A1 Submission Designs

Fields: Sunshine, Lat/Long, City, Month
Extra: Climate, Energy, Mental Health, ...

Transforms: Sums, Averages, Differences, Percentages, Proportions, Filter

Chart Types: Line, Area, Bar, Scatter, Heatmaps, Maps, Radial, Compositions
Design Considerations

Title, labels, legend, captions, source!

Expressiveness and Effectiveness
Avoid unexpressive marks (lines? gradients?)
Use perceptually effective encodings
Don’t distract: faint gridlines, pastel highlights/fills
The “elimination diet” approach - start minimal

Support comparison and pattern perception
Between elements, to a reference line, or to totals
Use reader-friendly units and labels
Statistical soundness (regression, interpolation)
Design Considerations

Transform data (e.g., filter, log, normalize)

Group / sort data by meaningful dimensions

Reduce cognitive overhead
Minimize visual search, minimize ambiguity
Appropriate size, aspect ratio, legible text
Avoid legend lookups if direct labeling works
Avoid color mappings with indiscernible colors

Be consistent! Visual inferences should consistently support data inferences.
A2: Exploratory Data Analysis

Use visualization software to form & answer questions

First steps:
Step 1: Pick domain & data
Step 2: Pose questions
Step 3: Profile the data
Iterate as needed

Create visualizations
Interact with data
Refine your questions

Author a report
Screenshots of most insightful views (8+)
Include titles and captions for each view

Due by 11:59pm Monday, Jan 25
Course Participation & Final Project

Week 2 Participation

Week 2 Discussion Post (link to Ed)
Week 2 Quiz (link to Ed Sway)
Due by 11:59pm PST, Monday Jan 18th

Final Project Planning

Final Project Teams (3-5 people)
Team Selection Thread (link to Ed)
Proposed topics: clean energy, solar, police brutality, health
Team selection due by Friday Feb 12th