envision

An AI for your Eye

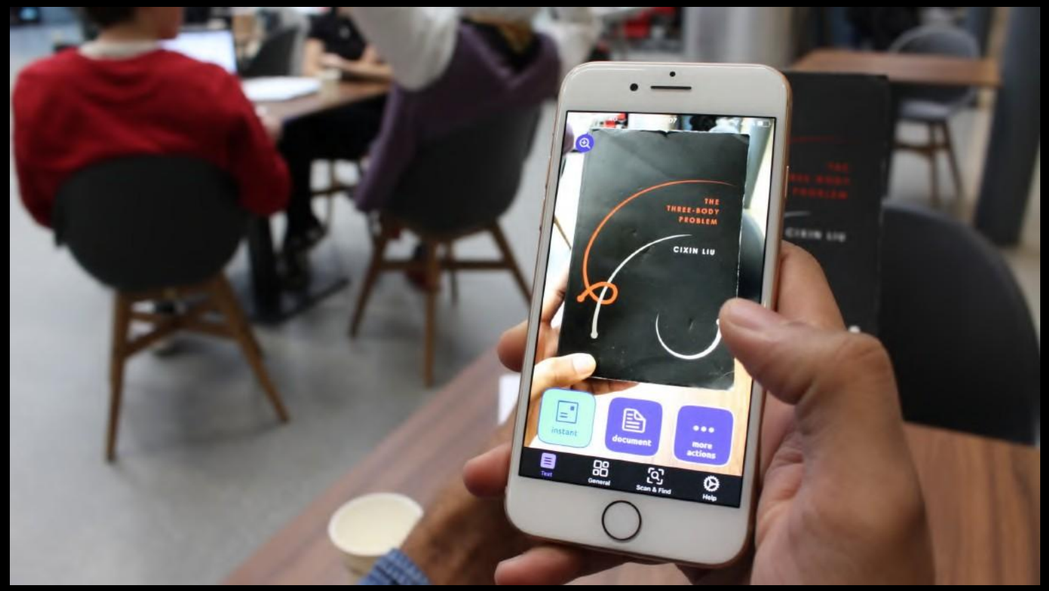
Pitch

About Me

Karthik Kannan

Founder, CTO @ Envision

Pitch



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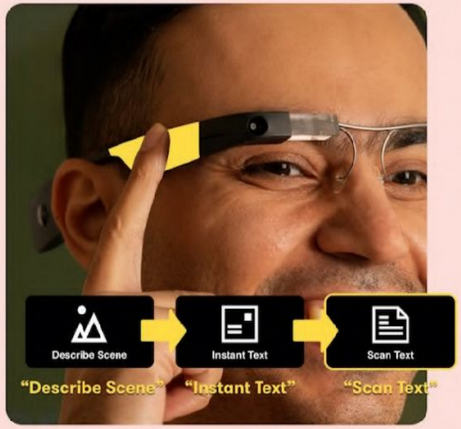
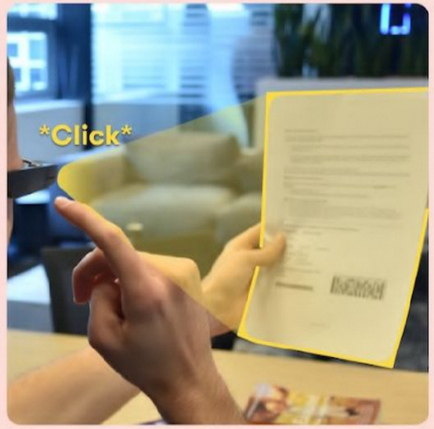
How do Envision Glasses work?

Envision Glasses are AI-powered handsfree smartglasses with a camera located on the front.

The user swipes through a menu by using the touchpad on the side which speaks out the features, for example: Scan Text.



The camera on the front captures a document (or any visual information) by doing a double-tap on the touchpad.



After a picture is taken, the image is processed and spoken out with the built-in speakers.

