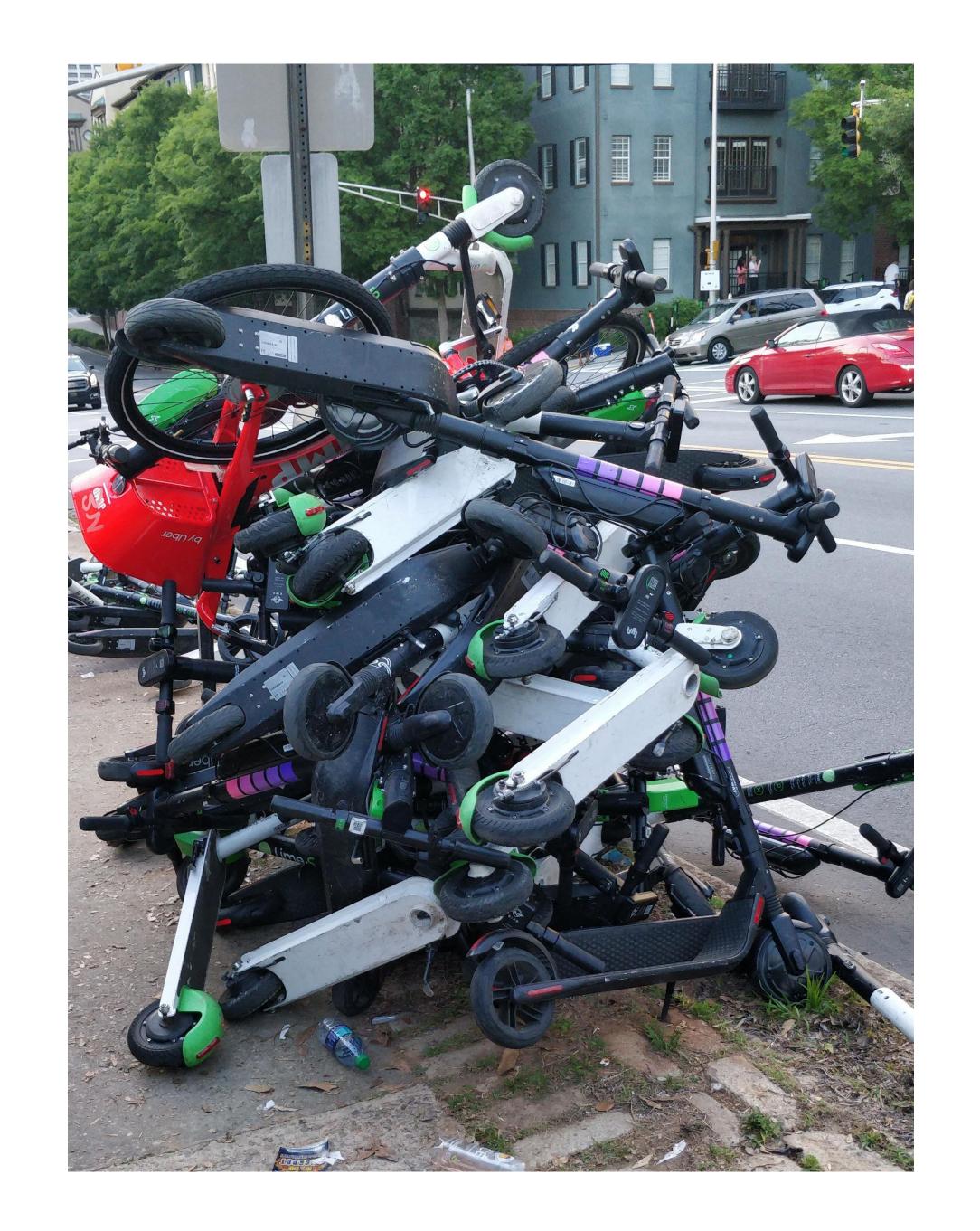


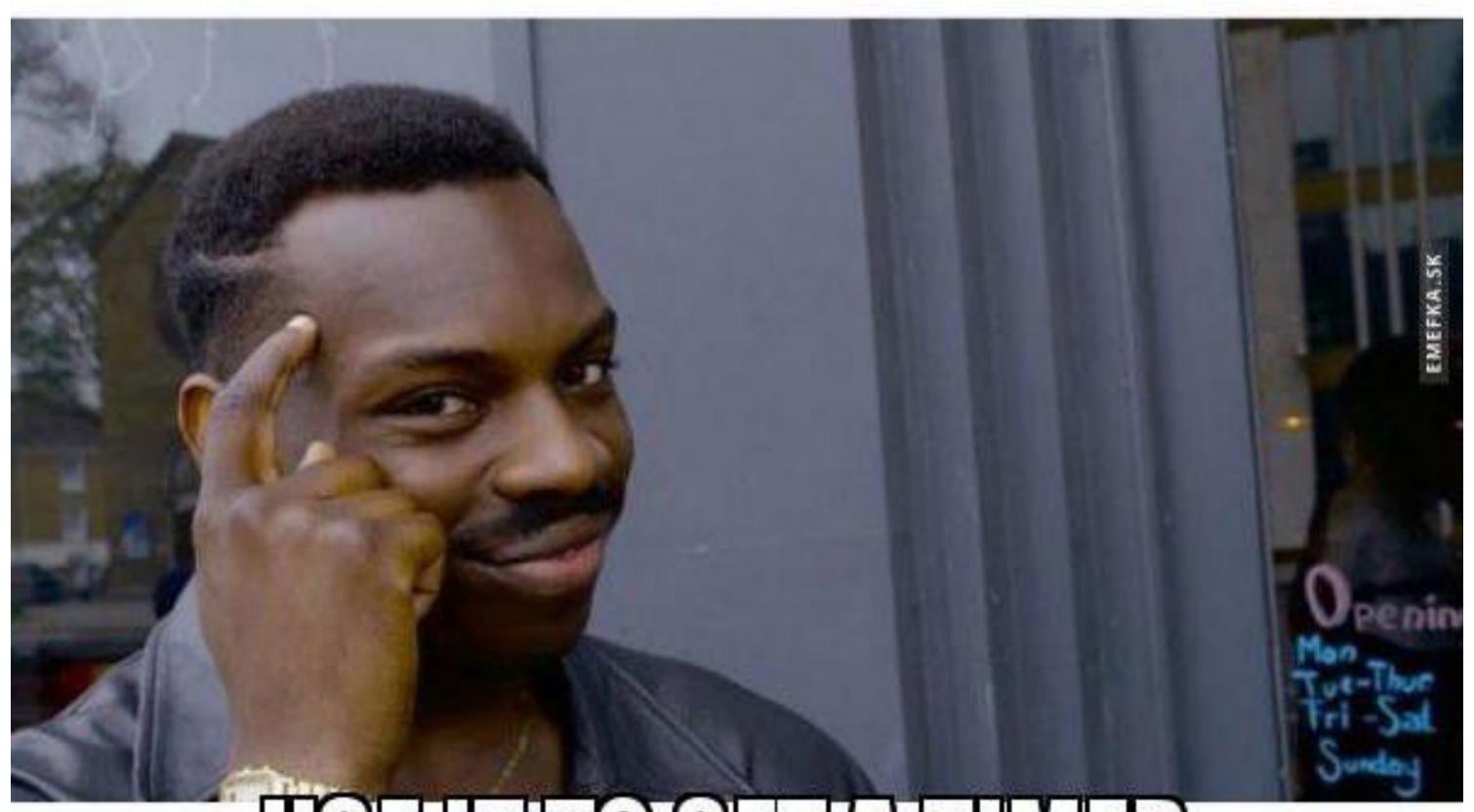
Voice Assistants Failed Us: Can Design Save Them?

