ReactionBot

Andrew C. Russell
Luke Sedney
Renan Greca

Introduction

- Finds a reaction GIF to respond to a Reddit thread
- ◆ Gathers data from reactiongifs.com URLs and tags of GIFs
- Classifies Reddit threads using a training set and finds a GIF with tags related to the main topic(s)

The Problem

- Must be able to extract main topic or topics of discussion in a thread

The Solution

- ▲ Latent Dirichlet Allocation (LDA)!
- Our training set is created by using LDA on several Reddit threads, treated as a single large document
- Separates data into topics and weighs words based on how relevant they are to those topics
- We used gensim Python library for LDA implementation

Implementation

- ♦ Obtain (2 –day) old threads for training
- Construct an LDA model (10 passes)
- Sort topics by weight, then find topics associated with the best topic
- Post relevant and random GIFs
- **♦** Evaluate

The Results

- http://www.reddit.com/r/funny/comments/1t9r8k/ university_sells_meth_to_students/ce66pqi?context=3 (relevant)
- http://www.reddit.com/r/funny/comments/1taxwe/ so my brother decided to announce that he was gay/ ce69a5o (random)
- http://www.reddit.com/r/funny/comments/1tb0nm/ and of course scumbag brain does it every time/ ce69yno?context=3 (relevant)

Questions?