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Pose Operators

bpy.ops.pose.armature_apply(*, selected=False)

Apply the current pose as the new rest pose

PARAMETERS:

selected (boolean, (optional)) – Selected Only, Only apply the selected bones (with propagation to children)

bpy.ops.pose.autoside names(*, axis='XAXIS')

Automatically renames the selected bones according to which side of the target axis they fall on

PARAMETERS:

axis (enum in ['XAXIS', 'YAXIS', 'ZAXIS'], (optional)) –

Axis, Axis to tag names with

- XAXIS X-Axis Left/Right.
- YAXIS Y-Axis Front/Back.
- ZAXIS Z-Axis Top/Bottom.

bpy.ops.pose.blend_to_neighbor(*, factor=0.5, prev_frame=0, next_frame=0, channels='ALL', axis_lock='FREE')

Blend from current position to previous or next keyframe

PARAMETERS:

- factor (float in [0, 1], (optional)) Factor, Weighting factor for which keyframe is favored more
- **prev_frame** (*int in [-1048574, 1048574], (optional)*) Previous Keyframe, Frame number of keyframe immediately before the current frame
- next_frame (int in [-1048574, 1048574], (optional)) Next Keyframe, Frame number of keyframe immediately after the current frame
- channels (emim in ['ALL', 'LOC', 'ROT', 'SIZE', 'BBONE', 'CUSTOM'], (optional))—

Channels, Set of properties that are affected

- ALL All Properties All properties, including transforms, bendy bone shape, and custom properties.
- LOC Location Location only.
- \circ ROT Rotation Rotation only.
- SIZE Scale Scale only.
- $\bullet \quad \mathtt{BBONE} \ \, \textbf{Bendy Bone} \textbf{Bendy Bone shape properties}. \\$
- \circ CUSTOM Custom Properties Custom properties.
- axis lock (enum in ['FREE', 'X', 'Y', 'Z'], (optional)) –

Axis Lock, Transform axis to restrict effects to

- FREE Free All axes are affected.
- X X Only X-axis transforms are affected.
- Y Y Only Y-axis transforms are affected.
- ∘ Z Z Only Z-axis transforms are affected.

bpy.ops.pose.blend_with_rest(*, factor=0.5, prev_frame=0, next_frame=0, channels='ALL', axis_lock='FREE')

Make the current pose more similar to, or further away from, the rest pose

PARAMETERS:

- factor (float in [0, 1], (optional)) Factor, Weighting factor for which keyframe is favored more
- **prev_frame** (*int in [-1048574, 1048574], (optional)*) Previous Keyframe, Frame number of keyframe immediately before the current frame
- next frame (int in [-1048574, 1048574], (optional)) Next Keyframe, Frame number of keyframe immediately after the current frame
- channels (emm in I'ALL! 'LOC' 'ROT' 'SIZE' 'RRONE' 'CLISTOM'I (ontional))=

CHAINCES (CHAIN IN [TILL, LOC, TOT, DIEL, DDOTE, COSTORY], (OPROTAL)

Channels, Set of properties that are affected

- ALL All Properties All properties, including transforms, bendy bone shape, and custom properties.
- LOC Location Location only.
- ROT Rotation Rotation only.
- SIZE Scale Scale only.
- BBONE Bendy Bone Bendy Bone shape properties.
- CUSTOM Custom Properties Custom properties.
- axis_lock (enum in ['FREE', 'X', 'Y', 'Z'], (optional)) -

Axis Lock, Transform axis to restrict effects to

- FREE Free All axes are affected.
- ∘ X X Only X-axis transforms are affected.
- Y Y Only Y-axis transforms are affected.
- Z Z-Only Z-axis transforms are affected.

bpy.ops.pose.breakdown(*, factor=0.5, prev_frame=0, next_frame=0, channels='ALL', axis_lock='FREE')

Create a suitable breakdown pose on the current frame

PARAMETERS:

- factor (float in [0, 1], (optional)) Factor, Weighting factor for which keyframe is favored more
- **prev_frame** (*int in [-1048574, 1048574], (optional)*) Previous Keyframe, Frame number of keyframe immediately before the current frame
- next frame (int in [-1048574, 1048574], (optional)) Next Keyframe, Frame number of keyframe immediately after the current frame
- channels (enum in ['ALL', 'LOC', 'ROT', 'SIZE', 'BBONE', 'CUSTOM'], (optional)) –