Clint Miller



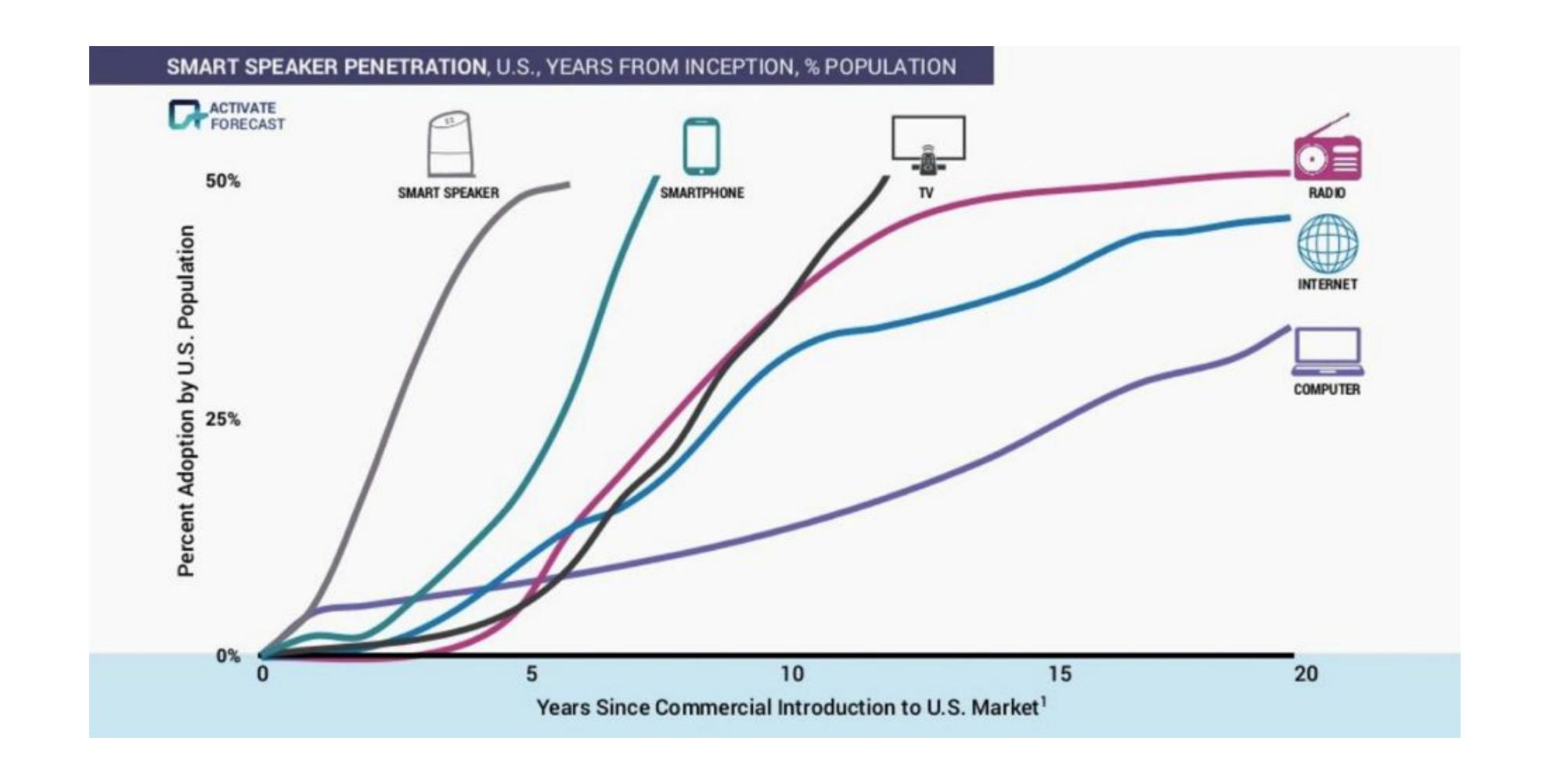












0 1 2 3 4 5

Mobile

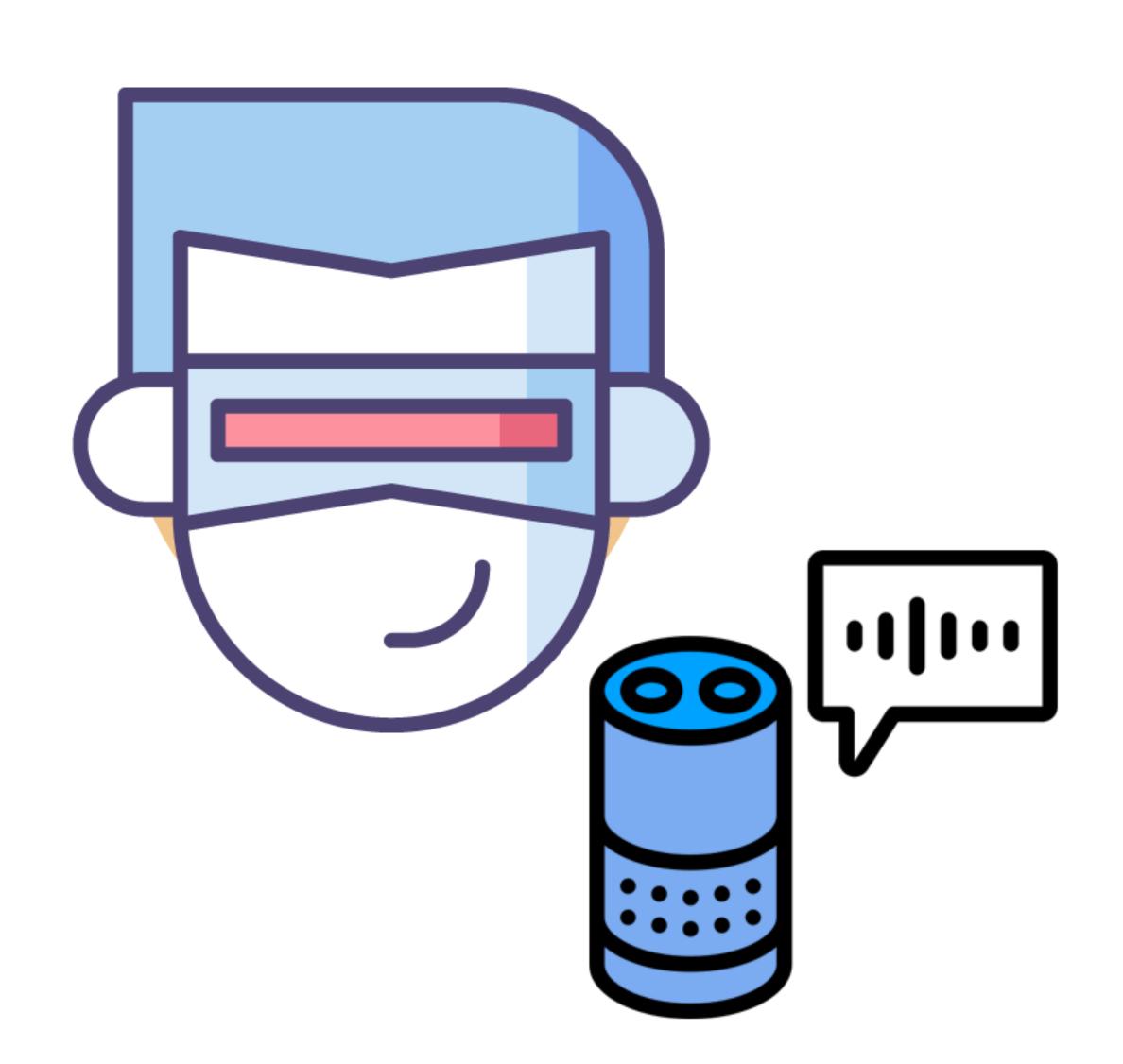
2007200820092011iPhone DebutsApp Stores DebutSquare
VenmoUber
Waze

