



A framework for recursive multi-agent systems

• Recursive Delegation: start with a single agent, which has a tool to delegate tasks to new child agents

- When presented with a complex task, the agent can decompose it and give each part to a new child agent

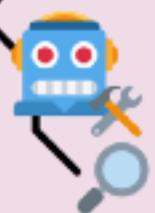
- Each child can complete their own sub-task if it's simple, or decompose further and delegate again



Help me plan a trip to Japan visiting 3 cities.



I'll need to find flights,
hotels, trains, and food.



Search for flights to Japan...

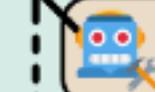
FlightSearch[SFO, NRT]



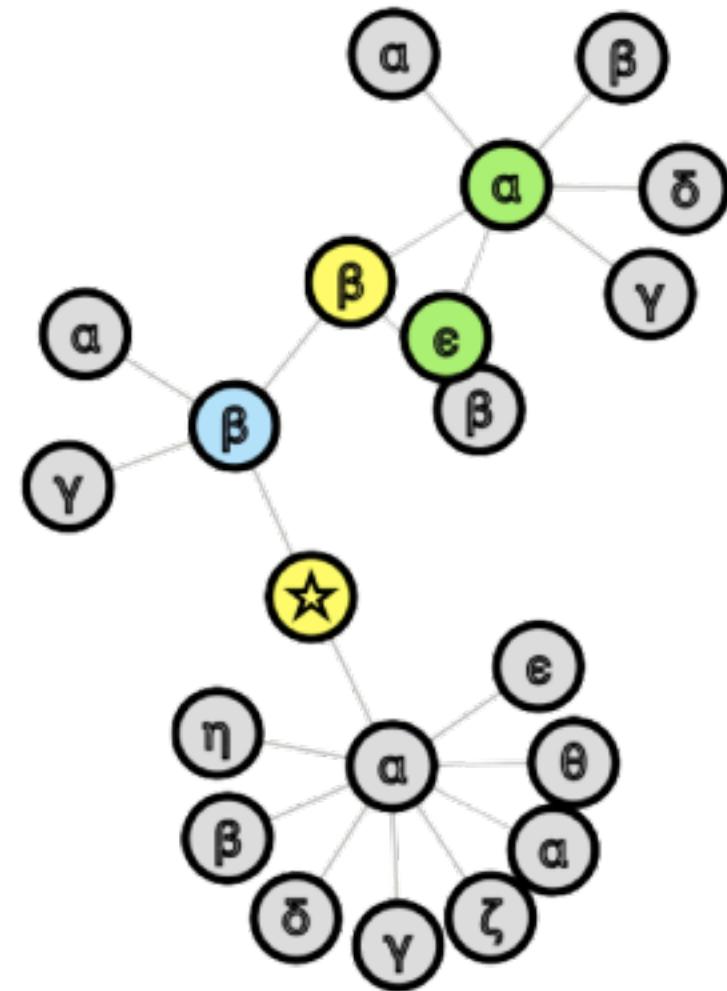
Find hotels in Tokyo, Osaka, ...



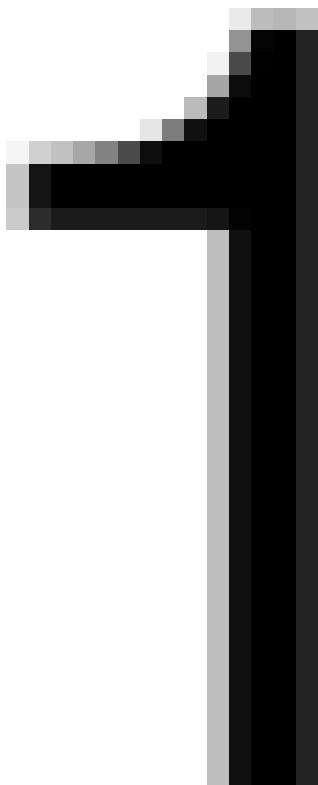
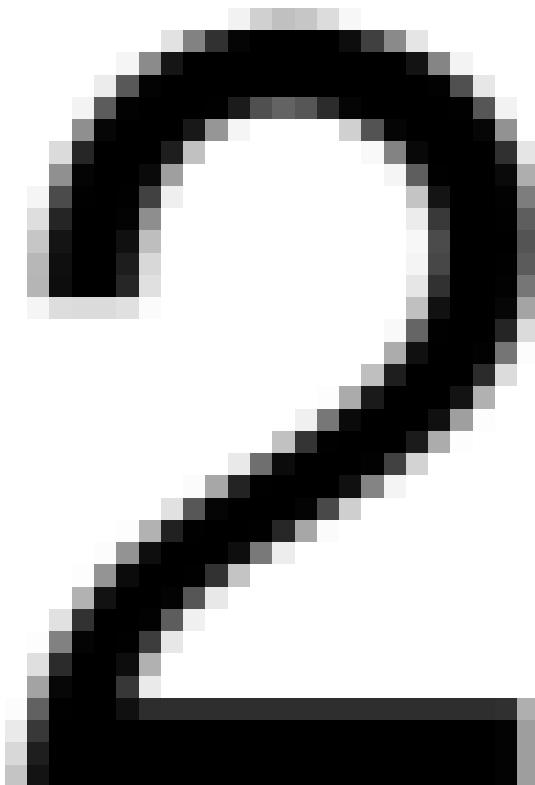
Search for a hotel in Tokyo...



