Intro

INFX 551 Foundation of Data Curation



Agenda

- Introductions
- Taking a class with me
- Assignments / Grades
- Topics
- Activity
- Lecture
- Discussion

Introduction

- Who are you?
- What are you interested in?
- What's your career goal / dream job?
- What's your grad school pet peeve?

Some important things about taking a class with me....

- I try to create a 'choose your own adventure' style to each topic. I encourage you to embrace this.
- I like to experiment. Sometimes experiments blow up.
- I am a very easy grader, but a stickler for details.

Class pact

- You have to try.
- You have to be curious
- You have to be comfortable with (or at least tolerate) uncertainty
- You have to embrace the emergent properties of learning with other human beings
- You have to agree to never ever under any circumstance show someone a data lifecycle diagram.

Topics

- 1.1 Introduction
- 1.2 Open & FAIR Data
- 2.1 Repositories
- 2.2 Metadata + Documentation
- 2.3 Preservation
- 3.1 Transparency
- 3.2 Privacy & Ethics
- 3.3 Quality Assurance
- 4.1 Sustainability
- 4.2 Wrap-up

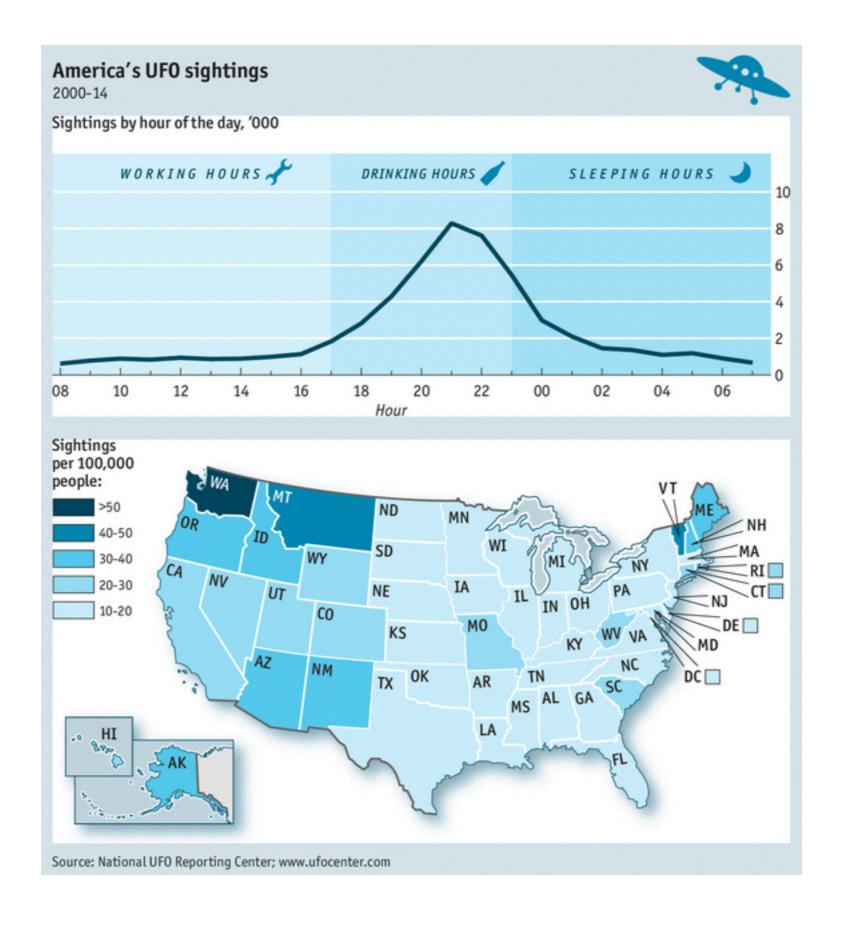
Assignments

- Data Paper (25%) April 27
- Use Case (25%) May 11
- Curation Protocol (40%) June 8

Enough of me talking. Let's do an activity.

UFO Data...