Voice

2014 — 2015 — 2019

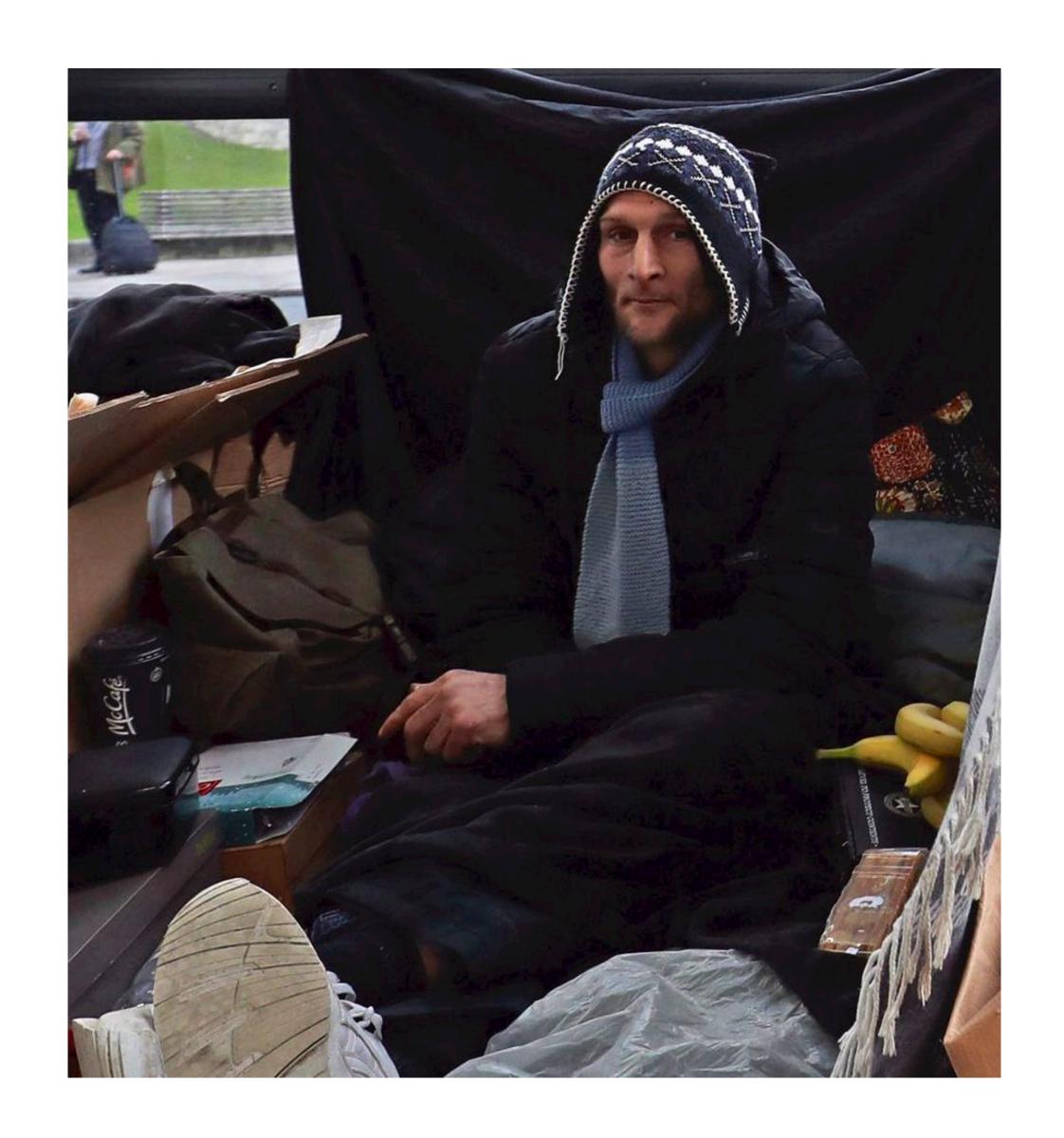
Alexa Debuts Skill Store Debut

Early adoption has caused conversational interfaces to be written off as a fad.













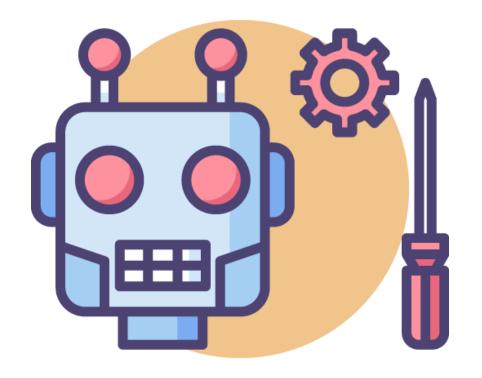


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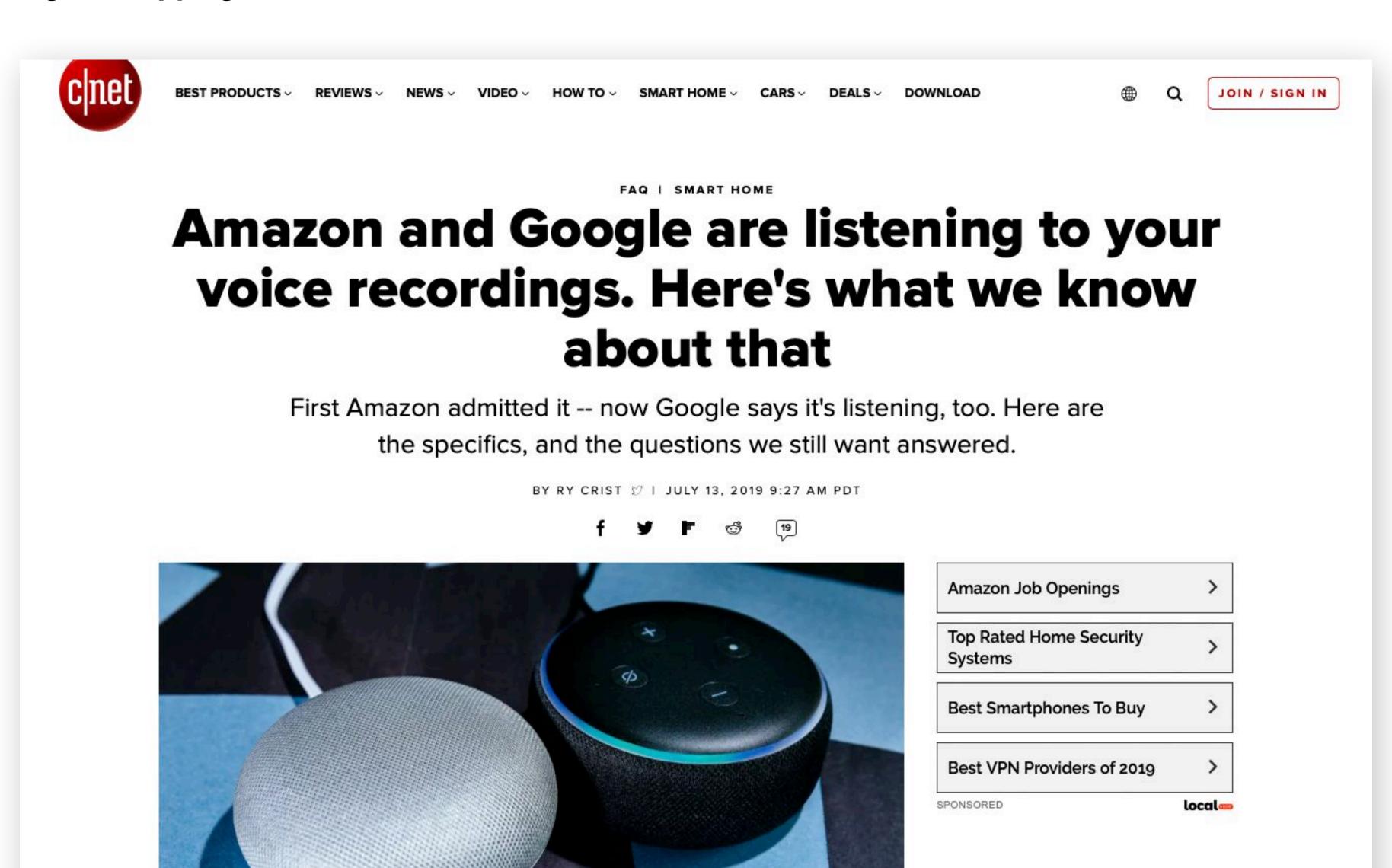


The assistant that failed you has been replaced.

