# Global

### Methods

#### addData(obj, dataName, dataValue)

Adds data to an object

##### Parameters:

| **Name** | **Type** | **Description** |
| --- | --- | --- |
| obj | mobiusobject | Object to which data is to be added |
| dataName | String | Name of the property |
| dataValue |  |  |

Source:

* [moduleHelpDocs.js](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html), [line 1334](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html#line1334)

##### Returns:

null

#### addMaterial(obj, material\_type, wireframe, color, transparent)

Adds material to an object

##### Parameters:

| **Name** | **Type** | **Description** |
| --- | --- | --- |
| obj | mobiusobject | Object to which material is to be added |
| material\_type | String | "MeshBasicMaterial", "MeshNormalMaterial", "MeshLambertMaterial", "LineBasicMaterial" etc... |
| wireframe | boolean | 'True' if wireframe is required. |
| color | hexCode | Hex Code of the color |
| transparent | boolean | 'True' if transparency is required. |

Source:

* [moduleHelpDocs.js](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html), [line 1313](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html#line1313)

##### Returns:

null

#### addToList(list, object) → {null}

Adds an element to a list

##### Parameters:

| **Name** | **Type** | **Description** |
| --- | --- | --- |
| list | array | List to which an element needs to be pushed |
| object |  |  |

Source:

* [moduleHelpDocs.js](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html), [line 181](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html#line181)

##### Returns:

Type

null

#### appendToList(list, object)

Appends to the list

##### Parameters:

| **Name** | **Type** | **Description** |
| --- | --- | --- |
| list | array | List to which an element needs to be appeneded |
| object | array | Elements to be pushed into the list |

Source:

* [moduleHelpDocs.js](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html), [line 191](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html#line191)

##### Returns:

null

#### averageList(valueList)

Gets the avaerage of a numeric array

##### Parameters:

| **Name** | **Type** | **Description** |
| --- | --- | --- |
| valueList | array | List which is to be averaged |

Source:

* [moduleHelpDocs.js](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html), [line 265](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html#line265)

##### Returns:

#### convertDegreesToRadians(degree) → {float}

Converts degrees into radians

##### Parameters:

| **Name** | **Type** | **Description** |
| --- | --- | --- |
| degree | float | Degrees to be converted |

Source:

* [moduleHelpDocs.js](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html), [line 51](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html#line51)

##### Returns:

Type

float

#### convertRadiansToDegrees(radians) → {float}

Converts radians into degrees

##### Parameters:

| **Name** | **Type** | **Description** |
| --- | --- | --- |
| radians | float | Radians to be converted |

Source:

* [moduleHelpDocs.js](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html), [line 60](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html#line60)

##### Returns:

Type

float

#### distanceBetweenTwoPoints(point1) → {float}

Returns the distance between two points or vertices

##### Parameters:

| **Name** | **Type** | **Description** |
| --- | --- | --- |
| point1 |  |  |

Source:

* [moduleHelpDocs.js](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html), [line 318](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html#line318)

##### Returns:

Distance

Type

float

#### divideCurveByArcLength(curve, arcLength) → {array}

Returns an array of 't' values which divide the curve by length

##### Parameters:

| **Name** | **Type** | **Description** |
| --- | --- | --- |
| curve | mobiusobject | mobiusobject with NURBS Curve |
| arcLength | float | Length |

Source:

* [moduleHelpDocs.js](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html), [line 814](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html#line814)

##### Returns:

curve parameters [t1, t2, t3 ...]

Type

array

#### divideCurveByEqualArcLength(curve, divisons) → {array}

Returns an array of 't' values which divide the curve equally

##### Parameters:

| **Name** | **Type** | **Description** |
| --- | --- | --- |
| curve | mobiusobject | mobiusobject with NURBS Curve |
| divisons | int | Number of divisions in which the curve should be divided |

Source:

* [moduleHelpDocs.js](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html), [line 798](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html#line798)

##### Returns:

curve parameters [t1, t2, t3 ...]

