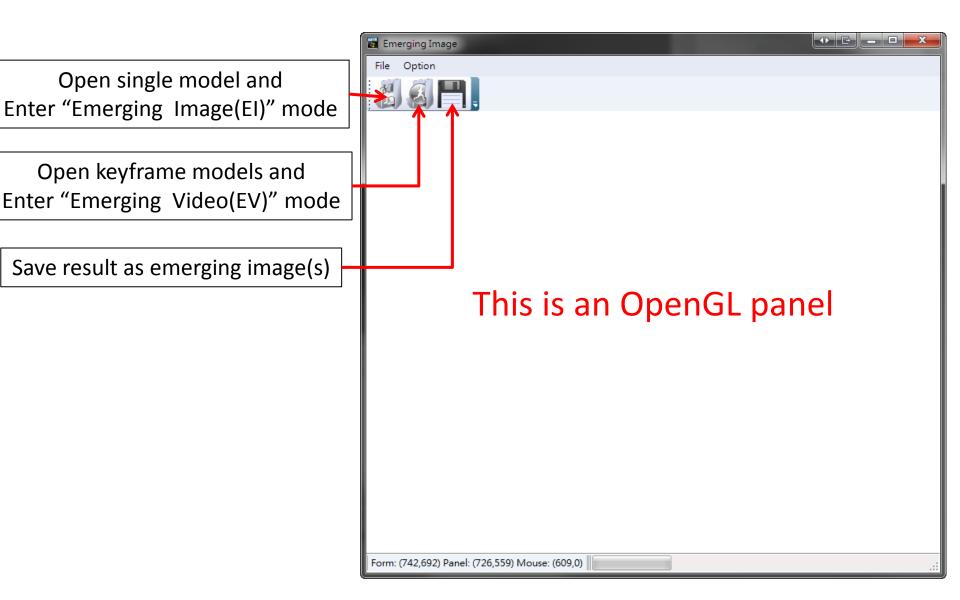
Emerging System User Manual

System I/O



System I/O

- Open single model (El mode)
 - File->Open->El Data
 - Drag *.obj file to OpenGL panel
- Open keyframe models (EV mode)
 - File->Open->EV Data
 - Drag *.ev file to OpenGL panel
- Save result(s)
 - File->Save->Image(s)
 - In El mode, the output is an emerging image (*.eps)
 - In EV mode, emerging image of each frame will be saved to the target folder

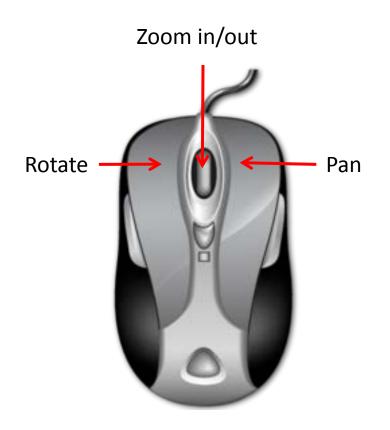
System I/O

- Open camera setting
 - File->Open->Camera
 - Drag *.view file to the main panel
- Save camera setting
 - File->Save->Camera
- Open light setting
 - File->Open->Light
 - Drag *.view file to the light panel

