Skip to content **Anim Operators**

bpy.ops.anim.change frame(*, frame=0.0, snap=False)

Interactively change the current frame number

PARAMETERS:

- frame (float in [-1.04857e+06, 1.04857e+06], (optional)) Frame
- snap (boolean, (optional)) Snap

bpy.ops.anim.channel select keys(*, extend=False)

Select all keyframes of channel under mouse

PARAMETERS:

extend (boolean, (optional)) - Extend, Extend selection

bpy.ops.anim.channel view pick(*, include handles=True, use preview range=True)

Reset viewable area to show the channel under the cursor

PARAMETERS:

- include_handles (boolean, (optional)) Include Handles, Include handles of keyframes when calculating extents
- use preview range (boolean, (optional)) Use Preview Range, Ignore frames outside of the preview range

bpy.ops.anim.channels_bake(*, range=(0, 0), step=1.0, remove_outside_range=False, interpolation_type='BEZIER', bake modifiers=True)

Create keyframes following the current shape of F-Curves of selected channels

PARAMETERS:

- range (int array of 2 items in [-inf, inf], (optional)) Frame Range, The range in which to create new keys
- step (float in [0.01, inf], (optional)) Frame Step, At which interval to add keys
- remove_outside_range (boolean, (optional)) Remove Outside Range, Removes keys outside the given range, leaving only the newly baked
- interpolation_type (enum in ['BEZIER', 'LIN', 'CONST'], (optional)) —

Interpolation Type, Choose the interpolation type with which new keys will be added

- BEZIER Bézier New keys will be Bézier.
- \circ LIN Linear New keys will be linear.
- CONST Constant New keys will be constant.
- bake modifiers (boolean, (optional)) Bake Modifiers, Bake Modifiers into keyframes and delete them after

bpy.ops.anim.channels_clean_empty()

Delete all empty animation data containers from visible data-blocks

bpy.ops.anim.channels_click(*, extend=False, extend_range=False, children_only=False)

Handle mouse clicks over animation channels

PARAMETERS:

- extend (boolean, (optional)) Extend Select
- extend range (boolean, (optional)) Extend Range, Selection of active channel to clicked channel
- children only (boolean, (optional)) Select Children Only

bpy.ops.anim.channels_collapse(*, all=True)

Collapse (close) all selected expandable animation channels

PARAMETERS.

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all (boolean, (optional)) - All, Collapse all channels (not just selected ones)

bpy.ops.anim.channels delete()

Delete all selected animation channels

bpy.ops.anim.channels_editable_toggle(*, mode='TOGGLE', type='PROTECT')

Toggle editability of selected channels

PARAMETERS:

- mode (enum in ['TOGGLE', 'DISABLE', 'ENABLE', 'INVERT'], (optional)) Mode
- type (emm in ['PROTECT', 'MUTE'], (optional)) Type

bpy.ops.anim.channels_expand(*, all=True)

Expand (open) all selected expandable animation channels

PARAMETERS:

all (boolean, (optional)) – All, Expand all channels (not just selected ones)

bpy.ops.anim.channels fcurves enable()

Clear 'disabled' tag from all F-Curves to get broken F-Curves working again

bpy.ops.anim.channels_group(*, name='New Group')

Add selected F-Curves to a new group

PARAMETERS:

name (string, (optional, never None)) - Name, Name of newly created group

bpy.ops.anim.channels move(*, direction='DOWN')

Rearrange selected animation channels

PARAMETERS:

direction (enum in ['TOP', 'UP', 'DOWN', 'BOTTOM'], (optional)) - Direction

bpy.ops.anim.channels_rename()

Rename animation channel under mouse

bpy.ops.anim.channels select all(*, action='TOGGLE')

Toggle selection of all animation channels

PARAMETERS:

action (enum 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.anim.channels_select_box(*, xmin=0, xmax=0, ymin=0, ymax=0, wait_for_input=True, deselect=False, extend=True)

Select all animation channels within the specified region

PARAMETERS:

- xmin (int in [-inf, inf], (optional)) X Min
- xmax (int in [-inf, inf], (optional)) X Max
- ymin (int in [-inf, inf], (optional)) Y Min

