

Staying on Task

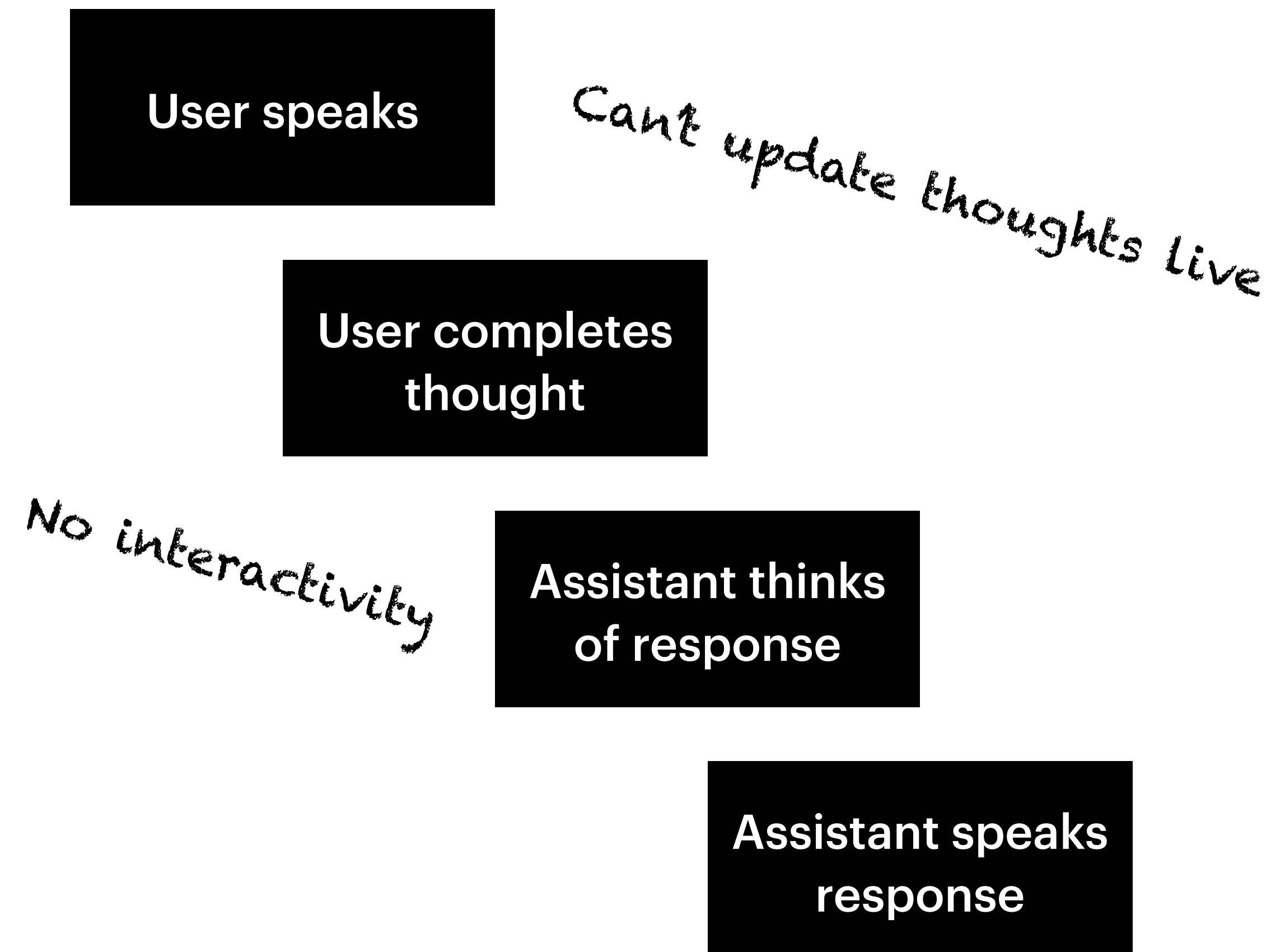
**Real time brainstorming
with a buddy**

Brainstorming Workflow

- Reduce the distance between your thoughts and formalized ideas.
- A good brainstorming partner is one that keeps you on track, gently nudging you away from context switches.
- Eventually branch out to multi-threaded thoughts.

Problems with TTS / STT

- Latency makes every speech use case feel unnatural.
- Use cases like interview prep, public speaking practice, tutoring, etc. are all blocked without low-latency speech to speech interaction.
- Besides latency, there are human elements to speech that are missed with AI by default.



Giving AI Our Imperfections

- Humans buy time in between turns of a conversation.
- Sometimes we cut each other off.
- Sometimes we update our thoughts while we're talking.
- “Mistakes” in conversation make a back-and-forth feel more natural.

Wow! Yeah,

Hmm.. maybe...

!!??

Umm...

Maybe we should – or actually,

High level flow

Reference

- user speech is transcribed in chunks live
- partial transcriptions are passed to GPT to guess response
- GPT responses come with confidence score to decide when to speak response
- arbitrage agent picks a pre-recorded transition phrase to buy time
- then streams real speech from elevenlabs
- in the background, "another agent" tracks mindmap of the idea