Type

array

#### getAbsoluteValue(number) → {float}

Returns absolute (positive) value of a number

##### Parameters:

| **Name** | **Type** | **Description** |
| --- | --- | --- |
| number | float |  |

Source:

* [moduleHelpDocs.js](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html), [line 69](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html#line69)

##### Returns:

Positive value

Type

float

#### getAngleBetweenVectors(vector1, vector2) → {float}

Computes angle between two vectors

##### Parameters:

| **Name** | **Type** | **Description** |
| --- | --- | --- |
| vector1 | array | Vector 1 in [x, y, z] format |
| vector2 | array | Vector 2 in [x, y, z] format |

Source:

* [moduleHelpDocs.js](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html), [line 109](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html#line109)

##### Returns:

radians

Type

float

#### getCentre(mObj) → {array}

Returns the centre of a NURBS Curve, NURBS Surface or geometry for which centre is defined

##### Parameters:

| **Name** | **Type** | **Description** |
| --- | --- | --- |
| mObj | array | Mobius object |

Source:

* [moduleHelpDocs.js](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html), [line 299](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html#line299)

##### Returns:

Point - [x, y, z]

Type

array

#### getCornerPointsFromSurface(surface) → {array}

Gives the corner points of a surface

##### Parameters:

| **Name** | **Type** | **Description** |
| --- | --- | --- |
| surface | mobiusobject | mobiusobject with NURBS Surface |

Source:

* [moduleHelpDocs.js](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html), [line 941](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html#line941)

##### Returns:

Array of Points [ [corner1], [corner2], [corner3], [corner4] ], where corner is of form - [x, y, z]

Type

array

#### getCrossProduct(mat1, mat2) → {array}

Computes cross product of two matrices

##### Parameters:

| **Name** | **Type** | **Description** |
| --- | --- | --- |
| mat1 | array | Matrix 1 |
| mat2 | array | Matrix 2 |

Source:

* [moduleHelpDocs.js](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html), [line 99](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html#line99)

##### Returns:

Type

array

#### getDotProduct(mat1, mat2) → {float}

Computes dot product of two matrices

##### Parameters:

| **Name** | **Type** | **Description** |
| --- | --- | --- |
| mat1 | array | Matrix 1 |
| mat2 | array | Matrix 2 |

Source:

* [moduleHelpDocs.js](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html), [line 89](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html#line89)

##### Returns:

Type

float

#### getLength(mObj) → {float}

Returns the length of an object

##### Parameters:

| **Name** | **Type** | **Description** |
| --- | --- | --- |
| mObj | MobiusObject | - |

Source:

* [moduleHelpDocs.js](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html), [line 358](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html#line358)

##### Returns:

Length

Type

float

#### getLengthOfVector(vector) → {float}

Computes length of the vector

##### Parameters:

| **Name** | **Type** | **Description** |
| --- | --- | --- |
| vector | array | Vector in [x, y, z] format |

Source:

* [moduleHelpDocs.js](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html), [line 120](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html#line120)

##### Returns:

length

Type

float

#### getListLength(valueList) → {int}

Returns the length of the list

##### Parameters:

| **Name** | **Type** | **Description** |
| --- | --- | --- |
| valueList | array | List which is to be analyzed |

Source:

* [moduleHelpDocs.js](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html), [line 283](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html#line283)

##### Returns:

Type

int

#### getMaxValue(valueList)

Gets the maximum value in a numeric array

##### Parameters:

| **Name** | **Type** | **Description** |
| --- | --- | --- |
| valueList | array | List from which maximum value is required |

Source:

* [moduleHelpDocs.js](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html), [line 229](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html#line229)

##### Returns:

#### getMidPoint(point1) → {float}

Returns the mid-point between two points

##### Parameters:

| **Name** | **Type** | **Description** |
| --- | --- | --- |
| point1 |  |  |

Source:

* [moduleHelpDocs.js](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html), [line 341](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html#line341)

##### Returns:

Distance

Type

float

#### getMinValue(valueList)

Gets the minimum value in a numeric array

##### Parameters:

| **Name** | **Type** | **Description** |
| --- | --- | --- |
| valueList | array | List from which minimum value is required |

Source:

* [moduleHelpDocs.js](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html), [line 241](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html#line241)

