Data Visualization:

Some Techniques

mpsm311 Electronic Projects for Artists

Types of data: ?

Static vs. Dynamic

Structured vs. Unstructured

Types of data: Static

- Census
- Image databases -Satellite maps
- Internet Server Logs
- Facebook Posts

Types of data: Static How do we get it?

- Download (e.g. Project Gutenberg)
- Public Government records
- Facebook Posts
- "Data/Screen Scraping" (unscructured)
- API (Application Programming Interface) (structured)

Types of data: Dynamic

- Heartbeat
- Titter feeds
- Sensors generally (light temperature)
- Subscriptions (If This, Then that IFTTT) https://ifttt.com/

Types of data: Dynamic How do we get it?

- API (Application Programming Interface) (structured)
- Network Streams (remote Raspberry Pi's)
- Connected sensor streams Arduino

Data formats:

- . txt Text files
- . tsv Tab Separated Values
- . csv Comma Separated Values
- . xml Extensible Markup Language
- . J SON Javascript Object Notation

XML looks like this:

(example: note.xml)

<note>

<to>Tove</to>

<from>Jani</from>

<heading>Reminder</heading>
<content>Walk the dog.</content>
</note>

```
JSON looks like this:
"book":[
      "id":"444",
      "topic": "Cooking",
      "author": "Julia Child"
      "id":"555",
      "topic": "Programming",
      "author": "Casey Reas "
```