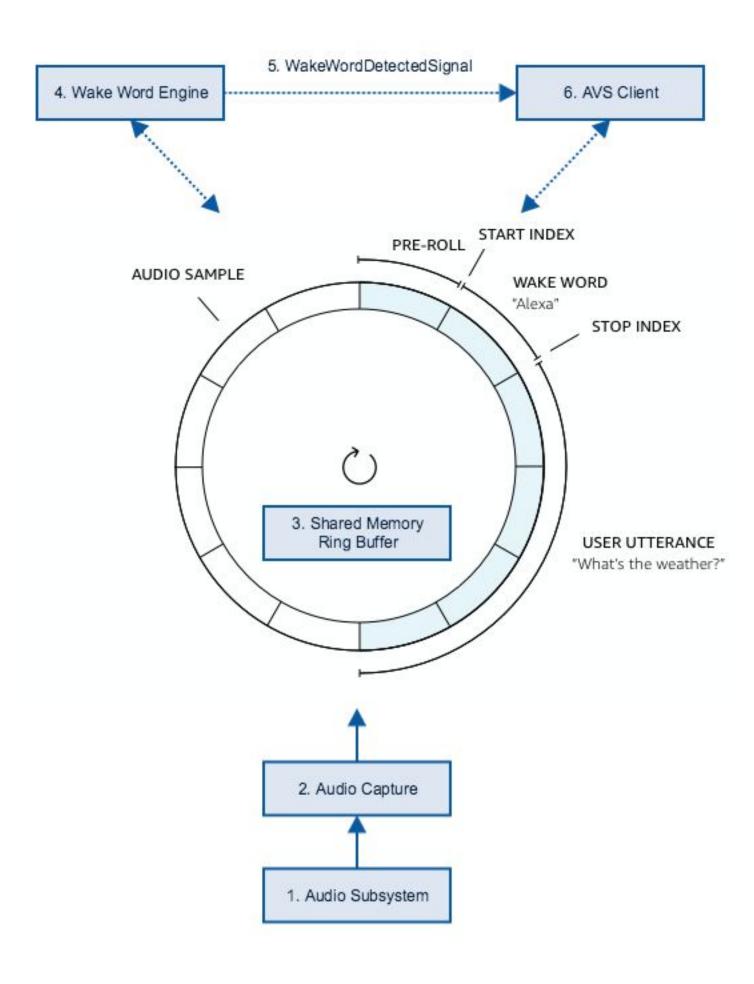
Improvements aren't readily apparent



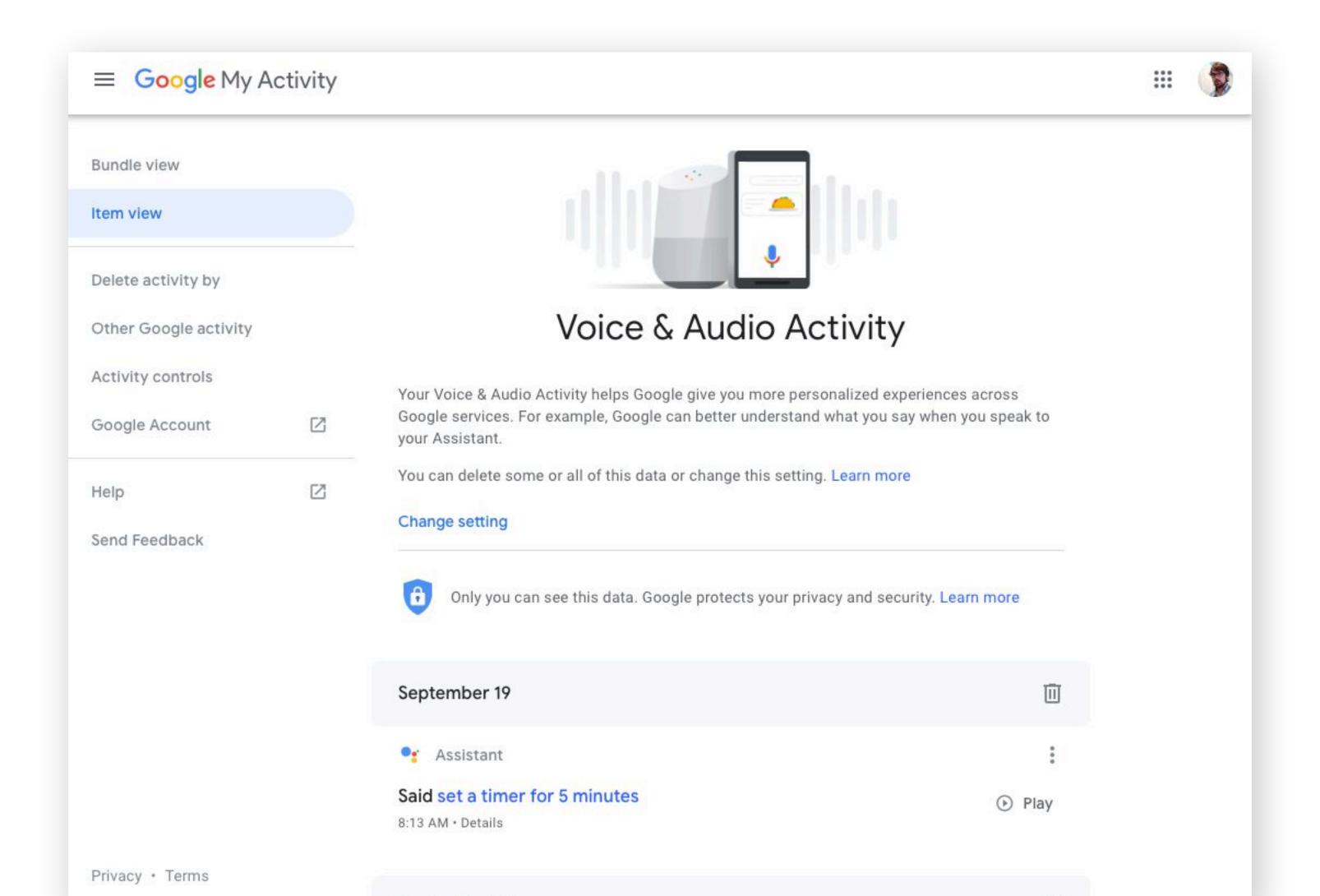
"These things are spying on me."

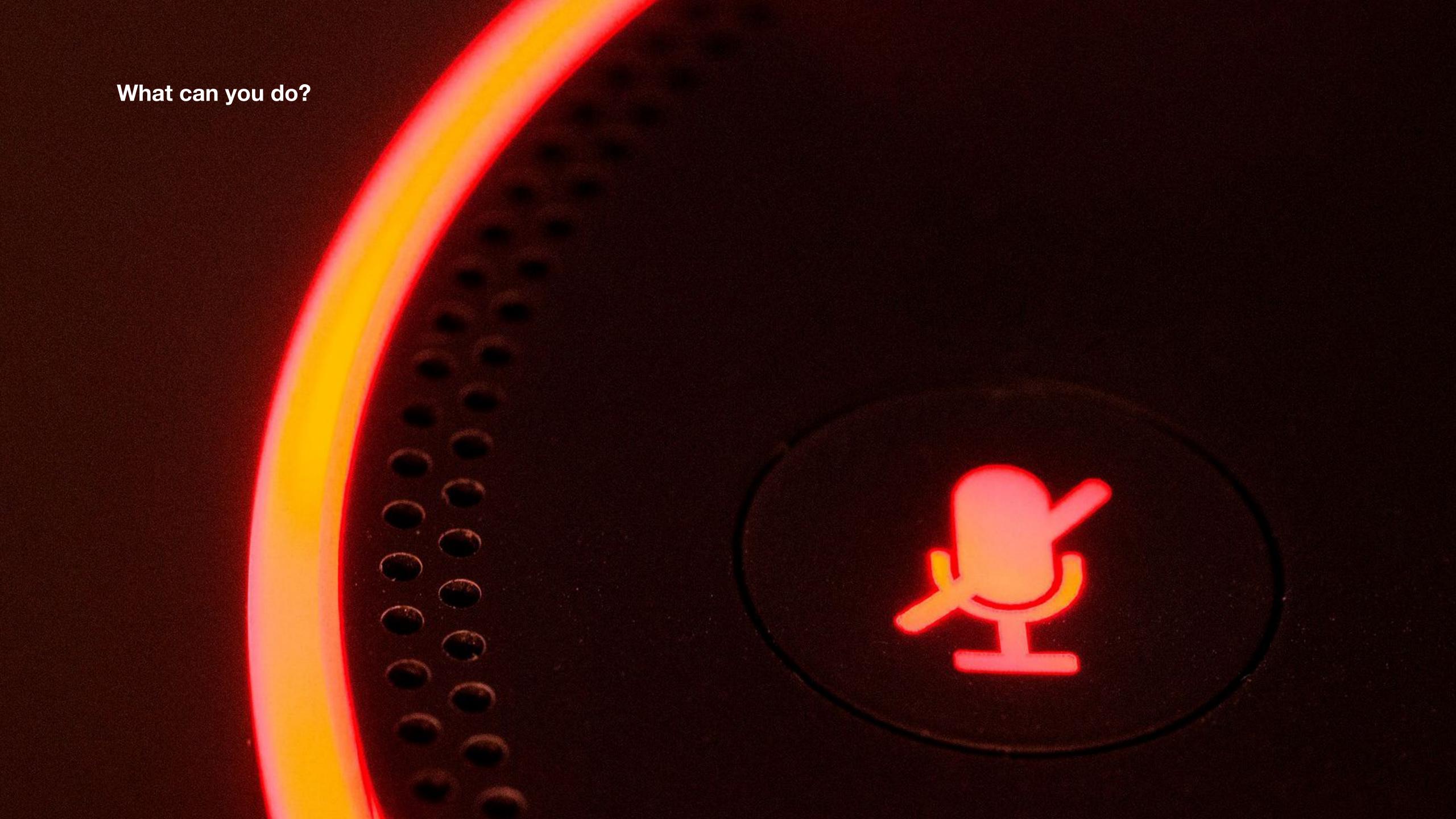


Any sufficiently advanced technology is indistinguishable from magic.



