


PxrDirt

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PxrDirt renders local geometric occlusion. This is useful for applying shading effects to nooks and crevices.

 A traditional ambient occlusion effect can be accomplished by setting the occluded color to black and unoccluded color to white.

Parameters

Occluded and Unoccluded

Resulting colors for occluded and unoccluded shading.

Num Samples

Controls the number of occlusion samples per camera hit point. More samples reduces can the noise at the cost of increased render time.

Sample Distribution

Possible values are *uniform* and *cosine* (Lambertian).

	Description
Uniform	Rays are not weighted in any particular direction in the hemisphere above the shading point.
Cosine	Cosine distribution is commonly used to render ambient occlusion.

Cosine Spread

Sample spread of rays when using *cosine* distribution. A value of 1.0 gives a perfect Lambertian distribution.

Falloff

Falloff can be used to control the softness of the occlusion effect.

Max Distance

The max distance at which objects may occlude. Zero is infinite (all objects occlude).

Direction

Trace rays in the direction of the surface normal (*outside*), inverse to the normal (*inside*), or in *both* directions.

Bias Direction

Add a directional bias to the normal vector. Values must be specified in world space.

Bias Co-ordinate System

Name of bias direction co-ordinate system transform such as object, world or camera

Trace Set

Restrict ray tracing to a subset of objects defined by one or more trace groups

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