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- ymax (int in [-in], in]], (optional)) Y iviax
- wait for input (boolean, (optional)) Wait for Input
- **deselect** (boolean, (optional)) Deselect, Deselect rather than select items
- extend (boolean, (optional)) Extend, Extend selection instead of deselecting everything first

bpy.ops.anim.channels select filter()

Start entering text which filters the set of channels shown to only include those with matching names

bpy.ops.anim.channels_setting_disable(*, mode='DISABLE', type='PROTECT')

Disable specified setting on all selected animation channels

PARAMETERS:

- mode (enum in ['TOGGLE', 'DISABLE', 'ENABLE', 'INVERT'], (optional)) Mode
- type (emm in ['PROTECT', 'MUTE'], (optional)) Type

bpy.ops.anim.channels_setting_enable(*, mode='ENABLE', type='PROTECT')

Enable specified setting on all selected animation channels

PARAMETERS:

- mode (enum in ['TOGGLE', 'DISABLE', 'ENABLE', 'INVERT'], (optional)) Mode
- type (enum in ['PROTECT', 'MUTE'], (optional)) Type

bpy.ops.anim.channels_setting_toggle(*, mode='TOGGLE', type='PROTECT')

Toggle specified setting on all selected animation channels

PARAMETERS:

- mode (enum in ['TOGGLE', 'DISABLE', 'ENABLE', 'INVERT'], (optional)) Mode
- type (emm in ['PROTECT', 'MUTE'], (optional)) Type

bpy.ops.anim.channels_ungroup()

Remove selected F-Curves from their current groups

bpy.ops.anim.channels view selected(*, include handles=True, use preview range=True)

Reset viewable area to show the selected channels

PARAMETERS:

- include handles (boolean, (optional)) Include Handles, Include handles of keyframes when calculating extents
- use preview_range (boolean, (optional)) Use Preview Range, Ignore frames outside of the preview range

bpy.ops.anim.clear_useless_actions(*, only_unused=True)

Mark actions with no F-Curves for deletion after save and reload of file preserving "action libraries"

PARAMETERS:

only unused (boolean, (optional)) - Only Unused, Only unused (Fake User only) actions get considered

FILE:

startup/bl_operators/anim.py:351

bpy.ops.anim.convert legacy action()

Convert a legacy Action to a layered Action on the active object

$bpy.ops.anim. {\color{red} copy_driver_button()}$

Copy the driver for the highlighted button

bpy.ops.anim.driver button add()

