

What is *Jujeop*?

Comment has a **sense of humor** by praising K-pop stars with exaggerations and flashy modifiers.

Jujeop types



Type1. Fragmenting words to create a twist

👍❤️ 언니. 왜 맨날 똑같은 티만 입어? 프리티!
 Sis, Why do you always wear the same Tee? pretTee!

Type2. Homophones and Homographs

👍❤️ 너 영어이름을 조지 부시로 해줘...
 내 마음을 조지고 부시니까.
 Change your English name to **George Bush**...
 because you **beat and break** my heart.

Type3. Repetition

👍❤️ 그만 보고 싶다. 그만 보고 싶다.
 I want to stop seeing. I want to stop seeing.

Type4. Nonsense

👍❤️ 언니 사실 혼혈이라면서요, 한국과 천국
 Sis, I heard you're **Mixture. Korean** and **Heaven**.

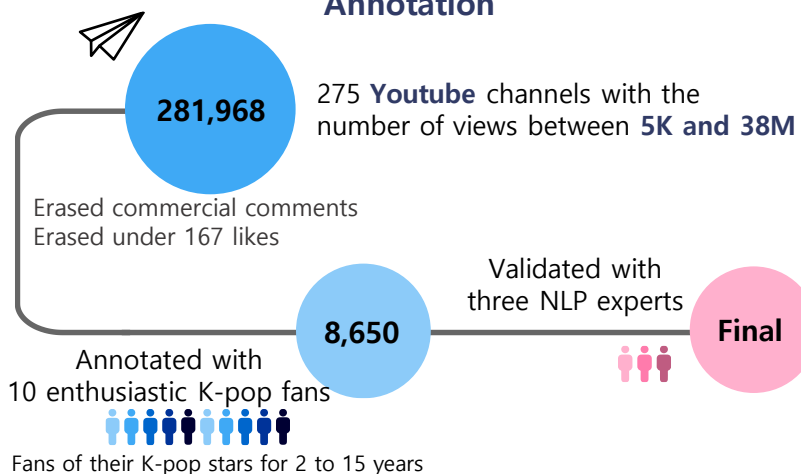
🔊 Visit our Github Page

Dataset and more examples of each type are publicly available. Baseline codes for experiments are released.



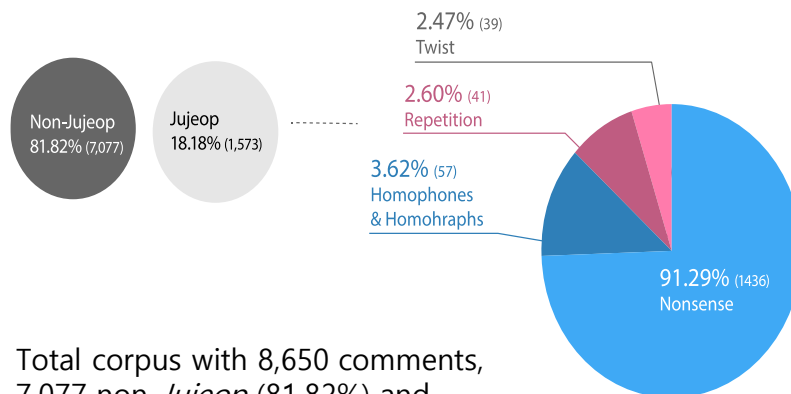
<https://github.com/merry555/Jujeop>

Annotation



Krippendorff's α on four types of *Jujeop* comments **0.532**

Corpus Statistics



Total corpus with 8,650 comments, 7,077 non-*Jujeop* (81.82%) and 1,573 *Jujeop* (18.18%).

Within *Jujeop* comments, each type of the *Jujeop* comment is as described in the pie chart.

Experiments

Classification

Jujeop classification

- Binary classification for non-*Jujeop* VS *Jujeop*

Jujeop type classification

- Multi-class classification for *Jujeop* types

F1-score	<i>Jujeop</i> (2-ary)	<i>Jujeop</i> type (4-ary)
CNN	67.94%	62.63%
BiLSTM	69.91%	56.96%
KoBERT	72.91%	77.18%

Clustering

Confusion matrix of k-means clustering with part-of-speech tagged *Jujeop* comments

	Type 1	Type 2	Type3	Type 4
Type 1	1	4	9	9
Type 2	13	34	10	18
Type 3	23	17	20	18
Type 4	2	2	2	5

Future Work



Building class balanced dataset with given definition by

- a crowdsourcing experiment
- a sentence generation by deep learning approaches