CurveProfile(bpy_struct)

base class — `bpy_struct`

class bpy.types.**CurveProfile(bpy_struct)**

Profile Path editor used to build a profile path

> **points**
>
> > Profile control points
> >
> > **TYPE:**
> >
> > > `CurveProfilePoints` `bpy_prop_collection` of `CurveProfilePoint`, (readonly)
>
> **preset**
>
> > - `LINE` Line – Default.
> > - `SUPPORTS` Support Loops – Loops on each side of the profile.
> > - `CORNICE` Cornice Molding.
> > - `CROWN` Crown Molding.
> > - `STEPS` Steps – A number of steps defined by the segments.
> >
> > **TYPE:**
> >
> > > enum in ['LINE', 'SUPPORTS', 'CORNICE', 'CROWN', 'STEPS'], default 'LINE'
>
> **segments**
>
> > Segments sampled from control points
> >
> > **TYPE:**
> >
> > > `bpy_prop_collection` of `CurveProfilePoint`, (readonly)
>
> **use_clip**
>
> > Force the path view to fit a defined boundary
> >
> > **TYPE:**
> >
> > > boolean, default False
>
> **use_sample_even_lengths**
>
> > Sample edges with even lengths
> >
> > **TYPE:**
> >
> > > boolean, default False
>
> **use_sample_straight_edges**
>
> > Sample edges with vector handles
> >
> > **TYPE:**
> >
> > > boolean, default False
>
> **update()**
>
> > Refresh internal data, remove doubles and clip points
>
> **reset_view()**
>
> > Reset the curve profile grid to its clipping size
>
> **initialize(totsegments)**
>
> > Set the number of display segments and fill tables

PARAMETERS:

totsegments (*int in [1, 1000], (never None)*) – The number of segment values to initialize the segments table with

evaluate(length_portion)

Evaluate the at the given portion of the path length

PARAMETERS:

length_portion (*float in [0, 1]*) – Length Portion, Portion of the path length to travel before evaluation

RETURNS:

Location, The location at the given portion of the profile

RETURN TYPE:

`mathutils.Vector` of 2 items in [-100, 100]

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`

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`
- `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`
- `bpy_struct.property_unset`
- `bpy_struct.type_recast`
- `bpy_struct.values`

References

- `BevelModifier.custom_profile`
- `ToolSettings.custom_bevel_profile_preset`
- `Curve.bevel_profile`

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