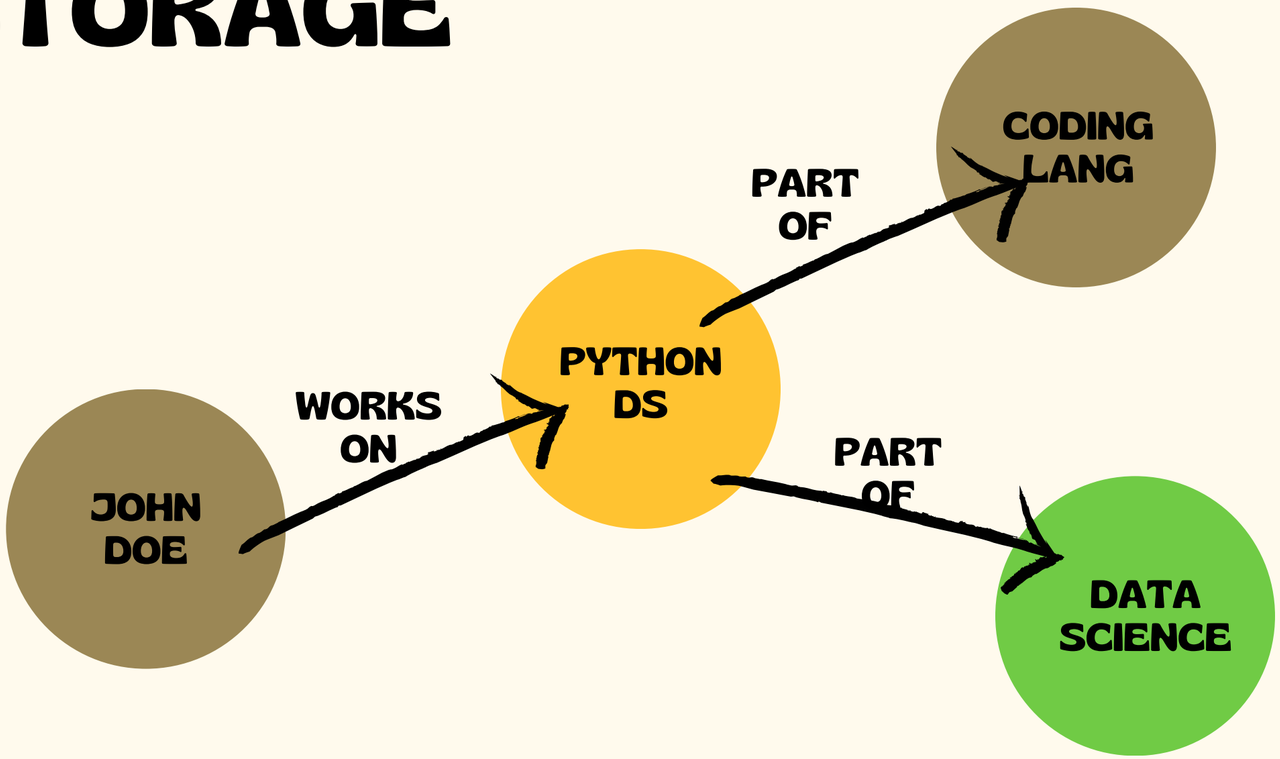
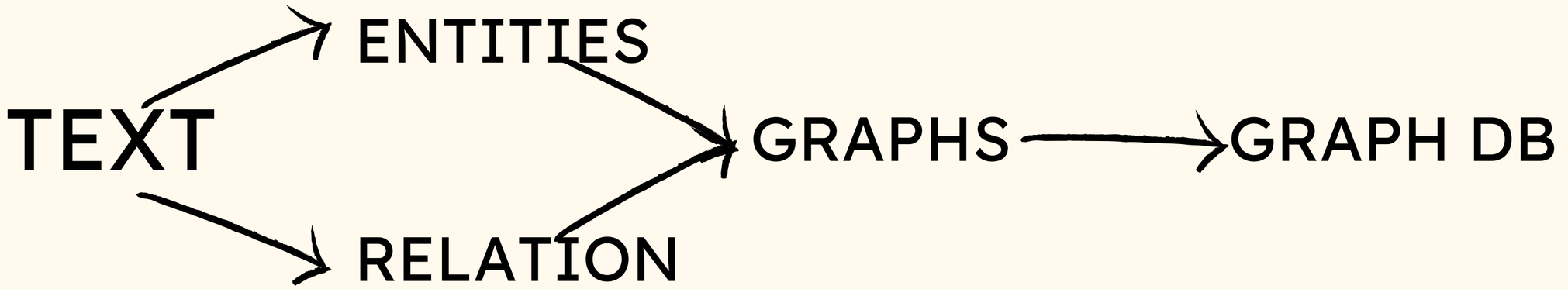
BUILDING KNOWLEDGE GRAPHS WITH REBEL: A STEP-BY-STEP GUIDE AND GRAPH DATABASE STORAGE



