



Assignment 4

Role Labeling

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Task Specification

Annotate the emotion-cause corpus, determining the emotion (*Ekman 6 emotions*) and subsets of roles (stimulus, experiencer, cue, target) which are present in each sentence. In case a sentence expresses more than one emotion, label it as mixed



Annotation environment

	A	B	C	D	E	
1	Tweet	Experiencer	Target	Stimulus	Cue	Emotion
2	` Oh , for God 's sake , " Jack said with an embarrassed laugh .	Jack		Oh , for God 's sake	embarrassed laugh	disgust
3	Bank customers are notoriously slow to shift their business , even if they are miff		Bank customers	slow to shift their business	miffed	anger
4	And you feel anxious about getting the first lot of seeds sown out	you		seeds sown out of doors	anxious	fear
5	The waitress returns , now indignant with her boss for his bought	waitress	her boss	bought-and-paid-for apathy	indignant	anger
6	Out of breath , and furious to note that he was n't even panting ,	she	he, him	he was n't even panting	furious	anger
7	But some of the younger dons were ecstatic about the election .	some of the younger dons		about the election	ecstatic	joy
8	Benedict was on his feet , overturning his chair in one violent gest	Benedict	Theda		livid fury	anger
9	Irishman Mr MacSharry was so furious about Mr Delors ' interfere	Mr MacSharry	Mr Delors	interference	furious	anger
10	She gave him a startled glance .	She	him		startled	surprise
11	For the first time , Coffin saw the signs of grief on Christopher Co	Christopher Co	Coffin		grief	sadness
12	The kids were mortified but I thought it was a real hoot . "	I	Kids			joy



Subset role definitions

- Experiencer is the one who is described to feel the emotion
- Target is someone or something an emotion is directed to
- Stimulus is an event causing an emotion
- Emotion cue is an emotion evoked by stimulus.
 - Words which give indication of a particular emotion.



Inter-annotator agreement

- F1 (micro average) by taking one annotator as gold.
- Partial match counted as TP.



Results

- Good agreement for experiencer and stimulus.
- Substantial agreement for cue and target.
- Lowest agreement for emotion.

Role	F1(micro)
emotion	0.7
cue	0.76
stimulus	0.83
experiencer	0.86
target	0.76



Analysis

- Annotator 2 annotates mixed emotion more than Annotator 1.
- Annotator 2 assigns mixed when annotator 1 assign disgust, anger or fear.

	disgust	anger	fear	joy	surprise	sadness	mixed
Annotator 1	2	11	3	5	1	6	2
Annotator 2	0	7	1	4	1	8	9



Thank you for listening!