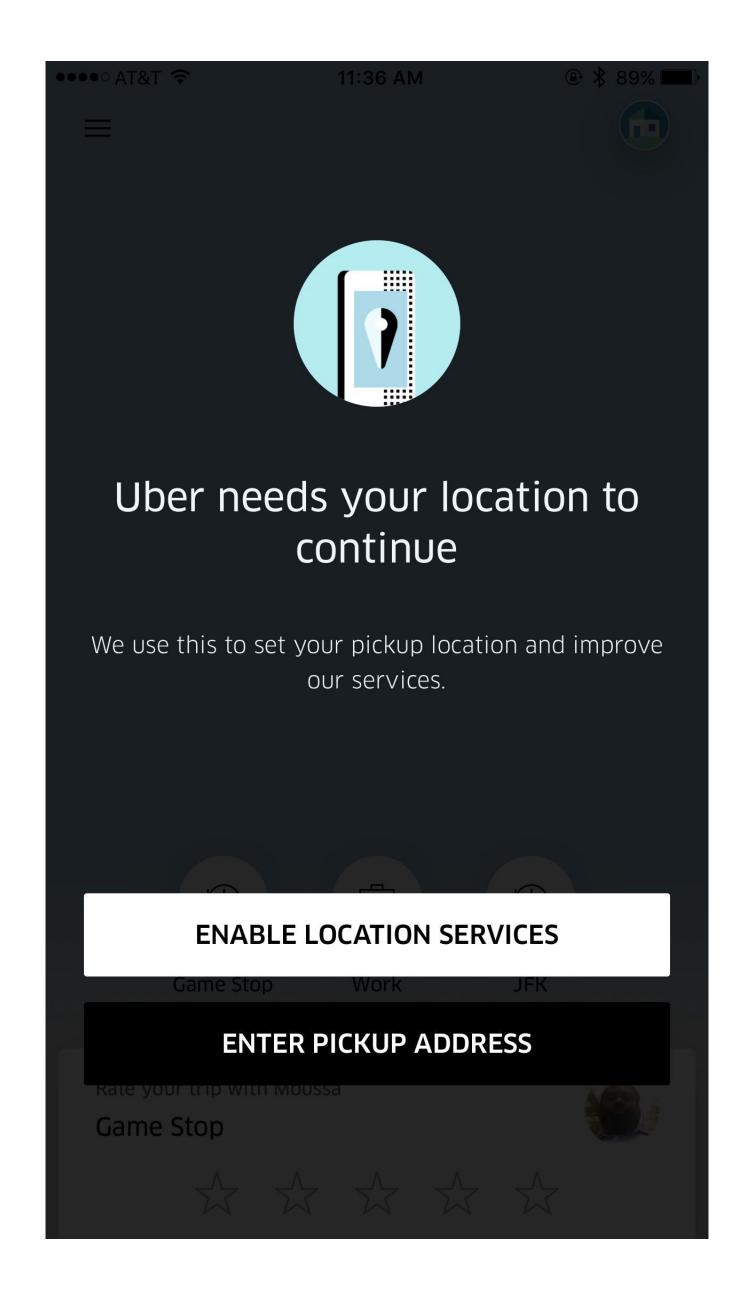
What are they doing to fix this?





We need transparency over what is shared and what isn't!

Because we want them to have as much relevant data as possible.

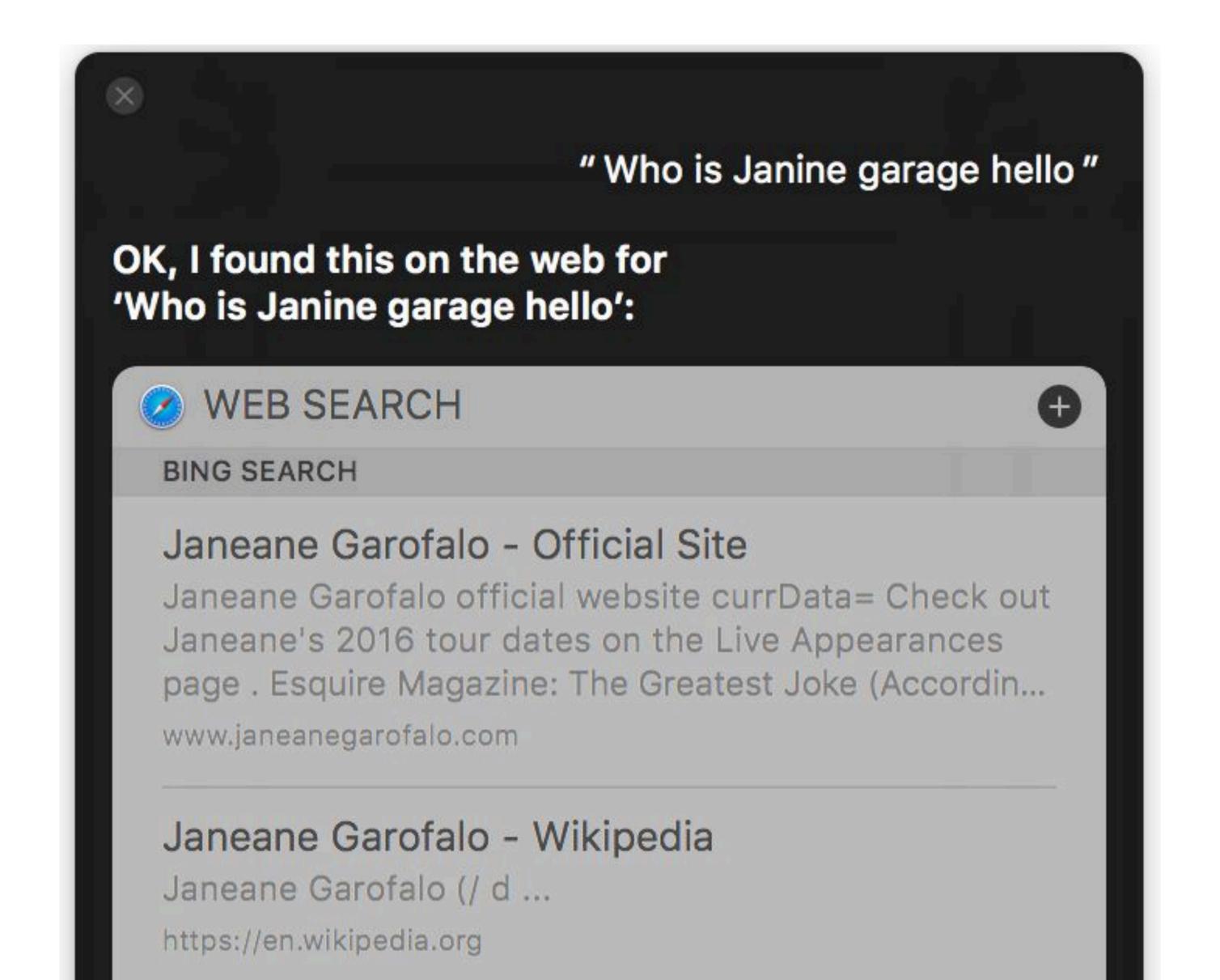


"I have to talk to it like I'm doing a google search."

