## Why scrape social media?

- What is social media?
- A consequence of the Web 2.0 movement toward interactivity on the internet
   "user generated content"
- What does user-generated content entail?

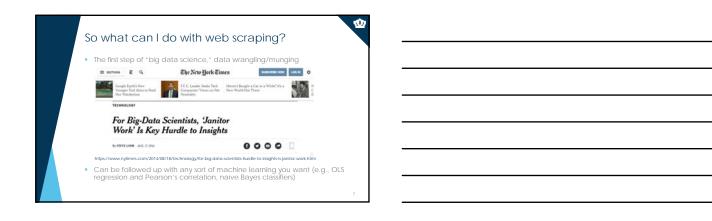
  - purposive data
     user profiles
     content
     incidental metadata (see Ghostery on <a href="http://abcnews.com">http://abcnews.com</a>)
    - trail of breadcrumbs
- So psychologically, what are social media data?
   behaviors, the products of person-situation interactions

### Examples of social media data

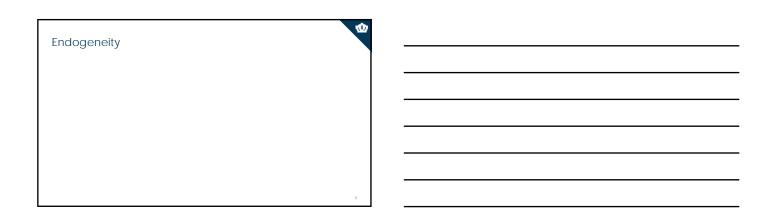
- - Pate: profile content, job history, education history, places of residences, pictures, picture captions, family relationships, feed posts, tags, photos, group memberships, likes, comments
  - Metadata: photo meta-data (e.g., locations), posting locations, post times, like meta-data (down the rabbit hole)

- Twitter
  Data: posts, photos, tags, retweets
  Metadata: posting locations, retweet and tag networks

  Teammendati
- Linkedin
  Data: job history, external endorsements, recommendations, self-specified accomplishments, interests, posts, comments
  Metadata: profile history, observation data
  Discussion Boards (e.g., Reddit)
  Data: post content, profile content
  Metadata: posting history, site awards



# Who does this generalize to? That depends. Landers, R. N. & Behrend, T. S. (2015). An inconvenient truth: Arbitrary distinctions between organizations, Mechanical Turk, and other convenience samples. Industrial and Organizational Psychology, 8, 142-164. Essentially all samples in I/O psychology are convenience samples, whether academic or practitioner research. The primary questions we need to ask of any convenience sample in relation to generalizability are: Omitted variables bias (endogeneity) Causes of relationships/effects that come from outside our data source Range restriction Constraints on representativeness that comes from outside our data source



# Ф Data Source Theories (and example RQs) Develop a list of your assumptions about the data sources you are considering related to: Data source theories are the core concept in theory-driven web scraping Data origin/population characteristics How are target constructs represented both visually and in code? Is there inconsistency in how target constructs are represented? • Who owns the data available on this website? Why would someone want to visit this website? Do data appear on only one type of webpage? How is user content created and captured? website? Why would a content creator want to contribute? What type of data do content creators provide? Do users pay to participate? Are creators restricted in the kind of content they can contribute? How much content available on each page? Is the content consistently available? Data Source Theories Imply Hypotheses Make predictions based upon what you think must be true to create a complete data source theory with testable hypotheses.

In traditional data collection, we have these same assumptions but they are generally difficult or impossible to test. Content validation is relatively easy.

RQ: How is political engagement represented in tweets?
H: Twitter posts containing the names of politicians represent political engagement.

# Common Assumptions About Social Media

- A huge variety of Facebook data and metadata are available about basically everyone in the United States.
- Unlimited information about everyone that has ever posted on Twitter is available.
- I can get full job histories about anyone on LinkedIn.
- I can get full job histories about anyone whose privacy settings allow it.
- We'll come back to this in the last section: