2014 Fall Summary

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Research Project 1

- Word co-occurrence model
- Label guidance regularization
- Working with Yanglei
- It is a new topic model to recover word-word co-occurrence. Try to obtain high coherence topic.
- Now, performance is not stable.
Yelp (K = 30, label 2 topics)

- **Topic 1:** dinner, sushi, tempura
  - sushi roll, sashimi, tempura, dinner, salmon, japanese, ordered, fish, happy hour, good, nigiri, tuna, sake, yellowtail, sushi bar, California roll, ve pieces, place, love, sushi place, hiro, miso soup, sushi chef, spicy tuna, great, eel, appetizer, sushi rolls, ra, edamame, spicy tuna roll, lunch, stingray, served, hamachi, time, menu, food, friendly, rice, make, hana, top, sushi restaurant, maki, sakana, scallops, amazing, prices, uni, don, including, enjoy, delicious, caterpillar, sushi and sashimi, nice, dish, back, started, toro, favorite, wasabi, yasu, salad, sumida, chef, thing, eat, roll, spicy tuna, fresh, salad, ordered, good, steak, chicken, delicious, served, appetizer, dish, side, sauce, mushrooms, salmon, grilled, cheese, love, tomato, entree, top, great, dinner, shrimp, favorite, pasta, plate, amazing, dressing, potato, perfect, started, roasted, scallops, fresh, tasty, bread, share, garlic, soup, special, excellent, flavor, enjoy, menu, taste, goat cheese, lobster, spinach, onion, meal, stuffed, mashed potatoes, mac and cheese, sandwich, dessert, green, beef, fish, fries, asparagus, nice, including, bacon, filet, olive, lamb, spicy, veggies, pesto, light, seafood, corn, hummus, tender, pepper, duck, meat, vegetables,
Research Project 2

Unstructured Review context to structured heterogeneous information network:
1. Use probabilistic graphical model to create dimensions
2. Apply structured network to the tasks people directly using bag-of-words
Demo Project

• TweetsNews: Led by Jingjing
• Develop the full stack excluding database of the website
• No snapshot: it is not aesthetic now...
Other stuff

• WWW 2015 review
• illimine
• Courses:
  – CS 446 Machine learning
  – CS 412 Data Mining
  – Data Mining Seminar, DIAS Seminar