FCurveKeyframePoints(bpy_struct)

base class — `bpy_struct`

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

Collection of keyframe points

insert(frame, value, *, options={}, keyframe_type='KEYFRAME')

Add a keyframe point to a F-Curve

PARAMETERS:

- **frame** (*float in [-inf, inf]*) – X Value of this keyframe point
- **value** (*float in [-inf, inf]*) – Y Value of this keyframe point
- **options** (*enum set in {'REPLACE', 'NEEDED', 'FAST'}, (optional)*) –

  Keyframe options

  - `REPLACE` Replace – Don't add any new keyframes, but just replace existing ones.
  - `NEEDED` Needed – Only adds keyframes that are needed.
  - `FAST` Fast – Fast keyframe insertion to avoid recalculating the curve each time.

- **keyframe_type** (enum in Beztriple Keyframe Type Items, (optional)) – Type of keyframe to insert

RETURNS:

Newly created keyframe

RETURN TYPE:

`Keyframe`

add(count)

Add a keyframe point to a F-Curve

PARAMETERS:

count (*int in [0, inf]*) – Number, Number of points to add to the spline

remove(keyframe, *, fast=False)

Remove keyframe from an F-Curve

PARAMETERS:

- **keyframe** (`Keyframe`, (never None)) – Keyframe to remove
- **fast** (*boolean, (optional)*) – Fast, Fast keyframe removal to avoid recalculating the curve each time

clear()

Remove all keyframes from an F-Curve

sort()

Ensure all keyframe points are chronologically sorted

deduplicate()

Ensure there are no duplicate keys. Assumes that the points have already been sorted

handles_recalc()

Update handles after modifications to the keyframe points, to update things like auto-clamping

classmethod bl_rna_get_subclass(id, default=None)

PARAMETERS:

id (*str*) – The RNA type identifier

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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

- `FCurve.keyframe_points`