

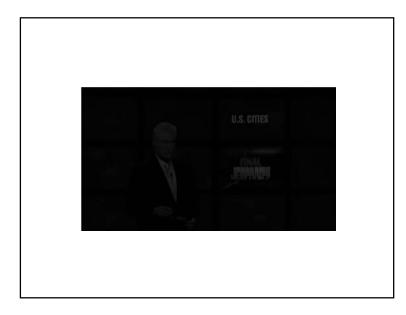
About the course

Three months ago...













Higher education interests

- Student engagement
 - Build awareness (advocate cognitive computing)
 - Provide contests & speakers.
- Skill development
 - Build skills pipeline, future leaders
 - Provide awards, competitions, curriculum development, faculty materials, internships.
- Research

Watson Competition

- Officially, the "Cognitive Computer Curriculum Competition" → aka "4C".
- 10 schools participating:
 - CMU, Northwestern, NYU, OSU, RPI, Stanford, University of California Berkeley, University of Michigan, University of Texas Austin
 - …aaaaand the University of Toronto ☺

Cognitive Computing

- Systems that learn + unstructured data
- Processes:
 - Understand natural language
 - Generate and evaluate hypotheses
 - Adapt and learn (and repeat)
- Characteristics:
 - Understanding, engaging, learning/improving, discovery, trust, insight, timely.

The Watson Competition

How Watson works

- Training (Watson Experience Manager)
 - Document uploading
 - Supported files: .txt, .html, .doc, .pdf
 - Corpus creation
 - Domain expert training
- Question Answering
 - Submit question text to Watson's QAAPI
 - (instructions in Getting Started Guide)

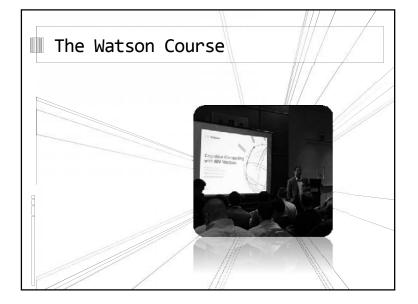
Things to know about Watson

- Watson is a black box.
- Passage-style answers.
- Single corpus for the class.
- Internally consistent corpus documents.
- No structured data.



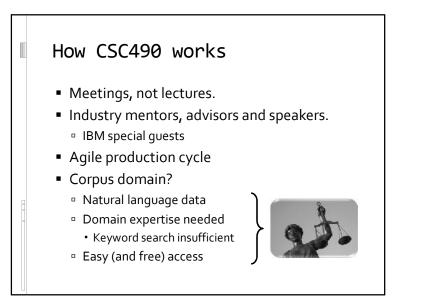
Watson competition

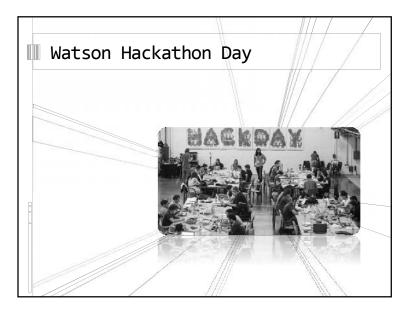
- Final competition: January 9, 2015
 - One team from each school
 - Held in 51 Astor Place (IBM New York office)
- Each school selects a single team
 - Competition based on both the team's product & business plan.
 - Panel is made of IBM execs and VCs.
 - See rubric for details.
- \$100,000 award for winning team.



Let's win us a contest.

- Course breakdown:
 - Crash course in Watson
 - Watson Hackathon (Experience Manager)
 - Corpus creation
 - Development milestones
 - Product Pitch
 - Project Design
 - Minimum Viable Product
 - Software Beta
 - Final Product
 - Project Showcase





Corpus Training Boot Camp

- Saturday, Sept 13
- 10am 2pm
- Learn how to:



a corpus.Execute queries on the trained corpus.

 Use the Watson Experience Manager to create and train

- Meet at Digital Innovation Lab space, 2nd floor of Gerstein Library.
 - Pizza provided (let us know dietary restrictions)

What to prepare

- CanLII website: <u>https://www.canlii.org/en/</u>
- Corpus training:
 - Group 1: Criminal Code
 - Group 2: Income Tax Act
 - Group 3: Canada Labour Code
 - Group 4: Constitution Act
 - Group 5: Highway Traffic Act
 - Group 6: Family Law Act
- End goal: Use QAAPI to return answers to queries on your domain.