

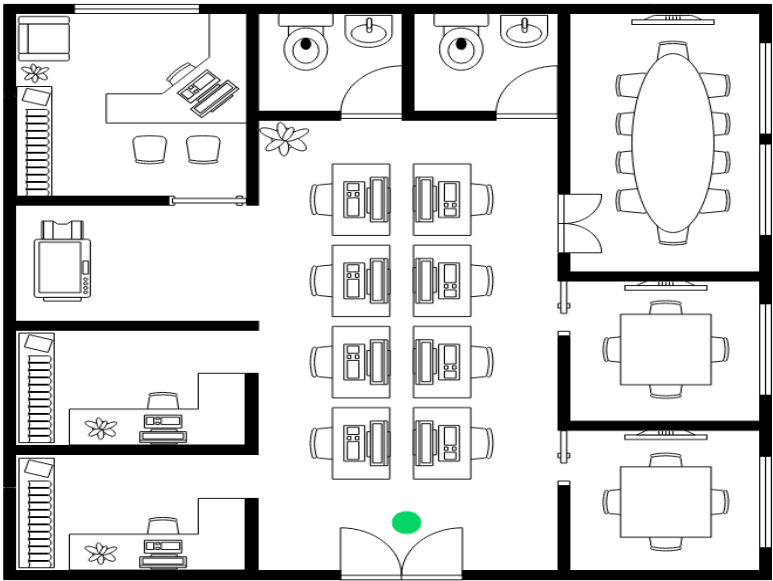
Magma-8B Multi-Technique Analysis Report

Generated: 2025-06-11 08:51:34

Model: Microsoft Magma-8B

Task/Prompt: Go towards the big oval table

Input Image



Analysis Results

STANDARD Technique

Direct prompting without additional reasoning steps

Response:

Coordinate: (0.87, 0.21)

COT Technique

Chain-of-Thought: Step-by-step reasoning before final answer

Response:

the camera wearer moves around the room

COD Technique

Chain-of-Draft: Draft thoughts followed by refined response

Response:

1. The dining area is located in the bottom right corner of the floor plan. 2. There are two types of tables available: round and rectangular. 3. The large oval table is situated in the top right corner of the floor plan. 4. The conference room is located in the top left corner of the floor plan. 5. There is a microwave located in the bottom left corner of the floor plan. 6. A toilet can be found in the top center of the floor plan. 7. There is a potted plant located in the bottom center of the floor plan. 8. The office area is situated in the bottom left corner of the floor plan. 9. The kitchen area is located in the bottom right corner of the floor plan. 10. The TV is located in the bottom center of the floor plan. 11. There is a sink located in the bottom right corner of the floor plan. 12. The meeting room is located in the top right corner of the floor plan. 13. The door is located in the top center of the floor plan. 14. There is a toilet paper dispenser located in the bottom left corner of the floor plan. 15. The trash can is located in the bottom right corner of the floor plan. 16. The coffee machine

COT_CONSISTENCY Technique

Self-Consistency: Multiple reasoning paths with majority voting

Majority Vote Result:

The green dot near the bottom center of the floor plan indicates the location of the elevator button in the building.

All Samples:

Sample 1: The green dot near the bottom center of the floor plan indicates the location of the elevator button in the building.

Sample 2: the camera wearer turns around

Sample 3: The robot should navigate towards the large oval-shaped dining table located in the top right corner of the floor plan. This is where it can find the chairs arranged around it, ready to accommodate guests or facilitate a meeting. The dining table appears to be the focal point of this space, providing ample seating and surface area for various activities.

Sample 4: Coordinate: (0.87, 0.26)

Sample 5: The floor plan indicates that the large oval table is located in the upper right section of the room.

Analysis Summary

This report compares four different prompting techniques applied to the Magma-8B vision-language model. Each technique has different strengths:

- **Standard:** Fast and direct, good for simple tasks
- **CoT:** Better reasoning for complex tasks requiring step-by-step thinking
- **CoD:** Iterative refinement for improved response quality
- **CoT-Consistency:** Most robust but computationally expensive, reduces hallucinations