Outline

• Project Background
• Project Goal
• Project Challenge
• Project Approach
Project Background

Pic viewed at 15/03/2015, from http://blogs-images.forbes.com/emc/files/2014/02/Big-Data1.jpg
Benefit from Big Data

• Commercial
  – Achieve competitive advantage
  – Increase profitability
  – Improve customer services

• Education
  – Questionnaires survey
Big Data issues

• Semantic Request

• Various Data Format
Semantic Request

Viewed at 15/05/2015, from http://assets.hightimes.com/obama-reschedule-marijuana.jpg
Semantic Request

Another Obama

About 400,000,000 results (0.33 seconds)

In the news

Ann Coulter: Obama, Holder Turned Ferguson Into 'Another 9/11'

Mediaite - 2 days ago

And as far as she's concerned, President Obama and Eric Holder are to blame for taking Michael Brown's death and turning it into "another ..."
Semantic Request

Another person called Obama

About 130,000,000 results (0.28 seconds)

Why calling another man 'bro' is not a compliment - Telegraph
www.telegraph.co.uk › Men › Thinking Man
Jan 6, 2015 - David Cameron is happy to admit that Barack Obama calls him 'bro' – but men use overfamiliar words because they're not allowed to fight each ...

Another tape surfaces of ObamaCare architect calling ...
www.foxnews.com/.../another-tape-surfaces-obamacare-architect-calling-...-
Nov 12, 2014 - ObamaCare architect Jonathan Gruber apparently doesn't think much of the intelligence of the American people. A new tape has surfaced ...
Semantic Request

Google

Dear Mr page, you don't understand me. I just...

Web Videos News Images Shopping

About 2,800,000 results (0.31 seconds)

Dear Mister Jesus
achievebalance.com/data/songs/dearmrjesus.htm
Dear Mr. Jesus. Dear Mr. Jesus I just had to write to you. ..
Dear Mr. Jesus I don't understand ... And please don't tell
hits me too. (Chorus) ... Top 5 Pages over last 30 days: Chr
Data Format

• Different type: JSON, XML, RDF, Spreadsheets, CSV, etc.

• Consequence: Hard to communicate with each other
Solution: Semantic Web

Project Goal

• Goal: develop a RDF graph visualization system of Semantic Web for better user interaction
Project Challenge

- Dynamic update & expire
- Require real-time demonstrate
- High efficient algorithm
Project Approach

• Dynamic algorithm
  – Algorithms for pattern matching, graph traversal and graph reachability

• Graphic algorithm
  – Saha et al. and Thor et al. algorithms
Thanks

Any Questions?