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50K+

Monthly Active Users

12,90

youngest & oldest users

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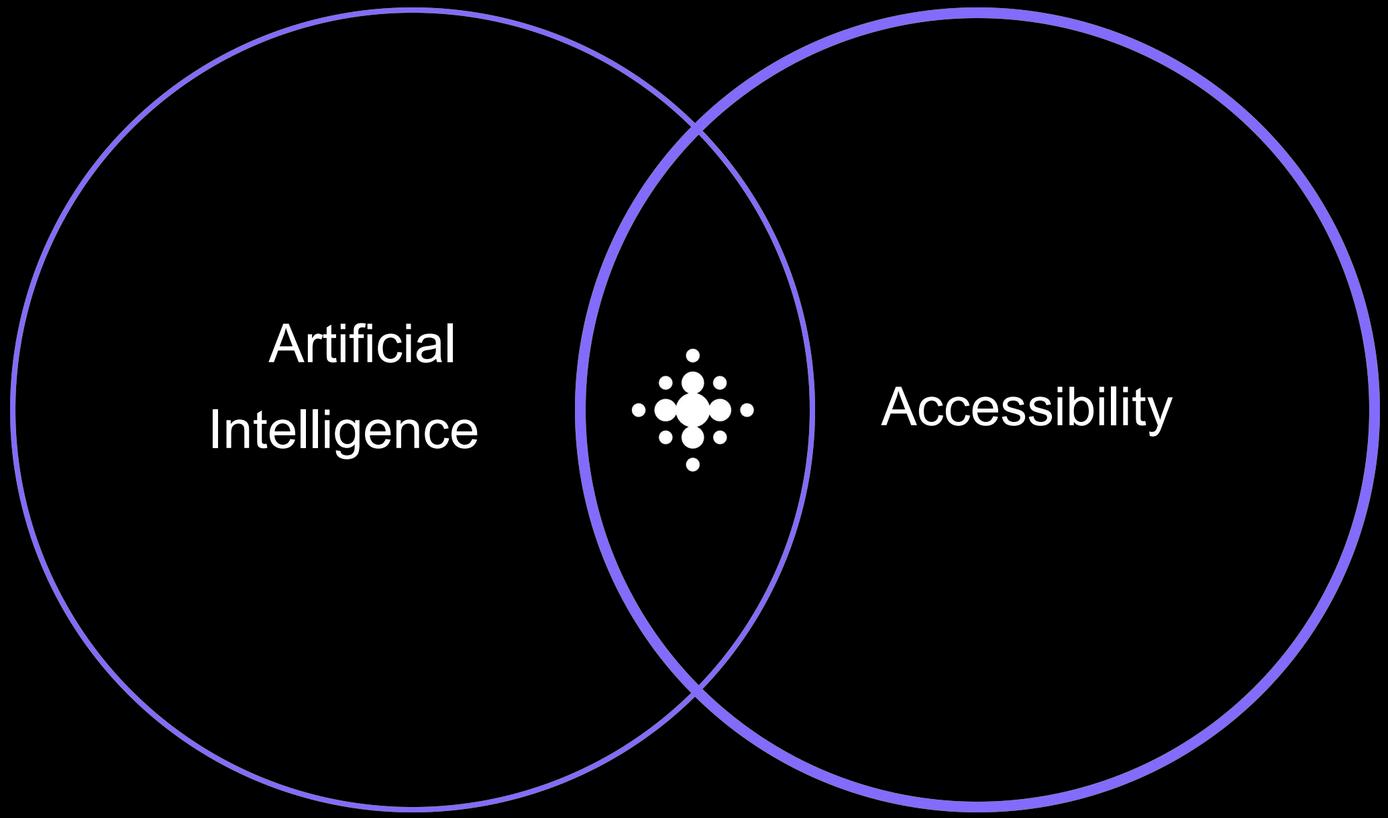

our biggest learnings

Picking the right problems

Working very closely with users

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- Working very closely **with** users. **AI +** Design combinations.

