Skip to content MetaBall(ID)

```
base classes — bpy_struct, ID
class bpy.types.MetaBall(ID)
    Metaball data-block to define blobby surfaces
     animation data
         Animation data for this data-block
         TYPE:
              AnimData, (readonly)
     cycles
         Cycles mesh settings
         TYPE:
              CyclesMeshSettings, (readonly)
     elements
         Metaball elements
         TYPE:
              MetaBallElements bpy_prop_collection of MetaElement, (readonly)
     is_editmode
         True when used in editmode
         TYPE:
             boolean, default False, (readonly)
     materials
         TYPE:
              IDMaterials bpy prop collection of Material, (readonly)
     render_resolution
         Polygonization resolution in rendering
         TYPE:
             float in [0.005, 10000], default 0.2
     resolution
         Polygonization resolution in the 3D viewport
         TYPE:
             float in [0.005, 10000], default 0.4
     texspace_location
         Texture space location
         TYPE:
              mathutils. Vector of 3 items in [-inf, inf], default (0.0, 0.0, 0.0)
     texspace_size
         Texture space size
```

```
TYPE:
```

```
mathutils. Vector of 3 items in [-inf, inf], default (1.0, 1.0, 1.0)
```

threshold

Influence of metaball elements

TYPE:

float in [0, 5], default 0.6

update_method

Metaball edit update behavior

- UPDATE ALWAYS Always While editing, update metaball always.
- HALFRES Half-While editing, update metaball in half resolution.
- FAST Fast While editing, update metaball without polygonization.
- NEVER Never While editing, don't update metaball at all.

TYPE:

```
enum in ['UPDATE_ALWAYS', 'HALFRES', 'FAST', 'NEVER'], default 'UPDATE_ALWAYS'
```

use_auto_texspace

Adjust active object's texture space automatically when transforming object

TYPE:

boolean, default True

transform(matrix)

Transform metaball elements by a matrix

PARAMETERS:

```
matrix (mathutils.Matrix of 4 * 4 items in [-inf, inf]) - Matrix
```

update_gpu_tag()

update_gpu_tag

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
- 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.is missing

- 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

- bpy.context.meta ball BlendDataMetaBalls.new
- BlendData.metaballs BlendDataMetaBalls.remove