- 1. What are the data?
- 2. How are data collected?
- 3. What interesting questions might you ask of this kind of data?
- 4. What needs to be done to the data in order to answer those questions?
- 5. How might you communicate your findings?



What do you mean by 'data'?

(easily one of the least interesting questions we can ask)

Type vs Role distinctions

Type:

Donald Trump is a person.

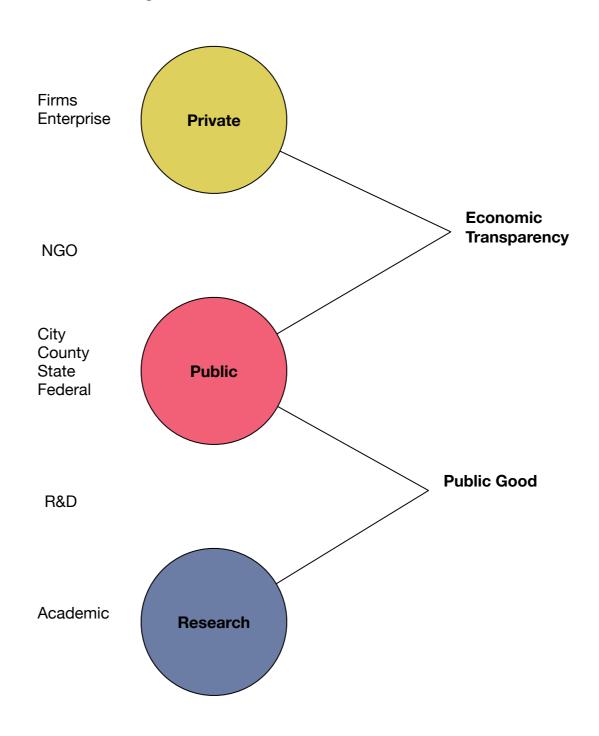


Role:

Donald Trump is POTUS



Types of Data (by sector)



Types of Data

(by file format)





Data Roles

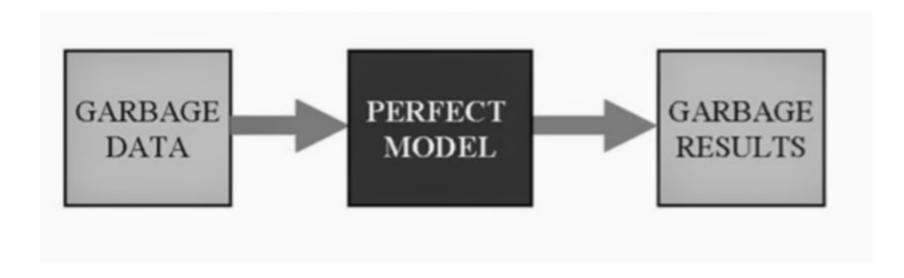


"What do you mean by curation"

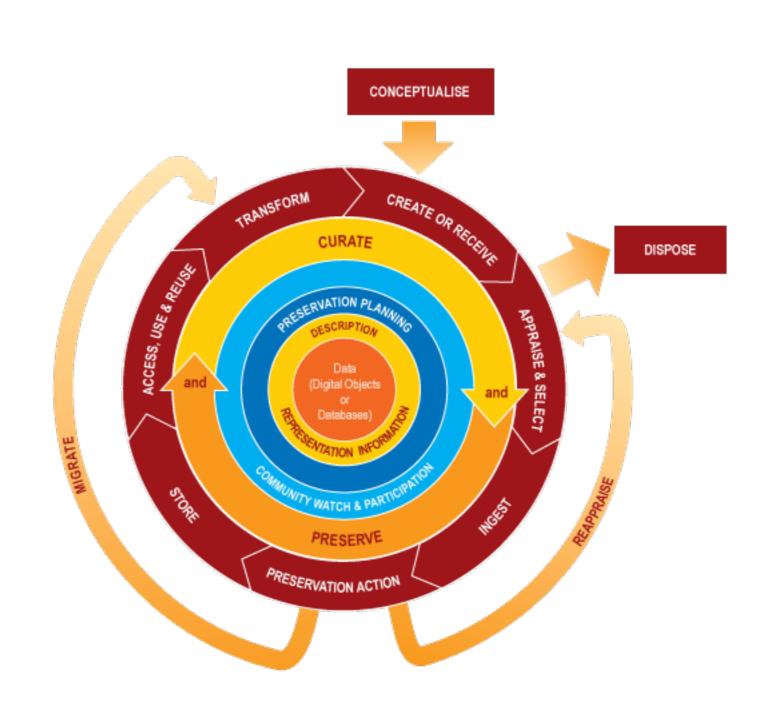
(a more interesting question!)