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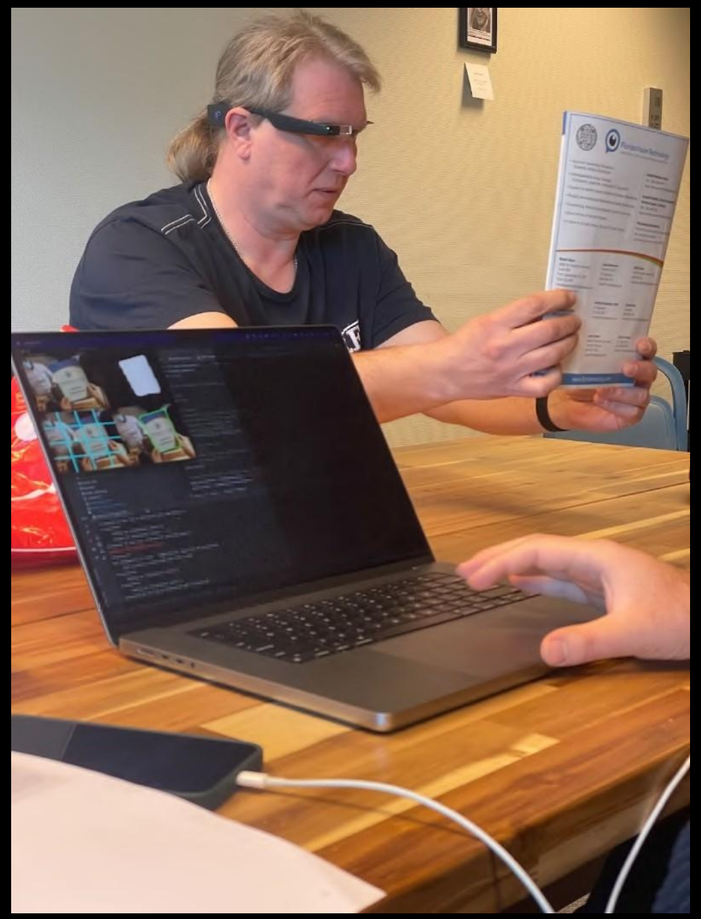

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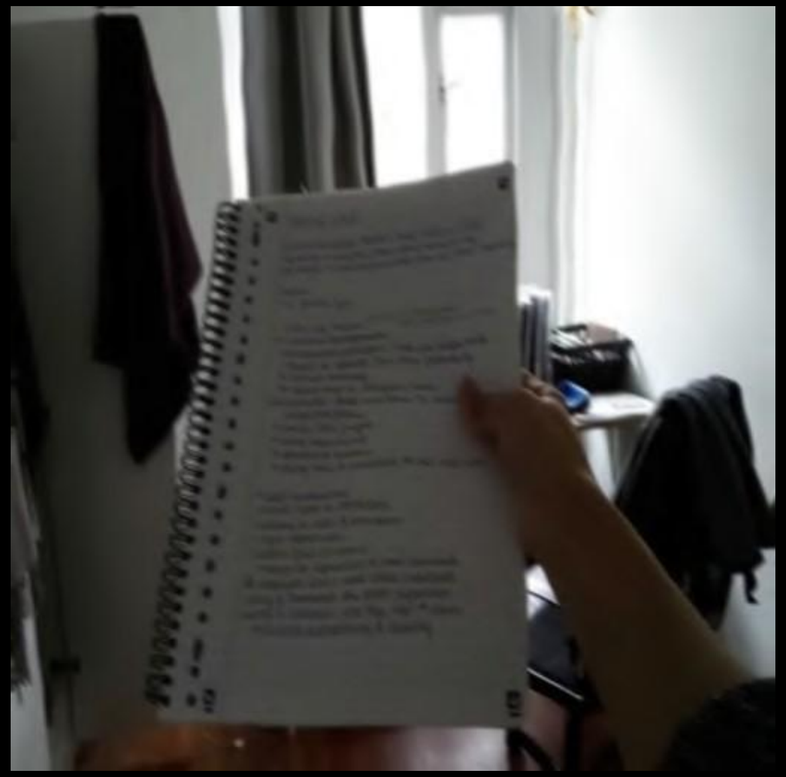

