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# Providing Continuity to Interweaving Conversations (?)

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## What The System Does

### More Focus

To create a program that will enable members of a group to easily focus on topics that interest them



### More Efficient

Different subjects will be automatically filtered into separate group subjects

### More Fun

Group chats with filtered topics will allow for more fluid and engaging conversations



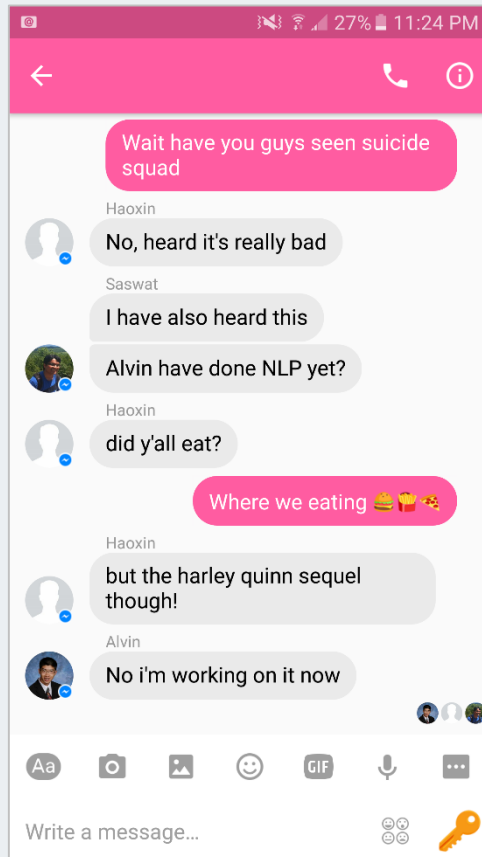
## The Motivation

Currently, many online instant messaging users are members of large group chats with friends



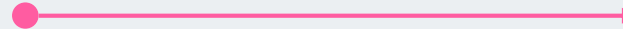
## The Problem

Large group chats often lead to simultaneous chat topics, making it too chaotic and disorganized



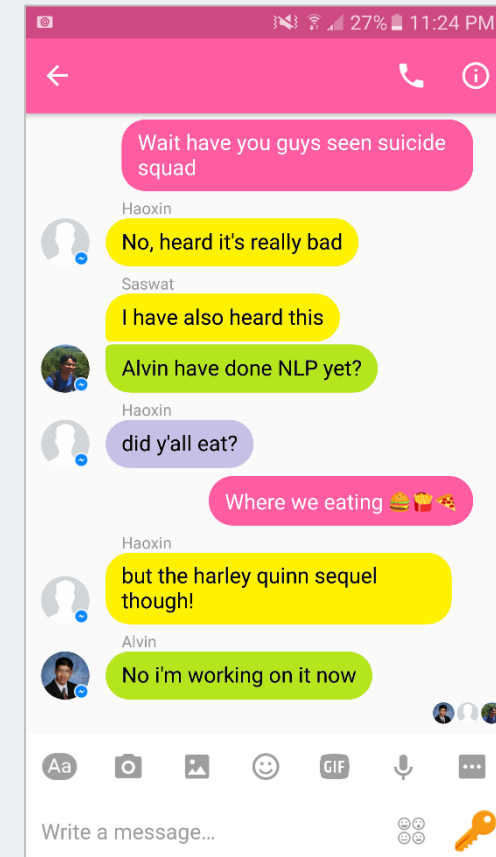
## Input

Group conversations  
with multiple users and  
participants talking  
about various subjects



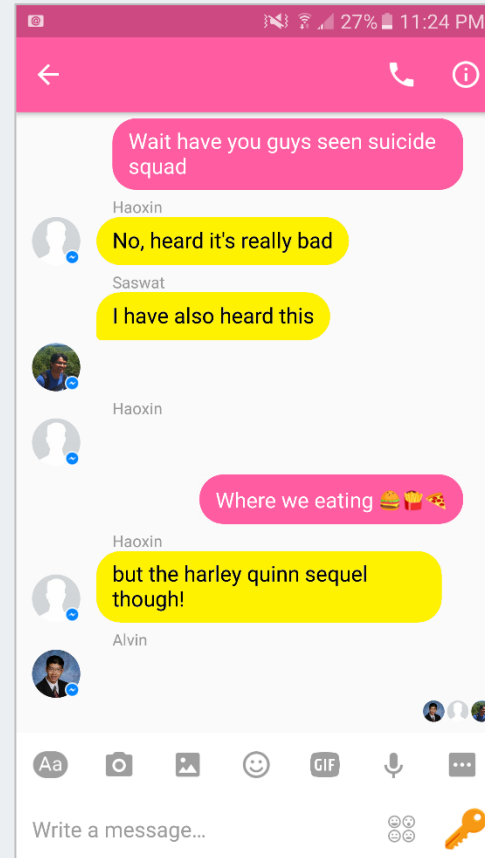
## Output

The same conversation  
with color coded tags  
that map to varying  
topics and subjects



## Subject Filter

User could choose option of filtering out irrelevant topics so they only see their desired interest



## System Architecture

- Part of speech tagger
- Stanford CoreNLP
- Subject extraction
- Co-reference resolution



## Procedure

Utilize a part-of-speech tagger to extract keywords and identify repetitions to figure out a common subject between different sentences



Task	Target Completion Date
1. Setting up PoS tagger and data collection	10/11/16
2. Subject Extraction research	10/27/16
3. Automatic extractor or Manual database	11/8/16
4. Simple Coreference Resolution	11/16/16
5. Coreference resolution between multiple subjects	11/28/16
6. Combining separate subject extractor and coreference engine	12/6/16