Data Curation

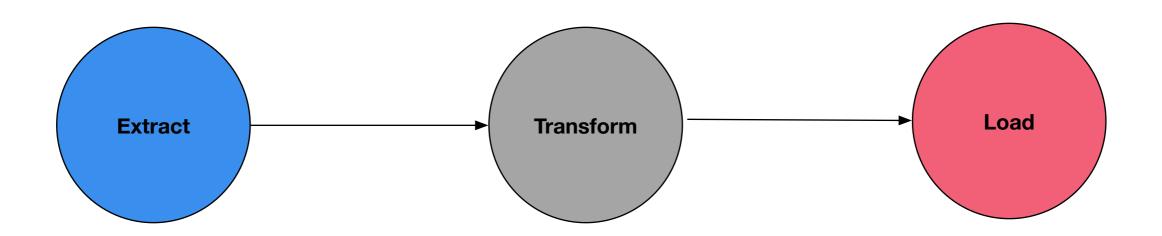
Old computer science saying "Garbage in = Garbage out"

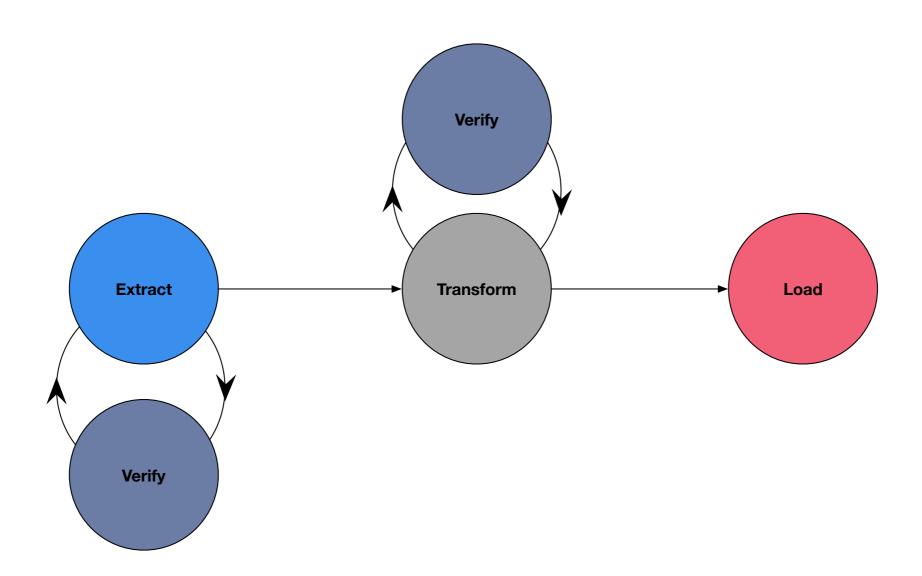


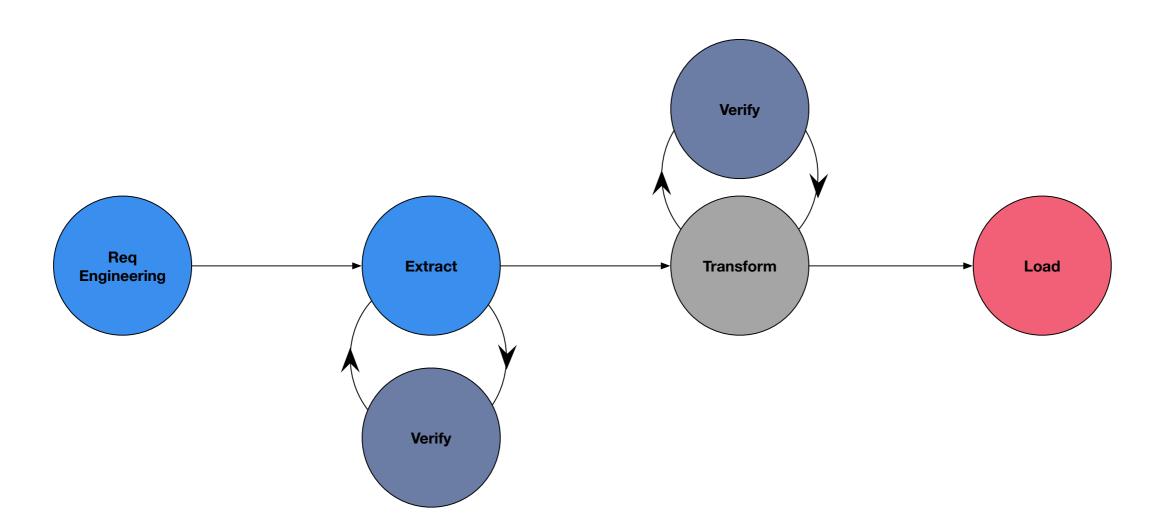
Data curation says "Quality in = Quality out"