EXTRACTING ENTITIES AND THEIR RELATIONSHIP TO ENRICH THE INFORMATION

CHALLENGE SOLVED: CREATING KG FROM TEXTS

- UNDERSTAND WHAT IS A KNOWLEDGE GRAPH, NODES AND RELATIONSHIPS
- LOCATING THE ENTITIES AND THEIR RELATIONSHIPS INSIDE THE GIVEN TEXTS
- CREATING THE GRAPH AND RELATIONSHIPS AND STORING THEM IN THE DATABASE
- THINKING ABOUT THE DATABASES LIKE NEO4J, KUZU FOR STORING AND ACCESSING THE DATA
- ASKING THE CRITICAL QUESTION, WHETHER A GRAPH RENDERING IS REQUIRED



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STEPS AND CODE

- COLLECTING THE TEXT DATA FROM THE SOURCE
- IMPORTING THE REBEL MODEL USING HUGGING FACE TRANSFORMERS
    - HTTPS://HUGGINGFACE.CO/BABELSCAPE/REBEL-LARGE
- EXTRACTING THE ENTITIES AND RELATIONSHIPS IN FORM OF TRIPLETS

{'HEAD': 'CULTURAL BURN', 'TYPE': 'SUBCLASS_OF', 'TAIL': 'PRESCRIBED BURN', }

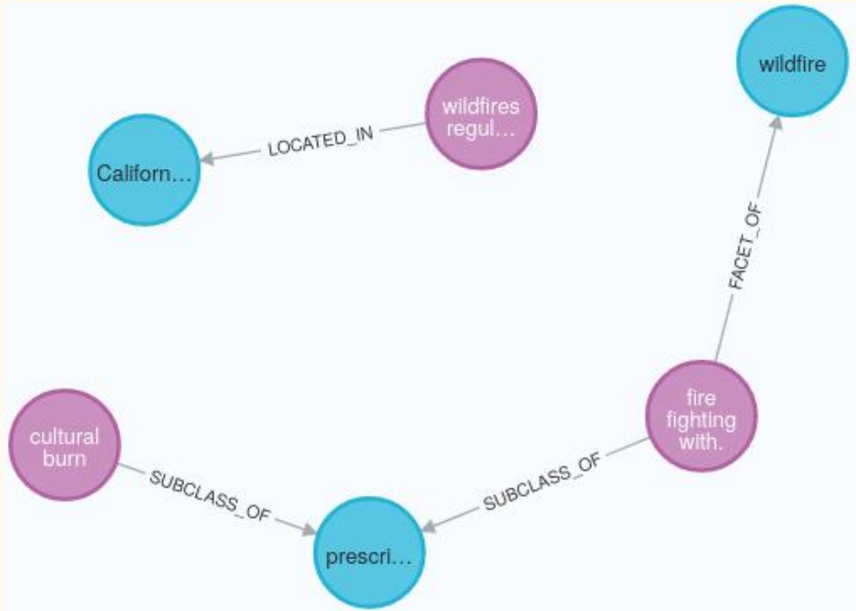
{'HEAD': 'FIRE SEASON', 'TYPE': 'POINT IN TIME', 'TAIL': 'SUMMER',}

- STORING THE ENTITIES & RELATIONSHIPS AS GRAPH

```
CREATE (C1:CLASS {E_NAME:'PRECRIBED BURN'})

CREATE (D1:EVENT {E_NAME:'CULTURAL BURN'})

CREATE (C1)-[:SUBCLASS_OF]->(D1)
```



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THANKS FOR WATCHING

REMEMBER TO PRACTICE WITH EXAMPLES

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