Channels, Set of properties that are affected

- ALL All Properties All properties, including transforms, bendy bone shape, and custom properties.
- LOC Location Location only.
- ROT Rotation Rotation only.
- SIZE Scale Scale only.
- BBONE Bendy Bone Bendy Bone shape properties.
- $\hbox{$\circ$ CUSTOM Custom Properties} Custom properties. \\$
- axis lock (enum in ['FREE', 'X', 'Y', 'Z'], (optional)) –

Axis Lock, Transform axis to restrict effects to

- FREE Free All axes are affected.
- X X Only X-axis transforms are affected.
- Y Y Only Y-axis transforms are affected.
- ∘ Z Z Only Z-axis transforms are affected.

bpy.ops.pose.constraint_add(*, type=")

Add a constraint to the active bone

PARAMETERS:

type (enum in Constraint Type Items, (optional)) – Type

bpy.ops.pose.constraint add with targets(*, type=")

Add a constraint to the active bone, with target (where applicable) set to the selected Objects/Bones

PARAMETERS:

type (enum in Constraint Type Items, (optional)) – Type

bpy.ops.pose.constraints clear()

Clear all constraints from the selected bones

bpy.ops.pose.constraints copy()

Copy constraints to other selected bones

bpy.ops.pose.copy()

Copy the current pose of the selected bones to the internal clipboard

bpy.ops.pose.flip names(*, do strip numbers=False)

Flips (and corrects) the axis suffixes of the names of selected bones

PARAMETERS:

do_strip_numbers (boolean, (optional)) – Strip Numbers, Try to remove right-most dot-number from flipped names. Warning: May result it incoherent naming in some cases

bpy.ops.pose.hide(*, unselected=False)

Tag selected bones to not be visible in Pose Mode

PARAMETERS:

unselected (boolean, (optional)) - Unselected

bpy.ops.pose.ik_add(*, with_targets=True)

Add IK Constraint to the active Bone

PARAMETERS:

with targets (boolean, (optional)) - With Targets, Assign IK Constraint with targets derived from the select bones/objects

bpy.ops.pose.ik_clear()

Remove all IK Constraints from selected bones

bpy.ops.pose.loc_clear()

Reset locations of selected bones to their default values

bpy.ops.pose.paste(*, flipped=False, selected_mask=False)

Paste the stored pose on to the current pose

PARAMETERS:

- flipped (boolean, (optional)) Flipped on X-Axis, Paste the stored pose flipped on to current pose
- selected mask (boolean, (optional)) On Selected Only, Only paste the stored pose on to selected bones in the current pose

bpy.ops.pose.paths_calculate(*, display_type='RANGE', range='SCENE', bake_location='HEADS')

Calculate paths for the selected bones

PARAMETERS:

- display_type (enum in Motionpath Display Type Items, (optional)) Display type
- range (enum in Motionpath Range Items, (optional)) Computation Range
- bake_location (enum in Motionpath Bake Location Items, (optional)) Bake Location, Which point on the bones is used when calculating paths

bpy.ops.pose.paths_clear(*, only_selected=False)

Undocumented, consider contributing.

PARAMETERS:

only_selected (boolean, (optional)) - Only Selected, Only clear motion paths of selected bones

bpy.ops.pose.paths_range_update()

Update frame range for motion paths from the Scene's current frame range

bpy.ops.pose.paths update()

Recalculate paths for bones that already have them

bpy.ops.pose.propagate(*, mode='NEXT KEY', end frame=250.0)

Copy selected aspects of the current pose to subsequent poses already keyframed

PARAMETERS:

• mode (enum in ['NEXT_KEY', 'LAST_KEY', 'BEFORE_FRAME', 'BEFORE_END', 'SELECTED_KEYS', 'SELECTED_MARKERS'], (optional)) –

Terminate Mode, Method used to determine when to stop propagating pose to keyframes

- NEXT KEY To Next Keyframe Propagate pose to first keyframe following the current frame only.
- LAST KEY To Last Keyframe Propagate pose to the last keyframe only (i.e. making action cyclic).
- BEFORE FRAME Before Frame Propagate pose to all keyframes between current frame and 'Frame' property.
- BEFORE END Before Last Keyframe Propagate pose to all keyframes from current frame until no more are found.
- SELECTED KEYS On Selected Keyframes Propagate pose to all selected keyframes.
- SELECTED_MARKERS On Selected Markers Propagate pose to all keyframes occurring on frames with Scene Markers after the current frame.
- end_frame (float in [1.17549e-38, inf], (optional)) End Frame, Frame to stop propagating frames to (for 'Before Frame' mode)

bpy.ops.pose.push(*, factor=0.5, prev frame=0, next frame=0, channels='ALL', axis lock='FREE')

Exaggerate the current pose in regards to the breakdown pose

PARAMETERS:

- factor (float in [0, 1], (optional)) Factor, Weighting factor for which keyframe is favored more
- **prev_frame** (*int in [-1048574, 1048574], (optional)*) Previous Keyframe, Frame number of keyframe immediately before the current frame
- next frame (int in [-1048574, 1048574], (optional)) Next Keyframe, Frame number of keyframe immediately after the current frame
- channels (emim in ['ALL', 'LOC', 'ROT', 'SIZE', 'BBONE', 'CUSTOM'], (optional))—

Channels, Set of properties that are affected

- ALL All Properties All properties, including transforms, bendy bone shape, and custom properties.
- LOC Location Location only.
- ROT Rotation Rotation only.
- SIZE Scale Scale only.
- BBONE Bendy Bone Bendy Bone shape properties.
- CUSTOM Custom Properties Custom properties.
- axis lock (enum in ['FREE', 'X', 'Y', 'Z'], (optional)) –

Axis Lock, Transform axis to restrict effects to

- FREE Free All axes are affected.
- ∘ X X Only X-axis transforms are affected.
- Y Y Only Y-axis transforms are affected.
- ∘ Z Z Only Z-axis transforms are affected.

bpy.ops.pose.quaternions flip()

Flip quaternion values to achieve desired rotations, while maintaining the same orientations

bpy.ops.pose.relax(*, factor=0.5, prev frame=0, next frame=0, channels='ALL', axis lock='FREE')

Make the current pose more similar to its breakdown pose

PARAMETERS:

- factor (float in [0, 1], (optional)) Factor, Weighting factor for which keyframe is favored more
- **prev_frame** (*int in [-1048574, 1048574], (optional)*) Previous Keyframe, Frame number of keyframe immediately before the current frame
- next frame (int in [-1048574, 1048574], (optional)) Next Keyframe, Frame number of keyframe immediately after the current frame
- channels (emum in ['ALL', 'LOC', 'ROT', 'SIZE', 'BBONE', 'CUSTOM'], (optional))—

Channels, Set of properties that are affected

- ALL All Properties All properties, including transforms, bendy bone shape, and custom properties.
- LOC Location Location only.
- ROT Rotation Rotation only.
- SIZE Scale Scale only.
- BBONE Bendy Bone Bendy Bone shape properties.
- CUSTOM Custom Properties Custom properties.
- axis lock (enum in ['FREE', 'X', 'Y', 'Z'], (optional)) –

Axis Lock, Transform axis to restrict effects to

- FREE Free All axes are affected.
- ∘ X X Only X-axis transforms are affected.
- Y Y Only Y-axis transforms are affected.
- Z Z-Only Z-axis transforms are affected.

bpy.ops.pose.reveal(*, select=True)

Reveal all bones hidden in Pose Mode

PARAMETERS:

select (boolean, (optional)) - Select

bpy.ops.pose.rot_clear()

Reset rotations of selected bones to their default values

bpy.ops.pose.rotation_mode_set(*, type='QUATERNION')

Set the rotation representation used by selected bones

PARAMETERS:

type (enum in Object Rotation Mode Items, (optional)) – Rotation Mode

bpy.ops.pose.scale clear()

Reset scaling of selected bones to their default values

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

Toggle selection status of all bones

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.pose.select_constraint_target()