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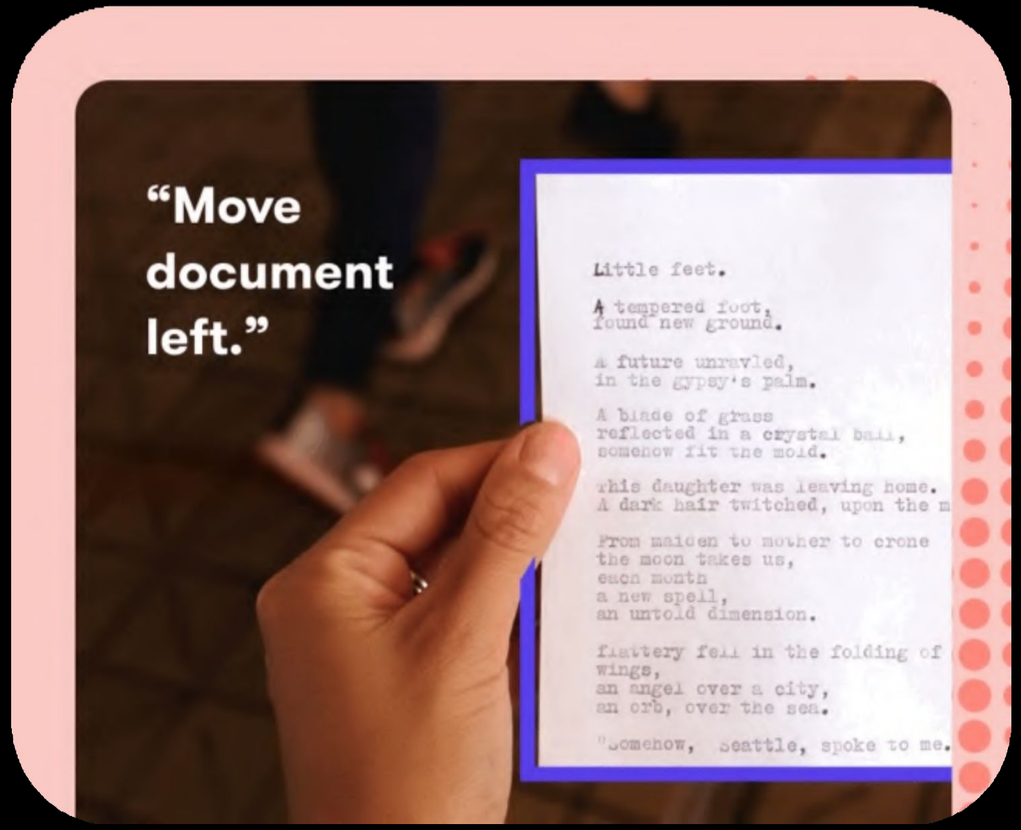
- Deployed our own data collection app for Glasses with detailed instructions.
- Total lack of open datasets is a massive problem. Heavily used synthetic data.
- Building a dataset that contains images taken from VIPs point of view of everyday tasks. Might release a portion for research.

