Introduction

- Large motion capture DB’s widely used in the film and video game industries
- This has created a desire to be able to search these databases for similar motions
- Bases of automated methods for synthesizing new motions from MoCap data

Project Goal

- Numerous similarity metrics have been proposed:
  - Which of these should be preferred?
  - What are their respective strengths and weaknesses?
  - How can a given metric be improved?
- Develop an environment for analyzing the structure of a motion capture DB under a given similarity metric

Project Overview

- MoCap DB
  - Scatterplot View
  - Similarity Metric
  - Dissimilarity Matrix
  - MDS

Proposed Solution

- Couple scatterplot view with a "details-on-demand" view

Remaining Work

- Tighter coupling between views:
  - Clicking a skeleton should highlight associated point in scatterplot
  - Hovering over a point should highlight associated row and column in dissimilarity matrix
- Select “good” colours for skeletons
- Plus the other 10 items on my to-do list

Literature

- Implemented similarity metric:
- Other similarity metrics:
- Related InfoVis papers: