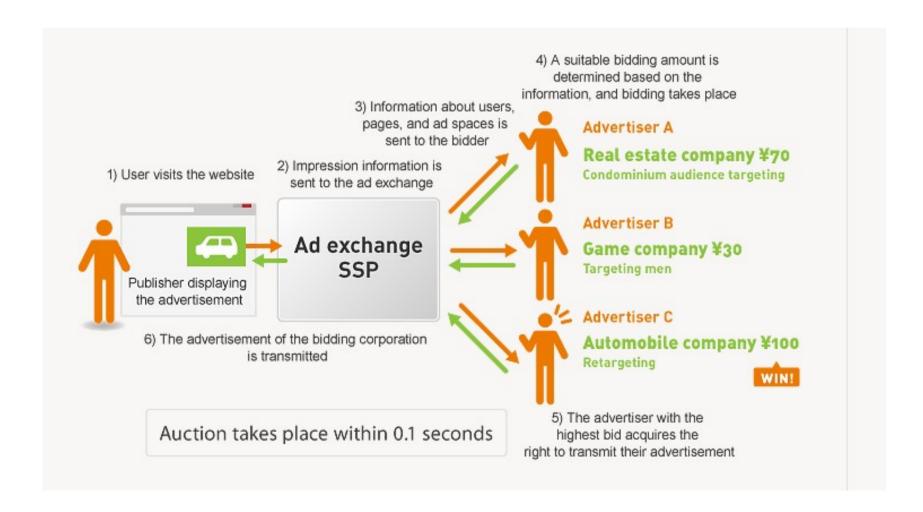
Defining Targeted in Targeted Digital Advertising



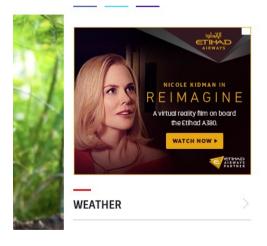


- Age
- Gender
- General Interests
- Current Purchase Intent



Buy Third Party Data





Develop Custom Analytics

The segments we buy:

- Limited Number of Segments
- Hard to sample from a segment
- Those companies do not have info for each and every user
- It adds cost to advertisement
- How do they know? Whose data to purchase?

Consistency within Dataset

 Is yesterday's male of 55 years old still male and over 55 today?

Comparison of datasets (from different data providers)

 Overlaps: how many new users each provider gives? How many users are in common? Do they belong to same segments?

Very !!!**EXPENSIVE**!!!





Not only you pay for data, everyone is after the same user at the ad placement auction.

Advertisement is not soccer!!!



Text Classification: **Defining Targeted in Targeted Digital Advertising**



- 1. http://www.bgames.com/shooting-games/
- 2. http://www.menshealth.com/fitness/best-lower-abs-exercise
- 3. http://www.bbc.com/news/world-us-canada-33559853
- 4. http://www.paulsmith.co.uk/uk-en/shop/mens/accessories/ties



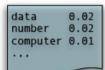
- 1. http://www.ahaparenting.com/parenting-tools/intelligent-creative-child
- 2. http://www.msmagazine.com
- 3. http://www.promgirl.com/shop/styles and trends/long
- 4. http://www.breastcancer.org

Topics

gene 0.04 dna 0.02 genetic 0.01

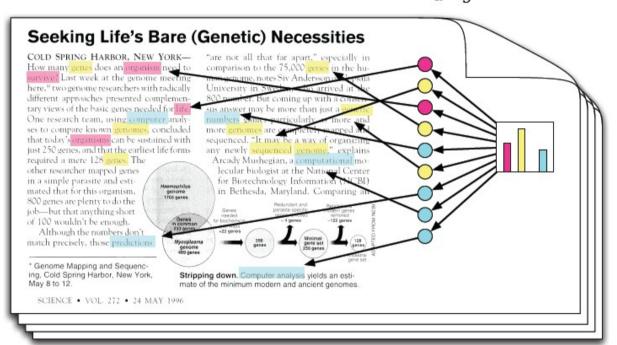
life	0.02
evolve	0.01
organism	0.01
200	_

0.04
0.02
0.01



Documents

Topic proportions and assignments



 The text classification itself is a BigData problem – quality depends on the amount of training data

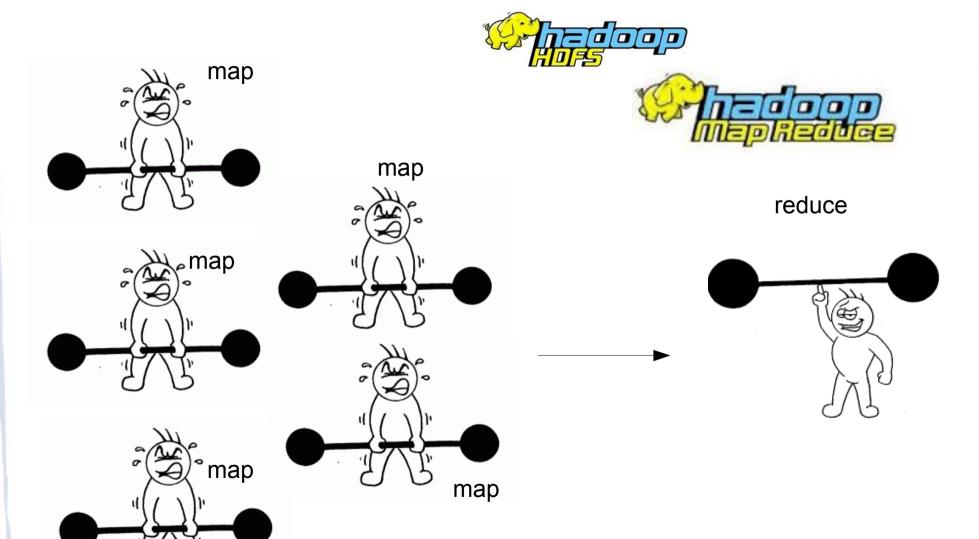
 User classification [after discovering what they read] is definitely a BigData problem. The amount of people who browse on-line is huge. So is the number of logs we have to process!!!

```
user_id, ts1, url1, ....

user_id, ts2, url2, ....

user_id, ts3, url3, ....
```

user_id, {ts1category1}, {ts2 category2}, {ts3 category3}, ...



- Store lots of data
- Look after a cluster of computers
- Support a number of services: Text
 Classification Service, User Labelling service,
 Segment Creation, Reporting

Results

- Ability to clearly define segments
- Ability to meaningfully decrease or increase the size of a segment
- Ability to build custom segments per advertisers's request
- Ability to provide better reporting to customers
- Not spending money on third party data