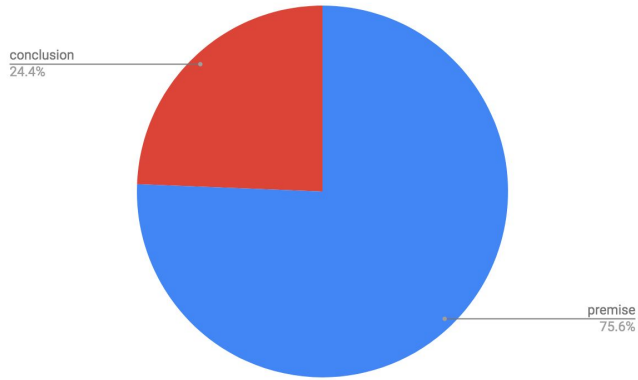


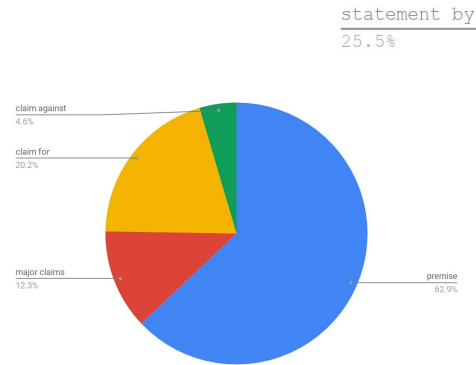
Parliamentary Debates Data Mining Process

Annie 17.06.2019

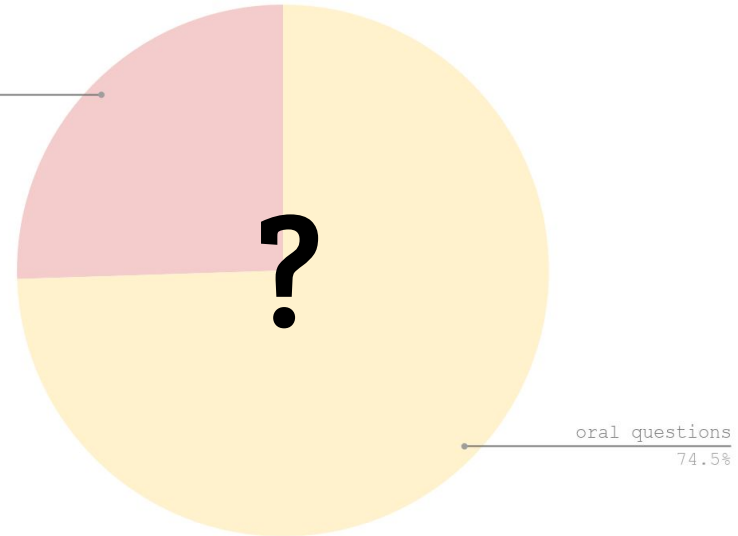
3 datasets



Documents: 47,000
Topics: 460



Documents: 6,000
Essays: 460
Topics: 372



Oral questions: 126,318
Statement by members: 43,251

Experiments with Debatepedia

	Results	F-Measure	Feature
Random Splitting	92.98%	86% for conclusion vs 95% for premise	Content-length, token-ngrams, pos-ngrams
Cross-Topics Validation	90.56% (split 5 times, appr. 91% for each split)	81% for conclusion vs 94% for premise	Content-length, token-ngrams, pos-ngrams

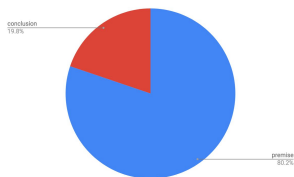
=> Topics add bias to the training set (about 2%)

Experiment with Student Essays

Splitting	Results	F-Measure	Feature
Cross-Topics	61.23%	24% for conclusion vs 74% for premise	Content-length
Cross-Topics	87.13%	12% for conclusion vs 93% for premise	Pos-ngrams
Cross-Topics	88.01%	32% for conclusion vs 93% for premise	N-grams
Cross-Topics	86.41%	16% for conclusion vs 97% for premise	Aggregate
Random	86.62%	17% for conclusion vs 97% for premise	Aggregate

=> Students Essays do not benefit from Content-length as much as Debatepedia

Sample Statement by Member



Instances: 106
Premise: 85
Conclusion: 21

Train dataset	Results	F-Measure	Feature
Debatepedia	74.53%	13% for conclusion vs 85% for premise	Aggregate

```

original file: /home/ciso0478/wstud-visit-the-dome-ssl9/data/sample-sbm/ison/original.json
Evaluate on 106 instances

Tracing back to original data ...
Format: sentence
actual unit type, predicted unit type

On behalf of my colleagues and all Canadians, I ask His Excellency Dr. Mohammed Al-Hussaini,
the Ambassador of Saudi Arabia, to extend our warmest congratulations to the Government of
Saudi Arabia and its people, the people of this exceptional nation.
conclusion , premise

on November 18, UN Women elected its first executive board.
premise , conclusion

If Saudi Arabia wants to demonstrate its desire for equality and justice between men and
women, then its authorities have to take the first concrete step and let Nathalie Morin and
her children return to Quebec.
conclusion , premise

We must continue to enforce laws that penalize the purveyors of racism, ensure that racism
labels are never falsely used, strengthen the level playing field where opportunities exist
and the responsibility to take advantage of those opportunities rests with the individual,
and that people are judged on their merit and not on the colour of their skin.
conclusion , premise

prostitution is not a career choice.
premise , conclusion

Many women get involved in prostitution to feed their drug addiction.
premise , conclusion

Fines and prison are not the solution to drug-related prostitution.
premise , conclusion

In other words, we have to address substance abuse and addiction.
conclusion , premise

I hope to receive a positive response soon and I hope that the budget tabled a little later
on will not abandon these people who feel increasingly forgotten by society.
conclusion , premise

The sex trade creates many victims.
premise , conclusion

I call on the government to stand up for women and children, and provide more resources and
social programs to women in need.
conclusion , premise

I feel it is our duty, as elected members, to work to implement measures that will fight
poverty in Canada.
conclusion , premise

I am committed to doing just that, as are my NDP colleagues, and I urge the government to do
the same.
conclusion , premise

Single female seniors are particularly challenged.
premise , conclusion

The Leader of the Opposition has recently outlined real and meaningful plans to deal with the
issue of poverty in Canada, but from the government we hear nothing.
conclusion , premise

That is an absolute shame.
conclusion , premise

We are reminded of the need to restrain the pornography industry which causes so much
personal devastation and societal harm.
conclusion , premise

how can Canadians trust the Liberals when they say they will protect children and then avoid
positive action on the possession of child pornography?
conclusion , premise
    
```