



kafka twitter spout = consumes the twitter_topic.

twitter filter bolt = Ignores languages not included the predefined set of languages.

Interval aggregator bolt = perform a rolling count of incoming words/topics (multiple instances).

Intermediate trending calculator bolt = pre-aggregating the various incoming rolling counts into intermediate rankings. (multiple instances).

Total trending calculator bolt = aggregates the incoming intermediate rankings into a global, consolidated total ranking.

Output generator bolt = generates the total ranking and save it into an output file. Output file: lang_ID.log