

Cheshire Cat AI

PRODUCTION-READY AI ASSISTANT FRAMEWORK



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WHO I AM



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Contacts



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Actually @  **FINCONS**
GROUP

Previous Main Experiences

healthware[■]
international

 **integris**



Communities and Open Source Projects



Cheshire Cat
The AI Assistant Framework

SOME NUMBERS



cheshire-cat-ai / **core**



GPL-3.0 license



1.8k stars



224 forks

Contributors 58



Total
downloads

13.5K



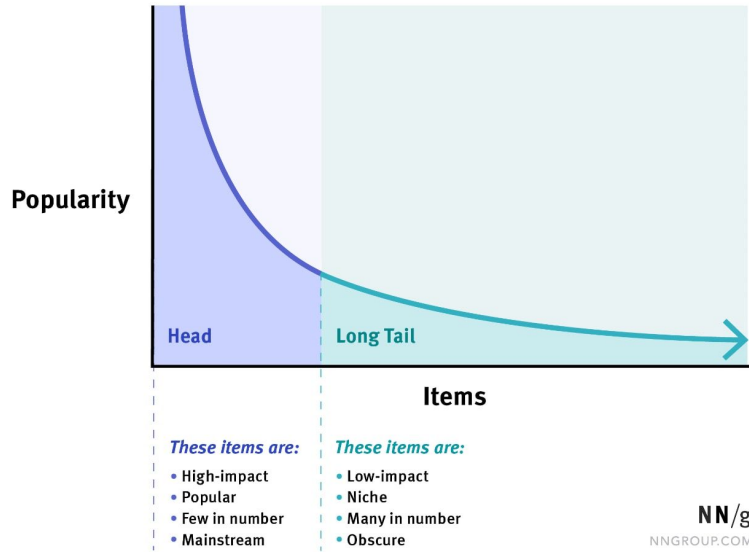
+2300
members



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WHY THE CAT

The Long Tail

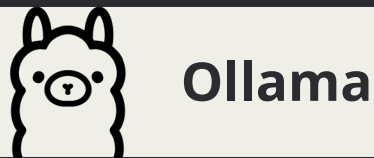


WHY THE CAT

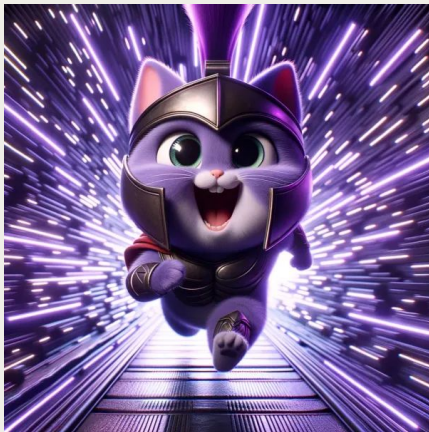
- **ready to fight**
dockerized
model agnostic
- **RAG + action agent**
(docs, convos and procedures)
- **plugin system and registry**
(hooks, tools and forms)



CHESHIRE CAT AI IS LANGUAGE MODEL AGNOSTIC...



