EditBone(bpy_struct)

```
base class — bpy_struct
```

class bpy.types.EditBone(bpy_struct)

Edit mode bone in an armature data-block

bbone curveinx

X-axis handle offset for start of the B-Bone's curve, adjusts curvature

TYPE:

```
float in [-inf, inf], default 0.0
```

bbone_curveinz

Z-axis handle offset for start of the B-Bone's curve, adjusts curvature

TYPE:

```
float in [-inf, inf], default 0.0
```

bbone_curveoutx

X-axis handle offset for end of the B-Bone's curve, adjusts curvature

TYPE:

```
float in [-inf, inf], default 0.0
```

bbone_curveoutz

Z-axis handle offset for end of the B-Bone's curve, adjusts curvature

TYPE:

```
float in [-inf, inf], default 0.0
```

bbone custom handle end

Bone that serves as the end handle for the B-Bone curve

TYPE:

EditBone

bbone_custom_handle_start

Bone that serves as the start handle for the B-Bone curve

TYPE:

EditBone

bbone easein

Length of first Bézier Handle (for B-Bones only)

TYPE:

```
float in [-inf, inf], default 1.0
```

bbone_easeout

Length of second Bézier Handle (for B-Bones only)

TYPE:

```
float in [-inf, inf], default 1.0
```

bbone_handle_type_end

Selects how the end handle of the B-Bone is computed

- AUTO Automatic Use connected parent and children to compute the handle.
- ABSOLUTE Absolute Use the position of the specified bone to compute the handle.
- RELATIVE Relative Use the offset of the specified bone from rest pose to compute the handle.
- TANGENT Tangent Use the orientation of the specified bone to compute the handle, ignoring the location.

TYPE:

enum in ['AUTO', 'ABSOLUTE', 'RELATIVE', 'TANGENT'], default 'AUTO'

bbone_handle_type_start

Selects how the start handle of the B-Bone is computed

- AUTO Automatic Use connected parent and children to compute the handle.
- ABSOLUTE Absolute Use the position of the specified bone to compute the handle.
- RELATIVE Relative Use the offset of the specified bone from rest pose to compute the handle.
- TANGENT Tangent Use the orientation of the specified bone to compute the handle, ignoring the location.

TYPE:

enum in ['AUTO', 'ABSOLUTE', 'RELATIVE', 'TANGENT'], default 'AUTO'

bbone_handle_use_ease_end

Multiply the B-Bone Ease Out channel by the local Y scale value of the end handle. This is done after the Scale Easing option and isn't affecte by it.

TYPE:

boolean, default False

bbone handle use ease start

Multiply the B-Bone Ease In channel by the local Y scale value of the start handle. This is done after the Scale Easing option and isn't affected by it.

TYPE:

boolean, default False

bbone handle use scale end

Multiply B-Bone Scale Out channels by the local scale values of the end handle. This is done after the Scale Easing option and isn't affected b it.

TYPE:

boolean array of 3 items, default (False, False, False)

bbone_handle_use_scale_start

Multiply B-Bone Scale In channels by the local scale values of the start handle. This is done after the Scale Easing option and isn't affected by

TYPE:

boolean array of 3 items, default (False, False, False)

bbone mapping mode

Selects how the vertices are mapped to B-Bone segments based on their position

- STRAIGHT Straight Fast mapping that is good for most situations, but ignores the rest pose curvature of the B-Bone.
- CURVED Curved Slower mapping that gives better deformation for B-Bones that are sharply curved in rest pose.

TYPE:

enum in ['STRAIGHT', 'CURVED'], default 'STRAIGHT'

bbone rollin

```
Roll offset for the start of the B-Bone, adjusts twist
    TYPE:
         float in [-inf, inf], default 0.0
bbone rollout
    Roll offset for the end of the B-Bone, adjusts twist
    TYPE:
         float in [-inf, inf], default 0.0
bbone scalein
    Scale factors for the start of the B-Bone, adjusts thickness (for tapering effects)
    TYPE:
          mathutils. Vector of 3 items in [-inf, inf], default (1.0, 1.0, 1.0)
bbone_scaleout
    Scale factors for the end of the B-Bone, adjusts thickness (for tapering effects)
    TYPE:
          mathutils. Vector of 3 items in [-inf, inf], default (1.0, 1.0, 1.0)
bbone_segments
    Number of subdivisions of bone (for B-Bones only)
    TYPE:
         int in [1, 32], default 0
bbone_x
    B-Bone X size
    TYPE:
         float in [-inf, inf], default 0.0
bbone z
    B-Bone Z size
    TYPE:
         float in [-inf, inf], default 0.0
collections
    Bone Collections that contain this bone
    TYPE:
          bpy_prop_collection of BoneCollection, (readonly)
color
    TYPE:
          BoneColor, (readonly)
envelope distance
    Bone deformation distance (for Envelope deform only)
    TYPE:
         float in [0, 1000], default 0.0
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envelope_weight
```

Bone deformation weight (for Envelope deform only)

TYPE:

float in [0, 1000], default 0.0

head

Location of head end of the bone

TYPE:

```
mathutils. Vector of 3 items in [-inf, inf], default (0.0, 0.0, 0.0)
```

head_radius

Radius of head of bone (for Envelope deform only)

TYPE:

float in [-inf, inf], default 0.0

hide

Bone is not visible when in Edit Mode

TYPE:

boolean, default False

hide_select

Bone is able to be selected

TYPE:

boolean, default False

inherit scale

Specifies how the bone inherits scaling from the parent bone

- FULL Full Inherit all effects of parent scaling.
- FIX SHEAR Fix Shear Inherit scaling, but remove shearing of the child in the rest orientation.
- ALIGNED Aligned Rotate non-uniform parent scaling to align with the child, applying parent X scale to child X axis, and so forth.
- AVERAGE Average Inherit uniform scaling representing the overall change in the volume of the parent.
- NONE None Completely ignore parent scaling.
- NONE_LEGACY None (Legacy) Ignore parent scaling without compensating for parent shear. Replicates the effect of disabling the original Inherit Scale checkbox.

