Camera Tutorial

The camera plays the criticable in ecording the action portion of film, video, and multimediæpproduction and production. In this tutorial, you will practice setting up and working with cameras. You will starby manipulating the position of the camera. You will then add a camera and position it as well. Additionally will change the fields of viewhe angles of the cameras, and obserthe effect of evolving the camera.

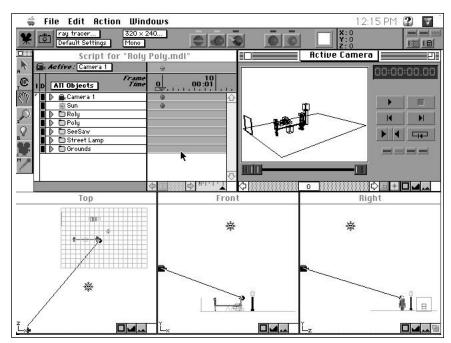
For this tutorial, you will be positioning two cameras to viewe septr stage and characters. The setting is a playing with two characters named Roly and Poly

Getting Stated

If Pesenter is not already open, open it now by double-clicking on the Pesenter icon.

Click on File and drag to Open Model. Open the Roly Pohydl in the Tutorial Folde Click on File and drag to Save Model As. Enter new name for model: Roly Poly Camera.mdl.

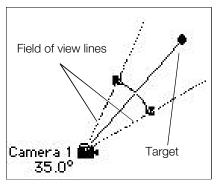
A default camera named Camera 1 and a parallel light soumamed Sun 1 are automatically added to any model when it is opened in Presenter The name is placed in the All Objects script list and their icons appear in the three views of the stage.



The digital production environment

Note: Save your work often!

The camera icon expesents the position of the camera on the stage. The control point extending out firm the camera is used to set the dixion of the camera. The two angled lines extending outfirthe camera represent the field of view



Camera icon

Repositioning the Camera in the Stagendows

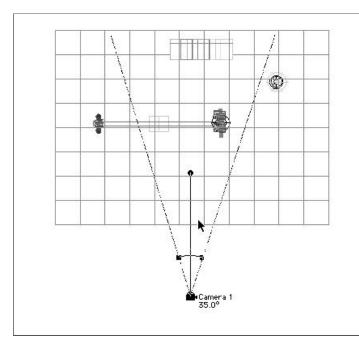
Using the 3 stage view windows, you camposition the camera position, the direction of the camera, and the field of view

Click on the Top Wew to make it the active window

If the camera icon is not visible, you may want to englathe Top Window. Be sure that the Active Camera control screen is also visible.

Click on Camera 1 and drag it so it is positioned communities the playgound scene. Using the Camera window as your confusceen, you can see the effect of the positioning the camera.

Click on the Target Point and drag it so it is in the middle of the playgrund in font of the teeter totter Once again, notice the effect in the Active Camera control screen.



Camera field of view

In any of the stage view windows, click and drag either of the control points on the lines to expand and shrink the field of viewbserve the effect of changing the field of view in the Active Camera control screen.

Repositioning the Camera in the Active Camera control screen

The Active Camera control screen can be used as a second way of changing the position of the camera..

Click on the Active Camera contol screen to make it the active window

When the cursor is placed inside the Active Camera control screen, it becomes a ass hair cursor with arows.

Click anywhere in the window and drag. Notice how the camera icon, but not the target point, moves in the 3 stage views.

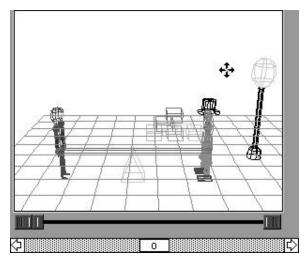
Click and drag the indicator in the sold bar at the bottom of the Active Camera control screen or click on one of the arows to either side of the scroll barThis scroll bar is the Camera Roll SklrBar and attack the camera (imagine how a pinwheel moves when you blow

Adding a Camera

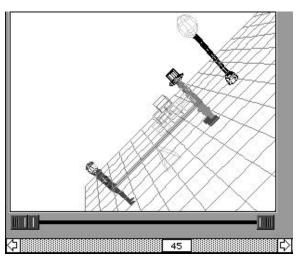
In the tools palette, click on the camera icon. Click in one of the 3-D Wew Windows to make it the active window. Click in the window to place the camera.

Repositioning the Camera Using The Object Information Dialog

Each object listed in the Script has an Object Information Dialog that can be used toposition the camera position, the direction of the camera, and the field of view

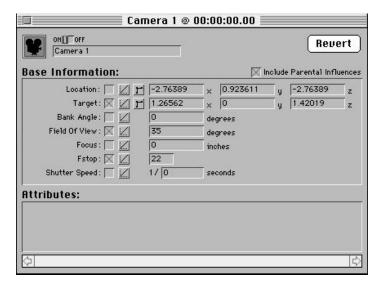






Rotated camera view

Double click on any point of the camera object (i.e. the camera, the target point, the vectors, etc.) or on the name in the Script list to bring up the Object Information Dialog.



Camera Object Information dialog

The camera object can beenamed by selecting the current name in the upper left coer next to the camera icon and typing the new name.

The camera can be expositioned by typing in coordinates in the x, yand z fields of the Sour Point. Type in dferent coordinates and notice the efects in the 3 stage windows and the Active Camera control screen.

The target point can be expositioned by typing in coordinates in the x, y and z fields of the arget Point. Type in defent coordinates and notice the efects in the 3 stage windows and the Active Camera control screen.

The camera angle can be changed by typing a new angle measurt or lens size in the Field ofeW fields.

You can change the settings to the parameters that existed when you opened the Object Information Dialog by clicking the Revebutton.

Summary

The Active Camera control screen in Presenter's simulated control porm was used to proview the positioning of two cameras and the changing of camera field of yierngle, and otation.