

# INF5830 group exercises 1

*Please form groups of 2-3 people and work through the following exercises.*

## **Study questions: A. Zwicky “Heads”**

1. Which three notions are central in determining head status, according to Zwicky? Define each of the notions and provide illustrating examples.
2. What is the difference between government and subcategorization? Provide examples for each of the two distinctions.
3. Which notion does Zwicky conclude should determine the syntactic head?
4. What are the tests proposed by Zwicky for determining head status and how do these work? Are there any exceptions to the tests?

## **Study questions: Nivre “Dependency Grammar and Dependency Parsing”**

1. How does Nivre define the notion of *dependency*?
2. Relate the criteria for head status on p. 4 to Zwicky’s criteria? Can you locate a direct correspondence for all of them?
3. Explain the difference between endocentric and exocentric constructions.
4. What are the formal constraints placed on dependency graphs? For each of the constraints you identify, draw a graph that violates the constraint.
5. Why does coordination represent a challenge for dependency-based syntax?

## Dependency grammar

1. Assume the label set below and draw a dependency graph for each of the following sentences. Make sure that your graph observes the formal constraints describes in Nivre's article. For each of the head-dependent relations you propose, make a note of the head criteria from Nivre's article that support your choice and those that do not.

- *He baked her an apple pie*
- *Mary runs in the park*

SBJ	subject
OBJ	direct object
IOBJ	indirect object
DET	determiner
NMOD	nominal adjuncts
ADV	different types of adverbials
PCMP	prepositional complement
ROOT	root of the sentence