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Action Operators

bpy.ops.action.bake keys()

Add keyframes on every frame between the selected keyframes

bpy.ops.action.clean(*, threshold=0.001, channels=False)

Simplify F-Curves by removing closely spaced keyframes

PARAMETERS:

- threshold (float in [0, inf], (optional)) Threshold
- channels (boolean, (optional)) Channels

bpy.ops.action.clickselect(*, wait_to_deselect_others=False, mouse_x=0, mouse_y=0, extend=False, deselect_all=False, column=False, channel=False)

Select keyframes by clicking on them

PARAMETERS:

- wait to deselect others (boolean, (optional)) Wait to Deselect Others
- mouse_x (int in [-inf, inf], (optional)) Mouse X
- mouse y (int in [-inf, inf], (optional)) Mouse Y
- extend (boolean, (optional)) Extend Select, Toggle keyframe selection instead of leaving newly selected keyframes only
- deselect_all (boolean, (optional)) Deselect On Nothing, Deselect all when nothing under the cursor
- column (boolean, (optional)) Column Select, Select all keyframes that occur on the same frame as the one under the mouse
- channel (boolean, (optional)) Only Channel, Select all the keyframes in the channel under the mouse

bpy.ops.action.copy()

Copy selected keyframes to the internal clipboard

bpy.ops.action.delete(*, confirm=True)

Remove all selected keyframes

PARAMETERS:

confirm (boolean, (optional)) - Confirm, Prompt for confirmation

bpy.ops.action.duplicate()

Make a copy of all selected keyframes

bpy.ops.action.duplicate move(*, ACTION OT duplicate=None, TRANSFORM OT transform=None)

Make a copy of all selected keyframes and move them

PARAMETERS:

- $\bullet \ \ \, \textbf{ACTION_OT_duplicate} \ (\ \ \, \texttt{ACTION_OT_duplicate} \ , \ \ \, \texttt{(optional))} Duplicate \ Keyframes, Make a copy of all selected keyframes \\$
- TRANSFORM_OT_transform (TRANSFORM OT transform, (optional)) Transform, Transform selected items by mode type

bpy.ops.action.easing type(*, type='AUTO')

Set easing type for the F-Curve segments starting from the selected keyframes

PARAMETERS:

type (enum in Beztriple Interpolation Easing Items, (optional)) – Type

bpy.ops.action.extrapolation type(*, type='CONSTANT')

Set extrapolation mode for selected F-Curves

PARAMETERS:

type (enum in ['CONSTANT', 'LINEAR', 'MAKE CYCLIC', 'CLEAR CYCLIC'], (optional)) -

Type

- CONSTANT Constant Extrapolation Values on endpoint keyframes are held.
- LINEAR Linear Extrapolation Straight-line slope of end segments are extended past the endpoint keyframes.
- MAKE CYCLIC Make Cyclic (F-Modifier) Add Cycles F-Modifier if one doesn't exist already.
- CLEAR CYCLIC Clear Cyclic (F-Modifier) Remove Cycles F-Modifier if not needed anymore.

bpy.ops.action.frame_jump()

Set the current frame to the average frame value of selected keyframes

bpy.ops.action.handle_type(*, type='FREE')

Set type of handle for selected keyframes

PARAMETERS:

type (enum in Keyframe Handle Type Items, (optional)) – Type

bpy.ops.action.interpolation_type(*, type='CONSTANT')

Set interpolation mode for the F-Curve segments starting from the selected keyframes

PARAMETERS:

type (enum in Beztriple Interpolation Mode Items, (optional)) – Type

bpy.ops.action.keyframe insert(*, type='ALL')

Insert keyframes for the specified channels

PARAMETERS:

type (enum in ['ALL', 'SEL', 'GROUP'], (optional)) – Type

bpy.ops.action.keyframe type(*, type='KEYFRAME')

Set type of keyframe for the selected keyframes

PARAMETERS:

type (enum in Beztriple Keyframe Type Items, (optional)) - Type

bpy.ops.action.layer_next()

Switch to editing action in animation layer above the current action in the NLA Stack

bpy.ops.action.layer_prev()

Switch to editing action in animation layer below the current action in the NLA Stack

bpy.ops.action.markers_make_local()

Move selected scene markers to the active Action as local 'pose' markers

bpy.ops.action.mirror(*, type='CFRA')

Flip selected keyframes over the selected mirror line

PARAMETERS:

type (enum in ['CFRA', 'XAXIS', 'MARKER'], (optional)) -

Type

- CFRA By Times Over Current Frame Flip times of selected keyframes using the current frame as the mirror line.
- XAXIS By Values Over Zero Value Flip values of selected keyframes (i.e. negative values become positive, and vice versa).
- MARKER By Times Over First Selected Marker Flip times of selected keyframes using the first selected marker as the reference point.

bpy.ops.action.paste(*, offset='START', merge='MIX', flipped=False)

Paste keyframes from the internal clipboard for the selected channels, starting on the current frame

PARAMETERS:

- offset (enum in Keyframe Paste Offset Items, (optional)) Offset, Paste time offset of keys
- merge (enum in Keyframe Paste Merge Items, (optional)) Type, Method of merging pasted keys and existing
- **flipped** (boolean, (optional)) Flipped, Paste keyframes from mirrored bones if they exist

bpy.ops.action.previewrange set()

