

# A Sense-Topic Model for Word Sense Induction with Unsupervised Data Enrichment

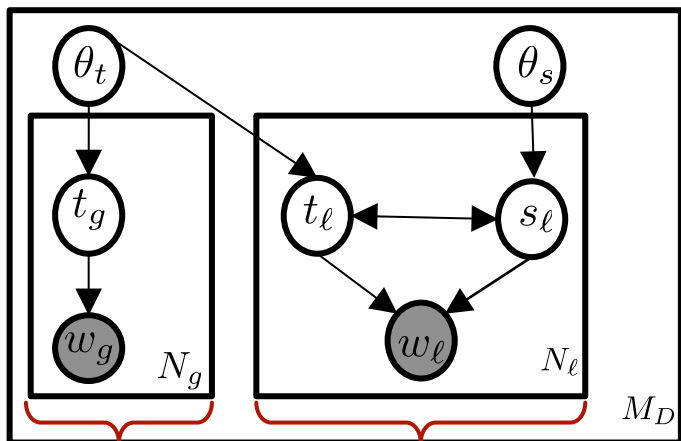
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## Sense-Topic Model



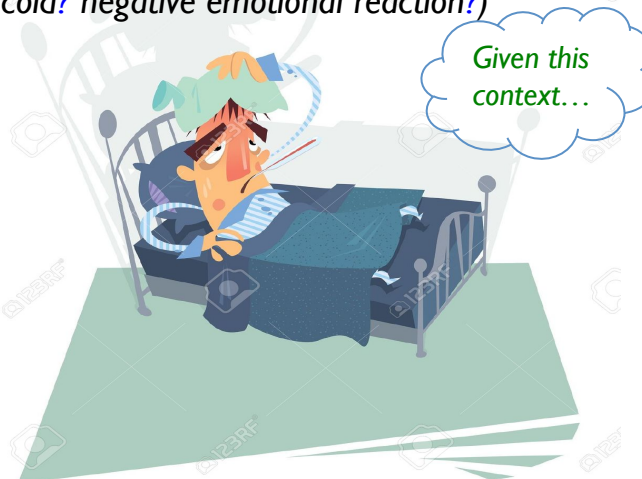
global context words generated from topics

local context words generated from topics and senses

## Unsupervised Data Enrichment

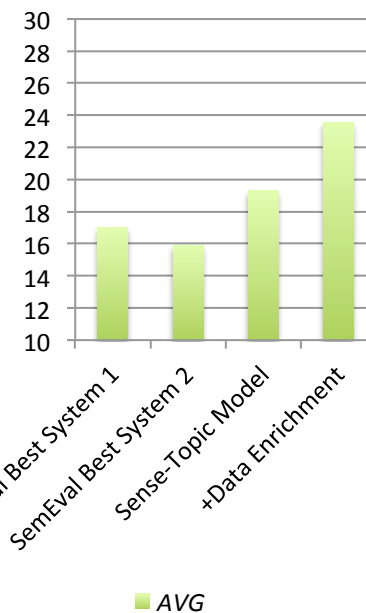
### Adding context

His reaction to the experiment was *cold*.  
(cold temperature? cold sensation? common cold? negative emotional reaction?)



## Experiments

SemEval 2013 Dataset



...body temperature...

His reaction to the experiment was *cold*

...sore throat...fever...