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<https://cspaul.com>



# Visualization for Data Science

## DS-4630 / CS-5630 / CS-6630

Group Activity: Design Sprint

# Design Process

- A few weeks ago, we discussed design processes
- Today your goal is to use Munzner's model to build a visualization
  - Reminder, Munzner's model has 4 phases
    - domain problem characterization
    - data abstraction
    - visual encoding
    - algorithm

# Instructions

- Start with domain characterization (i.e., what do you want to visualize about a menu that might be helpful in decision-making, sharing information, etc.)
- Perform data abstraction (this should be quick, since you did it a few weeks ago)
- Perform visual encoding (i.e., build the visualization)
  - You can use any tools you want but this should be a sketch
  - Your visualization should convey whatever your domain characterization focuses on
  - The best visualizations will receive a small amount of extra credit

	8oz small	12oz medium	16oz large
GUATEMALA CASI CIELO <i>floral, lemon &amp; cocoa</i>	1.50	1.70	1.90
GUATEMALA CASI CIELO <i>de-caf</i> <i>floral, lemon &amp; cocoa</i>	1.50	1.70	1.90
SUMATRA <i>spicy, herbal &amp; earthy</i>	1.50	1.70	1.90
ESPRESSO	1.45	1.70	1.85
AMERICANO	1.60	1.80	2.00
CAFÉ LATTE	2.15	2.75	3.20
CAPPUCCINO	2.15	2.75	3.20
CAFÉ MOCHA	2.65	3.05	3.55
ORGANIC BREAKFAST	1.70	1.90	2.10
ORGANIC LONG LIFE GREEN TEA	1.70	1.90	2.10
MONSOON CHAI	1.70	1.90	2.10
CHAI TEA LATTE	2.40	2.95	3.35
BLACK TEA LATTE	2.20	2.55	3.20
HOT CHOCOLATE	2.50	2.75	3.00
HOMEMADE SYRUP FLAVORS	.50 each		



# Submission

- Provide an image of your visualization
- Take notes as you work and provide a write-up, including discussions on
  - domain characterization
  - data abstraction
  - visual encoding
- Submit your materials using the Google Form on the course website



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