# lbrk at the NTCIR-15 QA Lab-PoliInfo-2

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## How to label agree or disagree

- We detected dissenting opinions from each party's final answers on the last day of the plenary session.
- We assign labels to the minority parties based on inferences of their positions from the information we collect from web pages and TrainingDeta, both those that lean toward the ruling party and those that lean toward the opposition.
- If we don't get it with the above two, we'll give a label in agree

## **Detection from the final debate**

"Speaker": "四十七番(**西崎光子**君)", "Utterance": "私は、都議会生活者ネットワーク・みらいを代表し、**第百八十一号議案**に**反対**、 その他の知事提出議案に賛成の立場から討論をいたします。…

Determine the affiliation of the speaker by referring to the dictionary of the party affiliation

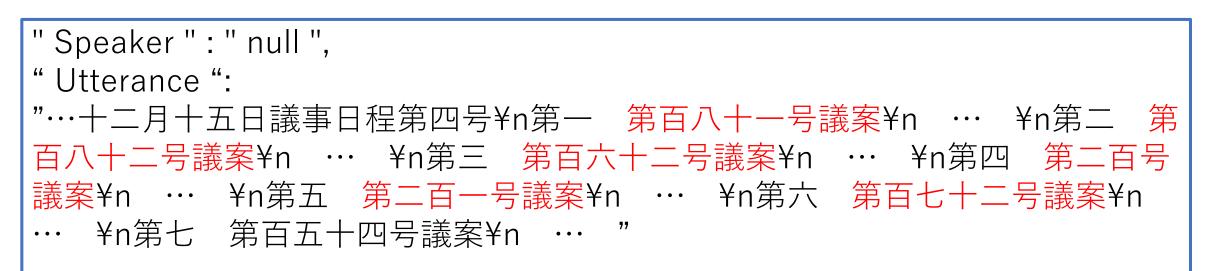
Detecting dissenting opinions from the beginning of the statement of each party's representative

■ The speaker's opinion shall be the opinion of his or her party.

# When there is a description of the "Opposition to the outside $\bigcirc$ proposal".

"Speaker": "八十一番(たぞえ民夫君)", "Utterance": "日本共産党都議団を代表して、第百六十二号議案<mark>外五議案</mark>に反対する立場から討 論します。…

 If you are opposed to a large number of proposals together, such as "Outside ○○ bill", the "Speaker" refers to the proposals in the null and gives a label of opposition for the number of ○○+1 from the top of the list.



### **Estimating Minority Party Trends**

- We collect the factions that have the few chance to answer and estimate whether they lean toward the ruling party or the opposition.
- We assign the same label of opinion as the Communist Party to those factions presumed to be opposition-leaning.

### Result

	miss	match	accuracy
none	180	4361	96.04%
+minority party	164	4377	96.39%

- 96.04% when there was no information on minority opinions and 96.39% when there was information on minority opinions.
- There was an increase in accuracy of 0.35%.



 The approach on minority groups was a major factor in improving accuracy

 It's difficult to extract opinions from a group that has little to say.