Skip to content WaveModifier (Modifier)

```
base classes — bpy_struct, Modifier
class bpy.types.WaveModifier(Modifier)
     Wave effect modifier
     damping time
          Number of frames in which the wave damps out after it dies
          TYPE:
               float in [-1.04857e+06, 1.04857e+06], default 10.0
     falloff_radius
          Distance after which it fades out
          TYPE:
               float in [0, inf], default 0.0
     height
          Height of the wave
          TYPE:
               float in [-inf, inf], default 0.5
     invert_vertex_group
          Invert vertex group influence
          TYPE:
               boolean, default False
     lifetime
          Lifetime of the wave in frames, zero means infinite
          TYPE:
               float in [-1.04857e+06, 1.04857e+06], default 0.0
          Distance between the top and the base of a wave, the higher the value, the more narrow the wave
          TYPE:
               float in [0, inf], default 1.5
     speed
          Speed of the wave, towards the starting point when negative
          TYPE:
               float in [-inf, inf], default 0.25
     start_position_object
          Object which defines the wave center
          TYPE:
```

Object

start_position_x

```
X coordinate of the start position
    TYPE:
         float in [-inf, inf], default 0.0
start_position_y
    Y coordinate of the start position
    TYPE:
         float in [-inf, inf], default 0.0
texture
    TYPE:
          Texture
texture coords
    \bullet \,\, LOCAL \, Local - Use the local coordinate system for the texture coordinates.
    • GLOBAL Global – Use the global coordinate system for the texture coordinates.
    • OBJECT Object – Use the linked object's local coordinate system for the texture coordinates.
    • UV UV – Use UV coordinates for the texture coordinates.
    TYPE:
         enum in ['LOCAL', 'GLOBAL', 'OBJECT', 'UV'], default 'LOCAL'
texture_coords_bone
    Bone to set the texture coordinates
    TYPE:
         string, default ", (never None)
texture_coords_object
    Object to set the texture coordinates
    TYPE:
         Object
time_offset
    Either the starting frame (for positive speed) or ending frame (for negative speed)
    TYPE:
         float in [-1.04857e+06, 1.04857e+06], default 0.0
use_cyclic
    Cyclic wave effect
    TYPE:
         boolean, default True
```

use_normal

Displace along normals

TYPE:

boolean, default False

use_normal_x

Enable displacement along the X normal

```
boolean, default True
use_normal_y
    Enable displacement along the Y normal
    TYPE:
        boolean, default True
use\_normal\_z
    Enable displacement along the Z normal
    TYPE:
         boolean, default True
use_x
    X axis motion
    TYPE:
         boolean, default True
use y
    Y axis motion
    TYPE:
        boolean, default True
uv_layer
    UV map name
    TYPE:
         string, default ", (never None)
vertex_group
    Vertex group name for modulating the wave
    TYPE:
         string, default "", (never None)
width
    Distance between the waves
    TYPE:
         float in [0, inf], default 1.5
class\,method\,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.
```

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RETURNS:

The class or default when not found.

RETURN TYPE:

type

Inherited Properties

- bpy_struct.id_data
- Modifier.show_expanded
- Modifier.name
- Modifier.is active
- Modifier.type
- Modifier.use_pin_to_last
- Modifier.show viewport Modifier.is override data
- Modifier.show render
- Modifier.use_apply_on_spline
- Modifier.show in editmode Modifier.execution time
- Modifier.show on cage
- Modifier.persistent uid

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.type_recast
- 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.values
- Modifier.bl_rna_get_subclass
- Modifier.bl rna get subclass py

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WeightedNormalModifier(Modifier