## Python JARVIS Project Guide

This guide explains the command-line version of the JARVIS AI Assistant.

## File: main.py

This project is a Python script that runs in your computer's terminal. It uses a different set of libraries than the web-based version to interact with your system.

## **Key Components**

- Python Libraries:
  - o speech recognition: Handles the speech-to-text conversion.
  - o PyAudio: A dependency for speech recognition to access the microphone.
  - o google-generativeai: The official library for making calls to the Gemini API.
  - webbrowser: A built-in Python library that opens websites in your default browser.
  - python-dotenv: A key library for securely managing your API key by loading it from a .env file.

## How to Use

- 1. **Install Libraries:** Open your terminal and run the following command to install all the required libraries:
  - pip install SpeechRecognition PyAudio google-generativeai python-dotenv
- 2. **Create a .env file:** In the same folder where you saved main.py, create a new file named .env.
- 3. Add your API Key: Inside the .env file, add your API key in the following format. Replace YOUR\_API\_KEY\_HERE with your actual key.

  GEMINI API KEY=YOUR API KEY HERE
  - **Security:** It is crucial that you **do not** share this file or commit it to a public code repository.
- 4. **Run the Script:** From your terminal, navigate to the project directory and run the script: python main.py
  - The program will say "JARVIS systems online. Awaiting your command." and start listening.