Search for a hotel in Osaka...



Delegation Graph

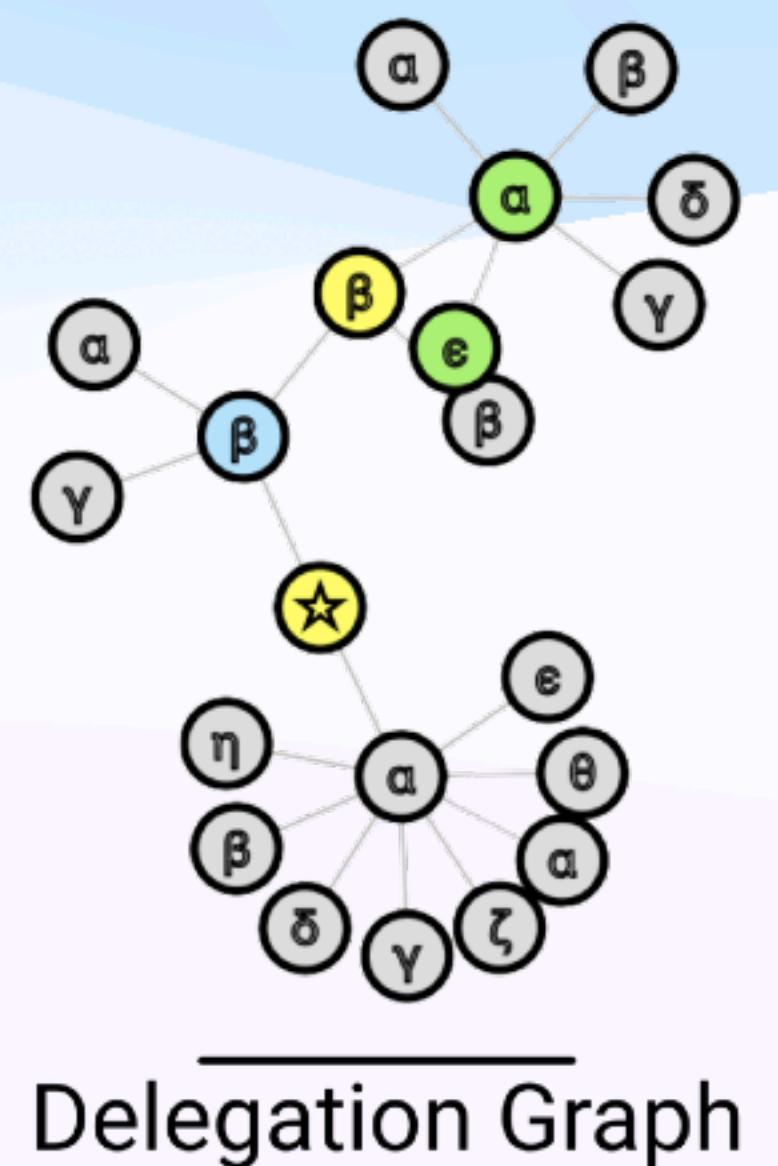


2024 Welcome

ReDel

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ReDel Tools

Tools to build recursive multi-agent systems

	ReDel	LangGraph	LlamaIndex	MetaGPT	AutoGPT	XAgent
Dynamic Systems	✓				✓	✓
Parallel Agents	✓	✓				
Event-Driven	✓		✓			
Run Replay	✓		✗			
Web Interface	✓		✗			
Fully Open Source	✓	✗	✗	✗	✓	✓

Root node message history.

Send new messages to the root node.

Tree view.

A running node.
Waiting on children.
A finished node.
The selected node.
The root node.

Please find out the height in inches of the 2021 World Car of the Year.

Selected: delta-1

To find out the height in inches of the 2021 World Car of the Year, we need to perform two steps:

- Find out which car was awarded the title of World Car of the Year in 2021.
- Once we know the car model, we can look up its height in inches.

I'll delegate these tasks to two different helpers at the same time to speed things up. Let's do this.

Load saved session

Search

Sort by last edited

The current directory (relative to the save roots).

fanoutqa: Who are the current government leaders of the top four countries in terms of GDP? (70da494f6dbf575c)

fanoutqa: Where are the headquarters of the top 5 companies on the Fortune Global 500 in 2023 located? (e9b241d79ff08ba7)

fanoutqa: What is the area in square kilometers of the city that hosts the alma mater of all partners of the main actors from 'How I Met Your Mother' who eventually hosted the Academy Awards? (498337828f5896d3)

fanoutqa: Which are the top four teams with the most Super Bowl wins and in which states are they located? (7a60f1cc781f2fbe)

fanoutqa: What was the per capita GDP in US dollars in the four continents with the highest GDP in 2022? (30485427b5578fc0)

fanoutqa: At which country is the capital located? (77c9fca665f9fd)

The save's title.

The number of events in the save.

The date and time the save was last modified.

pip install redel

github.com/zhudotexe/redel

redel.readthedocs.io