

Knowledge Graph Masters (AMOS SS 2024)

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Overview

Features

- Document upload (PDFs)
- Knowledge Graph Creation from the uploaded document
- Graph Data with nodes & edges for visualization

Included Packages and Tools

- Pytest
- Pytest Sugar
- FastAPI

Requirements

- Docker & Docker Compose
- Python 3.11 or higher
- Make (optional for shortcuts)

Getting Started

1. **Setup:**
 - Clone the repository and change into the project directory
 - Copy the `.env.example` file to `.env` and update the values as needed
2. **Run the application:**
 - Create and activate a virtual environment
 - Install the development requirements
 - Build the Docker image and run the container

For detailed instructions, see the [Getting Started Guide](#).

Shortcuts

- Build and run the development environment: `make build-dev`
- Stop the development environment: `make stop-dev`
- Start components separately: `make frontend-build-dev` or `make backend-build-dev`
- Run backend tests: `make backend-tests`
- Show help: `make help`

For detailed instructions, see the [Shortcuts Guide](#).

Product Overview

Visual tool to generate knowledge graphs from documents, showing core concepts and their relationships.

Supported Document Formats

- PDF

Uploading a PDF

- Drag and drop the document or click the "Browse" button to select the document from your computer.

Generating a Knowledge Graph

- Click the "Generate Graph" button to create a knowledge graph from the uploaded document.
- For details see the [User-Documentation](#)