```
Skip to content Curves(ID)
```

```
base classes — bpy_struct, ID
class bpy.types.Curves(ID)
    Hair data-block for hair curves
    animation data
        Animation data for this data-block
        TYPE:
             AnimData, (readonly)
    attributes
        Geometry attributes
        TYPE:
             AttributeGroupCurves bpy prop collection of Attribute, (readonly)
    color_attributes
        Geometry color attributes
        TYPE:
             AttributeGroupCurves bpy prop collection of Attribute, (readonly)
    curve_offset_data
        TYPE:
             bpy_prop_collection of IntAttributeValue, (readonly)
    curves
        All curves in the data-block
        TYPE:
            bpy_prop_collection of CurveSlice, (readonly)
    materials
        TYPE:
             IDMaterials bpy_prop_collection of Material, (readonly)
    normals
        The curve normal value at each of the curve's control points
        TYPE:
             \verb"bpy_prop_collection" of FloatVectorValueReadOnly", (readonly)
    points
        Control points of all curves
        TYPE:
             bpy prop collection of CurvePoint, (readonly)
    position_data
        TYPE:
            \verb"bpy_prop_collection" of \verb"FloatVectorAttributeValue", (readonly)
```

```
selection_domain
    TYPE:
         enum in Attribute Curves Domain Items, default 'POINT'
surface
    Mesh object that the curves can be attached to
    TYPE:
         Object
surface_collision_distance
    Distance to keep the curves away from the surface
    TYPE:
         float in [1.192e-07, inf], default 0.005
surface_uv_map
    The name of the attribute on the surface mesh used to define the attachment of each curve
    TYPE:
         string, default ", (never None)
use mirror x
    Enable symmetry in the X axis
    TYPE:
         boolean, default False
use mirror y
    Enable symmetry in the Y axis
    TYPE:
         boolean, default False
use_mirror_z
    Enable symmetry in the Z axis
    TYPE:
         boolean, default False
use sculpt collision
    Enable collision with the surface while sculpting
    TYPE:
         boolean, default False
add_curves(sizes)
    add curves
    PARAMETERS:
         sizes (int array of 1 items in [0, inf]) – Sizes, The number of points in each curve
remove curves(*, indices=(0,))
    Remove all curves. If indices are provided, remove only the curves with the given indices.
```

indices (int array of 1 items in [0, inf], (optional)) – Indices, The indices of the curves to remove

PARAMETERS:

resize curves(sizes, *, indices=(0,))

Resize all existing curves. If indices are provided, resize only the curves with the given indices. If the new size for a curve is smaller, the curve i trimmed. If the new size for a curve is larger, the new end values are default initialized.

PARAMETERS:

- sizes (int array of 1 items in [1, inf]) Sizes, The number of points in each curve
- indices (int array of 1 items in [0, inf], (optional)) Indices, The indices of the curves to resize

reorder_curves(new indices)

Reorder the curves by the new indices.

PARAMETERS:

new indices (int array of 1 items in [0, inf]) – New indices, The new index for each of the curves

set types(*, type='CATMULL ROM', indices=(0,))

Set the curve type. If indices are provided, set only the types with the given curve indices.

PARAMETERS:

- type (enum in Curves Type Items, (optional)) Type
- indices (int array of 1 items in [0, inf], (optional)) Indices, The indices of the curves to resize

unit test compare(*, curves=None, threshold=7.1526e-06)

unit test compare

PARAMETERS:

- curves (Curves, (optional)) Curves to compare to
- threshold (float in [0, inf], (optional)) Threshold, Comparison tolerance threshold

RETURNS:

Return value, String description of result of comparison

RETURN TYPE:

string, (never None)

classmethod bl rna get subclass(id, default=None)

PARAMETERS:

id(str) – The RNA type identifier.

RETURNS:

The RNA type or default when not found.

RETURN TYPE:

bpy.types.Struct subclass

classmethod bl rna get subclass py(id, default=None)

PARAMETERS:

id(str) – The RNA type identifier.

RETURNS:

The class or default when not found.

RETURN TYPE:

type

Inherited Properties

• bpy_struct.id_data
• TD.is missing

• ID.name

• ID.name full

• ID.id type

• ID.session uid

• ID.is_evaluated

• ID.original

• ID.users

• ID.use_fake_user

• ID.use extra user

• ID.is embedded data

• ID.is runtime data

• ID.is editable

• ID.tag

• ID.is library indirect

• ID.library

• ID.library weak reference

• ID.asset data

• ID.override library

• ID.preview

Inherited Functions

• bpy struct.as pointer

• bpy_struct.driver_add

• bpy struct.driver remove

• bpy struct.get

• bpy struct.id properties clear

• bpy struct.id properties ensure

• bpy struct.id properties ui

• bpy struct.is property hidden

• bpy struct.is property overridable library • ID.override create

• bpy_struct.is_property_readonly

• bpy struct.is property set

• bpy struct.items

• bpy struct.keyframe delete

• bpy struct.keyframe insert

• bpy_struct.keys

• bpy_struct.path_from_id

• bpy struct.path resolve

• bpy struct.pop

• bpy_struct.property_overridable_library_set • ID.bl_rna_get_subclass

• bpy struct.property unset

• bpy_struct.type_recast

• bpy_struct.values

• ID.rename

• ID.evaluated get

• ID.copy

• ID.asset mark

• ID.asset clear

• ID.asset generate preview

• ID.override_hierarchy_create

• ID.user clear

• ID.user remap

• ID.make local

• ID.user of id

• ID.animation_data_create

• ID.animation_data_clear

• ID.update tag

• ID.preview ensure

• ID.bl rna get subclass py

References

- BlendData.hair curves BlendDataHairCurves.remove
- BlendDataHairCurves.new Curves.unit test compare

Previous CurveSplines(bpy_struct) Report issue on this page

Copyright © Blender Authors Made with Furo

CurvesModifier(StripModifier)