

Exercise 2 – Motion Capture – Blade and Processing

DATE DUE: Class 10 (NO RESUBMITS)

DATE ASSIGNED: Class 8

Goals:

To become familiar with the Motion Capture system. Specifically, using Vicon Blade, Motion Builder and Houdini. The student will produce two results, a primitive version and a rigged character (can be one of the Motion Builder tutorial characters) to test their capture.

Requirements:

An action script will be required. Motion must be captured in the presence of the student (you will be working in teams for the capture, processing will be individual).

The captured data will be processed to produce a final rendered animation. Note that this does not have to be integrated into a crowd – that will be part of your project – this exercise is to focus on the capture pipeline.

There must be a floor/ground surface with appropriate lighting of some kind to reveal shadows and foot contact.

In addition, please screen capture the raw data and include it as part of your mov file submission.

Submissions guidelines:

The project will be submitted to your dropbox in a directory named

F17_T450_E2_LastnameFirstname_Title/

This directory should contain the following:

- **F17_T450_E2_LastnameFirstname_Title.hipnc**,
- **a folder with** the data files from the blade capture, resulting fbx
- **F17_T450_E2_LastnameFirstname_Title.pdf**, a brief description of information you would like to communicate. Please include a general description to a viewer as well as a more technical description to someone looking at your files.
- **F17_T450_E2_LastnameFirstname_Title.mov** or mp4, compressed H 264 and should include raw data screen capture as well as final result

Important note: Adherence to these naming and format conventions constitutes 5% of your grade. It is your job to make sure your files are correctly labeled – failure to comply with naming conventions will also affect your professionalism grade.

Grading:

Using the motion capture data and learning the pipeline from capture to finished product is the emphasis. The grading of this exercise is structured as follows. Meeting the minimum specifications, 80%. To move your grade above 80% go beyond the specifications, demonstrate exploration and understanding. Creating an aesthetic piece is also part of the goal as well as motion that is integrated into a scene. Extension/enhancements could include two person or finger capture and so on.

Be creative, have fun.