m.CRIM Visualization Development Ideas

Summer 2019

- Clarify dependencies and code calls so that Micah can integrate the heat maps into CRIM Django. See WireFrame here.
- Think about other visualizations:
    - The basic system whereby one can find Masses and their Models (or the other way around) is of course good.
    - But it would be fun to imagine how we can think of 'similarity' *beyond* merely the "This Piece has This Model" or "This Model has This Derivative". That is: apart from the obvious Model-Mass pairs, what other factors make pieces "similar"? Are there procedural similarities of some kind?
    - For instance: what about networks of (see mockup)
        - **Similar Observations** (families of PEns, or IDs, or Fugas) in which the Nodes would be the Musical Type and the Edges would be derived from the MetaData (like Pieces, and Time Intervals or Melodic Intervals of imitation)
        - **Similar Relationships** (families of Quotation, Non-Mechanical Transformation), in which the Nodes would be the Relationship Types and the Edges would be the MetaData (like "Counter Subject Shifted" etc)
        - Another factor of similarity might be **_where_ in a piece** the Observation appears (or in the case of the Relationships, where in TWO pieces the pair of Observations appear). This could be derived from the first range of numbers in the EMA. Or if they happened in the SAME Mass movement.
        - And then some kind of functionality in the Vis that would allow users to select different factors to focus on as they 'see' the clusters of related items.