# Particle Operators

bpy.ops.particle.brush\_edit(\*, stroke=None, pen\_flip=False)

Apply a stroke of brush to the particles

## **PARAMETERS:**

- stroke (bpy prop collection of OperatorStrokeElement, (optional)) Stroke
- pen flip (boolean, (optional)) Pen Flip, Whether a tablet's eraser mode is being used

bpy.ops.particle.connect hair(\*, all=False)

Connect hair to the emitter mesh

#### **PARAMETERS:**

all (boolean, (optional)) - All Hair, Connect all hair systems to the emitter mesh

bpy.ops.particle.copy\_particle\_systems(\*, space='OBJECT', remove\_target\_particles=True, use\_active=False)

Copy particle systems from the active object to selected objects

#### **PARAMETERS:**

• space (emin in ['OBJECT', 'WORLD'], (optional)) –

Space, Space transform for copying from one object to another

- OBJECT Object Copy inside each object's local space.
- WORLD World Copy in world space.
- remove target particles (boolean, (optional)) Remove Target Particles, Remove particle systems on the target objects
- use\_active (boolean, (optional)) Use Active, Use the active particle system from the context

bpy.ops.particle.delete(\*, type='PARTICLE')

Delete selected particles or keys

## **PARAMETERS:**

type (enum in ['PARTICLE', 'KEY'], (optional)) - Type, Delete a full particle or only keys

bpy.ops.particle.disconnect hair(\*, all=False)

Disconnect hair from the emitter mesh

#### **PARAMETERS:**

all (boolean, (optional)) - All Hair, Disconnect all hair systems from the emitter mesh

bpy.ops.particle.duplicate\_particle\_system(\*, use\_duplicate\_settings=False)

Duplicate particle system within the active object

#### **PARAMETERS:**

use\_duplicate\_settings (boolean, (optional)) - Duplicate Settings, Duplicate settings as well, so the new particle system uses its own setting

bpy.ops.particle.dupliob\_copy()

Duplicate the current instance object

bpy.ops.particle.dupliob\_move\_down()

Move instance object down in the list

bpy.ops.particle.dupliob move up()

Move instance object up in the list

bnv.ons.narticle.dunliob refresh()

~p,,..p...p.....

Refresh list of instance objects and their weights

bpy.ops.particle.dupliob remove()

Remove the selected instance object

bpy.ops.particle.edited\_clear()

Undo all edition performed on the particle system

bpy.ops.particle.hair\_dynamics\_preset\_add(\*, name="', remove\_name=False, remove\_active=False)

Add or remove a Hair Dynamics Preset

#### **PARAMETERS:**

- name (string, (optional, never None)) Name, Name of the preset, used to make the path name
- remove name (boolean, (optional)) remove name
- remove\_active (boolean, (optional)) remove\_active

#### FILE:

startup/bl operators/presets.py:119

bpy.ops.particle.hide(\*, unselected=False)

Hide selected particles

#### **PARAMETERS:**

unselected (boolean, (optional)) - Unselected, Hide unselected rather than selected

bpy.ops.particle.mirror()

Duplicate and mirror the selected particles along the local X axis

bpy.ops.particle.new()

Add new particle settings

bpy.ops.particle.new target()

Add a new particle target

bpy.ops.particle.particle edit toggle()

Toggle particle edit mode

bpy.ops.particle.rekey(\*, keys\_number=2)

Change the number of keys of selected particles (root and tip keys included)

#### **PARAMETERS:**

keys\_number (int in [2, inf], (optional)) – Number of Keys

bpy.ops.particle.remove\_doubles(\*, threshold=0.0002)

Remove selected particles close enough of others

#### **PARAMETERS:**

threshold (float in [0, inf], (optional)) - Merge Distance, Threshold distance within which particles are removed

bpy.ops.particle.reveal(\*, select=True)

Show hidden particles

#### **PARAMETERS:**

select (boolean, (optional)) - Select

bpy.ops.particle.select\_all(\*, action='TOGGLE')

#### **PARAMETERS:**

action (emum 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.particle.select\_less()

Deselect boundary selected keys of each particle

## bpy.ops.particle.select\_linked()

Select all keys linked to already selected ones

## bpy.ops.particle.select linked pick(\*, deselect=False, location=(0, 0))

Select nearest particle from mouse pointer

#### **PARAMETERS:**

- deselect (boolean, (optional)) Deselect, Deselect linked keys rather than selecting them
- **location** (int array of 2 items in [0, inf], (optional)) Location

#### bpy.ops.particle.select more()

Select keys linked to boundary selected keys of each particle

#### bpy.ops.particle.select random(\*, ratio=0.5, seed=0, action='SELECT', type='HAIR')

Select a randomly distributed set of hair or points

#### **PARAMETERS:**

- ratio (float in [0, 1], (optional)) Ratio, Portion of items to select randomly
- seed (int in [0, inf], (optional)) Random Seed, Seed for the random number generator
- action (emm in ['SELECT', 'DESELECT'], (optional)) –

Action, Selection action to execute

- SELECT Select Select all elements.
- DESELECT Deselect Deselect all elements.
- type (enum in ['HAIR', 'POINTS'], (optional)) Type, Select either hair or points

# bpy.ops.particle.select\_roots(\*, action='SELECT')

Select roots of all visible particles

# **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.particle.select tips(\*, action='SELECT')

Select tips of all visible particles

#### PARAMETERS:

action (emm 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.particle.shape\_cut()

Cut hair to conform to the set shape object

## bpy.ops.particle.subdivide()

Subdivide selected particles segments (adds keys)

## bpy.ops.particle.target move down()

Move particle target down in the list

## bpy.ops.particle.target move up()

Move particle target up in the list

# bpy.ops.particle.target\_remove()

Remove the selected particle target

## bpy.ops.particle.unify\_length()

Make selected hair the same length

# bpy.ops.particle.weight\_set(\*, factor=1.0)

Set the weight of selected keys

## **PARAMETERS:**

factor (float in [0, 1], (optional)) - Factor, Interpolation factor between current brush weight, and keys' weights

Previous
Palette Operators
Report issue on this page

Copyright © Blender Authors

Made with Furo

Pose Operato