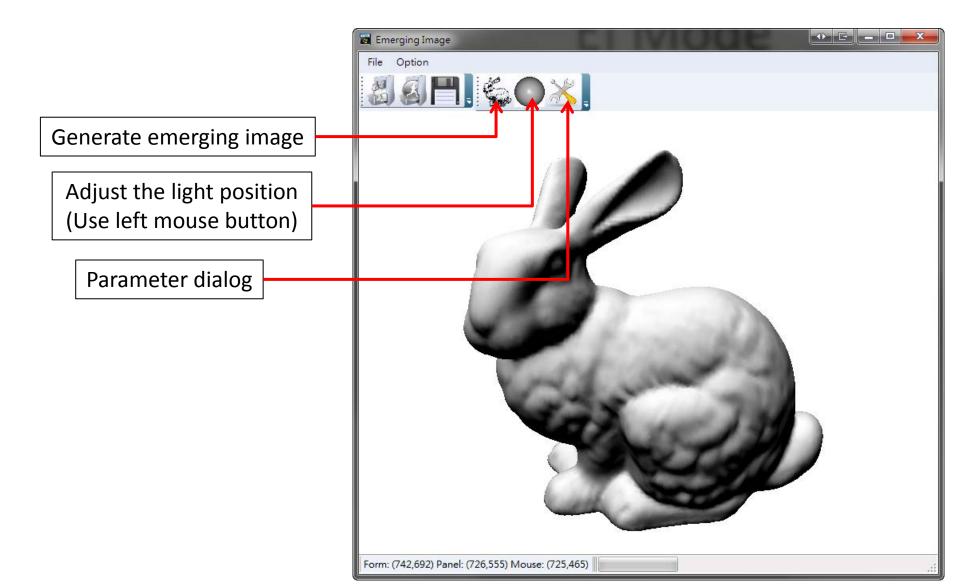


- Save light setting
 - File->Save->Light

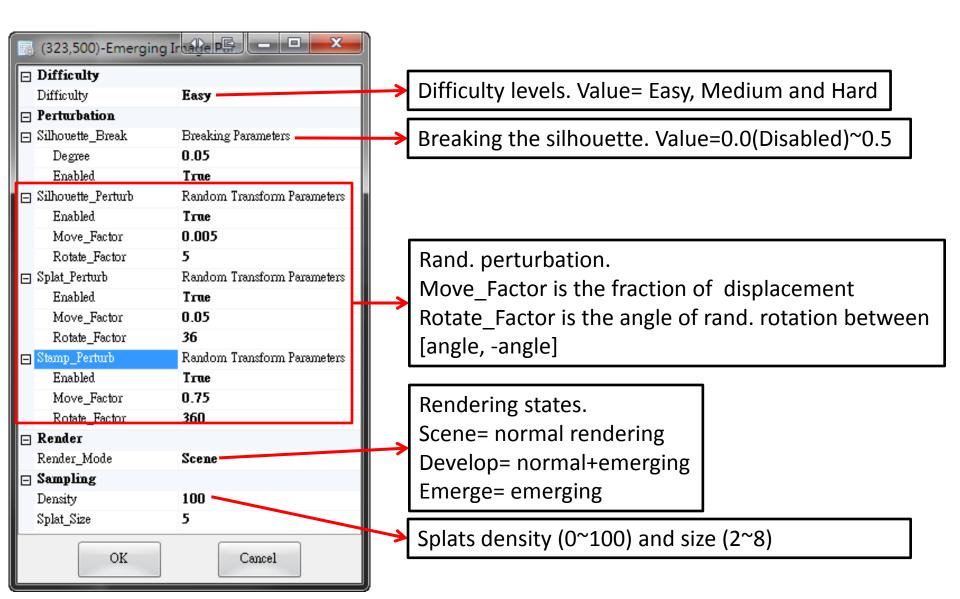
OpenGL Panel Manipulation



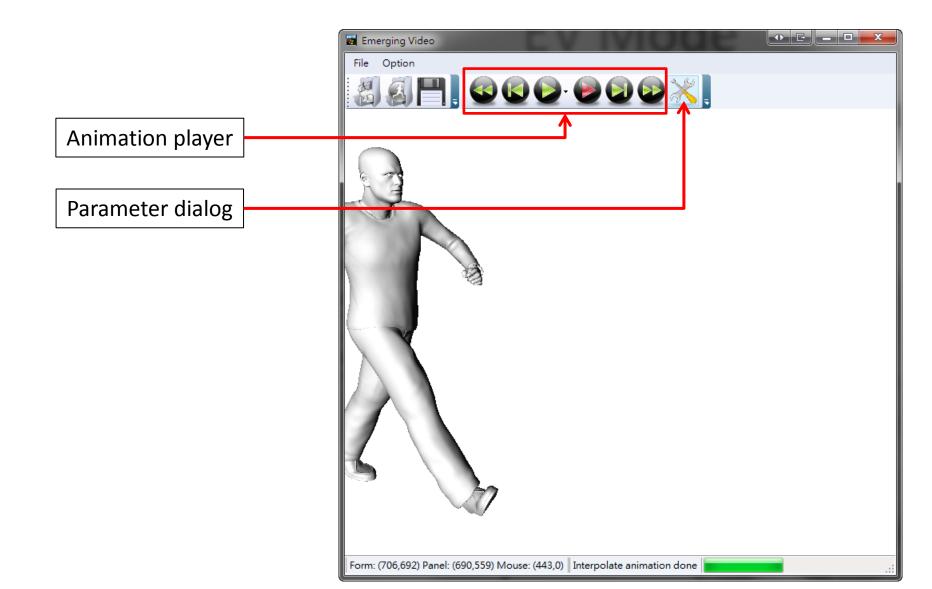
El Mode



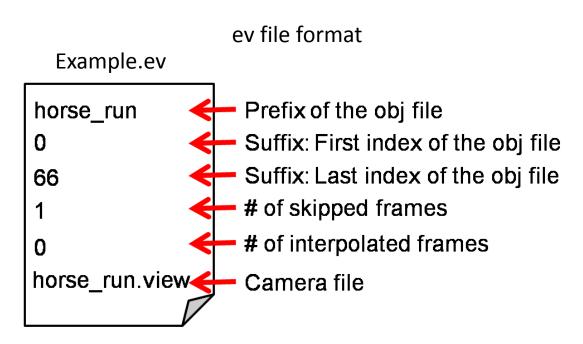
El Parameters



EV Mode



ev File Format



In this example, the program will read the following keyframe models, horse_run_0.obj, horse_run_2.obj, ..., horse_run_65.obj, horse_run_66.obj, and read the camera file "horse_run.view".

Note that all obj files and view file must be put in the same folder as ev file.

- Generate emerging video
 - Open the parameter dialog and set Render_Mode to "Emerge" or "Develop"
 - Play the animation
 - (Optional) if you want to save emerging image of each frame, click and pick a target location.
- Simple animation player



