WojoodNER 2024:
The Second Arabic Named Entity Recognition Shared Task

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Subtasks, Evaluation metrics and Datasets

Subtasks

WojoodNER-2024 encompassed three subtasks:

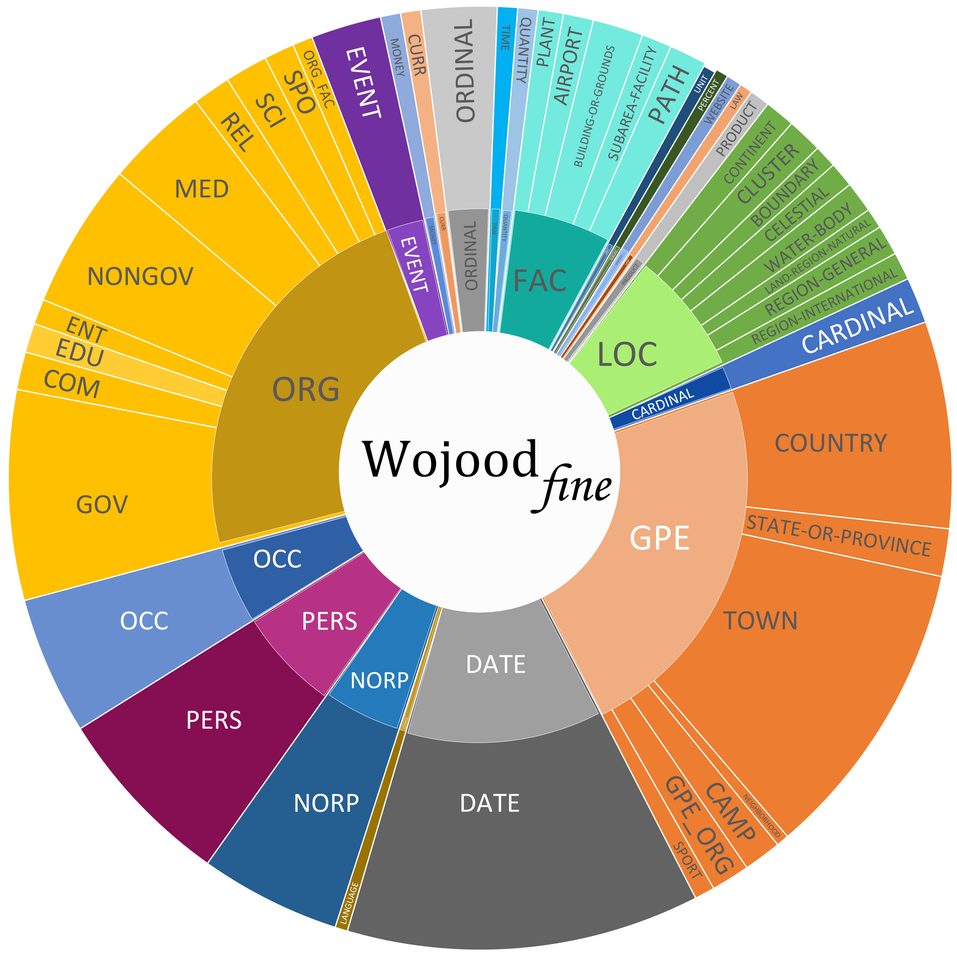
1. Closed-Track **Flat Fine-Grained NER.**
2. Closed-Track **Nested Fine-Grained NER.**
3. **Open-Track NER for the Israeli War on Gaza.**

Datasets

WojoodNER-2024 focuses on **fine-grained Arabic NER.**

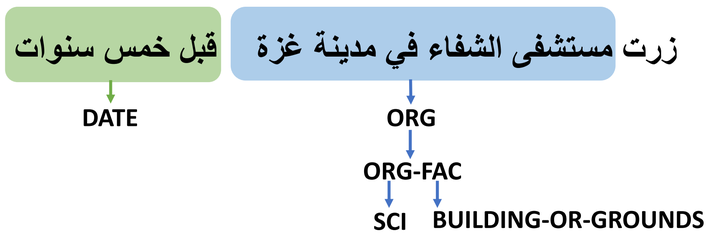
$\text{Wojood}_{\text{Fine}}$ extension to Wojood (550k tokens), annotated with 51 entity types and subtypes. (Subtask 1 and 2)

