

# BeSt: The Belief and Sentiment Corpus

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## Goals of Corpus

- ◆ BeSt annotates source and target belief and sentiment:
  - Who believes what with what level of commitment?
  - Who has what sentiment towards what?
- ◆ BeSt annotates naturally occurring texts
  - Newswire
  - Discussion forums
- ◆ The annotatables are given by the prior ERE annotation
- ◆ Annotation is carried out by trained annotators
- ◆ Annotation is from the point of view of the author
  - What does her language use tell us about her cognitive state, and her model of others' cognitive state?
- ◆ Annotators use the whole text, but not world knowledge, to deduce this cognitive state.

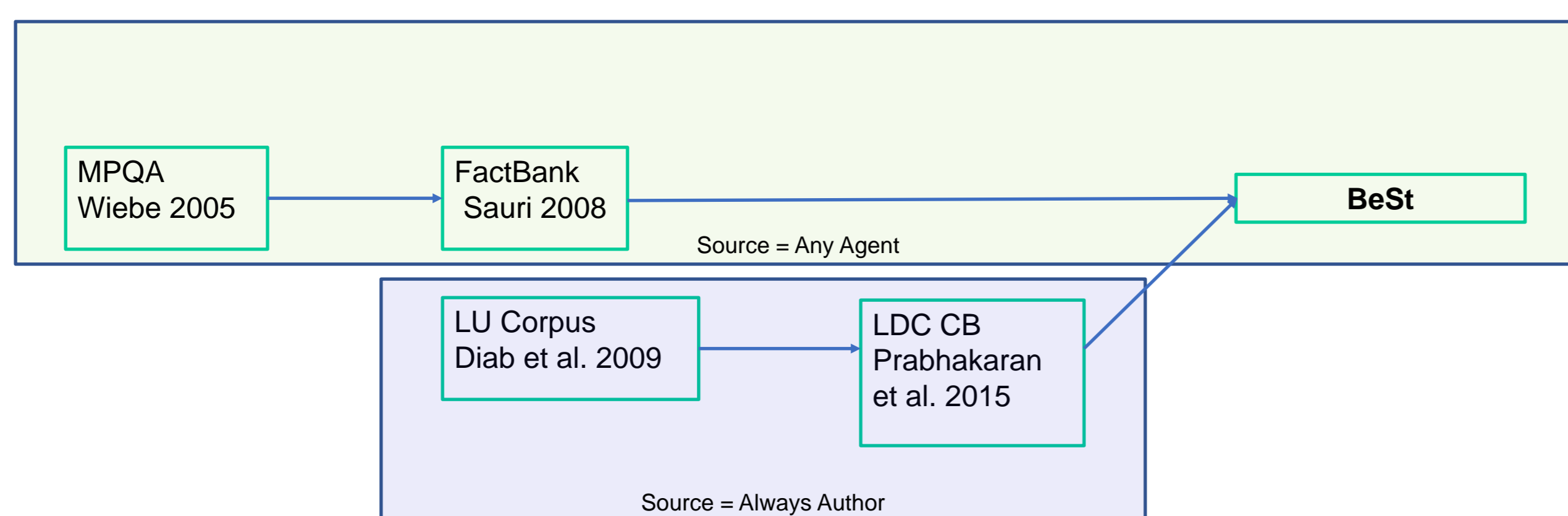
## Examples

**Fat.The.Gangster:** I have tickets to this Friday's Brewers/Cubs game but the memory of my three hour nightmare getting to Miller Park last time is making me nauseous.

The only source in this example is the author, Fat.The.Gangster

Target (Source = author)	Belief	Sentiment
Entity: Fat.The.Gangster, I, my, me	---	none
Location relation: Fat.The.Gangster in Miller Park	Committed Belief	Positive
Transportation event: Fat.The.Gangster getting to Miller Park last time	Committed Belief	Negative

## Relation to Prior Work



**NeoNerd:** It's just appeared on the AP wires and the BBC live coverage. People who spilled over from the "protest" attacked their car as it went down Regent Street. No harm done to them, apparently.

Target	Source	Belief	Polarity	Sentiment
Harm event: People did harm to the royals (= them)	NeoNerd	Reported Belief	Negative	None
	AP	Committed Belief	Negative	None
	BBC	Committed Belief	Negative	None

## Annotation Scheme

- ◆ Belief
  - Source
  - Target
  - Belief Type:

	FactBank	LU	LDCCB	BeSt
Certain	CT	CB	CB	CB
Probable	PR	NCB	NCB	NCB
Possible	PS		ROB	ROB
Reported Belief	Uu	NA	NA	NA
Wish, hypothetical, question				
No belief value				

- Sarcasm (yes or no)
- ◆ Sentiment
  - Source
  - Target
  - Sentiment type:
    - Negative
    - Positive
    - None (= no sentiment expressed)
  - Sarcasm (yes or no)

## Corpus Details

NW = newswire, DF = discussion forums

### ◆ Belief

Belief		English				Mandarin				Spanish			
		CB	NCB	ROB	NA	CB	NCB	ROB	NA	CB	NCB	ROB	NA
Training	NW	4268	36	317	394	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	DF	9355	256	1180	3109	8522	167	1822	2681	4264	214	1956	2972
2016 Test	NW	9164	80	4782	1054	5572	24	1688	320	4400	59	2587	787
	DF	3856	71	410	1949	3304	47	396	832	3034	83	770	891
2017 Test	NW	8024	61	3395	950	8174	43	2825	644	5862	50	2449	618
	DF	4704	226	693	1977	5263	49	793	1063	4100	186	1060	1203

### ◆ Sentiment

Sentiment		English			Mandarin			Spanish		
		positive	negative	none	positive	negative	none	positive	negative	none
Training	NW	110	296	5653	n/a	n/a	n/a	n/a	n/a	n/a
	DF	1953	4875	25777	114	440	27428	367	1236	12696
2016 Test	NW	620	663	12434	168	85	8077	450	533	7208
	DF	526	555	10681	126	561	9963	273	768	8172
2017 Test	NW	250	780	9938	82	227	9958	165	673	8516
	DF	363	668	10371	227	499	12768	219	895	9154