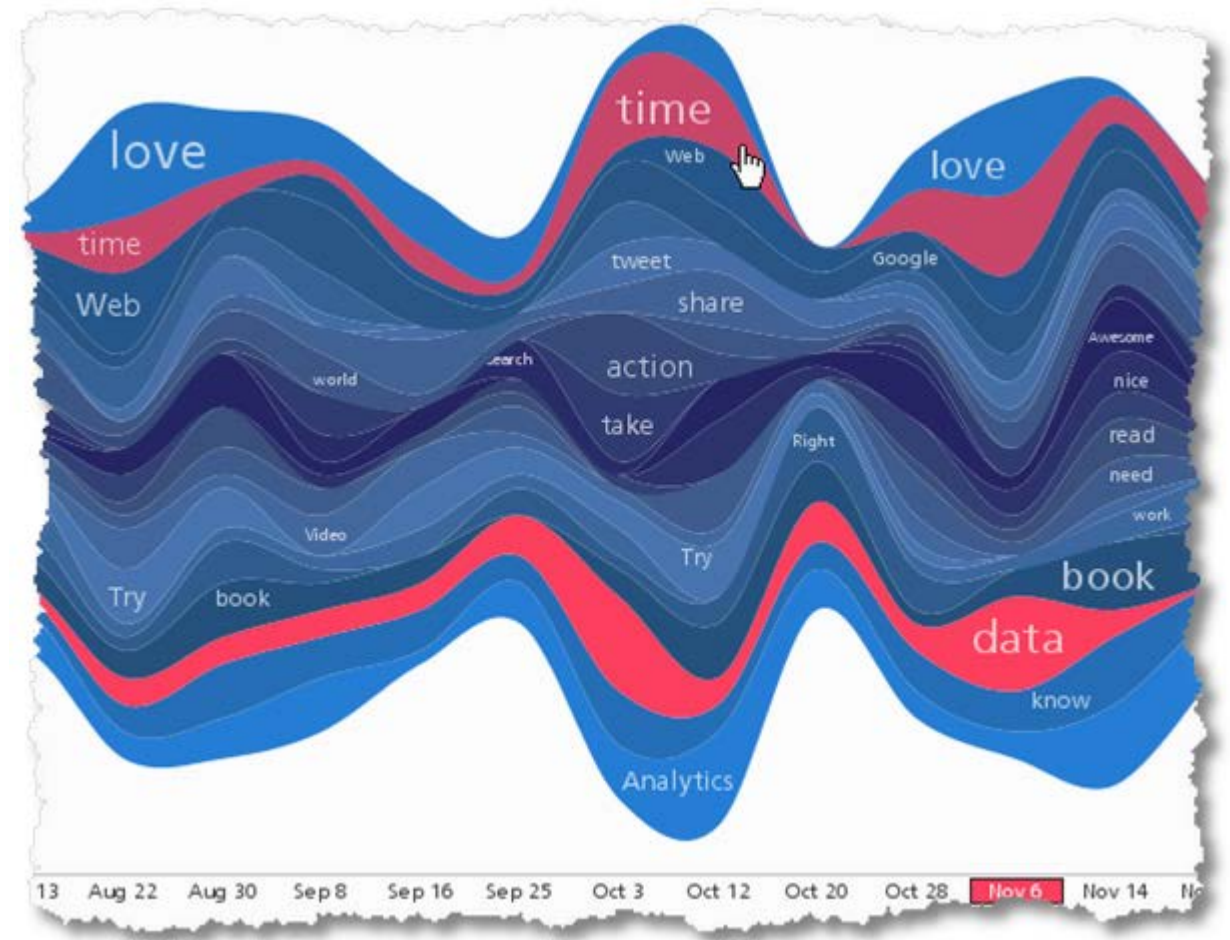


# W205 Spring 2016 – Exercise #2

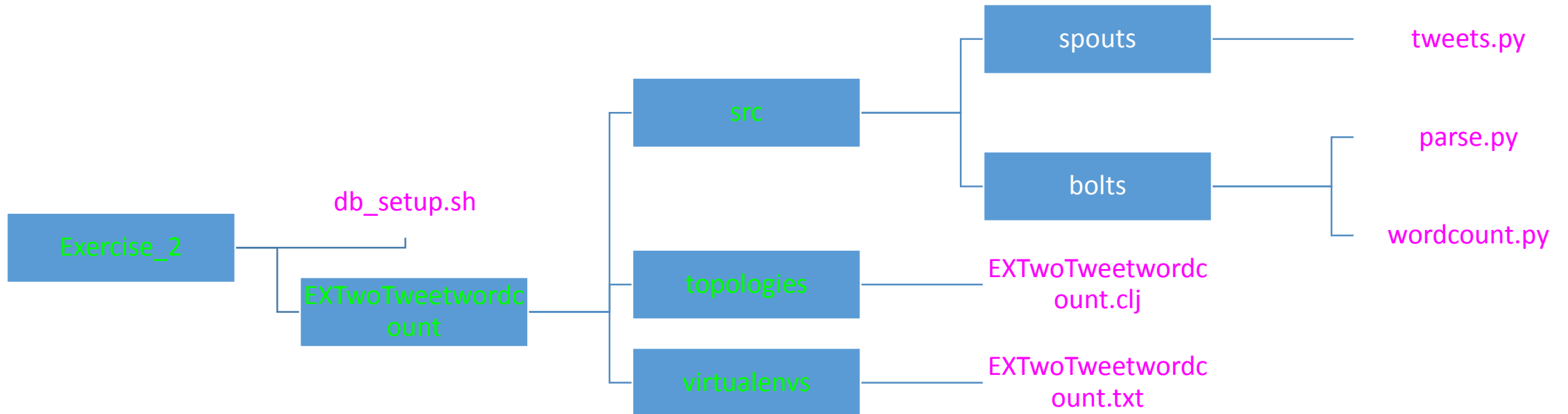
Beth Partridge

# Application Idea

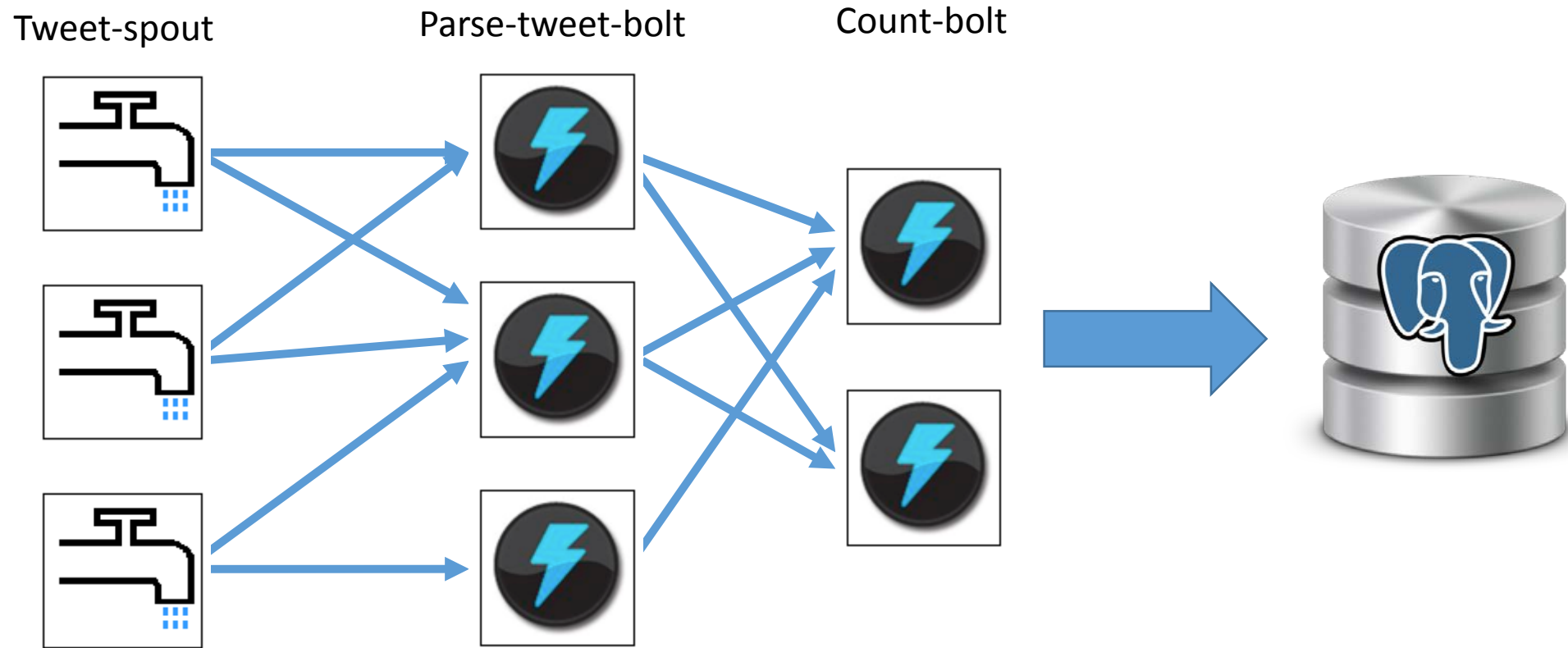
- Capture and analyze live Twitter data for a deeper understanding of social trends and demands using Apache Storm
- Use Tweepy library to read the live Twitter stream
- Parse the stream down to individual ascii words
- Store and update cumulative word counts in a Postgres database



# Directory & File Structure



# Architecture Block Diagram



## Assumptions & Dependencies

- Assumptions
  - Python 2.7
  - PostgreSQL 8.4.20
- Required packages:
  - Tweepy
  - Psycopg2
  - Streamparse
  - Matplotlib
  - Re
- Other
  - Twitter application and credentials



## Instructions to Run Application

1. Launch AWS EC2 instance using UCB W205 Spring Ex 2 Image (ami-4cf9f826)
2. Change to python 2.7 environment: `source /opt/py27environment/bin/activate`
3. Attach a volume already prepared from previous labs and exercises
4. Clone or copy submitted Exercise\_2 repository from Github
5. Change to Exercise\_2 directory: `cd Exercise_2`
6. Make the db\_setup script executable: `chmod a+x db_setup.sh`
7. Execute the setup script: `bash db_setup.sh`
8. Change to the EXTwoTweetwordcount directory: `cd EXTwoTweetwordcount`
9. Run the application: `sparse run`
10. When you see a word count reach 10 stop the application with `^C`
11. Run finalresults.py with no argument: `python finalresults.py`
12. Run finalresults.py with a common word argument: `python finalresults.py the`
13. Run histogram.py to see all the words with counts between 6-10: `python histogram.py 6,10`