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Universal Dependencies Treebank for Standard Albanian

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We present the Universal Dependencies treebank for the Standard Albanian language, annotated by linguistic experts with the support of information technology professionals. The annotated treebank contains 85,000 tokens (4,000 sentences), of which 25,000 tokens (1,300 sentences) are annotated with syntactic dependencies, part-of-speech tags, morphological features, and lemmas, while the remaining part lacks syntactic dependency annotations. x

Annotation Decisions

- Sentence segmentation: performed using white space and punctuation marks as boundaries.
- Words segmentation within a sentence: performed using white space and punctuation marks as boundaries poses challenges in labelling analytical grammatical forms and expressions in Albanian, a synthetic-analytical language with both synthetic and analytic features.
- Lemmatization: Linguistic experts determine word lemmas using the Albanian National Dictionary (ASHSH, 1998, 2002, 2006), considering the context and meaning in sentences to prevent ambiguity.
- Part-of-speech tags: A total of 17 part-of-speech tags from the UD tag set are utilized.
- Morphological features: corresponding morphology features based on the word's part-of-speech tag.
- Syntactic annotation: A total of 32 syntactic tags from the UD tag set are utilized.

POS and Morphological feature tags

	POS tag	Morphological features
verb	VERB/AUX	mood, time, person, number, voice; verb form only in case of participle
noun	NOUN	gender, number, case, definiteness
proper noun	PROPN	gender, number, case, definiteness; Abbr in case of abbreviation
adjective	ADJ	gender, number, case, degree
pronoun	PRON	depends on the type (case, number, gender, person, prontype)
adverb	ADV	AdvType
numeral	NUM	NumType
interjection	INTJ	
preposition	ADP	case
particle	PART	
conjunction	CCONJ/ SCONJ	
articles	DET	gender, number, case and prontype
symbols	SYM	

Contributions

Annotation Examples: mbuloheshin bredh banesë Building shingles

Figure 1: Annotated sentence where the root is a verb

"The flats were covered with thin fir boards or tiles."

