Skip to content BlendData(bpy_struct)

fonts

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base class — bpy_struct
class bpy.types.BlendData(bpy_struct)
    Main data structure representing a .blend file and all its data-blocks
    actions
        Action data-blocks
        TYPE:
            BlendDataActions bpy_prop_collection of Action, (readonly)
    armatures
        Armature data-blocks
        TYPE:
            BlendDataArmatures bpy prop collection of Armature, (readonly)
    brushes
        Brush data-blocks
        TYPE:
            BlendDataBrushes bpy prop collection of Brush, (readonly)
    cache_files
        Cache Files data-blocks
        TYPE:
            BlendDataCacheFiles bpy_prop_collection of CacheFile, (readonly)
    cameras
        Camera data-blocks
        TYPE:
            BlendDataCameras bpy prop collection of Camera, (readonly)
    collections
        Collection data-blocks
        TYPE:
            BlendDataCollections bpy_prop_collection of Collection, (readonly)
    curves
        Curve data-blocks
        TYPE:
            BlendDataCurves bpy_prop_collection of Curve, (readonly)
    filepath
        Path to the .blend file
        TYPE:
            string, default ", (readonly, never None)
```

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Vector font data-blocks
   TYPE:
        BlendDataFonts bpy prop collection of VectorFont, (readonly)
grease_pencils
   Annotation data-blocks (legacy Grease Pencil)
   TYPE:
        BlendDataGreasePencils bpy_prop_collection of GreasePencil, (readonly)
grease_pencils_v3
   Grease Pencil data-blocks
   TYPE:
        BlendDataGreasePencilsV3 bpy_prop_collection of GreasePencilv3, (readonly)
hair curves
   Hair curve data-blocks
   TYPE:
        BlendDataHairCurves bpy_prop_collection of Curves, (readonly)
images
   Image data-blocks
   TYPE:
        BlendDataImages bpy_prop_collection of Image, (readonly)
is dirty
   Have recent edits been saved to disk
   TYPE:
       boolean, default False, (readonly)
is_saved
   Has the current session been saved to disk as a .blend file
   TYPE:
       boolean, default False, (readonly)
lattices
   Lattice data-blocks
   TYPE:
        BlendDataLattices bpy_prop_collection of Lattice, (readonly)
libraries
   Library data-blocks
   TYPE:
        BlendDataLibraries bpy_prop_collection of Library, (readonly)
lightprobes
   Light Probe data-blocks
   TYPE:
        BlendDataProbes bpy prop collection of LightProbe, (readonly)
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lights
   Light data-blocks
   TYPE:
       BlendDataLights bpy_prop_collection of Light, (readonly)
linestyles
   Line Style data-blocks
   TYPE:
       BlendDataLineStyles bpy prop collection of FreestyleLineStyle, (readonly)
masks
   Masks data-blocks
   TYPE:
       BlendDataMasks bpy_prop_collection of Mask, (readonly)
materials
   Material data-blocks
   TYPE:
       BlendDataMaterials bpy prop collection of Material, (readonly)
meshes
   Mesh data-blocks
   TYPE:
       BlendDataMeshes bpy prop collection of Mesh, (readonly)
metaballs
   Metaball data-blocks
   TYPE:
       BlendDataMetaBalls bpy prop collection of MetaBall, (readonly)
movieclips
   Movie Clip data-blocks
   TYPE:
       BlendDataMovieClips bpy prop collection of MovieClip, (readonly)
node_groups
   Node group data-blocks
   TYPE:
       BlendDataNodeTrees bpy_prop_collection of NodeTree, (readonly)
objects
   Object data-blocks
   TYPE:
       BlendDataObjects bpy_prop_collection of Object, (readonly)
paint curves
   Paint Curves data-blocks
   TVDF
```