Deploying AI on the Glasses



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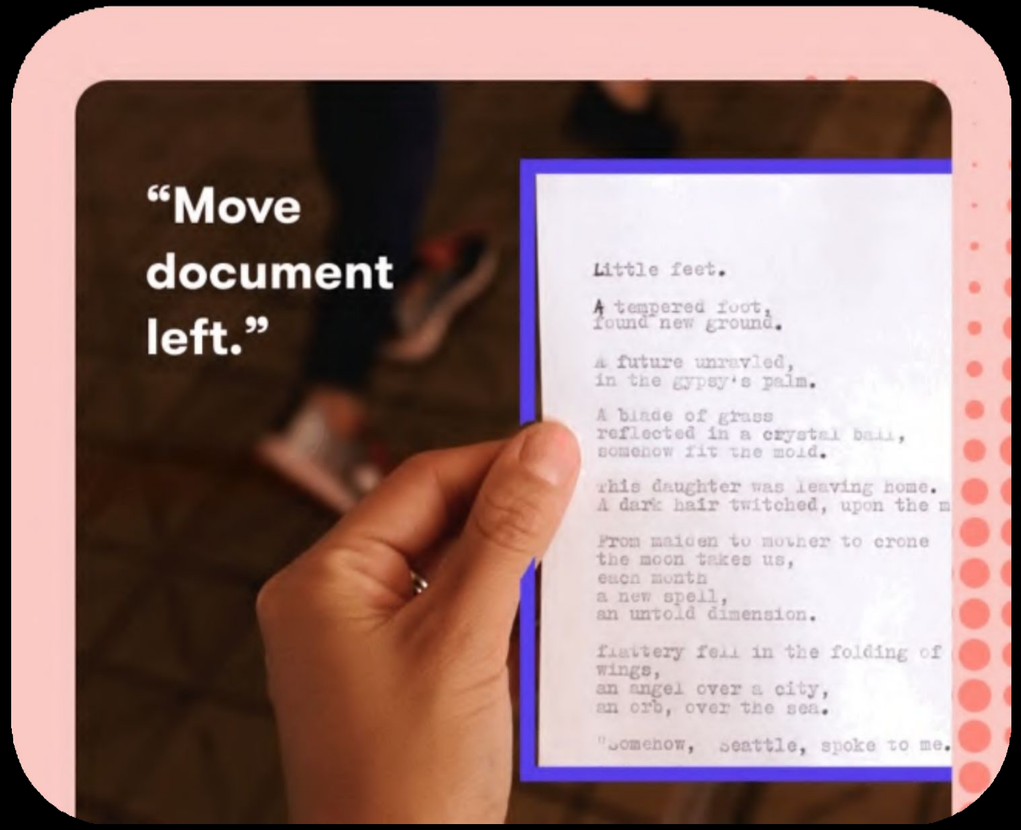

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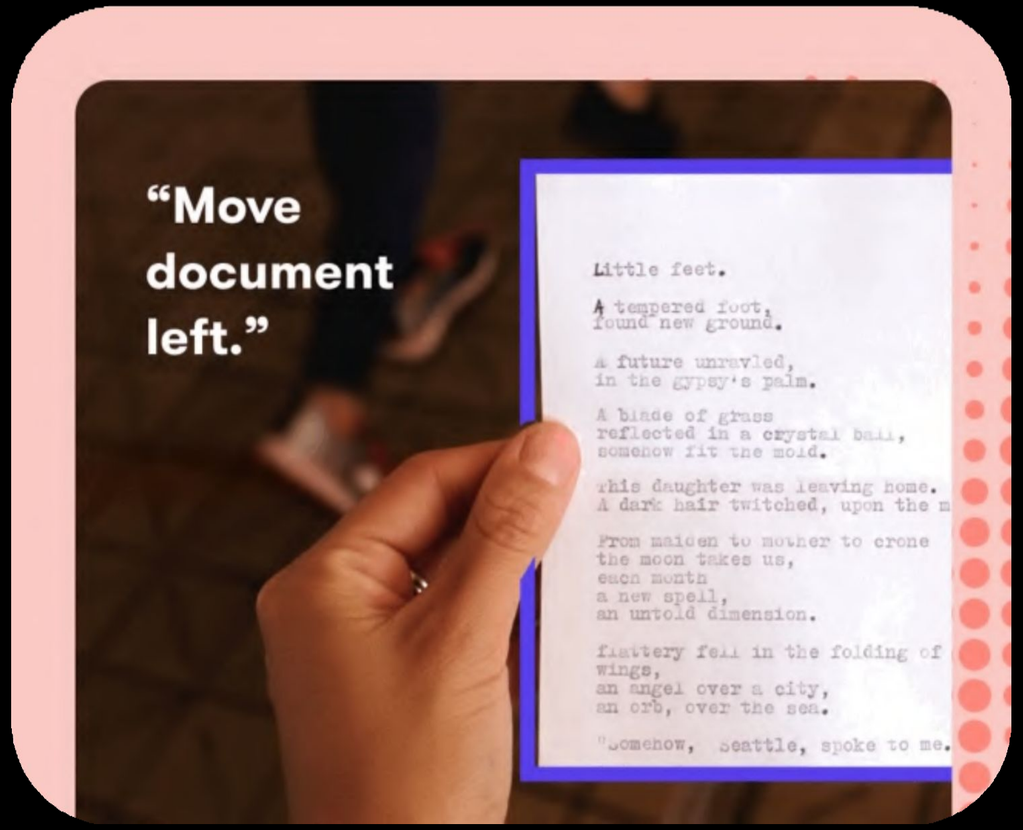