##### Returns:

#### getNormalAtSurfaceParameter(surface, u, v) → {array}

Returns a tangent on the surface at the given parameter values

##### Parameters:

| **Name** | **Type** | **Description** |
| --- | --- | --- |
| surface | mobiusobject | mobiusobject with NURBS Surface |
| u | int | Parameter in u-direction |
| v | int | Parameter in v-direction |

Source:

* [moduleHelpDocs.js](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html), [line 847](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html#line847)

##### Returns:

tangent [x,y,z]

Type

array

#### getPointOnCurve(curve, t) → {array}

Returns a point on the curve at the given parameter value

##### Parameters:

| **Name** | **Type** | **Description** |
| --- | --- | --- |
| curve | mobiusobject | mobiusobject with NURBS Curve |
| t | int | Parameter in u-direction |

Source:

* [moduleHelpDocs.js](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html), [line 784](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html#line784)

##### Returns:

point [x,y,z]

Type

array

#### getPointOnSurface(surface, u, v) → {array}

Returns a point on the surface at the given parameter values

##### Parameters:

| **Name** | **Type** | **Description** |
| --- | --- | --- |
| surface | mobiusobject | mobiusobject with NURBS Surface |
| u | int | Parameter in u-direction |
| v | int | Parameter in v-direction |

Source:

* [moduleHelpDocs.js](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html), [line 770](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html#line770)

##### Returns:

point [x,y,z]

Type

array

#### getSignificantDigits(number, number) → {float}

Returns value of a number upto significant digits

##### Parameters:

| **Name** | **Type** | **Description** |
| --- | --- | --- |
| number | float | Number |
| number | int | Number of significant digits needed |

Source:

* [moduleHelpDocs.js](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html), [line 79](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html#line79)

##### Returns:

Type

float

#### getTangentAtCurveParameter(curve, t) → {array}

Returns a tangent on the curve at the given parameter value

##### Parameters:

| **Name** | **Type** | **Description** |
| --- | --- | --- |
| curve | mobiusobject | mobiusobject with NURBS Curve |
| t | int | Parameter in u-direction |

Source:

* [moduleHelpDocs.js](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html), [line 830](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html#line830)

##### Returns:

tangent [x,y,z]

Type

array

#### getUnitVector(vector) → {array}

Computes unit vector

##### Parameters:

| **Name** | **Type** | **Description** |
| --- | --- | --- |
| vector | array | Vector in [x, y, z] format |

Source:

* [moduleHelpDocs.js](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html), [line 129](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html#line129)

##### Returns:

Unit Vector

Type

array

#### indexOfObject(list, object) → {int}

Finds the index of the first occurence of an array element.

##### Parameters:

| **Name** | **Type** | **Description** |
| --- | --- | --- |
| list | array | List in which an element needs to be searched |
| object |  |  |

Source:

* [moduleHelpDocs.js](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html), [line 210](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html#line210)

##### Returns:

Returns -1 if the element doesn't exist in array.

Type

int

#### makeArc(centerPoint, xaxis, yaxis, radius, minAngle, maxAngle) → {mobiusobject}

Returns a mobiusobject containing a NURBS Curve

##### Parameters:

| **Name** | **Type** | **Description** |
| --- | --- | --- |
| centerPoint | array | Centre point of the Arc in [x,y,z] format or Vertex Object |
| xaxis | array | Direction of X-Axis of the Arc in [x,y,z] format |
| yaxis | array | Direction of Y-Axis of the Arc in [x,y,z] format |
| radius | array | Radius of the Arc |
| minAngle | float | Minimum Angle in Radians |
| maxAngle | float | Maximum Angle in Radians |

Source:

* [moduleHelpDocs.js](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html), [line 408](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html#line408)

##### Returns:

- NURBS Curve

Type

mobiusobject

#### makeBezierCurve(points, weights) → {mobiusobject}

Returns a mobiusobject containing a NURBS Curve

##### Parameters:

| **Name** | **Type** | | | | **Description** |
| --- | --- | --- | --- | --- | --- |
| points | array | | | | Array of Control Points for the Bezier Curve ( [[x1, y1, z1], [x2, y2, z2], [x3, y3, z3], [x4, y4, z4], ...] or Vertices ) |
| weights | array | | | | Weights |