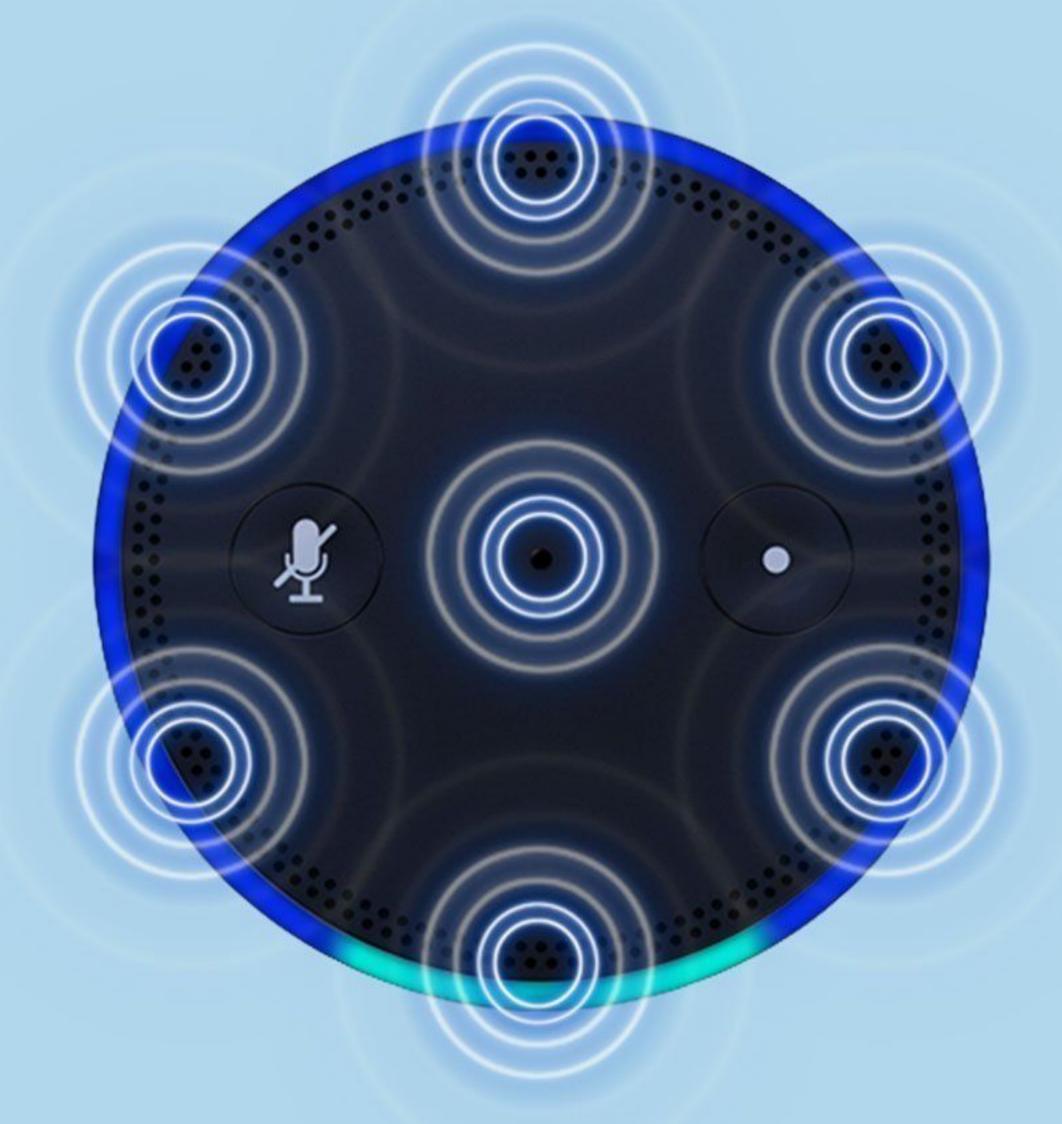
"Alexa, Weather!"



"She doesn't understand what I'm saying."



Other Advances in NLP

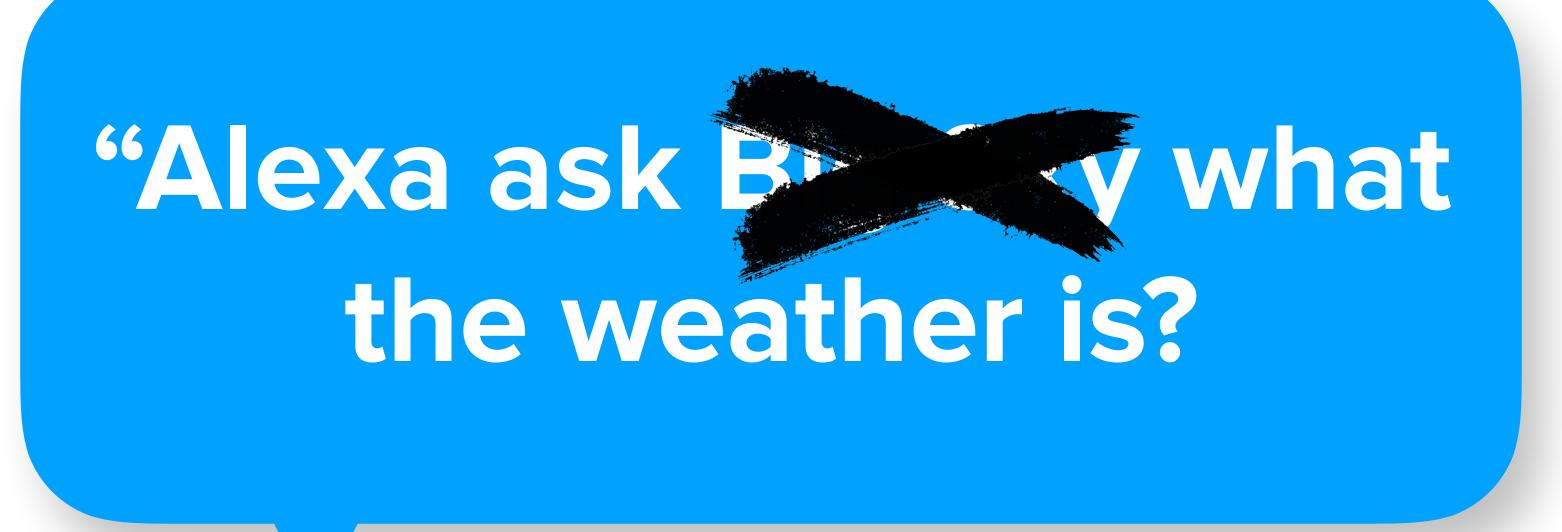


Everyone's voice should be understood.

"Nobody uses 3rd party functionality."

"Alexa ask Big Sky what the weather is?

"Nobody uses 3rd party functionality."