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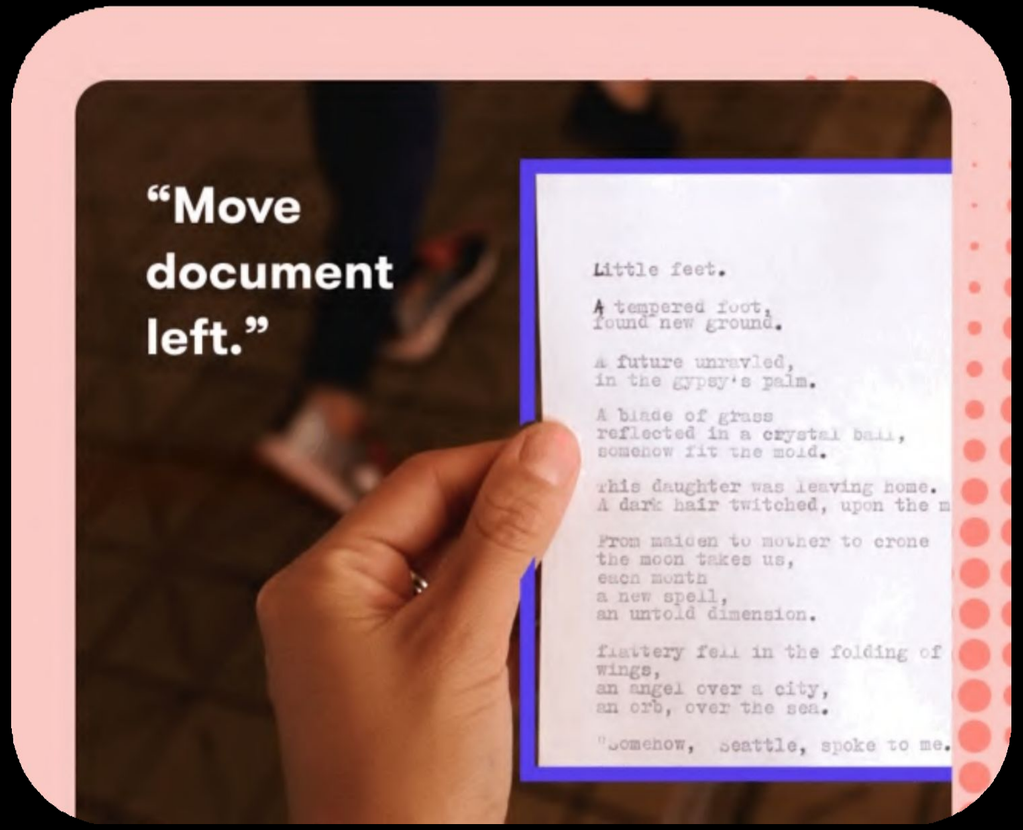

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- We use a platform-agnostic C++ stack. One common library across multiple platforms. Worth reskilling.
- ONNX is probably a great bet .
- Ran experiments with superior bandwidth. Can't wait for that future.

Recap

Prototype models early & often.

Investing in data collection and augmentation is a worth while exercise

Too early to bet on deployment platforms. Especially on the edge.

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Most importantly

Karthik, you are engaged in doing the work of "Angels," shining the light of inclusion upon those who for too long have been relegated to the margins of society. A tremendous wealth of talent exist in the blind and low vision community, talent that needs advocates and pioneers like those at Envision and Aira. My community is not looking for a hand-out or for sympathy. We are simply looking for the tools that help level the playing field. You are both working on delivering those tools and for that I am eternally grateful.

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Here's to leveling the playing field.

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Open to Q&A.