

Assignment 5: Data Visualization

Build an interactive data visualization of a hierarchical database provided.

Start by reading 'Is Data Visualization the Future of Art?' by Bob Duggan
<http://bigthink.com/Picture-This/is-data-visualization-the-future-of-art>

Your page must include:

- Loading an external XML database file
- A designed visual interpretation of this database
- Use of all data in the database.
- A way to view all records
- An interaction that changes the view of the records (looks at an individual record, some subset of records, changes the layout or design of the records, etc)
- Page design handled in CSS

You will be provided with a sample of 10 records, but your project must be able to handle up to 50 records (you will not know how many records there are).

Consider the following when building your visualization:

- Graphics
- Images
- Depth
- Motion
- Text (try to keep this limited)
- Context

Database description

Each dataset has the following 6 fields.

Field 1 – text, fewer than 24 characters. No two records have the same value for field 1.

Field 2 – Integer between 100-999

Field 3 – Floating point number between 0.0 and 9.99

Field 4 – Color value in hexadecimal

Field 5 – a lower-case letter: a, b, c or d

Field 6 – Boolean – 1 or 0.

Each dataset is also numbered using a 'num' attribute. You are not required to use this attribute.

Dates:

4/2 – Design Critique- Completed draft design of the page and existing records

4/9 – Interactivity Check-in – The sample dataset loading and generating visuals.
Interactive tests

4/16 – completed project due

Grading Breakdown:

Design on 4/2	/1
Interactivity Check-in	/1
Site Design	/3
Well-considered elements of design, implemented in CSS	
Visualization design	/3
Data visualization is engaging, well-designed and expandable	
Interaction	/2
Interaction is easy to understand, well-implemented	
Total	/10

Category: Interactive

Tags: Interactive Design, Data Visualization, Javascript, HTML, CSS