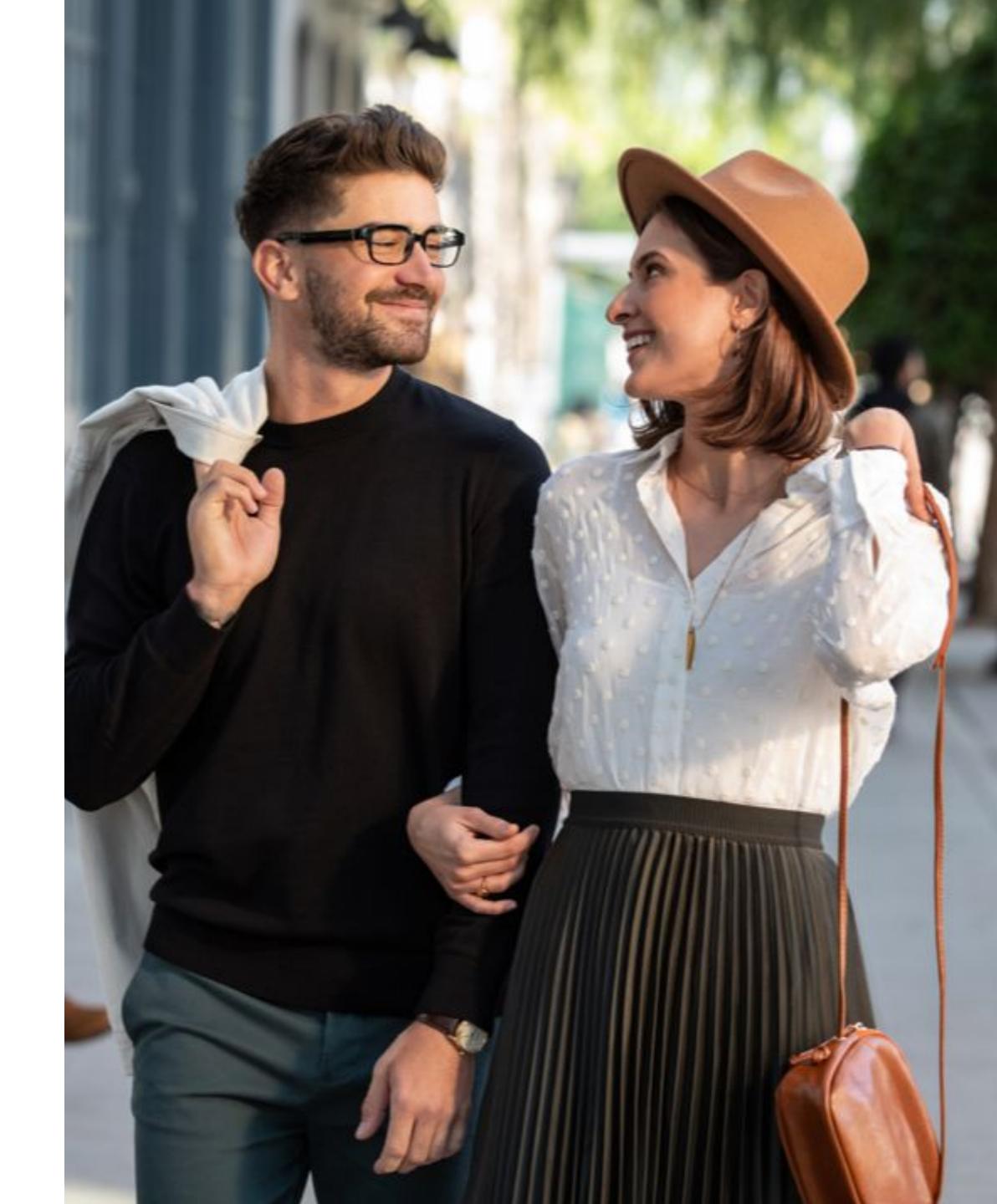


What would you say...you do here?





My eyes are up here.



Succinct Personalized Content

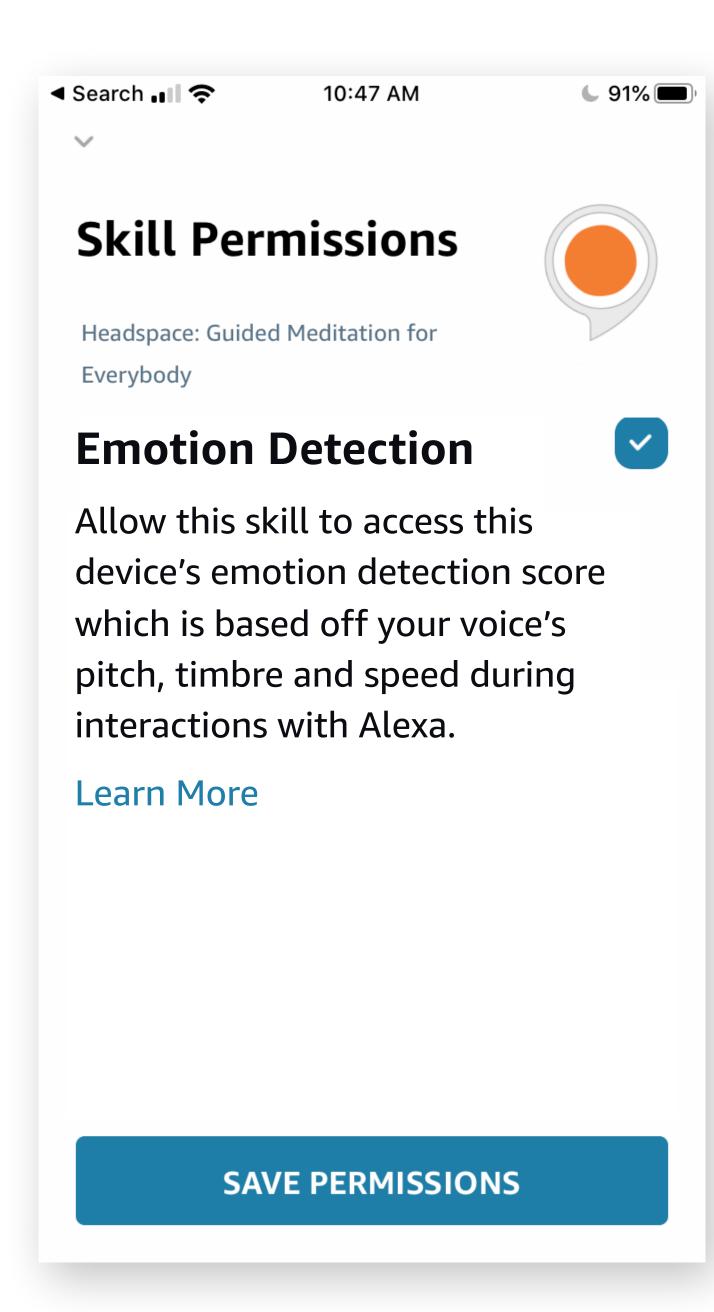


"Good Morning Clint, the weather is a bit rainy this evening at Lakewood Amphitheater. It looks like it's about 50 bucks to upgrade your Radiohead tickets from lawn to covered seating. Would you like to do that?









7:42 AM Monday

Frustration 92/100

"Damn it Alexa, that's not what I wanted"

11:06 AM Monday

Frustration 65/100

"Can you PLEASE play the new Lizzo track?"



9:06 AM Tuesday

Alexa, Open Headspace.

Users Frustration Average > 75

"Good Morning Celia. Would like to try a new Acceptance meditation?





D.R.E.A.M Design Rules Everything Around Me



What's our method?

Intent

Daily Weather Intent

Utterances/
Training
Phrases

Ok Google, What's the temperature <today>?

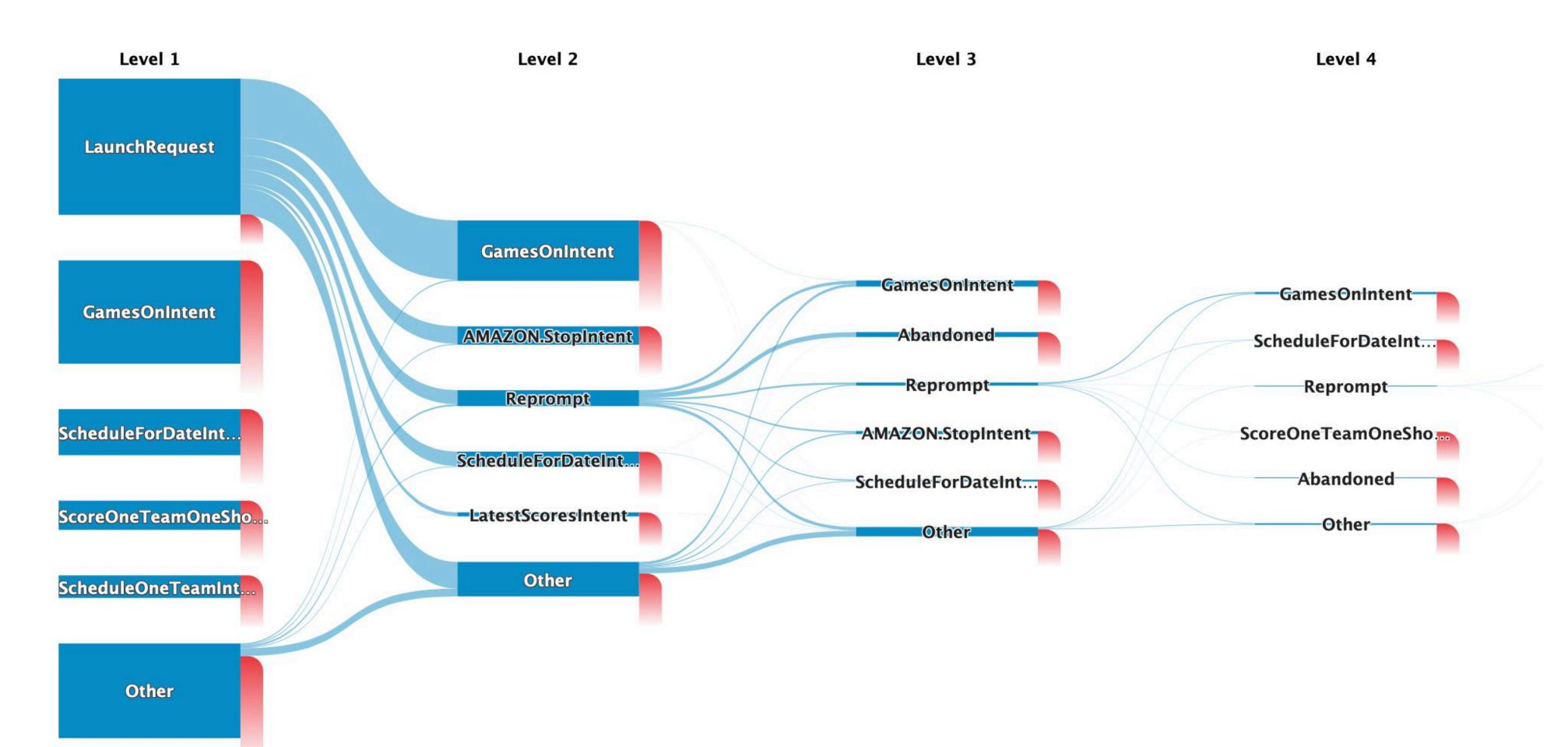
Ok Google, Tell me the weather <tomorrow>.