Source:

* [moduleHelpDocs.js](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html), [line 424](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html#line424)

##### Returns:

- NURBS Curve

Type

mobiusobject

#### makeCircleBoundary(centerPoint, xaxis, yaxis, radius) → {mobiusobject}

Returns a mobiusobject containing a NURBS Curve

##### Parameters:

| **Name** | **Type** | **Description** |
| --- | --- | --- |
| centerPoint | array | Centre point of the Circle in [x,y,z] format or Vertex Object |
| xaxis | array | Direction of X-Axis of the Circle in [x,y,z] format |
| yaxis | array | Direction of Y-Axis of the Circle in [x,y,z] format |
| radius | array | Radius of the Arc |

Source:

* [moduleHelpDocs.js](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html), [line 444](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html#line444)

##### Returns:

- NURBS Curve

Type

mobiusobject

#### makeCone(axis, xaxis, base, height, radius) → {mobiusobject}

Returns a mobiusobject containing a NURBS Surface

##### Parameters:

| **Name** | **Type** | **Description** |
| --- | --- | --- |
| axis | array | Axis Direction of the cone in [x,y,z] format |
| xaxis | array | Direction of x-axis of cone in [x,y,z] format |
| base | float | Radius of cone base |
| height | float | Height of the cone |
| radius | float | Radius of cone |

Source:

* [moduleHelpDocs.js](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html), [line 688](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html#line688)

##### Returns:

- NURBS Surface

Type

mobiusobject

#### makeCopy(mObj) → {mobiusobject}

Creates a unique copy of the object with the same geometry, transformations, material and data at the same location

##### Parameters:

| **Name** | **Type** | **Description** |
| --- | --- | --- |
| mObj | mobiusobject | Object to be cloned |

Source:

* [moduleHelpDocs.js](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html), [line 983](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html#line983)

##### Returns:

Cloned object

Type

mobiusobject

#### makeCurveByKnotsControlPointsWeights(degree, knots, controlPoints, weights) → {mobiusobject}

Returns a mobiusobject containing a NURBS Curve

##### Parameters:

| **Name** | **Type** | **Description** |
| --- | --- | --- |
| degree | int | Degree of the Curve |
| knots | array | Knots |
| controlPoints | array | Array of points / vertices through which the curve passes ( [[x1, y1, z1], [x2, y2, z2], [x3, y3, z3], [x4, y4, z4], ...] ) |
| weights | array | Weights |

Source:

* [moduleHelpDocs.js](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html), [line 513](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html#line513)

##### Returns:

- NURBS Curve

Type

mobiusobject

#### makeCurveByPoints(points, degree) → {mobiusobject}

Returns a mobiusobject containing a NURBS Curve

##### Parameters:

| **Name** | **Type** | **Description** |
| --- | --- | --- |
| points | array | Array of points / vertices through which the curve passes ( [[x1, y1, z1], [x2, y2, z2], [x3, y3, z3], [x4, y4, z4], ...] ) |
| degree | int | Degree of the Curve |

Source:

* [moduleHelpDocs.js](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html), [line 493](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html#line493)

##### Returns:

- NURBS Curve

Type

mobiusobject

#### makeCylinder(axis, xaxis, base, height, radius) → {mobiusobject}

Returns a mobiusobject containing a NURBS Surface

##### Parameters:

| **Name** | **Type** | **Description** |
| --- | --- | --- |
| axis | array | Axis Direction of the cylinder in [x,y,z] format |
| xaxis | array | Direction of x-axis of cylinder in [x,y,z] format |
| base | float | Radius of cylinder base |
| height | float | Height of the cylinder |
| radius | float | Radius of cylinder |

Source:

* [moduleHelpDocs.js](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html), [line 701](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html#line701)

