

MIS 0855 Spring 2015 – Data Science

Day 5 – Identifying Data Sources

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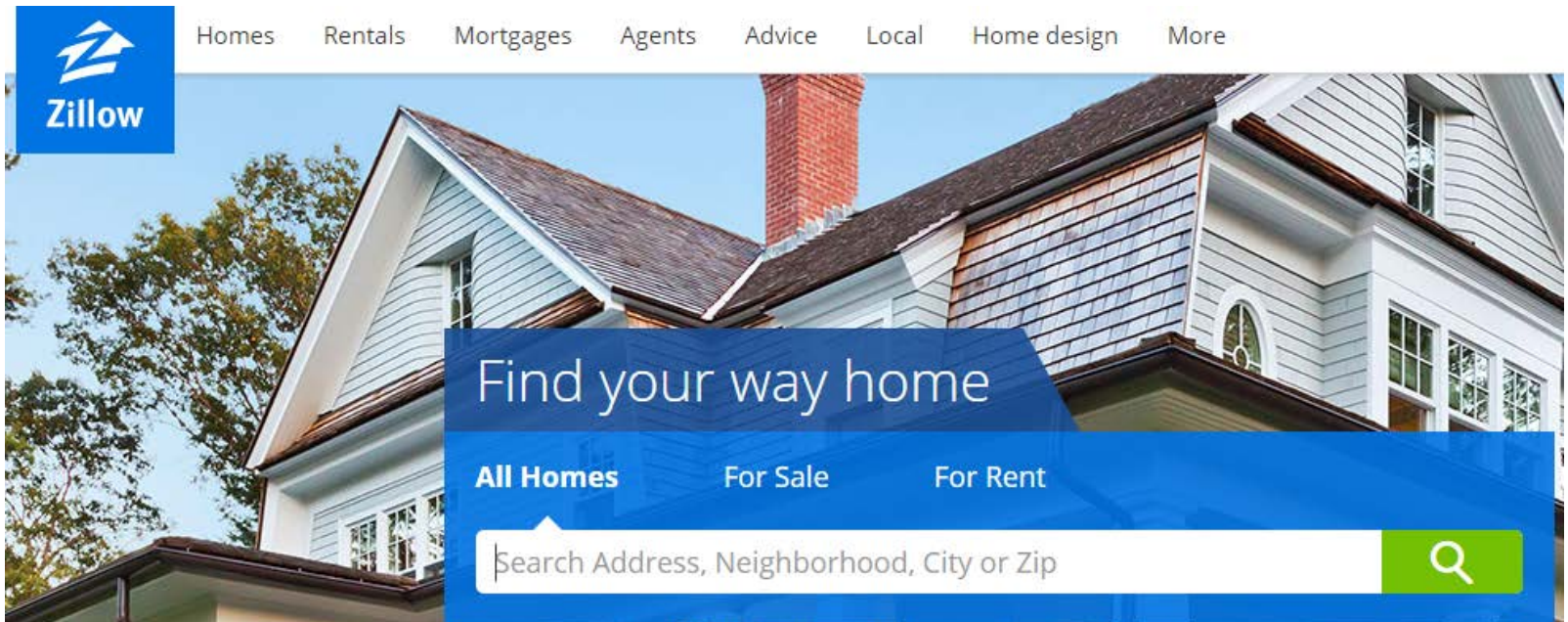
How to find data? (1/2)

- You have a decision to make.
- You have theory in mind and hypotheses to test.
- Where would you find data for it?



