Animation with Moving Objects

Introduction

In this chapter we'll talk about the first type of animations V-Ray can render - these with moving (animated) objects. Generally V-Ray is able to animate all numeric/color values of plugin properties. This means that we'll consider "animation" every plugin property which value is changing over time.

Parameters

Generally we need to set some values in the SettingsOutput plugin to have animated properties inside the scene. Here's an example excerpt from a . vrscene file with animated values:

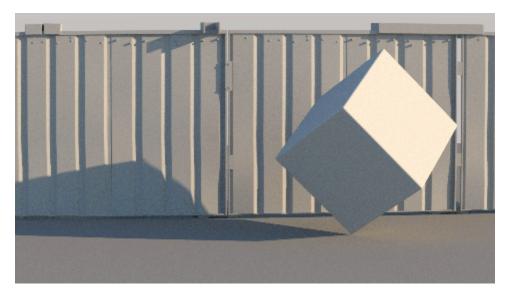
```
SettingsOutput {
   img_width=400;
   img_height=400;
   anim_start=1;
   anim_end=10;
   anim_frame_padding=4;
   anim_renumber_on=0;
   anim_renumber_start=0;
   anim_renumber_step=1;
   anim_ren_frame_start=0;
   frame_start=1;
   frames_per_second=1;
   frames=List(
       List(1, 10)
   );
}
```

Here are the animation related parameters explained:

```
o anim_start - Start of animation range in time units
```

- o anim_end End of animation range in time units
- o anim_frame_padding Animation Frame Name Padding
- o anim_renumber_on If true, frame renumbering is used
- anim_renumber_start Start number for renumber frames
- o anim_renumber_step Renumber frames step
- o anim_ren_frame_start First frame of animation range
- o frame_start The frame number at the start of the animation range
- o frames_per_second Number of frames per unit time (related to SettingsUnitsInfo::seconds_scale)
- o frames List of frames to be rendered. May contain intervals in the form of lists with start and end frame

Example



The above animation is generated by rendering the file "Animated_Object&Camera.vrscene" from the scene bundle. Check the comments inside the file and the included ones to see how GI can be used more optimally in an animation.

Code Example

Here we'll show how to render a static scene and animate one of the object's positions: