# Group Charlie Multi-Lingual SMS

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- Sub-problem: Machine translation is not feasible for minority languages with little economic value. As a result of this, translation was taken to be an expensive task.
- ▶ Problem we're trying to solve: allow for easy detection of opinion trends in such data, despite it being in several languages.

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- ▶ Allow for identification of the language that a message was written in.
- ► Allow for 'cleaning up' of the data by removing names, txt-speak and other slang.

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Viewing 'modes' implemented:

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A data manipulation page has also been added.



#### Word Cloud

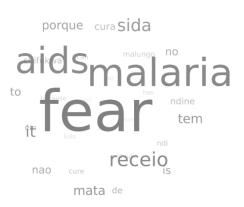


Figure: Word cloud — useful for viewing major keywords/concerns

#### Pie Chart



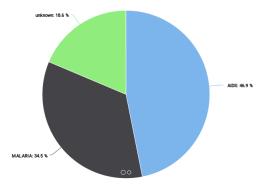


Figure: Pie chart — useful for viewing major opinions

# Bar Graph

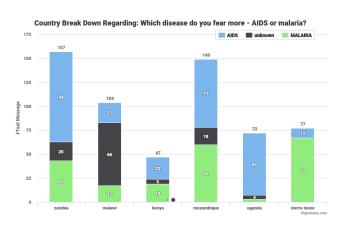


Figure: Bar graph — allows for breakdown by country

#### Table View



Figure: Table view — used to view individual SMS messages

## Data Manipulation



Figure: Data manipulation — used to modify/correct data

#### Technical details

#### Lessons learned

▶ I hate SWEng

# Thanks for listening!