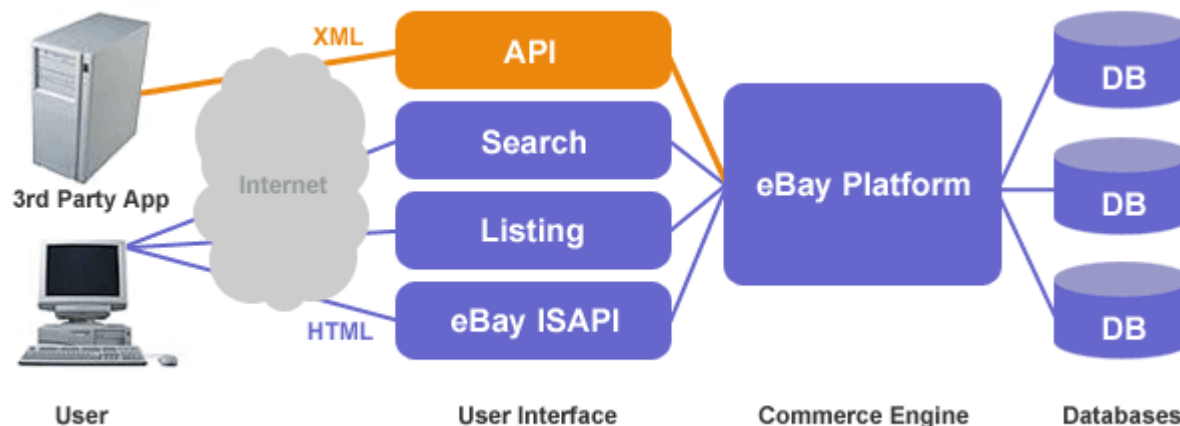
How to find data? (2/2)

- “Houses in Philly Neighborhood A are bigger than in Neighborhood B.”
- Where can you find data to test this hypothesis?



API – Application Programming Interface

- Software that exposes internal data to the outside world.
- People write programs that “talk” to the API so it will fetch data for them.
- Keeps people from accessing the data directly, keeping it safe.