##### Returns:

- NURBS Surface

Type

mobiusobject

#### makeEllipse(centerPoint, xaxis, yaxis) → {mobiusobject}

Returns a mobiusobject containing a NURBS Curve

##### Parameters:

| **Name** | **Type** | **Description** |
| --- | --- | --- |
| centerPoint | array | Centre point of the Ellipse in [x,y,z] formats or Vertex Object |
| xaxis | array | Direction of X-Axis of the Ellipse in [x,y,z] format; Length of this vector determines length of x-Axis of ellipse; |
| yaxis | array | Direction of Y-Axis of the Ellipse in [x,y,z] format; Length of this vector determines length of y-Axis of ellipse; |

Source:

* [moduleHelpDocs.js](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html), [line 459](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html#line459)

##### Returns:

- NURBS Curve

Type

mobiusobject

#### makeEllipseArc(centerPoint, xaxis, yaxis, minAngle, maxAngle) → {mobiusobject}

Returns a mobiusobject containing a NURBS Curve

##### Parameters:

| **Name** | **Type** | **Description** |
| --- | --- | --- |
| centerPoint | array | Centre point of the EllipseArc in [x,y,z] formats or Vertex Object |
| xaxis | array | Direction of X-Axis of the EllipseArc in [x,y,z] format; Length of this vector determines length of x-Axis of ellipse; |
| yaxis | array | Direction of Y-Axis of the EllipseArc in [x,y,z] format; Length of this vector determines length of y-Axis of ellipse; |
| minAngle | float | Minimum Angle in Radians |
| maxAngle | float | Maximum Angle in Radians |

Source:

* [moduleHelpDocs.js](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html), [line 477](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html#line477)

##### Returns:

- NURBS Curve

Type

mobiusobject

#### makeLine(startPoint, endPoint) → {MobiusObject}

Returns a Mobius Curve object

##### Parameters:

| **Name** | **Type** | **Description** |
| --- | --- | --- |
| startPoint | array | Starting point of the line in [x,y,z] format or Vertex Object |
| endPoint | array | Ending point of the line in [x,y,z] format or Vertex Object |

Source:

* [moduleHelpDocs.js](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html), [line 384](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html#line384)

##### Returns:

- NURBS Curve

Type

MobiusObject

#### makeMeshBySubdivision(surface, ugrid, vgrid) → {array}

Subdivides a surface into smaller surfaces

##### Parameters:

| **Name** | **Type** | **Description** |
| --- | --- | --- |
| surface | mobiusobject | mobiusobject with NURBS Surface |
| ugrid | int | Divisions in u-direction |
| vgrid | int | Divisions in v-direction |

Source:

* [moduleHelpDocs.js](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html), [line 863](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html#line863)

##### Returns:

Array of mobiusobjects with NURBS Surfaces

Type

array

#### makePoint(x, y, z) → {array}

Makes a point from the coordinates

##### Parameters:

| **Name** | **Type** | **Description** |
| --- | --- | --- |
| x | float | X Coordinate of the point |
| y | float | Y Coordinate of the point |
| z | float | Z Coordinate of the point |

Source:

* [moduleHelpDocs.js](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html), [line 959](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html#line959)

##### Returns:

Point of form - [x, y, z]

Type

array

#### makeSequence(start, end, stepSize) → {array}

Returns a number sequence in the form of an array

##### Parameters:

| **Name** | **Type** | **Description** |
| --- | --- | --- |
| start |  |  |
| end |  |  |
| stepSize |  |  |

Source:

* [moduleHelpDocs.js](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html), [line 157](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html#line157)

##### Returns:

Type

array

#### makeSolidByExtrusion(surface, extrusion) → {mobiusobject}

Returns a mobiusobject containing a solid (array of surfaces)

##### Parameters:

| **Name** | **Type** | **Description** |
| --- | --- | --- |
| surface |  |  |
| extrusion | array | vector - Direction of extrusion in [x, y, z] format |

Source:

* [moduleHelpDocs.js](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html), [line 731](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html#line731)

##### Returns:

- Solid

Type

mobiusobject

#### makeSolidBySurfaces(array\_of\_surfaces) → {mobiusobject}

Returns a mobiusobject containing a solid (array of surfaces)

##### Parameters:

| **Name** | **Type** | **Description** |
| --- | --- | --- |
| array\_of\_surfaces | array | Mobius Solid Object |

