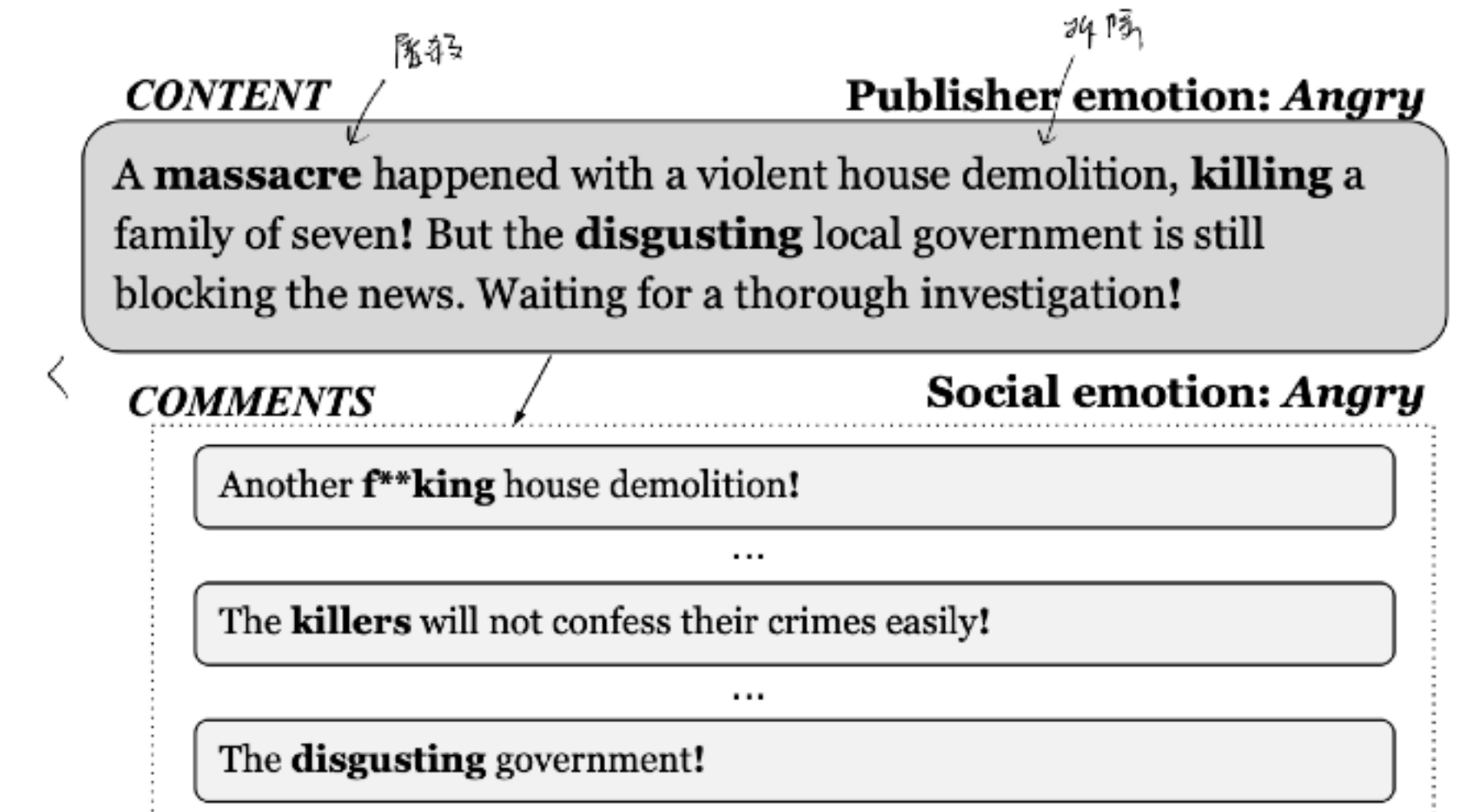


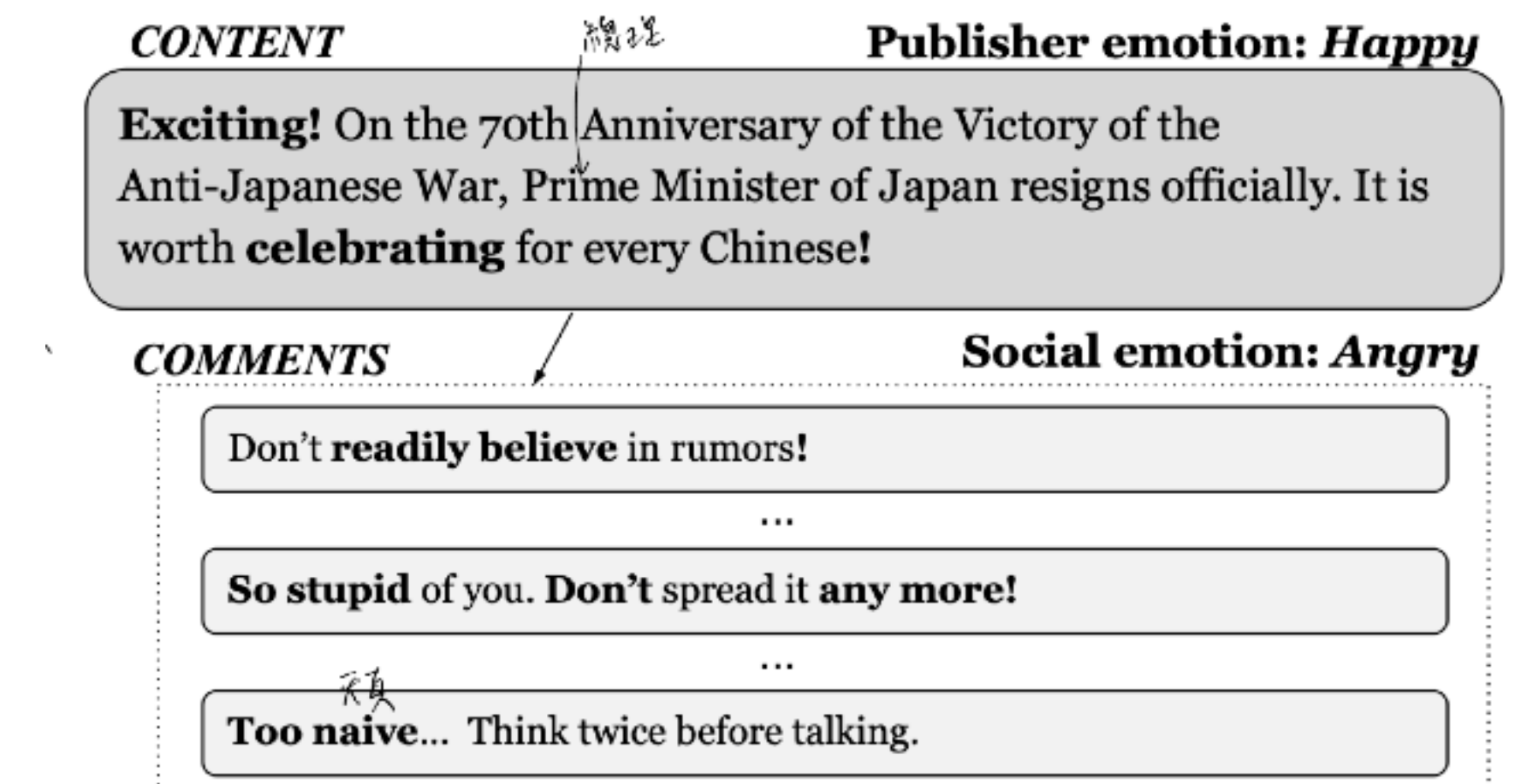
# Introduction

## Dual emotion appearances

- Emotion **resonances**
  - Publisher emotion is **same or similar** to social emotion.
- Emotion **dissonances**
  - Publisher emotion is **different** from the social emotion.
- The data observation statistical findings highlight that the relationship in dual emotion can be **indicative of the news veracity** and should be considered when modeling.



(a) Emotion resonance in a fake news piece: the *publisher emotion* and *social emotion* are both *angry*.



(b) Emotion dissonance in a fake news piece: the *publisher emotion* is *happy* while the *social emotion* is *angry*.

# Introduction

## Dual Emotion Features

- To model the **dual emotion** and **emotion resonances** and **dissonances** for fake news detection.
- Proposed *Dual Emotion Features* to represent publisher emotions, social emotion and the similarity and difference of the dual emotion jointly.
- Besides, it's **convenient to implement and plug** the features into existing fake news detectors as an enhancement.