

## 25.9.5 Editors - Properties Editor - Particle Properties Tab - Emitter - Render panel

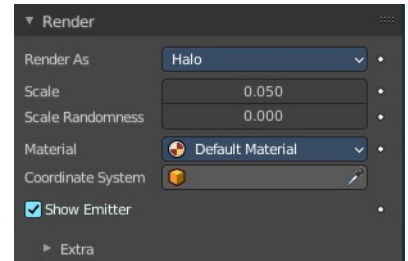
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# Render Panel

The Render Panel controls how particles appear when they are rendered.

Note! Cycles supports only Object and Collection render types. Halo Line and Path are not supported.



## Render As

Render the particles with different methods.

### All render methods

#### Scale

The size of the particles.

#### Scale Randomness

Give the particles a random size.

#### Show Emitter

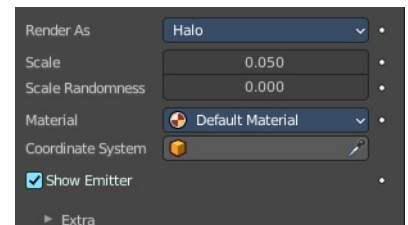
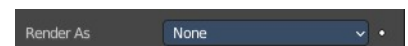
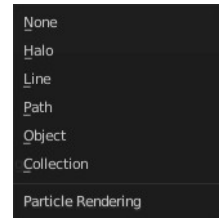
Render the particle emitting mesh. This does not affect the viewport rendering!

#### None

Don't render the particles.

#### Halo + Line

Line renders the particles as lines. Halo are rendered as glowing dots or a little cloud of light. Although they are not really lights because they do not cast light into the scene like a light object. They are called Halos because you can see them, but they do not have any substance.



## Material

Set which of the object's materials is used to shade the particles.

## Coordinates System

Use a different object's coordinates to determine the birth of particles.

## Extra

### Parents Particles

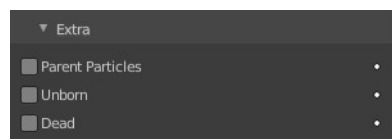
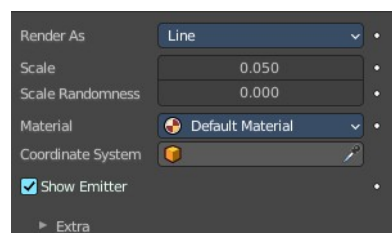
Render also parent particles if child particles are used. Children have a lot of different deformation options, so the straight parents would stand between their curly children. So by default Parents are not rendered if you activate Children. See Children.

### Unborn

Render particles before they are born.

### Dead

Render particles after they have died. This is very useful if particles die in a collision Die on hit, so you can cover objects with particles.



## Path

The Path visualization needs a Hair particle system or Keyed particles.

## Material

Set which of the object's materials is used to shade the particles.

## Coordinates System

Use a different object's coordinates to determine the birth of particles.

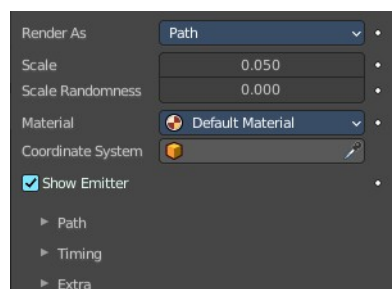
## Path subpanel

### B-Spline

Interpolate hair using B-splines. This may be an option for you if you want to use low Render values. You loose a bit of control but gain smoother paths.

### Steps

Set the number of subdivisions of the rendered paths (the value is a power of 2). You should set this value carefully, because if you increase the render value by two you need four times more memory to render. Also the rendering is faster if you use low render values (sometimes drastically). But how low you can go with this value depends on the waviness of the hair (the value is a power of 2). This means 0 steps give 1 subdivision, 1 give 2 subdivisions, 2 → 4, 3 → 8, 4 → 16, ... n → n<sup>2</sup>.



## ***Timing subpanel***

### **Absolute Path Time**

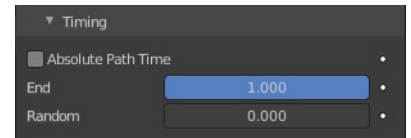
Path timing is in absolute frames.

### **End**

End time of the practical path.

### **Random**

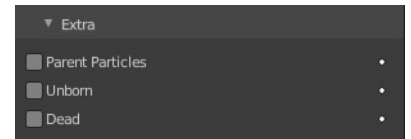
Give the path length a random variation.



## ***Extra***

### **Parents Particles**

Render also parent particles if child particles are used. Children have a lot of different deformation options, so the straight parents would stand between their curly children. So by default Parents are not rendered if you activate Children. See Children.