Source:

* [moduleHelpDocs.js](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html), [line 754](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html#line754)

##### Returns:

- Solid

Type

mobiusobject

#### makeSphere(centrePoint, radius) → {mobiusobject}

Returns a mobiusobject containing a NURBS Surface

##### Parameters:

| **Name** | **Type** | **Description** |
| --- | --- | --- |
| centrePoint | array | CentrePoint in [x,y,z] format or Vertex Object |
| radius | float | Radius of the Sphere |

Source:

* [moduleHelpDocs.js](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html), [line 668](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html#line668)

##### Returns:

- NURBS Surface

Type

mobiusobject

#### makeSurfaceByCorners(point) → {mobiusobject}

Returns a mobiusobject containing a NURBS Surface

##### Parameters:

| **Name** | **Type** | **Description** |
| --- | --- | --- |
| point | array | Corner points in [x,y,z] format / Vertex Objects |

Source:

* [moduleHelpDocs.js](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html), [line 555](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html#line555)

##### Returns:

- NURBS Surface

Type

mobiusobject

#### makeSurfaceByExtrusion(mObjProfile, direction) → {mobiusobject}

Returns a mobiusobject containing a NURBS Surface

##### Parameters:

| **Name** | **Type** | **Description** |
| --- | --- | --- |
| mObjProfile | mobiusobject | Array of mobiusobject with NURBS Curve Geometry |
| direction | array | Direction of Sweep in [x,y,z] format |

Source:

* [moduleHelpDocs.js](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html), [line 628](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html#line628)

##### Returns:

- NURBS Surface

Type

mobiusobject

#### makeSurfaceByKnotsControlPointsWeights(degreeU, degreeV, knotsU, knotsV, controlPoints, weights) → {mobiusobject}

Returns a mobiusobject containing a NURBS Surface

##### Parameters:

| **Name** | **Type** | **Description** |
| --- | --- | --- |
| degreeU | int | DegreeU of the Surface |
| degreeV | int | DegreeV of the Surface |
| knotsU | array | Knots in U Direction |
| knotsV | array | Knots in V Direction |
| controlPoints | array | Array of points / vertices through which the curve passes ( [[x1, y1, z1], [x2, y2, z2], [x3, y3, z3], [x4, y4, z4], ...] ) |
| weights | array | Weights |

Source:

* [moduleHelpDocs.js](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html), [line 536](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html#line536)

##### Returns:

- NURBS Surface

Type

mobiusobject

#### makeSurfaceByLoft(listOfCurves, degree) → {mobiusobject}

Returns a mobiusobject containing a NURBS Surface

##### Parameters:

| **Name** | **Type** | **Description** |
| --- | --- | --- |
| listOfCurves | array | Array of mobiusobject with NURBS Curve Geometry |
| degree | int | Degree of the Surface |

Source:

* [moduleHelpDocs.js](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html), [line 611](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html#line611)

##### Returns:

- NURBS Surface

Type

mobiusobject

#### makeSurfaceByRevolution(mObj, centerPoint, axis, angle) → {mobiusobject}

Returns a mobiusobject containing a NURBS Surface

##### Parameters:

| **Name** | **Type** | **Description** |
| --- | --- | --- |
| mObj | mobiusobject | mobiusobject with NURBS Curve Geometry |
| centerPoint | array | CentrePoint in [x,y,z] format or Vertex Object |
| axis | array | Axis of revolution in [x,y,z] format |
| angle | float | Angle of revolution in radians |

Source:

* [moduleHelpDocs.js](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html), [line 579](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html#line579)

##### Returns:

- NURBS Surface

Type

mobiusobject

#### makeSurfaceBySweep(mObj, mObj) → {mobiusobject}

Returns a mobiusobject containing a NURBS Surface

##### Parameters:

| **Name** | **Type** | **Description** |
| --- | --- | --- |
| mObj | mobiusobject | mobiusobject with NURBS Curve Geometry |
| mObj | mobiusobject | mobiusobject with NURBS Curve Geometry |

Source:

* [moduleHelpDocs.js](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html), [line 597](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html#line597)

