

Defining Agents

Instructor

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How do we do stuff?



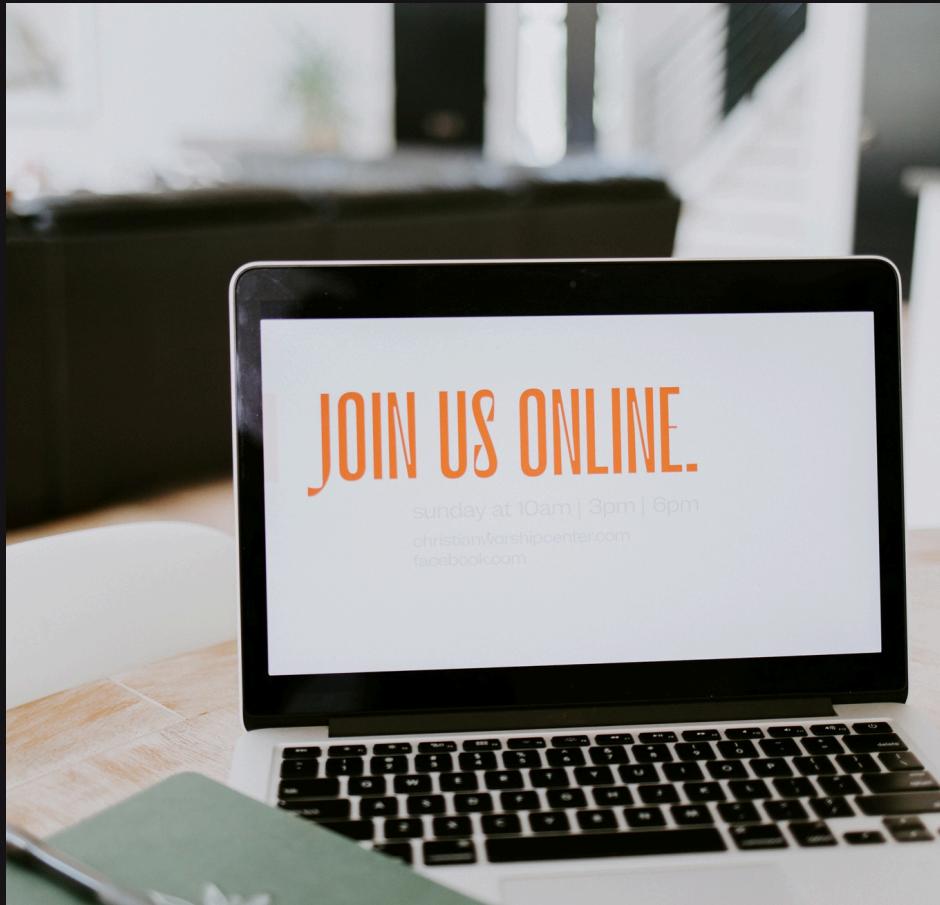
We think and we act



Thoughts + Actions



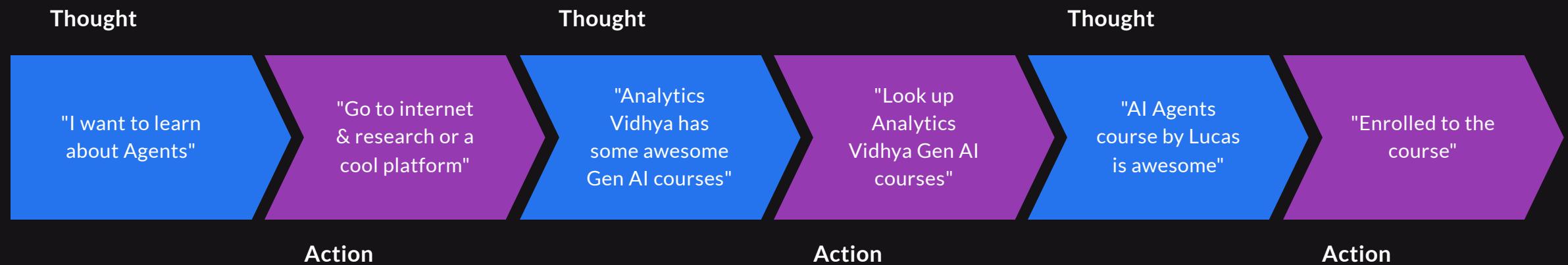
Thought + Action: Example



Decision-making process for enrolling in
an online course

Thought + Action: Example

Decision-making process for enrolling in an online course



66

Thinking

What to do + planning (order,priority..)