$\text{Wojood}^{\text{Gaza}}$ corpus (60k tokens) annotated with 51 entity types and subtypes, related Israeli War in Gaza. (Subtask 3)

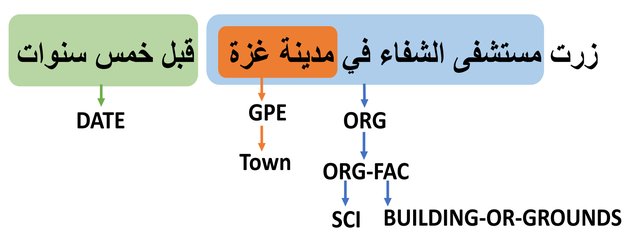


Examples

Flat Fine-Grained NER

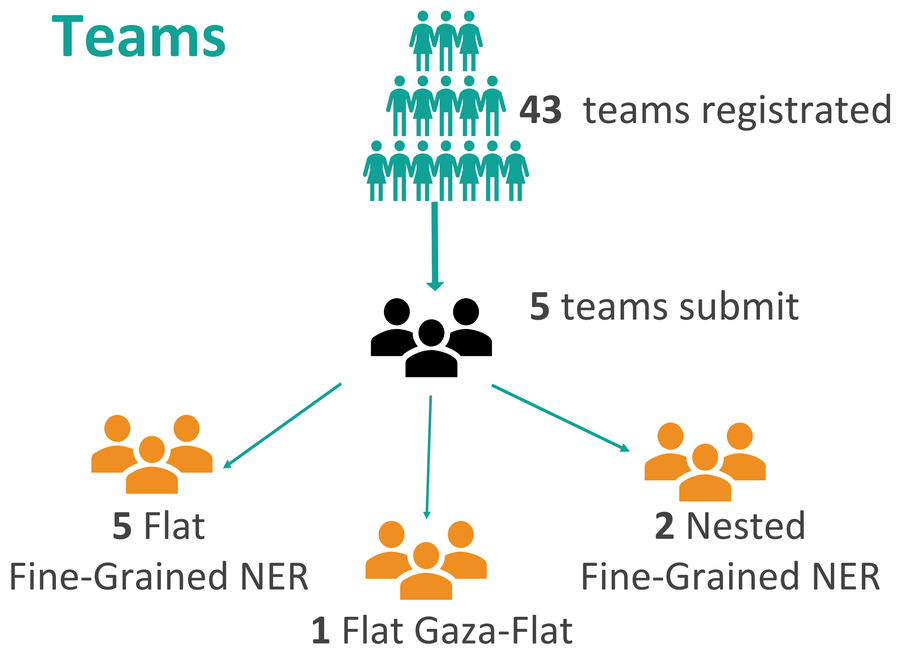


Nested Fine-Grained NER



Shared Task Teams & Results

Teams



Team	Task
Addax	1
Bangor University	1
DRU	1,2,3
mucAI	1
muNERa	1,2

List of teams that participated in the WojoodNER-2024 subtasks

Rank	Team	Precision	Rec	F1-score
1	mucAI	91	90	91
2	muNERa	91	89	90
2	Addax	89	91	90
	Baseline-I(ARBERTv2)	**89**	**90**	**89**
3	DRU - Arab Center	86	86	87
4	Bangor	88	85	86

Results of Subtask 1- Flat fine-Grained NER

Rank	Team	Precision	Recall	F1-score
	Baseline -I(ARBERTv 2)	**92**	**93**	**92**
2	muNERa	92	90	91
3	DRU – Arab Center	90	90	90

Results of Subtask 2- Nested fine-Grained NER

Rank	Team	Precision	Recall	F1-score
1	DRU – Arab Center	71.9	75.6	73.7

Results of Subtask 3 – Gaza-FlatNER

Open Challenges

Dialects and domains are not adequately addressed in NER systems for Arabic.

Downloads and Demo

https://sina.birzeit.edu/wojood/

Public (data, code, demo)

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