##### Returns:

- NURBS Surface

Type

mobiusobject

#### makeTubeByLine(line, radius) → {mobiusobject}

Creates a tube of a given radius, from a given line

##### Parameters:

| **Name** | **Type** | **Description** |
| --- | --- | --- |
| line | mobiusobject | mobiusobject with NURBS Line |
| radius | float | Radius of the tube |

Source:

* [moduleHelpDocs.js](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html), [line 898](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html#line898)

##### Returns:

mobiusobject with NURBS Surface

Type

mobiusobject

#### makeVertex(point) → {array}

Makes a vertex from a point

##### Parameters:

| **Name** | **Type** | **Description** |
| --- | --- | --- |
| point | array | Point in [x, y, z] format |

Source:

* [moduleHelpDocs.js](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html), [line 968](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html#line968)

##### Returns:

Mobius Vertex Object

Type

array

#### moveObjectToPoint(mObj, xCoord, yCoord, zCoord)

Moves the centre of the object to a target point

##### Parameters:

| **Name** | **Type** | **Description** |
| --- | --- | --- |
| mObj | mobiusobject | Object to be moved |
| xCoord | float | x-coordinate of the target point where the clone appears |
| yCoord | float | y-coordinate of the target point where the clone appears |
| zCoord | float | z-coordinate of the target point where the clone appears |

Source:

* [moduleHelpDocs.js](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html), [line 1072](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html#line1072)

##### Returns:

Null

#### multiplyArray(factor, vector) → {array}

Multiples a vector with a factor

##### Parameters:

| **Name** | **Type** | **Description** |
| --- | --- | --- |
| factor |  |  |
| vector | array | Vector in [x, y, z] format |

Source:

* [moduleHelpDocs.js](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html), [line 139](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html#line139)

##### Returns:

Type

array

#### print(content) → {null}

Prints to console

##### Parameters:

| **Name** | **Type** | **Description** |
| --- | --- | --- |
| content | string | Message to be printed on the console |

Source:

* [moduleHelpDocs.js](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html), [line 13](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html#line13)

##### Returns:

Type

null

#### rangeOfList(valueList)

Returns the span of the list - the difference between the maximum and the minimum value in the list

##### Parameters:

| **Name** | **Type** | **Description** |
| --- | --- | --- |
| valueList | array | List which is to be analyzed |

Source:

* [moduleHelpDocs.js](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html), [line 274](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html#line274)

##### Returns:

#### reflectObjectThroughPlane(mObj, planeABC, angle)

Reflects the object about a given plane

##### Parameters:

| **Name** | **Type** | **Description** |
| --- | --- | --- |
| mObj | mobiusobject | Object to be reflected |
| planeABC | array | Parameters A, B, C, D from the plane equation (Ax+By+Cz-D=0) as an array |
| angle | radians | Angle (in Radians) about y-axis |

Source:

* [moduleHelpDocs.js](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html), [line 1262](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html#line1262)

##### Returns:

Null

#### removeIndexFromList(list, index) → {null}

Removes an array element from a list by it's index number

##### Parameters:

| **Name** | **Type** | **Description** |
| --- | --- | --- |
| list | array | List in which an element needs to be removed |
| index | int | Index to be removed |

Source:

* [moduleHelpDocs.js](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html), [line 220](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html#line220)

##### Returns:

Type

null

#### rgbToHex(red, green, blue) → {string}

Converts RGB values into Hex color code

##### Parameters:

| **Name** | **Type** | **Description** |
| --- | --- | --- |
| red | int | Value between 0-255 for red color |
| green | int | Value between 0-255 for green color |
| blue | int | Value between 0-255 for blue color |

Source:

* [moduleHelpDocs.js](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html), [line 33](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html#line33)

##### Returns:

- HexValue

Type

string

#### rotateObject(mObj, xAxis, yAxis, zAxis)

Rotates the object about different axes

##### Parameters:

| **Name** | **Type** | **Description** |
| --- | --- | --- |
| mObj | mobiusobject | Object to be rotated |
| xAxis | float | Angle (in Radians) about x-axis |
| yAxis | float | Angle (in Radians) about y-axis |
| zAxis | float | Angle (in Radians) about z-axis |