### **Unborn**

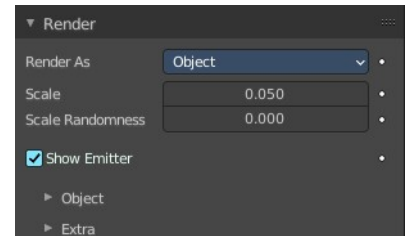
Render particles before they are born.

### **Dead**

Render particles after they have died. This is very useful if particles die in a collision Die on hit, so you can cover objects with particles.

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## **Object**



## ***Object subpanel***

### **Instance Object**

The specified object is instanced in place of each particle.

### **Global Coordinates**

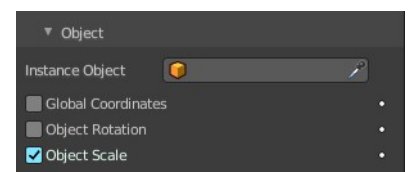
Use object's global coordinates for instancing.

### **Object Rotation**

Use the rotation of the object.

### **Object Scale**

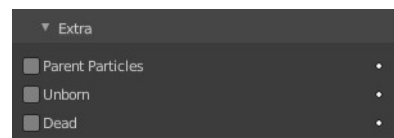
Use the size of the object.



## Extra

### Parents Particles

Render also parent particles if child particles are used. Children have a lot of different deformation options, so the straight parents would stand between their curly children. So by default Parents are not rendered if you activate Children. See Children.



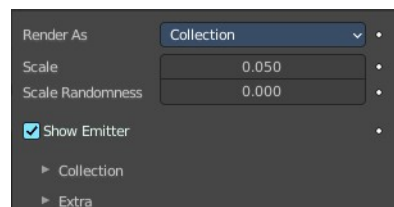
### Unborn

Render particles before they are born.

### Dead

Render particles after they have died. This is very useful if particles die in a collision Die on hit, so you can cover objects with particles.

## Collection



### Collection subpanel

#### Instance Collection

The objects that belong to a collection are instanced sequentially in the place of the particles.

#### Whole Collection

Use the whole group at once, instead of one of its elements, the group being displayed in place of each particle.

#### Pick Random

The objects in the group are selected in a random order, and only one object is displayed in place of a particle. Please note that this mechanism fully replaces old Blender particles system using parentage and Instancing Verts to replace particles with actual geometry. This method is fully deprecated and does not work anymore.

#### Global Coordinates

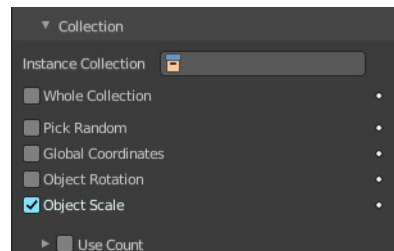
Use object's global coordinates for instancing.

#### Object Rotation

Use the rotation of the objects.

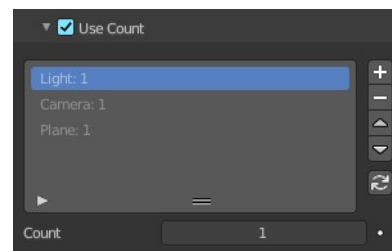
#### Object Scale

Use the size of the objects.



## Use Count

Use objects multiple times in the same groups. Specify the order and number of times to repeat each object with the list view that appears.



## Dupli Object Index list

The list with the objects of the chosen instance collection.

## Drag Handler

The two vertical lines at the end is a handler with which you can expand the list.

## Search Field

You can expand a search field at the bottom of the list. Type in your term and hit enter to filter for your term.



## Invert

Exclude the search term instead of searching for it.

## Sort by Name

Sort the List by name.

## Copy particle Dupliobject

Duplicate an object in the list.

## Remove particle Dupliobject

Remove a duplicate from the list.

## Refresh Dupliobjects

Refreshes the Dupli Object Index list.

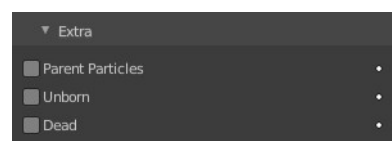
## Count

The number of times this object is repeated with respect to other objects.

## Extra

### Parents Particles

Render also parent particles if child particles are used. Children have a lot of different deformation options, so the straight parents would stand between their curly children. So by default Parents are not rendered if you activate Children. See Children.



### Unborn

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### Dead

Render particles after they have died. This is very useful if particles die in a collision Die on hit, so you can cover objects with particles.