

# Session 11: Hands-on Activity

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## Housekeeping

### Session overview

#### Learning Objectives

By the end of this session, students will be able to:

- Understand NLP tasks such as POS tagging and dependency parsing
  - Understand how automated parsing works
  - Conduct multi-lingual Part-Of-Speech (POS) tagging using TagAnt
  - Conduct POS tagging using spaCy library in Python (through Google Colab)
  - Conduct Dependency parsing using spaCy library in Python (through Google Colab)
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### Hands-on Activity

**Task 1:** POS tagging with TagAnt

**Task 2:** POS-sensitive frequency list

**Task 3:** Understanding dependency grammar through visualization

### POS tagging with TagAnt

#### Tagging with TagAnt

1. Open TagAnt
2. Select Input Files
3. Select Language
4. Select Display information (see next)

### Display setting info in TagAnt

Followings are basic selection in TagAnt.

	Menu	Function	Example
word		tokenization	dogs, ran
pos		POS tag (simple)	NOUN, VERB

	Menu	Function	Example
pos_tag		POS tag (detailed)	NNS, VBD
lemma		lemmatized word	dog, run

### Other Display settings

	Menu	Function	Example
word+pos		tokenization and POS	dogs_NOUN, ran_VERB
word+lemma +pos_tag		token+lemma+POS	dogs_dog_NN, ran_run_VERB

### Task 1: Annotating Japanese text (10 mins)

- Annotate 50 Japanese text files with TagAnt.
- Create frequency list for aozora\_50

### Task 1: Answer

Before

After

- - - - -

\_SPACE\_ - - - - -

### Task 2: Frequency-list by POS tags (10 mins)

- Using AntConc, create following frequency lists:
  - Create a frequency list of -
- If you are done, please create another frequency list with different search terms.