

## SI649/EECS598, Fall 2015 -- In Class Design (Nov. 10, 2015)

Your goal today is to design an interface for: **Visualizing a tennis match**. There are many questions one could ask about a match (and from different perspectives: is the match over? is the match in progress? are you a fan? a player? a coach?). *You will not address all of these in your visualization.* While you may visualize as many facets of the match or players as you want, the “structural piece” must be present (this is a lab on hierarchical data, after all). Please make sure that the overall structure of the match is captured. If you don’t know the rules of tennis, we are providing you with a sheet describing the key aspects.

**You do NOT need to read everything to start. Just read what you need for the next step.**

### Step 0 - Make a google doc

Make a Google Doc that is shared with all the members of your group and with myself ([eytanadar@gmail.com](mailto:eytanadar@gmail.com)). As you go, please upload snapshots of your work.

### Step 1 -- 15 minutes -- Domain tasks

1. Shuffle the domain cards
2. Divide up the *domain cards* equally among your group members.
3. Each person should put down the **three** cards in their pile that they think are the MOST important for the domain (there are duplicates on purpose). There are some blank domain cards. You may create new tasks if you like.
4. The group should come to an agreement about 3-5 domain tasks from the cards each person picked. You can do this, for example, by voting according to your preference or a Mad Max style Thunderdome. These will be the “requirements pile.”
  - a. The constraint this week: *you must have **at least one MATCH STRUCTURE card (orange card)**, aside from that you can pick as many **SCORING (blue)**, **PLAY ATTRIBUTES (green)**, or **PLAYER ATTRIBUTES (purple)** cards as you want (but still have a between 3-5 total)*
5. **Take a picture and upload it to the google doc**

### Step 2 -- 10 minutes -- Data

1. We have provided a list of possible piece of data (back of your tennis rules sheet). Circle the ones you think are needed for your domain task. Add variables/attributes to the list if something is missing. *Do this on your own initially.*
2. Using one new sheet, agree on the data based on individual decisions
3. **Take a picture and upload to the google doc (both the individual and group consensus).**

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### Step 3 -- 10 minutes -- Abstract Tasks

1. Shuffle the **abstract task cards** cards and divide equally among the group members.
2. Everyone should do this at the same time (in parallel). If an abstract task card describes a thing you need to achieve a domain task in your working pile, put that next to the domain card (do not discuss as you go).
  - a. If it matches more than one domain card, put it next to the best match.
3. Once everyone has put their cards down, quickly come to a consensus on the choices.
4. **Take a picture and upload to the google doc (the group consensus).**

### Step 4 -- 15 minutes -- Individual Sketch

1. On your own draw a visualization solution that will best satisfy the domain and abstract problems put down on the table.
2. There is a third deck with "**layout/examples**" and "**inspiration**" that you can/should flip through for ideas
  - a. Do this independently at first, and then discussion the solutions each has proposed.
3. **Upload a snapshot of each person's solution to the google doc.**

### Step 5 -- remaining time -- Consensus Sketch

1. Come up with a "best" solution that combines the best aspects of each individual design.
  - a. Make sure that you are still satisfying the domain/abstract tasks.
  - b. So if you said you wanted the visualization to "express" something, it should!
  - c. and then make sure the choice is effective.
2. **Upload a snapshot to google doc.**