Set Preview Range based on extents of selected Keyframes

bpy.ops.action.push_down()

Push action down on to the NLA stack as a new strip

bpy.ops.action.select_all(*, action='TOGGLE')

Toggle selection of all keyframes

PARAMETERS:

action (emim in ['TOGGLE', 'SELECT', 'DESELECT', 'INVERT'], (optional)) –

Action, Selection action to execute

- TOGGLE Toggle Toggle selection for all elements.
- SELECT Select Select all elements.
- DESELECT Deselect Deselect all elements.
- INVERT Invert Invert selection of all elements.

bpy.ops.action.select box(*, axis range=False, xmin=0, xmax=0, ymin=0, ymax=0, wait for input=True, mode='SET', tweak=False)

Select all keyframes within the specified region

PARAMETERS:

- axis_range (boolean, (optional)) Axis Range
- xmin (int in [-inf, inf], (optional)) X Min
- xmax (int in [-inf, inf], (optional)) X Max
- ymin (int in [-inf, inf], (optional)) Y Min
- ymax (int in [-inf, inf], (optional)) Y Max
- $\bullet \quad wait_for_input \ (\textit{boolean, (optional)}) Wait \ for \ Input$
- mode (enum in ['SET', 'ADD', 'SUB'], (optional)) –

Mode

- SET Set Set a new selection.
- ADD Extend Extend existing selection.
- \circ SUB Subtract Subtract existing selection.
- tweak (boolean, (optional)) Tweak, Operator has been activated using a click-drag event

bpy.ops.action.select circle(*, x=0, y=0, radius=25, wait for input=True, mode='SET')

Select keyframe points using circle selection

PARAMETERS:

- **x** (int in [-inf, inf], (optional)) X
- y (int in [-inf, inf], (optional)) Y
- radius (int in [1, inf], (optional)) Radius
- wait for input (boolean. (ontional)) Wait for Input

• mode (enum in ['SET', 'ADD', 'SUB'], (optional)) –

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Mode

- SET Set Set a new selection.
- ADD Extend Extend existing selection.
- SUB Subtract Subtract existing selection.

bpy.ops.action.select column(*, mode='KEYS')

Select all keyframes on the specified frame(s)

PARAMETERS:

mode (enum in ['KEYS', 'CFRA', 'MARKERS COLUMN', 'MARKERS BETWEEN'], (optional)) - Mode

bpy.ops.action.select_lasso(*, path=None, use_smooth_stroke=False, smooth_stroke_factor=0.75, smooth_stroke_radius=35, mode='SET')

Select keyframe points using lasso selection

PARAMETERS:

- path (bpy_prop_collection of OperatorMousePath, (optional)) Path
- use_smooth_stroke (boolean, (optional)) Stabilize Stroke, Selection lags behind mouse and follows a smoother path
- smooth stroke factor (float in [0.5, 0.99], (optional)) Smooth Stroke Factor, Higher values gives a smoother stroke
- smooth stroke radius (int in [10, 200], (optional)) Smooth Stroke Radius, Minimum distance from last point before selection continues
- mode (emm in ['SET', 'ADD', 'SUB'], (optional)) –

Mode

- SET Set Set a new selection.
- ADD Extend Extend existing selection.
- SUB Subtract Subtract existing selection.

bpy.ops.action.select leftright(*, mode='CHECK', extend=False)

Select keyframes to the left or the right of the current frame

PARAMETERS:

- mode (enum in ['CHECK', 'LEFT', 'RIGHT'], (optional)) Mode
- extend (boolean, (optional)) Extend Select

bpy.ops.action.select less()

Deselect keyframes on ends of selection islands

bpy.ops.action.select_linked()

Select keyframes occurring in the same F-Curves as selected ones

bpy.ops.action.select_more()

Select keyframes beside already selected ones

bpy.ops.action.snap(*, type='CFRA')

Snap selected keyframes to the times specified

PARAMETERS:

type (emim in ['CFRA', 'NEAREST_FRAME', 'NEAREST_SECOND', 'NEAREST_MARKER'], (optional))—

Type

- CFRA Selection to Current Frame Snap selected keyframes to the current frame.
- NEAREST_FRAME Selection to Nearest Frame Snap selected keyframes to the nearest (whole) frame (use to fix accidental subframe offsets).

- NEAREST SECOND Selection to Nearest Second Snap selected keyframes to the nearest second.
- NEAREST MARKER Selection to Nearest Marker Snap selected keyframes to the nearest marker.

bpy.ops.action.stash(*, create_new=True)

Store this action in the NLA stack as a non-contributing strip for later use

PARAMETERS:

create new(boolean, (optional)) - Create New Action, Create a new action once the existing one has been safely stored

bpy.ops.action.stash_and_create()

Store this action in the NLA stack as a non-contributing strip for later use, and create a new action

bpy.ops.action.unlink(*, force_delete=False)

Unlink this action from the active action slot (and/or exit Tweak Mode)

PARAMETERS:

force_delete (boolean, (optional)) - Force Delete, Clear Fake User and remove copy stashed in this data-block's NLA stack

bpy.ops.action.view_all()

Reset viewable area to show full keyframe range

bpy.ops.action.view frame()

Move the view to the current frame

bpy.ops.action.view selected()

Reset viewable area to show selected keyframes range

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