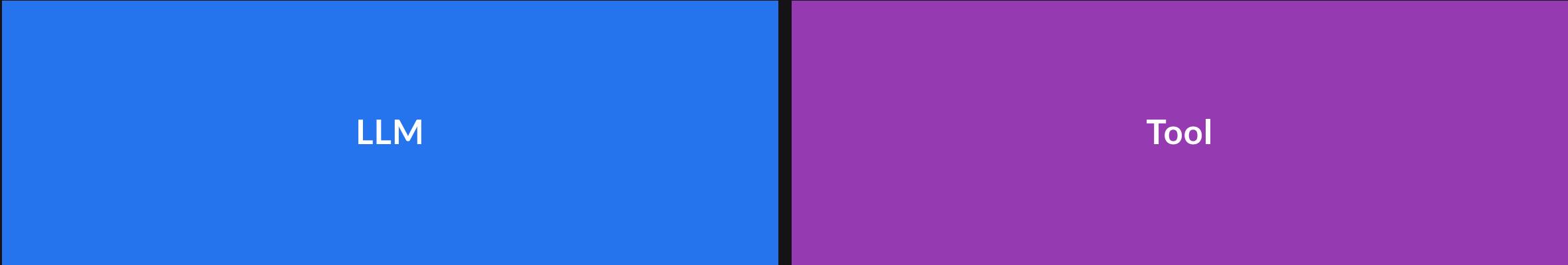
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Acting

Use tools: search, browser, etc....

What is an Agent?

A combination of:

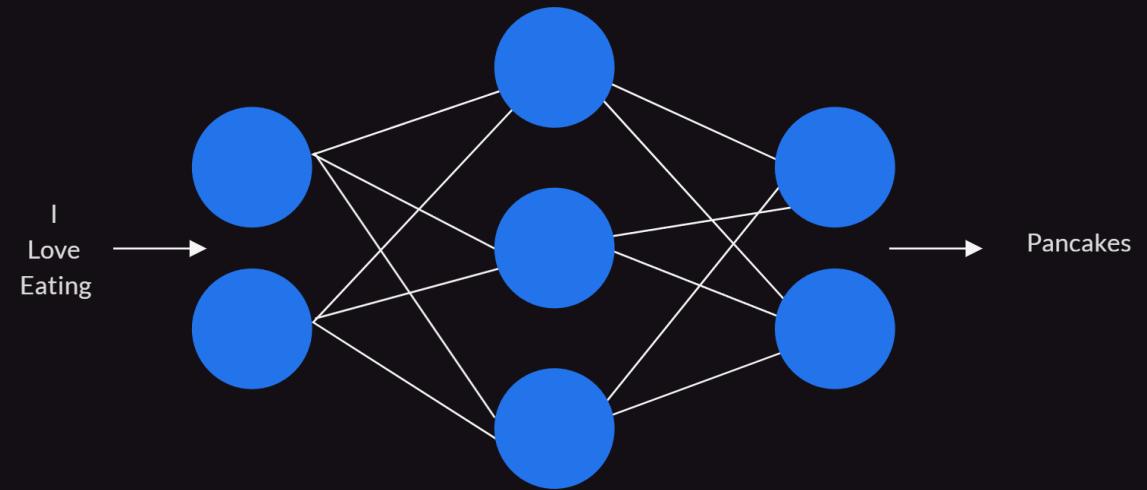
A horizontal bar divided into two colored segments: blue on the left and purple on the right. The word "LLM" is centered in white text within the blue segment, and the word "Tool" is centered in white text within the purple segment.

LLM

Tool

What is an Agent?

LLM
predicts next word/sentence



What is an Agent?



Tool

perform actions in the real-world

Toolformer

- LLMs can teach themselves how to properly call external tools!

The New England Journal of Medicine is a registered trademark of [QA("Who is the publisher of The New England Journal of Medicine?") → Massachusetts Medical Society] the MMS.

