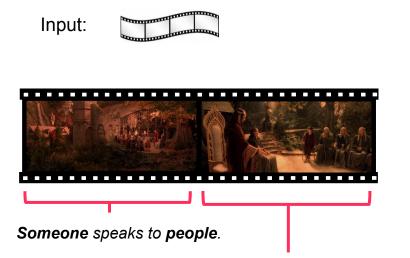
"Someone walks in front of people"





Someone walks in front of people.

Applications

- video indexing, navigation and retrieval
- automatic search
- human-robot interaction
- ...

Challenges

- Open domain
- Diverse set of objects, actions and scenes
- Interaction of different objects
- Fine motion details
- Lack of context





Someone walks in front of people.

Input: +

Elrond addresses the council.

Enriching Video Captions With Contextual Text

Philipp Rimle, Pelin Dogan-Schönberger, Markus Gross





Presentation Overview

- Dataset
 - LSMDC-Context
 - News Video
- Model Overview
- Results

Dataset

LSMDC

- Video clips from 202 movies (118k / 4.8s)
- Audio Descriptions (AD) & movie script sentences as ground-truth captions

LSMDC-Context

- Augment sub-split with movie script as context and AD-captions / movie script sentences as ground-truth
- Movie subtitles used for alignment
- AD-Captions with Context (23 movies / 14k clips)
- Script-Captions with Context (26 movies / 18k clips)





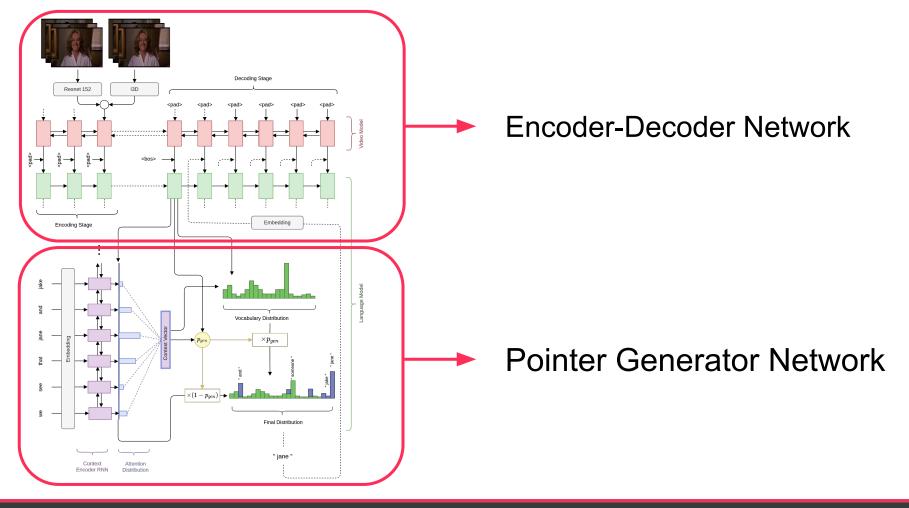
Dataset

- News video (KaVD)
 - News videos from the AFP YouTube channel
 - Descriptions as ground-truth captions
 - Topically related news documents as context
 - 2.8k video clips (avg. duration of 52.5s)

Approach







Examples & Results

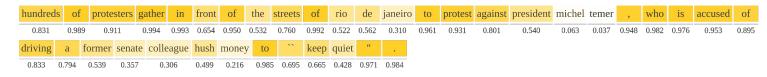






former senate colleague hush money. temer told reporters he will not resign shortly after state-run news agency agencia brasil reported the news of the supreme court inquiry. during a brief statement from planalto presidential palace, temer said he "never authorized payments to anyone to stay quiet." the prominent daily newspaper o globo reported on date that a meat producer had recorded the president giving the go-ahead to bribe cunha to "keep quiet." while he was in jail. temer 's office released a statement denying that he had authorized any bribes to be paid to imprisoned former house speaker eduardo cunha in exchange for his silence regarding a long-running corruption investigation temer, #, said he will fight to prove his innocence. "i know what i did, and i know my actions were right," he said. "i demand a full and quick investigation to clear up (the situation) for the brazilian people." according to the o globo report, the information was revealed when the owners of the meat and chicken conglomerate jbs testified before the supreme court behind closed doors as part of a massive corruption investigation, dubbed "operation car wash," which implicates former and current politicians. the corruption probe has led to the imprisonment of some of brazil 's most prominent politicians and business owners. more than # people have been charged with bribery and money laundering during operation car wash. crowds gathered date evening near rio de janeiro s candelaria church, in the city center, carrying signs and flags demanding temer 's ouster. riot police surrounded the crowd, which filled several city blocks as night fell, some protesters threw molotov cocktails at police, who fired tear gas into the crowd, there were no immediate reports of injuries. outside the presidential palace, in brasilia, dozens of people also gathered with signs and noisemakers accusing temer of plotting a coup against former president dilma rousseff. the latest political crisis comes as temer experiences a sharp popularity drop, accordin

Prediction



Article Only

brazil 's highest court has ordered the resignation of president michel temer, who is accused of driving a former senate colleague hush money to the country.

Reference

hundreds of protesters block sao paulo's iconic paulista avenue calling for the impeachment of president michel temer after a leaked conversation suggested he wanted to pay a bribe to cover up alleged corruption.



Conclusion

- Video captioning model which can handle additional context
 - mine relevant knowledge (names, locations,...)
 - directly operate on text data (not additional steps or tools)
- New subsplits of LSMDC dataset
 - augmented with movie script scenes as context

Competitive results on News Video dataset

"Frodo walks towards the stone plinth"