Ok Google, What's it like outside < Wednesday>?

Wake Word

Slot

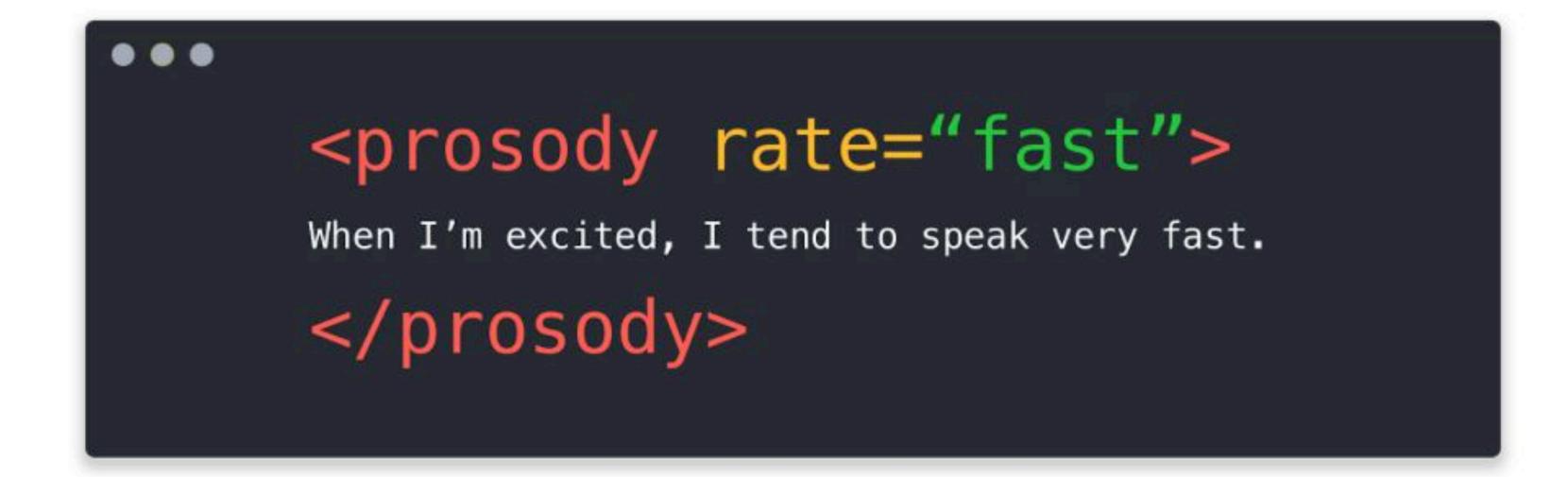
Interaction Path Analysis ?



SSML

```
For instance, when speaking with others

<br/>
<br/>
<br/>
a dramatic pause conveys emotion.
```



Advanced Sound Design Techniques



Conversation Variance

```
...
   Sample Response Combinations
   Female Zombie + I'm worried we can't stop 5 of them + I'm
   scared
   Zombie Hiss + Oh God, there's 5 of them in here. + I'm not
   sure we will make it out alive
   Aggressive Zombie + We've got 5 of those creeps after us +
   (No Flavor Text)
   And 33 other possible combinations.

    Sound Effects
    Transactional
    Flavor
```


Flowcharts vs. Situational Design

Topic

EXAMPLE UTTERANCE

-enter what the user says to receive this response-

REQUEST NOTES

- What request type is it
- Intent, slots, etc are used
- What logic is used to determine the situation
- If you're using the SDK, this card represents a handler and the top half of the card is a canHandle.

SITUATION

-enter details about the context of the situation-

CHANGES

-describe any changes to the context

RESPONSE

-enter the prompt in the response that drives the conversation forward-

PROMP'

-enter the prompt in the response that drives the conversation forward-

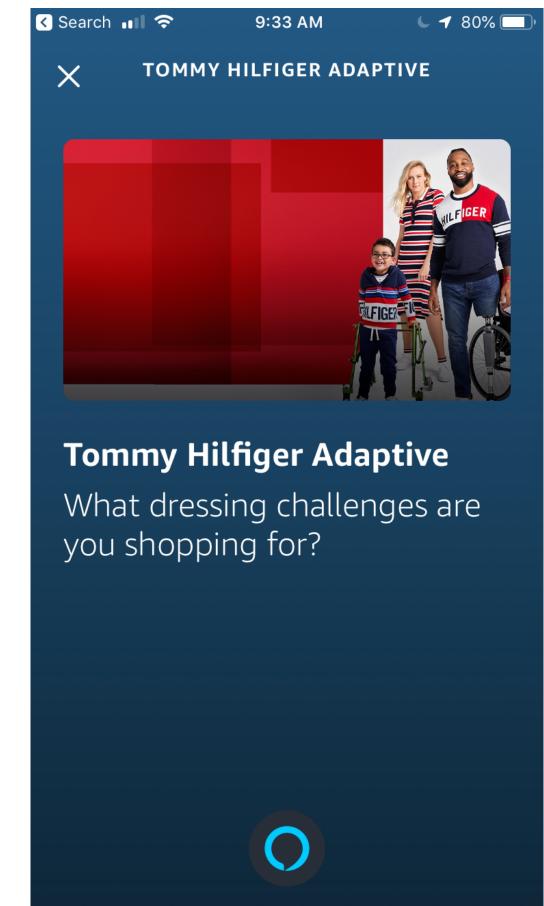
RESPONSE NOTES

- enter how to respond to the user's utterance, with placeholders for any dynamic slot values and required SSML
- enter the prompt in the response that drives the conversation forward, with placeholders for any dynamic slot values and required SSML-
- If you're using the SDK, this top half of the card is the handle.



Multi-modal





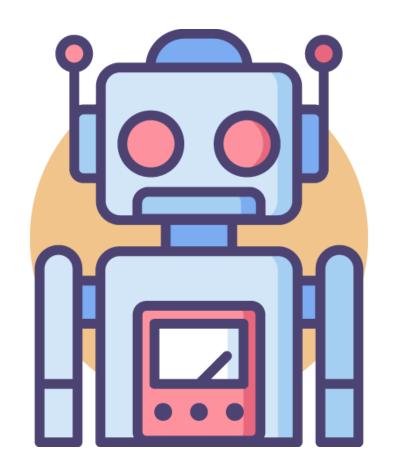


"Good design is as little design as possible."

Less, but better – because it concentrates on the essential aspects, and the products are not burdened with non-essentials. Back to purity, back to simplicity.

Dieter Rams

Voice Assistants Failed Us: Can Design Save Them?



Welcome to the Future









Conversation Design







See you next time! next X.I.T.

Thank you! Questions?

info@mrclintmiller.com mrclintmiller.com