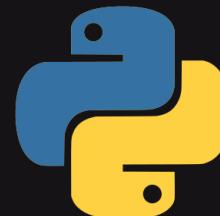
Out of 1400 participants, 400 (or [Calculator(400 / 1400) → 0.29] 29%) passed the test.

The name derives from "la tortuga", the Spanish word for [MT("tortuga") → turtle] turtle.

The Brown Act is California's law [WikiSearch("Brown Act") → The Ralph M. Brown Act is an act of the California State Legislature that guarantees the public's right to attend and participate in meetings of local legislative bodies.] that requires legislative bodies, like city councils, to hold their meetings open to the public.

Toolformer

- LLMs can teach themselves how to properly call external tools!
- Tool = Python



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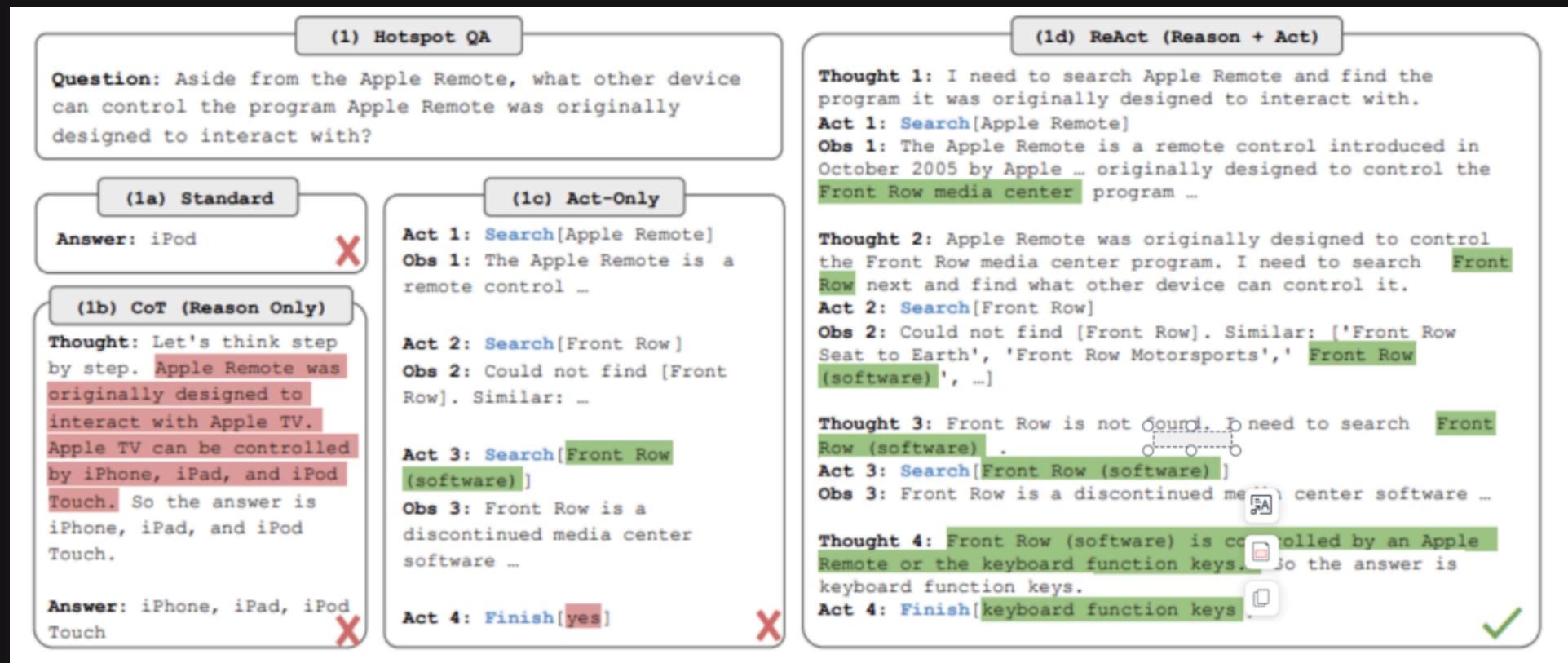
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React

LLMs for REasoning & ACTion



Thank You
