

Sets the properproperties of a robot

PUT /robot/{robotId}

### URI Parameters

- **robotId**: *required (string)*  
The robot unique Id

### Body

## Response 202

Returns the new description of the robot

### Body

## Response 400

Invalid request

## DELETE /robot/{robotId}

Deletes a robot

DELETE /robot/{robotId}

### URI Parameters

- **robotId**: *required (string)*  
The robot unique Id

## Response 204

## GET /robot/{robotId}/joint

Lists all joints of a robot

GET /robot/{robotId}/joint

### URI Parameters

- **robotId**: *required (string)*  
The robot unique Id

## Response 200

Returns the list of joints of the robot

## Body

## GET /robot/{robotId}/joint/{jointId}

Retrieves the properties of a joint

```
GET /robot/{robotId}/joint/{jointId}
```

### URI Parameters

- **robotId**: *required (string)*  
The robot unique Id
- **jointId**: *required (string)*

## Response 200

Returns the description of the joint

## Body

## PUT /robot/{robotId}/joint/{jointId}

Sets the properproperties of a joint

```
PUT /robot/{robotId}/joint/{jointId}
```

### URI Parameters

- **robotId**: *required (string)*  
The robot unique Id
- **jointId**: *required (string)*

## Body

## Response 202

Returns the new description of the joint

## Body

## Response 400

Invalid request

## GET /robot/{robotId}/link

Lists all links of a robot

GET /robot/{robotId}/link

### URI Parameters

- **robotId**: *required (string)*  
The robot unique Id

## Response 200

Returns the list of links of the robot

### [Body](#)

## POST /robot/{robotId}/link

Creates a new link in the robot

POST /robot/{robotId}/link

### URI Parameters

- **robotId**: *required (string)*  
The robot unique Id

### [Body](#)

## Response 201

Returns the description of the created link

### [Body](#)

## Response 400

Invalid request

## GET /robot/{robotId}/link/{linkId}

Retrieves the properties of a link

GET /robot/{robotId}/link/{linkId}

## URI Parameters

- **robotId**: *required (string)*  
The robot unique Id
- **linkId**: *required (string)*

## Response 200

Returns the description of the link

### Body

## PUT /robot/{robotId}/link/{linkId}

Sets the properperities of a link

```
PUT /robot/{robotId}/link/{linkId}
```

## URI Parameters

- **robotId**: *required (string)*  
The robot unique Id
- **linkId**: *required (string)*

### Body

## Response 202

Returns the new description of the robot

### Body

## Response 400

Invalid request

## DELETE /robot/{robotId}/link/{linkId}

Deletes a link

```
DELETE /robot/{robotId}/link/{linkId}
```

## URI Parameters

- **robotId**: *required (string)*

The robot unique Id

- **linkId**: *required (string)*

## Response 204

### GET /robot/{robotId}/link/{linkId}/geometry

Lists all geometries of a link

GET /robot/{robotId}/link/{linkId}/geometry

#### URI Parameters

- **robotId**: *required (string)*  
The robot unique Id
- **linkId**: *required (string)*

## Response 200

Returns the list of geometries of the link

#### Body

### POST /robot/{robotId}/link/{linkId}/geometry

Creates a new geometry in the link

POST /robot/{robotId}/link/{linkId}/geometry

#### URI Parameters

- **robotId**: *required (string)*  
The robot unique Id
- **linkId**: *required (string)*

#### Body

## Response 201

Returns the new description of the created geometry

#### Body

## Response 400

Invalid request

## GET /robot/{robotId}/link/{linkId}/geometry/{geometryId}

Retrieves the properties of a geometry

```
GET /robot/{robotId}/link/{linkId}/geometry/{geometryId}
```

### URI Parameters

- **robotId**: *required (string)*  
The robot unique Id
- **linkId**: *required (string)*
- **geometryId**: *required (string)*

## Response 200

Returns the description of the geometry

### [Body](#)

## PUT /robot/{robotId}/link/{linkId}/geometry/{geometryId}

Sets the properproperties of a geometry

```
PUT /robot/{robotId}/link/{linkId}/geometry/{geometryId}
```

### URI Parameters

- **robotId**: *required (string)*  
The robot unique Id
- **linkId**: *required (string)*
- **geometryId**: *required (string)*

### [Body](#)

## Response 202

Returns the new description of the geometry

### [Body](#)

## Response 400



Invalid request

## DELETE /robot/{robotId}/link/{linkId}/geometry/{geometryId}

Deletes a geometry

```
DELETE /robot/{robotId}/link/{linkId}/geometry/{geometryId}
```

### URI Parameters

- **robotId**: *required (string)*  
The robot unique Id
- **linkId**: *required (string)*
- **geometryId**: *required (string)*

Response 204