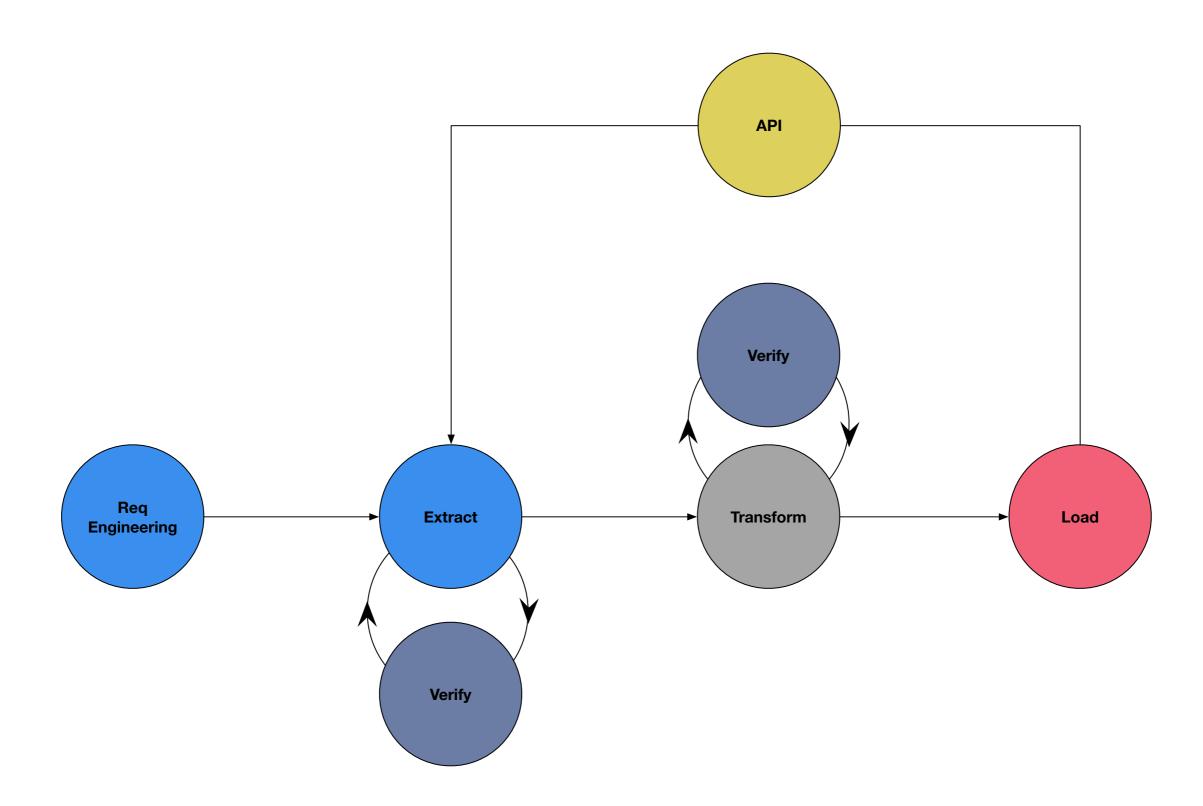


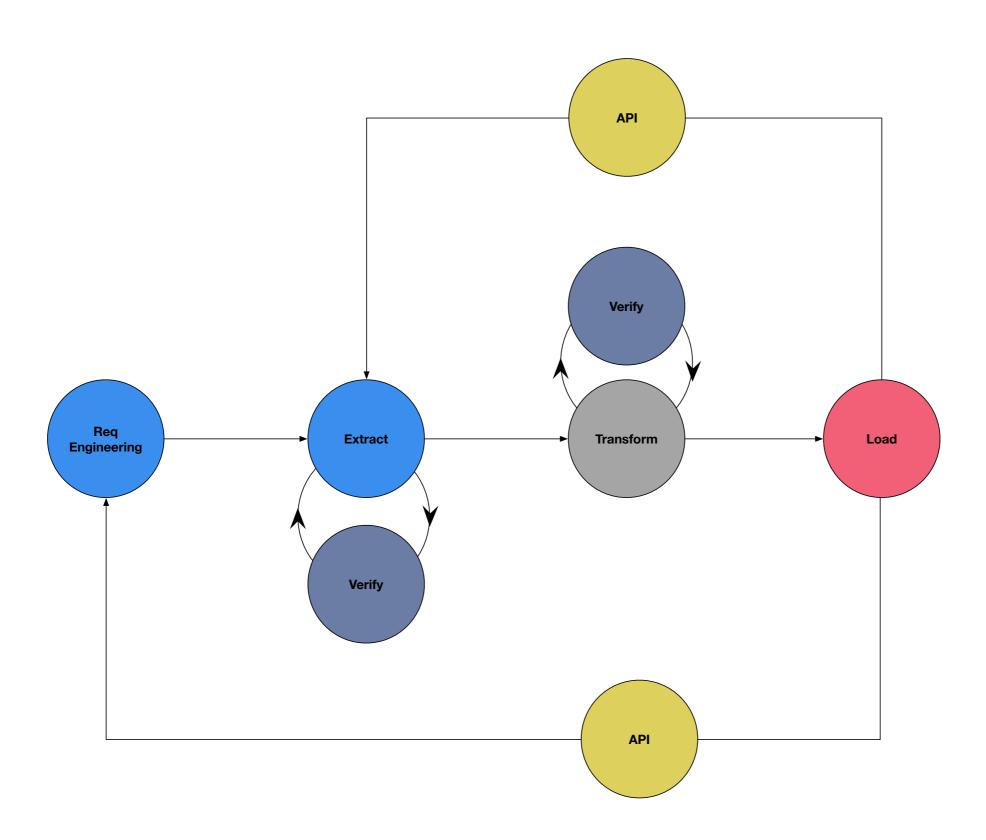
ETL: Simplest form of Curation Workflow











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What's Wrong with Open-Data Sites--and How We Can Fix Them

Vast amounts of useful information can be found on government Web sites, but it's often impossible to make sense of it

By César A. Hidalgo on May 2, 2016

Next Week:

Open + Fair Data

Guest Talk: David Doyle

Data Pitch

Git + Github Lab Activity