# Session 11: Hands-on Activity

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#### 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)

#### **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)

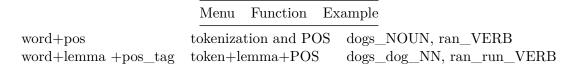
#### Display setting info in TagAnt

Followings are basic selection in TagAnt.

	Menu	Function	Example	
word	token	tokenization		n
pos	POS	tag (simple)	) NOUN,	VERB

	Menu	Function	Example	
		tag (detaile	,	
lemma	lemm	atized word	$\log, 1$	un

#### Other Diaplay settings



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

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

#### Task 1: Answer

**Before** 



## 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.