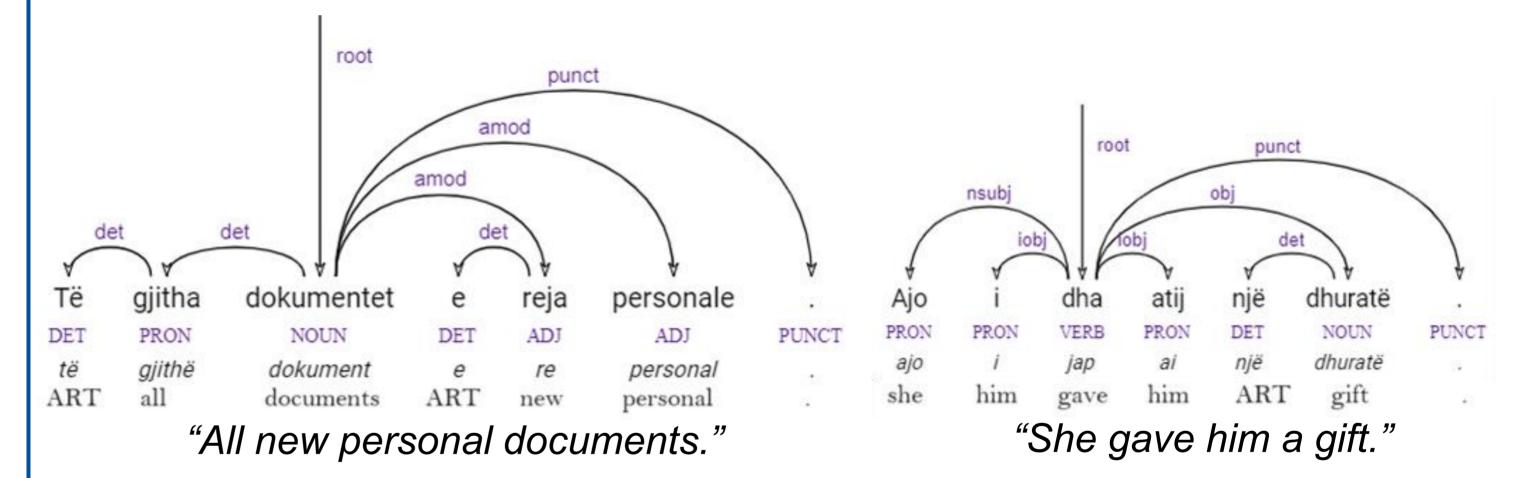


Figure 2: Annotation where the root is a Figure 3: Example using iobj tag noun

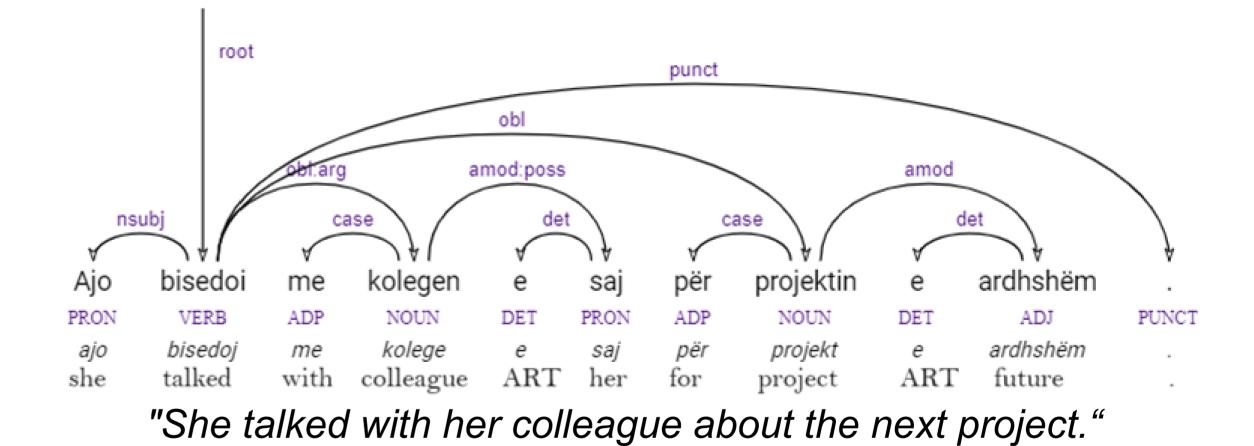


Figure 4: Example using the obl:arg tag

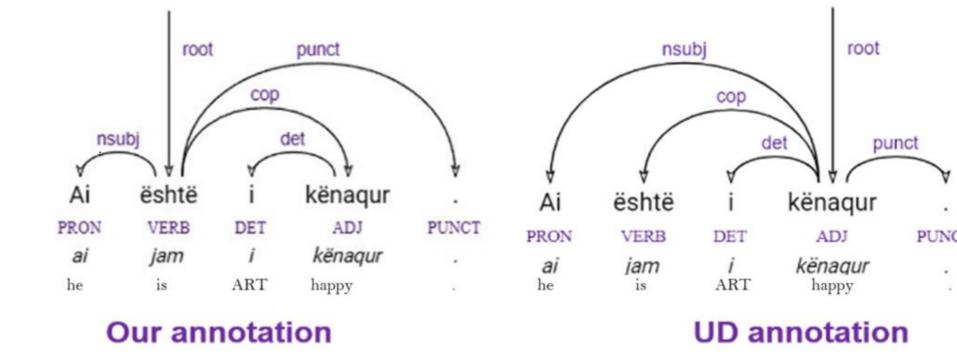


Figure 5: Examples using the cop tag

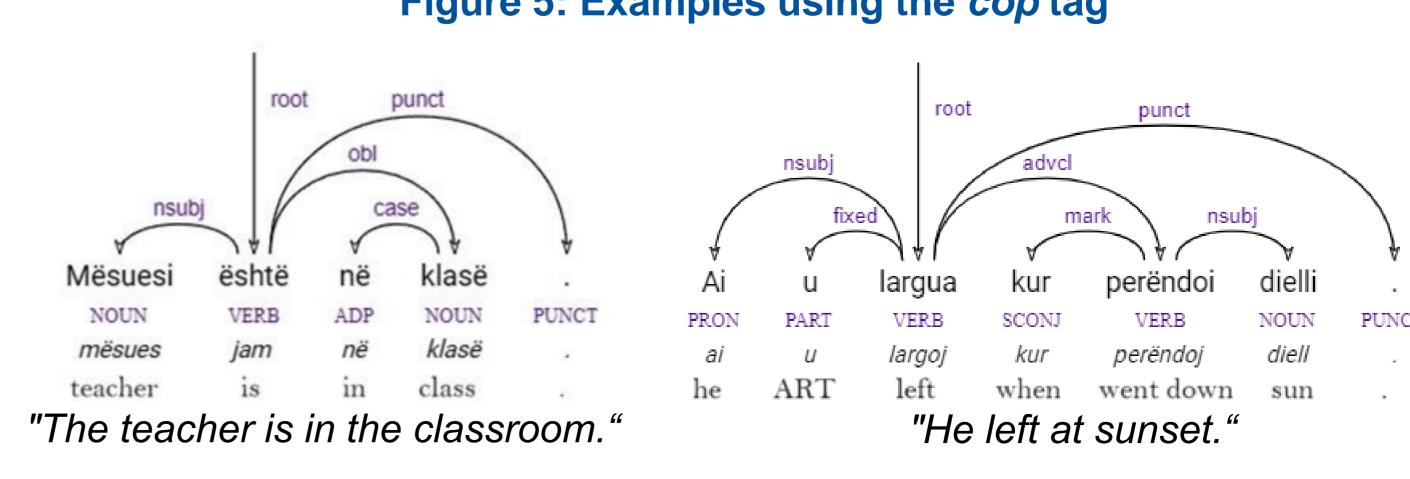


Figure 6: Example using the *case* tag

Figure 7: Example using advcl tag