Select bones used as targets for the currently selected bones

```
opy.ops.pose.select_groupeu(, extend-raise, type-collabetton)
```

Select all visible bones grouped by similar properties

PARAMETERS:

- extend (boolean, (optional)) Extend, Extend selection instead of deselecting everything first
- type (enum in ['COLLECTION', 'COLOR', 'KEYINGSET'], (optional)) —
 Type
 - COLLECTION Collection Same collections as the active bone.
 - COLOR Color Same color as the active bone.
 - KEYINGSET Keying Set All bones affected by active Keying Set.

bpy.ops.pose.select hierarchy(*, direction='PARENT', extend=False)

Select immediate parent/children of selected bones

PARAMETERS:

- **direction** (*emum in ['PARENT', 'CHILD'], (optional)*) Direction
- extend (boolean, (optional)) Extend, Extend the selection

bpy.ops.pose.select_linked()

Select all bones linked by parent/child connections to the current selection

bpy.ops.pose.select_linked_pick(*, extend=False)

Select bones linked by parent/child connections under the mouse cursor

PARAMETERS:

extend (boolean, (optional)) - Extend, Extend selection instead of deselecting everything first

bpy.ops.pose.select_mirror(*, only_active=False, extend=False)

Mirror the bone selection

PARAMETERS:

- only_active (boolean, (optional)) Active Only, Only operate on the active bone
- $\bullet \ \ \textbf{extend} \ (\textit{boolean, (optional)}) \text{Extend, Extend the selection}$

bpy.ops.pose.select_parent()

Select bones that are parents of the currently selected bones

bpy.ops.pose.selection_set_add()

Create a new empty Selection Set

FILE:

startup/bl_operators/bone_selection_sets.py:143

bpy.ops.pose.selection set add and assign()

Create a new Selection Set with the currently selected bones

FILE:

startup/bl operators/bone selection sets.py:274

bpy.ops.pose.selection_set_assign()

Add selected bones to Selection Set

FILE:

startup/bl operators/bone selection sets.py:190

bpy.ops.pose.selection_set_copy()

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Copy the selected Selection Set(s) to the clipboard
    FILE:
         startup/bl operators/bone selection sets.py:286
bpy.ops.pose.selection set delete all()
    Remove all Selection Sets from this Armature
    FILE:
         startup/bl_operators/bone_selection_sets.py:73
bpy.ops.pose.selection set deselect()
    Remove Selection Set bones from current selection
    FILE:
         startup/bl operators/bone selection sets.py:257
bpy.ops.pose.selection_set_move(*, direction='UP')
    Move the active Selection Set up/down the list of sets
    PARAMETERS:
         direction (emm in ['UP', 'DOWN'], (optional)) - Move Direction, Direction to move the active Selection Set: UP (default) or DOWN
    FILE:
         startup/bl_operators/bone_selection_sets.py:122
bpy.ops.pose.selection set paste()
    Add new Selection Set(s) from the clipboard
    FILE:
         startup/bl operators/bone selection sets.py:298
bpy.ops.pose.selection set remove()
    Remove a Selection Set from this Armature
    FILE:
         startup/bl operators/bone selection sets.py:161
bpy.ops.pose.selection set remove bones()
    Remove the selected bones from all Selection Sets
    FILE:
         startup/bl operators/bone selection sets.py:85
bpy.ops.pose.selection set select(*, selection set index=-1)
    Select the bones from this Selection Set
    PARAMETERS:
         selection_set_index (int in [-inf, inf], (optional)) - Selection Set Index, Which Selection Set to select; -1 uses the active Selection Set
    FILE:
         startup/bl operators/bone selection sets.py:235
bpy.ops.pose.selection set unassign()
    Remove selected bones from Selection Set
    FILE:
```

startup/bl_operators/bone_selection_sets.py:209

bpy.ops.pose.transforms_clear()

Reset location, rotation, and scaling of selected bones to their default values

bpy.ops.pose.user_transforms_clear(*, only_selected=True)

Reset pose bone transforms to keyframed state

PARAMETERS:

only_selected (boolean, (optional)) - Only Selected, Only visible/selected bones

bpy.ops.pose.visual_transform_apply()

Apply final constrained position of pose bones to their transform

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