Problem Statement
- Create a tool to aid with disaster management

Data Sources
- English News Sources
- Chinese News Sources

Plan
- Create Chinese Dictionary for Flooding
- Extend Flood Algorithm to work for Chinese Data Sources
- Extract 5W1H content for Flood Articles
- Create visualisations of Flood Articles
ENGLISH

**THE ALGORITHM**

- **SFW** - Specific Flooding Words
- **GW** - Generic Disaster Words
- **FW** - Flooding Words

**START**

- Read Article

**Does it contain SFW?**

- **YES**
  - Does it contain “Flood”?
    - **YES**
      - Does it contain a proportion of GW/FW?
        - **YES**
          - TRUE
        - **NO**
          - FALSE
    - **NO**
      - FALSE

**CHINESE**

**START**

- term in title || content

**Flood Dic**

**Get Articles from DB via ES**

**Observe Result**

- Get When
- Get Where
- Get Why
- Get Who
- Get How
- Get What

**Calculate Relatedness**

**Sort Articles As Relatedness**

**Output JSON**

**Stanford NER**

**Generic Dic**
Main Contributions/Achievements
- Flood Dictionary & Algorithm (Cross Languages)
- Extendable Toolkit to generate 5W1H for Floods
- Prototype Dashboard (Cross Language)
- Visualisations to improve accuracy
- WE HAD FUN!

Problems
- NLP methods can differ across languages
- Eliciting nuances of terms in everyday use in both languages
- Different structure and volume of articles

Future Development
- Further accuracy testing of different thresholds for algorithm (using visualisations for aid)
- Extend Algorithm to extract more disasters / all languages
- Extend Dashboard Interaction
- Complete and enhance 5W1H

CONCLUSIONS
https://github.com/wukan2014/disaster