Find tacos, cheap dinner, Max's

Near New York, NY



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Log In

The Joyce Theater



38 reviews

Details

Write a Review

Add Photo

Share

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Performing Arts Edit



175 8th Ave
New York, NY 10011
b/t 19th St & 18th St in Ch

Get Directions

ACE 14 St. and 2

(212) 691-9740

joyce.org

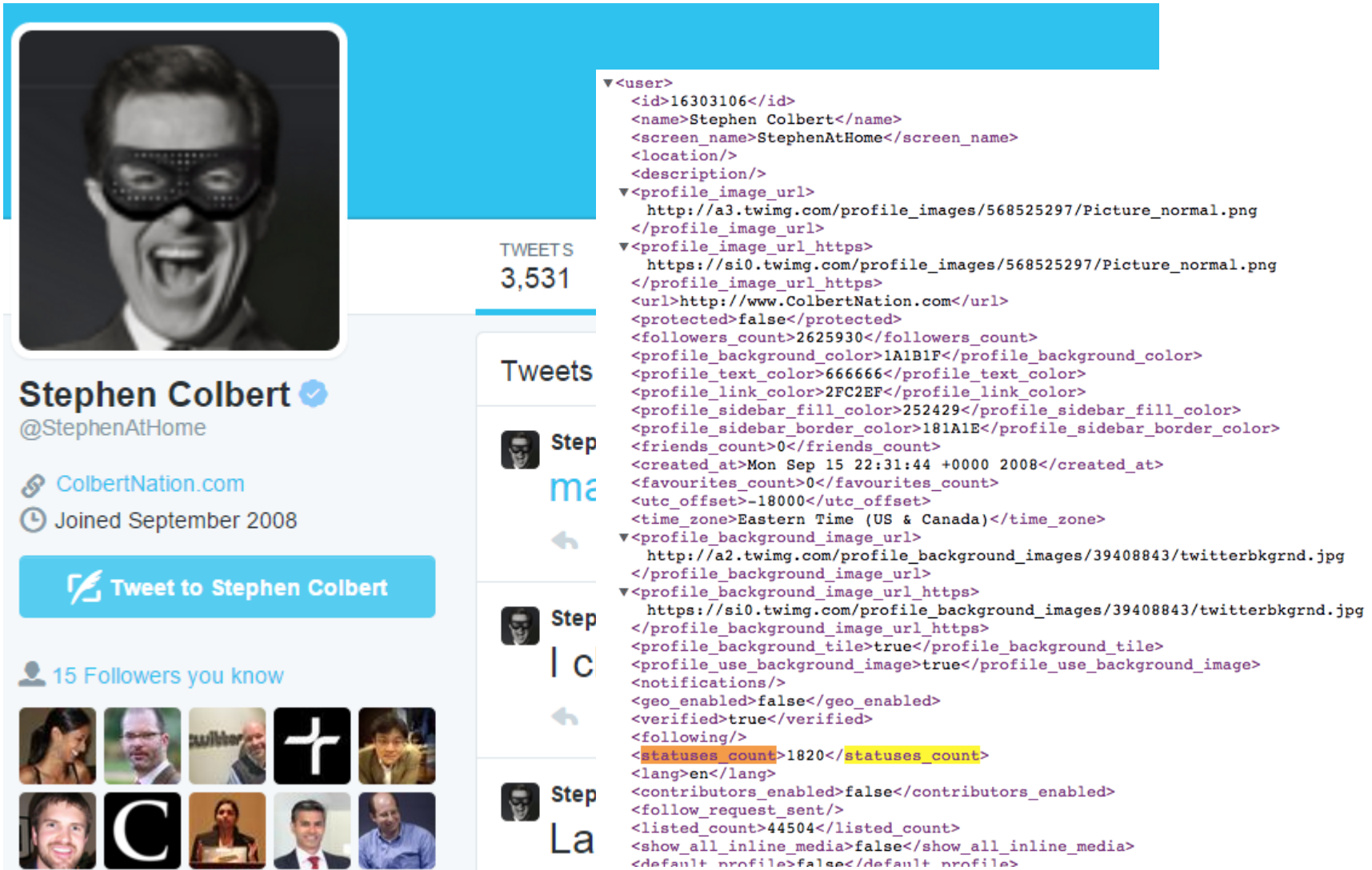
```

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<http://www.yelp.com/biz/the-joyce-theater-new-york-2>

<https://medium.com/@jmhinc/using-oauth-for-yelp-api-requests-1e286c83e72e>



The image shows a screenshot of Stephen Colbert's Twitter profile. On the left is his profile picture (a black and white photo of him wearing glasses and shouting). Below it is his name "Stephen Colbert" with a verified account icon, his handle "@StephenAtHome", his website "ColbertNation.com", and the text "Joined September 2008". A blue button says "Tweet to Stephen Colbert". Below that, it says "15 Followers you know" and shows a grid of follower avatars. On the right, there is a list of tweets, with the first one partially visible. A blue rectangular overlay is positioned at the top right of the profile, containing a JSON data dump of the user's profile information.

```

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  <screen_name>StephenAtHome</screen_name>
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  </profile_image_url>
  <profile_image_url_https>
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<https://twitter.com/StephenAtHome>
<http://ruby.bastardsbook.com/chapters/conclusion/>

Open Government Data

- A government is a collector, generator, and consumer of data.
 - What kind?
- Data from any government service and function is public assets.
- The Freedom of Information Act (FOIA)



<http://gsablogs.gsa.gov/innovation/2013/08/27/open-data-the-next-phase-in-the-technology-revolution/>



Open Government Data



Educate Citizens (pedagogy)

- Data visualisation
- Display governance process
- Infographics



Monitor Policies



- Communication strategies
- Dashboard
- Timelines

Consult Citizens

- Seek criticisms
- suggestions
- and ideas



Transparency

Open Government

Participation

Collaboration



Break down Silos and Pyramidal Structures

- Inside organisations
- Between organisations

Deliberate with Citizens

- Organise public debates



Work Horizontally

- Between organisations
- Through territories
- With:
 - Service design tools
 - Agile methodologies
- By:
 - Empowering citizens
 - Favoring cooperation



Co-Design Policies with Citizens



Organise Partnerships (inside/between)