Source:

* [moduleHelpDocs.js](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html), [line 1136](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html#line1136)

##### Returns:

Null

#### rotateObjectAboutAxis(mObj, axis, angle)

Rotates the object about a give axis

##### Parameters:

| **Name** | **Type** | **Description** |
| --- | --- | --- |
| mObj | mobiusobject | Object to be rotated |
| axis | array | Axis in [x, y, z] format |
| angle | radians | Angle (in Radians) about y-axis |

Source:

* [moduleHelpDocs.js](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html), [line 1191](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html#line1191)

##### Returns:

Null

#### scaleObject(mObj, scaleX, scaleY, scaleZ)

Scales the object along different axes

##### Parameters:

| **Name** | **Type** | **Description** |
| --- | --- | --- |
| mObj | mobiusobject | Object to be scaled |
| scaleX | float | Scaling-factor along the x-direction; Should be set to '1' if no scaling is required. |
| scaleY | float | Scaling-factor along the y-direction; Should be set to '1' if no scaling is required. |
| scaleZ | float | Scaling-factor along the z-direction; Should be set to '1' if no scaling is required. |

Source:

* [moduleHelpDocs.js](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html), [line 1103](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html#line1103)

##### Returns:

Null

#### shiftObject(mObj, shiftX, shiftY, shiftZ)

Shifts the object relative to its current position

##### Parameters:

| **Name** | **Type** | **Description** |
| --- | --- | --- |
| mObj | mobiusobject | Object to be moved |
| shiftX | float | Distance to be moved in x-direction |
| shiftY | float | Distance to be moved in y-direction |
| shiftZ | float | Distance to be moved in z-direction |

Source:

* [moduleHelpDocs.js](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html), [line 1030](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html#line1030)

##### Returns:

Null

#### sumList(valueList)

Gets the sum of a numeric array

##### Parameters:

| **Name** | **Type** | **Description** |
| --- | --- | --- |
| valueList | array | List which is to be summed |

Source:

* [moduleHelpDocs.js](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html), [line 253](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\moduleHelpDocs.js.html#line253)

##### Returns:

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* [makeCopy](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\global.html#makeCopy)
* [makeCurveByKnotsControlPointsWeights](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\global.html#makeCurveByKnotsControlPointsWeights)
* [makeCurveByPoints](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\global.html#makeCurveByPoints)
* [makeCylinder](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\global.html#makeCylinder)
* [makeEllipse](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\global.html#makeEllipse)
* [makeEllipseArc](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\global.html#makeEllipseArc)
* [makeLine](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\global.html#makeLine)
* [makeMeshBySubdivision](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\global.html#makeMeshBySubdivision)
* [makePoint](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\global.html#makePoint)
* [makeSequence](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\global.html#makeSequence)
* [makeSolidByExtrusion](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\global.html#makeSolidByExtrusion)
* [makeSolidBySurfaces](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\global.html#makeSolidBySurfaces)
* [makeSphere](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\global.html#makeSphere)
* [makeSurfaceByCorners](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\global.html#makeSurfaceByCorners)
* [makeSurfaceByExtrusion](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\global.html#makeSurfaceByExtrusion)
* [makeSurfaceByKnotsControlPointsWeights](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\global.html#makeSurfaceByKnotsControlPointsWeights)
* [makeSurfaceByLoft](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\global.html#makeSurfaceByLoft)
* [makeSurfaceByRevolution](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\global.html#makeSurfaceByRevolution)
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* [reflectObjectThroughPlane](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\global.html#reflectObjectThroughPlane)
* [removeIndexFromList](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\global.html#removeIndexFromList)
* [rgbToHex](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\global.html#rgbToHex)
* [rotateObject](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\global.html#rotateObject)
* [rotateObjectAboutAxis](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\global.html#rotateObjectAboutAxis)
* [scaleObject](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\global.html#scaleObject)
* [shiftObject](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\global.html#shiftObject)
* [sumList](file:///C:\Users\Akshata\Documents\GitHub\mobius\doc\node_modules\.bin\out\global.html#sumList)

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