# Robot API

http://127.0.0.1:8000/api

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GET /robot
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## Response 200

Returns the list of robots

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Creates a new robot given its name

```
POST /robot
```

## Response 201

The robot was successfully created. Returns the description of the created robot

## Response 400

Invalid request. The JSON arguments was invalid. The robot wasn't created.

# GET /robot/{robotId}

Retrieves the list of all existing robots

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

**URI Parameters**

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

## Response 200

Returns the list of robots

# POST /robot/{robotId}

Creates a new robot given its name

```
POST /robot/{robotId}
```

**URI Parameters**

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

## Response 201

The robot was successfully created. Returns the description of the created robot

## Response 400

Invalid request. The JSON arguments was invalid. The robot wasn't created.

# GET /robot/{robotId}/joint

Lists all joints of a robot

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

**URI Parameters**

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

## Response 200

Returns the list of joints of the robot

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

Retrieves the properties of a joint

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

**URI Parameters**

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

## Response 200

Returns the description of the joint

**Body**

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

Sets the properperties of a joint

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

**URI Parameters**

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

## 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)*

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

## Response 200

Returns the description of the link

**Body**

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

Sets the properperties of a link

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

**URI Parameters**

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

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

## Response 200

Returns the description of the geometry

**Body**

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

Sets the properperties of a geometry

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

**URI Parameters**

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

## Response 204