B1: Rewind the animation by one frame.

B2: Go to the first frame of the animation.

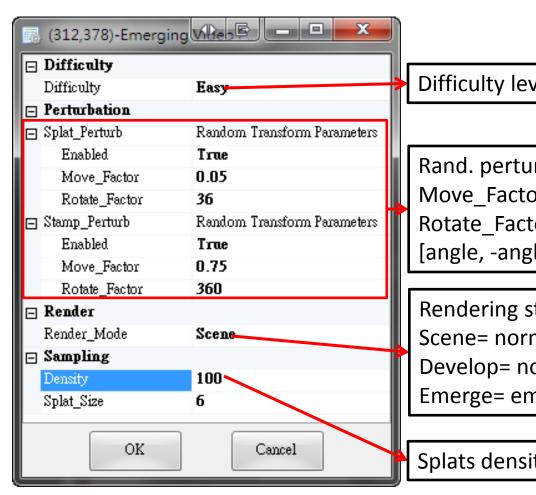
B3: Play the animation.

B4: Record the animation. When the button is pressed, the program will save the result (normal/emerging rendering) into a image file (bmp/eps).

B5: Go to the last frame of the animation.

B6: Forward the animation by one frame.

Parameters



Difficulty levels (Easy, Medium and Hard).

Rand. perturbation.

Move Factor is the fraction of displacement Rotate Factor is the angle of rand. rotation between [angle, -angle]

Rendering states.

Scene= normal rendering

Develop= normal+emerging

Emerge= emerging

Splats density $(0^{\sim}100)$ and size $(2^{\sim}8)$

Tested Platform/Environment

- Win XP, Win Vista and Win 7
- Support .Net framework 1.0 or above
- Support OpenGL 1.2 or above