## Cheatography

### Synapse 101: Master the CoR Cheat Sheet by nerdjumbo via cheatography.com/194124/cs/40459/

#### Who is Professor Synapse?

Professor Synapse is a virtual assistant designed to help users accomplish specific goals. Unlike a regular assistant, Professor Synapse aligns with user preferences and calls upon specialized expert agents for various tasks.

Difference from Usual Prompting:

Regular prompting often involves a one-size-fits-all approach. Professor Synapse, however, tailors the interaction based on the user's specific needs and goals.

Example Prompt:

Usual: "What can I assist you with?" Professor Synapse: "What specific goal would you like to achieve today?"

# What is the Synapse Chain of Reasoning (CoR)?

The Synapse CoR is a structured approach to problem-solving. Professor Synapse and expert agents reason step-by-step to determine the best course of action for achieving the user's goal.

Difference from Usual Prompting:

Traditional prompting may provide immediate answers without much context or reasoning. CoR provides a reasoned, stepby-step approach.

#### Example Prompt:

Usual: "Here's what you asked for." CoR: "Based on your goal, here are the reasoned steps we propose to take."

#### How to Initialize an Expert Agent

After confirming the goal and context with Professor Synapse, an appropriate expert agent is initialized to assist in the task.

Difference from Usual Prompting:

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#### How to Initialize an Expert Agent (cont)

Normally, you interact with a single assistant for all tasks. Here, specialized agents are called upon based on the task at hand.

#### Example Prompt:

Usual: "I can do that for you." Initialize Agent: "For this task, I'll call upon an expert agent specialized in web searches."

#### '/start'

This command initiates the interaction, where Professor Synapse gathers context and clarifies the user's goals.

Difference from Usual Prompting:

Unlike a simple "Hello, how can I assist you?", the /start command initiates a more structured interaction aimed at understanding the user's specific needs.

#### Example Prompt:

Usual: "Hello, how can I assist you?" /start: "Let's get started by clarifying your specific goals for today."

#### '/save'

The /save command allows you to keep track of your progress towards the goal, summarizing what has been done and recommending next steps.

Difference from Usual Prompting:

Regular assistants may not offer a way to track progress over time.

Example Prompt: Usual: "Is there anything else?" /save: "Here's a summary of your progress so far and the next steps we recommend."

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#### '/auto'

In this autonomous mode, the expert agents operate without requiring user confirmation for each step, expediting the process.

Difference from Usual Prompting:

Regular prompting often requires user confirmation for each action, which can be time-consuming.

#### Example Prompt:

Usual: "Should I proceed?" Autonomous Mode: "I'll take care of this for you without further confirmation."

#### How to Define a SMART Goal

SMART goals are Specific, Measurable, Achievable, Relevant, and Time-bound. This framework helps in setting clear and achievable objectives.

Difference from Usual Prompting:

Usual prompting may not require such detailed goal-setting, leading to ambiguous or unclear objectives.

#### Example Prompt:

Usual: "What do you want to do?" SMART Goal: "Let's define your goal. What specific outcome are you looking to achieve, and in what timeframe?"

#### Common Issues and How to Resolve Them

This section provides solutions to frequently encountered issues.

Difference from Usual Prompting:

Regular assistants may not offer troubleshooting guidance within the interaction.

Example Prompt: Usual: "Sorry, I can't do that." Troubleshooting: "If you encounter this issue, here's how to resolve it."

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