*...BUT **IT ISN'T** A
LLM RUNNER!*

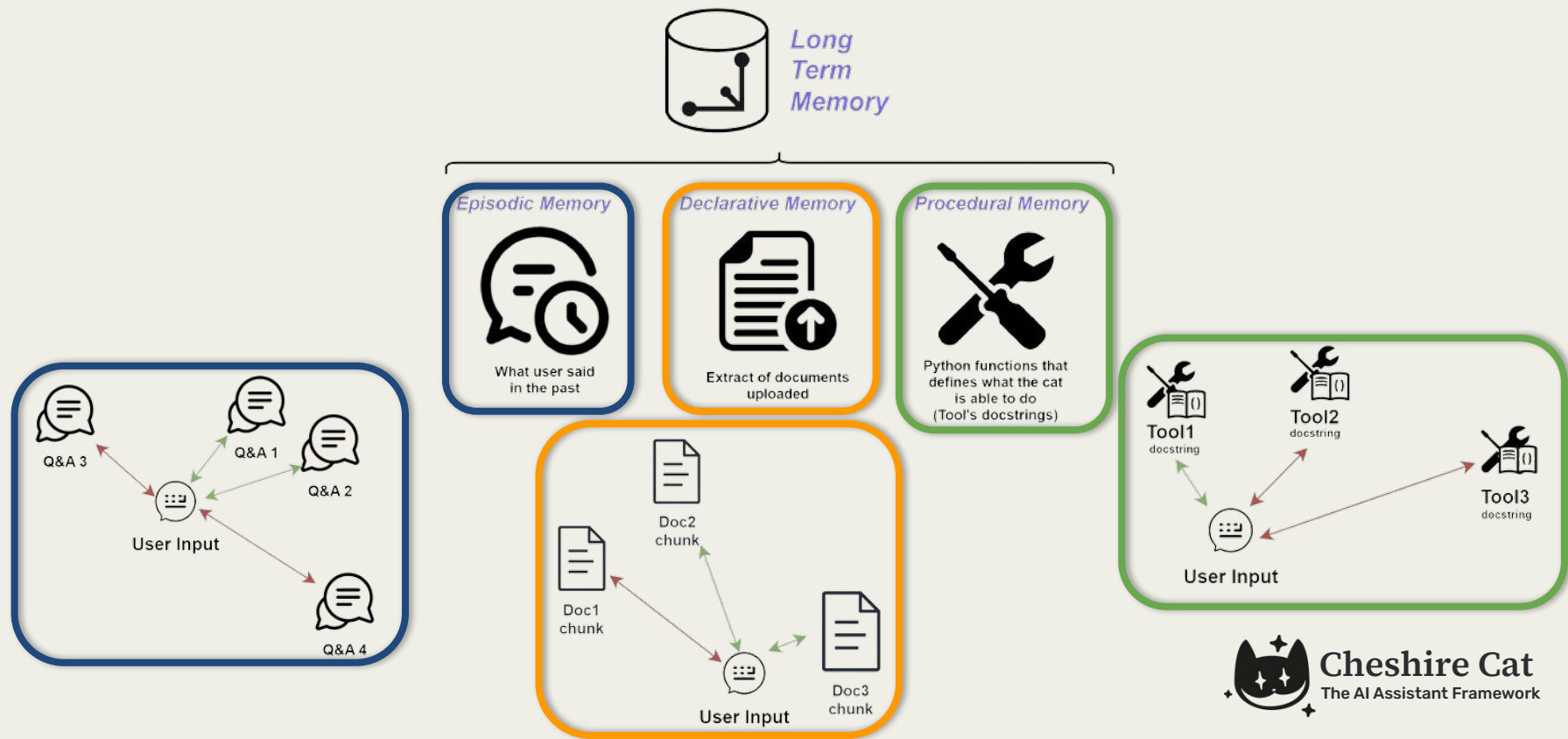


THE CORE



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CHESHIRE CAT's MEMORY



HOW TO CUSTOMIZE THE CHESHIRE CAT

Cheshire Cat uses a **plugin logic inspired by Wordpress**.

There are mainly two ways to intrude on the pipeline:











1. Customize the agent via *@hook*
 - a. Allow custom logic to be added at specific points
2. Add "memories" of Python functions via *@tools*
 - a. Allows you to add API interaction logics or new functions

[Write your first plugin \(from blog\)](#)



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HOW TO CUSTOMIZE THE CHESHIRE CAT