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       BlendDataPaintCurves bpy_prop_collection of PaintCurve, (readonly)
palettes
   Palette data-blocks
   TYPE:
       BlendDataPalettes bpy_prop_collection of Palette, (readonly)
particles
   Particle data-blocks
   TYPE:
       BlendDataParticles bpy prop collection of ParticleSettings, (readonly)
pointclouds
   Point cloud data-blocks
   TYPE:
       BlendDataPointClouds bpy_prop_collection of PointCloud, (readonly)
scenes
   Scene data-blocks
   TYPE:
       BlendDataScenes bpy_prop_collection of Scene, (readonly)
screens
   Screen data-blocks
   TYPE:
       BlendDataScreens bpy prop collection of Screen, (readonly)
shape_keys
   Shape Key data-blocks
   TYPE:
       bpy_prop_collection of Key, (readonly)
sounds
   Sound data-blocks
   TYPE:
       BlendDataSounds bpy prop collection of Sound, (readonly)
speakers
   Speaker data-blocks
   TYPE:
       BlendDataSpeakers bpy_prop_collection of Speaker, (readonly)
texts
   Text data-blocks
   TYPE:
       BlendDataTexts bpy_prop_collection of Text, (readonly)
textures
         . . . .
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Texture data-blocks
   TYPE:
        BlendDataTextures bpy prop collection of Texture, (readonly)
use autopack
   Automatically pack all external data into .blend file
   TYPE:
        boolean, default False
version
   File format version the .blend file was saved with
   TYPE:
        int array of 3 items in [0, inf], default (0, 0, 0), (readonly)
volumes
    Volume data-blocks
   TYPE:
        BlendDataVolumes bpy prop collection of Volume, (readonly)
window_managers
   Window manager data-blocks
   TYPE:
        {\tt BlendDataWindowManagers\ bpy\_prop\_collection\ of\ WindowManager, (readonly)}
workspaces
   Workspace data-blocks
   TYPE:
        BlendDataWorkSpaces bpy_prop_collection of WorkSpace, (readonly)
worlds
    World data-blocks
   TYPE:
        BlendDataWorlds bpy prop collection of World, (readonly)
batch_remove(ids)
   Remove (delete) several IDs at once.
   Note that this function is quicker than individual calls to remove () (from bpy.types.BlendData ID collections), but less
   safe/versatile (it can break Blender, e.g. by removing all scenes...).
    PARAMETERS:
```

 $\textbf{ids} \; (Sequence[\, \texttt{bpy.types.ID}\,]) - Sequence \; of \; IDs \; (types \; can \; be \; mixed).$

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

file_path_map(subset=None, key_types=None, include_libraries=False)

Returns a mapping of all ID data-blocks in current bpy.data to a set of all file paths used by them

For list of valid set members for key_types, see: bpy.types.KeyingSetPath.id type.

PARAMETERS:

- subset (sequence) When given, only these data-blocks and their used file paths will be included as keys/values in the map.
- key types (set of strings) When given, filter the keys mapped by ID types. Ignored if subset is also given.
- include_libraries (bool) Include library file paths of linked data. False by default.

RETURNS:

dictionary of bpy.types.ID instances, with sets of file path strings as their values.

RETURN TYPE:

dict

orphans_purge()

Remove (delete) all IDs with no user.

PARAMETERS:

- do local ids (bool, optional) Include unused local IDs in the deletion, defaults to True
- do linked ids (bool, optional) Include unused linked IDs in the deletion, defaults to True
- do_recursive (bool, optional) Recursively check for unused IDs, ensuring no orphaned one remain after a single run of that function, defaults to False

RETURNS:

The number of deleted IDs.

temp data(filepath=None)

A context manager that temporarily creates blender file data.

PARAMETERS:

filepath (str | bytes | None) - The file path for the newly temporary data. When None, the path of the currently open file is used.

RETURNS:

Blend file data which is freed once the context exists.

RETURN TYPE:

```
bpy.types.BlendData
```

user map(subset, key types, value types)

Returns a mapping of all ID data-blocks in current bpy.data to a set of all data-blocks using them

For list of valid set members for key_types & value_types, see: bpy.types.KeyingSetPath.id_type.

PARAMETERS:

- **subset** (Sequence[bpy.types.ID]) When passed, only these data-blocks and their users will be included as keys/values in the map.
- **key_types** (*set[str]*) Filter the keys mapped by ID types.

• value_types (set[str]) – Filter the values in the set by ID types.

RETURNS:

dictionary that maps data-blocks ID's to their users.

RETURN TYPE:

```
dict[bpy.types.ID, set[bpy.types.ID]]
```

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.property_unset
- 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.type recast
- bpy struct.values

References

• Context.blend data • RenderEngine.update

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BlendDataActions(bpy stru