Add driver for the property under the cursor

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bpy.ops.anim.driver button edit()
```

Edit the drivers for the connected property represented by the highlighted button

bpy.ops.anim.driver button remove(*, all=True)

Remove the driver(s) for the connected property(s) represented by the highlighted button

PARAMETERS:

all (boolean, (optional)) – All, Delete drivers for all elements of the array

bpy.ops.anim.end frame set()

Set the current frame as the preview or scene end frame

bpy.ops.anim.keyframe clear button(*, all=True)

Clear all keyframes on the currently active property

PARAMETERS:

all (boolean, (optional)) - All, Clear keyframes from all elements of the array

bpy.ops.anim.keyframe clear v3d(*, confirm=True)

Remove all keyframe animation for selected objects

PARAMETERS:

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

bpy.ops.anim.keyframe_delete(*, type='DEFAULT')

Delete keyframes on the current frame for all properties in the specified Keying Set

PARAMETERS:

type (enum in ['DEFAULT'], (optional)) - Keying Set, The Keying Set to use

bpy.ops.anim.keyframe delete button(*, all=True)

Delete current keyframe of current UI-active property

PARAMETERS:

all (boolean, (optional)) – All, Delete keyframes from all elements of the array

bpy.ops.anim.keyframe delete by name(*, type=")

Alternate access to 'Delete Keyframe' for keymaps to use

PARAMETERS:

type (string, (optional, never None)) – Keying Set, The Keying Set to use

bpy.ops.anim.keyframe_delete_v3d(*, confirm=True)

Remove keyframes on current frame for selected objects and bones

PARAMETERS:

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

bpy.ops.anim.keyframe insert(*, type='DEFAULT')

Insert keyframes on the current frame using either the active keying set, or the user preferences if no keying set is active

PARAMETERS:

type (enum in ['DEFAULT'], (optional)) – Keying Set, The Keying Set to use

bpy.ops.anim.keyframe_insert_button(*, all=True)

Insert a keyframe for current UI-active property

PARAMETERS:

all (boolean, (optional)) – All, Insert a keyframe for all element of the array

bpy.ops.anim.keyframe insert by name(*, type=")

Alternate access to 'Insert Keyframe' for keymaps to use

PARAMETERS:

type (string, (optional, never None)) - Keying Set, The Keying Set to use

bpy.ops.anim.keyframe_insert_menu(*, type='DEFAULT', always_prompt=False)

Insert Keyframes for specified Keying Set, with menu of available Keying Sets if undefined

PARAMETERS:

- type (emm in ['DEFAULT'], (optional)) Keying Set, The Keying Set to use
- always_prompt (boolean, (optional)) Always Show Menu

bpy.ops.anim.keying set active set(*, type='DEFAULT')

Set a new active keying set

PARAMETERS:

type (enum in ['DEFAULT'], (optional)) – Keying Set, The Keying Set to use

bpy.ops.anim.keying set add()

Add a new (empty) keying set to the active Scene

bpy.ops.anim.keying set export(*, filepath=", filter folder=True, filter text=True, filter python=True)

Export Keying Set to a Python script

PARAMETERS:

- filepath (string, (optional, never None)) filepath
- filter folder (boolean, (optional)) Filter folders
- filter text (boolean, (optional)) Filter text
- **filter python** (boolean, (optional)) Filter Python

FILE:

startup/bl operators/anim.py:46

bpy.ops.anim.keying set path add()

Add empty path to active keying set

bpy.ops.anim.keying set path remove()

Remove active Path from active keying set

bpy.ops.anim.keying set remove()

Remove the active keying set

bpy.ops.anim.keyingset button add(*, all=True)

Add current UI-active property to current keying set

PARAMETERS:

all (boolean, (optional)) - All, Add all elements of the array to a Keying Set

bpy.ops.anim.keyingset_button_remove()

Remove current UI-active property from current keying set

bpy.ops.anim.merge_animation()

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Merge the animation of the selected objects into the action of the active object. Actions are not deleted by this, but might end up with zero users

bpy.ops.anim.paste driver button()

Paste the driver in the internal clipboard to the highlighted button

bpy.ops.anim.previewrange clear()

Clear preview range

bpy.ops.anim.previewrange set(*, xmin=0, xmax=0, ymin=0, ymax=0, wait for input=True)

Interactively define frame range used for playback

PARAMETERS:

- **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
- wait for input (boolean, (optional)) Wait for Input

bpy.ops.anim.scene_range_frame()

Reset the horizontal view to the current scene frame range, taking the preview range into account if it is active

bpy.ops.anim.separate slots()

Move all slots of the action on the active object into newly created, separate actions. All users of those slots will be reassigned to the new actions. The current action won't be deleted but will be empty and might end up having zero users

bpy.ops.anim.slot_channels_move_to_new_action()

Move the selected slots into a newly created action

bpy.ops.anim.slot new for id()

Create a new action slot for this data-block, to hold its animation

FILE:

startup/bl_operators/anim.py:705

bpy.ops.anim.slot unassign from constraint()

Un-assign the action slot from this constraint

FILE:

startup/bl_operators/anim.py:762

bpy.ops.anim.slot unassign from id()

Un-assign the action slot, effectively making this data-block non-animated

FILE:

startup/bl_operators/anim.py:741

bpy.ops.anim.slot unassign from nla strip()

Un-assign the action slot from this NLA strip, effectively making it non-animated

FILE:

startup/bl_operators/anim.py:762

bpy.ops.anim.start_frame_set()

Set the current frame as the preview or scene start frame

bpy.ops.anim.update_animated_transform_constraints(*, use_convert_to_radians=True)

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Update t-curves/drivers attecting Transform constraints (use it with files from 2.70 and earlier)

PARAMETERS:

use_convert_to_radians (boolean, (optional)) – Convert to Radians, Convert f-curves/drivers affecting rotations to radians. Warning: Use this only once

FILE:

startup/bl_operators/anim.py:386

bpy.ops.anim.view_curve_in_graph_editor(*, all=False, isolate=False)

Frame the property under the cursor in the Graph Editor

PARAMETERS:

- all (boolean, (optional)) Show All, Frame the whole array property instead of only the index under the cursor
- isolate (boolean, (optional)) Isolate, Hides all F-Curves other than the ones being framed

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