<div>Flow Agent Rabbit Hole Plugin</div>	
Name	Description
Before Cat bootstrap 	Intervene before the Cat's instantiate its components
After Cat bootstrap 	Intervene after the Cat's instantiated its components
Before Cat reads message 	Intervene as soon as a WebSocket message is received
Cat recall query 	Intervene before the recall query is embedded
Before Cat recalls memories 	Intervene before the Cat searches into the specific memories
Before Cat recalls episodic memories 	Intervene before the Cat searches in previous users' messages
Before Cat recalls declarative memories 	Intervene before the Cat searches in the documents
Before Cat recalls procedural memories 	Intervene before the Cat searches among the action it knows
After Cat recalls memories 	Intervene after the Cat's recalled the content from the memories
Before Cat sends message 	Intervene before the Cat sends its answer via WebSocket

```
from cat.mad_hatter.decorators import tool, hook
```

```
@hook
```

```
def agent_prompt_prefix(prefix, cat):
```

```
    prefix = """You are Marvin the socks seller, a poetic vendor of  
You are an expert in socks, and you reply with exactly one rhyme.  
"""
```

```
    return prefix
```

```
@tool(return_direct=True)
```

```
def socks_prices(color, cat):
```

```
    """How much do socks cost? Input is the sock color."""
```

```
    prices = {
```

```
        "black": 5,
```

```
        "white": 10,
```

```
        "pink": 50,
```

```
    }
```

```
    if color not in prices.keys():
```

```
        return f"No {color} socks"
```

```
    else:
```

```
        return f"{prices[color]} €"
```



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HOW TO CUSTOMIZE THE CHESHIRE CAT #2

```
from pydantic import BaseModel
from cat.experimental.form import form, CatForm

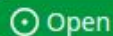
# data structure to fill up
class PizzaOrder(BaseModel):
    pizza_type: str
    phone: int

# forms let you control goal oriented conversations
@form
class PizzaForm(CatForm):
    description = "Pizza Order"
    model_class = PizzaOrder
    start_examples = [
        "order a pizza!",
        "I want pizza"
    ]
    stop_examples = [
        "stop pizza order",
        "not hungry anymore",
    ]
    ask_confirm = True

    def submit(self, form_data):

        # do the actual order here!
```

[PIZZA ORDER CHALLENGE] Make it easy to manage conversational forms from a plugin #479



pieroit opened this issue on Oct 6, 2023 · 12 comments

Labels

agent

enhancement

LLM

mad hatter

memory



[Check our Pizza Challenge](#)



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PLUGINS - Welcome to Furrmidable Crew



[Meow_Art](#)



[Cat_Eyes](#)



[Whispering_Cat](#)



[ccat_summarization](#)



[ccat_hyde](#)



[cat_advanced_tools](#)



[AnalytiBot](#)



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PLUGINS - From the Community



[Meowgram](#)



[the-catSCII-artist](#)



[AIChatSQL](#)



[the-latest-news-in-wonderland](#)



[meow-todo-list](#)



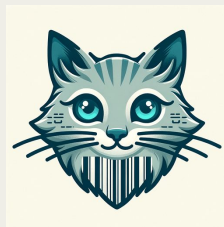
[ccat-community-assistant](#)



[PurrCast Podcast Finder](#)



[cc-vscode-debugpy](#)



[fattura-whisker](#)



[cc_rabbithole_segmentation](#)



[PDF-to-Audio-Plugin](#)

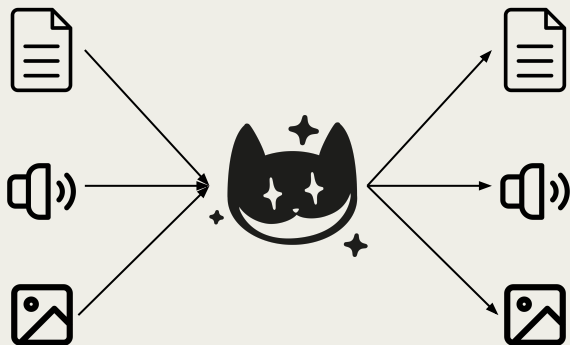


[FinCat-ETF-Checker](#)



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NEXT STEPS



Multimodality



Forms



Knowledge Graph



AI DEVELOPMENT SHOULD BE



easy



easy + fun



easy + fun + open



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PHILOSOPHY



DEMO TIME

How did I develop the simplest and most fun plugin in Wonderland?

It's time to meet... ..Gerry sCATty



Any Questions?

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Thank you!

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Keep in touch!

CHESHIRE CAT AI



<https://cheshirecat.ai>



<https://github.com/cheshire-cat-ai>



<https://www.linkedin.com/company/cheshire-cat-ai>



<https://medium.com/mad-chatter-tea-party>



<https://discord.gg/cheshire-cat>



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