TYPE:

```
enum in ['FULL', 'FIX_SHEAR', 'ALIGNED', 'AVERAGE', 'NONE', 'NONE_LEGACY'], default 'FULL'
```

length

Length of the bone. Changing moves the tail end.

TYPE:

float in [0, inf], default 0.0

lock

Bone is not able to be transformed when in Edit Mode

TYPE:

boolean, default False

matrix

Matrix combining location and notation of the hone (head nocition direction and rall) in armsture chace (does not include/cumnart hone's

```
THINKIN CONTRIBUTE BOOKEN AIR TOWNS OF THE CORE (TRAIT POSITOR, BECAUTE AIR TOH), BE ATTRIBUTE SPACE (GOOS TRE BERKE, SUPPORT OFFIS S
            length/size)
            TYPE:
                             \texttt{mathutils.Matrix} \ \ of 4*4 \ \textbf{items} \ \text{in} \ [-\text{inf, inf]}, \ default \ ((0.0, 0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0), \ (0.0, 0.0, 0.0
                           (0.0)
name
            TYPE:
                           string, default ", (never None)
parent
            Parent edit bone (in same Armature)
            TYPE:
                            EditBone
roll
             Bone rotation around head-tail axis
            TYPE:
                           float in [-inf, inf], default 0.0
select
            TYPE:
                           boolean, default False
select_head
            TYPE:
                           boolean, default False
select_tail
            TYPE:
                           boolean, default False
show_wire
            Bone is always displayed in wireframe regardless of viewport shading mode (useful for non-obstructive custom bone shapes)
            TYPE:
                           boolean, default False
tail
            Location of tail end of the bone
            TYPE:
                            mathutils. Vector of 3 items in [-inf, inf], default (0.0, 0.0, 0.0)
tail_radius
            Radius of tail of bone (for Envelope deform only)
            TYPE:
                           float in [-inf, inf], default 0.0
use_connect
            When bone has a parent, bone's head is stuck to the parent's tail
```

TYPE:

use_cyclic_offset

When bone doesn't have a parent, it receives cyclic offset effects (Deprecated)

TYPE:

boolean, default False

use_deform

Enable Bone to deform geometry

TYPE:

boolean, default False

use_endroll_as_inroll

Add Roll Out of the Start Handle bone to the Roll In value

TYPE:

boolean, default False

use_envelope_multiply

When deforming bone, multiply effects of Vertex Group weights with Envelope influence

TYPE:

boolean, default False

use_inherit_rotation

Bone inherits rotation or scale from parent bone

TYPE:

boolean, default False

$use_local_location$

Bone location is set in local space

TYPE:

boolean, default False

use_relative_parent

Object children will use relative transform, like deform

TYPE:

boolean, default False

use_scale_easing

Multiply the final easing values by the Scale In/Out Y factors

TYPE:

boolean, default False

basename

The name of this bone before any '.' character

(readonly)

center

The midpoint between the head and the tail.

(readonly)

children

A list of all the bones children.

```
Note
Takes O(len(bones)) time.
```

(readonly)

children recursive

A list of all children from this bone.

```
Note
Takes O(len(bones)**2) time.
```

(readonly)

children_recursive_basename

Returns a chain of children with the same base name as this bone. Only direct chains are supported, forks caused by multiple children with matching base names will terminate the function and not be returned.

```
Note
Takes O(len(bones)**2) time.
```

parent_recursive

(readonly)

A list of parents, starting with the immediate parent

(readonly)

vector

The direction this bone is pointing. Utility function for (tail - head)

(readonly)

x_axis

Vector pointing down the x-axis of the bone.

(readonly)

y_axis

Vector pointing down the y-axis of the bone.

(readonly)

z_axis

Vector pointing down the z-axis of the bone.

(readonly)

align roll(vector)

Align the bone to a local-space roll so the Z axis points in the direction of the vector given

PARAMETERS:

```
vector (mathutils. Vector of 3 items in [-inf, inf]) - Vector
```

align orientation(other)

Align this bone to another by moving its tail and settings its roll the length of the other bone is not used.

parent_index(parent_test)

The same as 'bone in other_bone.parent_recursive' but saved generating a list.

transform(matrix, *, scale=True, roll=True)

Transform the bones head, tail, roll and envelope (when the matrix has a scale component).

PARAMETERS:

- matrix (mathutils.Matrix) 3x3 or 4x4 transformation matrix.
- scale (bool) Scale the bone envelope by the matrix.
- roll (bool) Correct the roll to point in the same relative direction to the head and tail.

translate(vec)

Utility function to add vec to the head and tail of this bone

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.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.is property hidden
- bpy_struct.is_property_overridable_library bpy_struct.property_unset
- bpy struct.is property readonly
- bpy struct.is property set

- bpy struct.property overridable library set
- bpy struct.type recast
- bpy struct.values

References

- bpy.context.active_bone
- bpy.context.edit bone
- bpy.context.editable_bones
- bpy.context.selected_bones
- bpy.context.selected_editable_bones
- bpy.context.visible bones
- Armature.edit_bones

- ArmatureEditBones.active
- ArmatureEditBones.new
- ArmatureEditBones.remove
- EditBone.bbone_custom_handle_end
- EditBone.bbone custom handle start
- EditBone.parent

Previous EdgeSplitModifier(Modifier)

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