GroZi
A Grocery Shopping Assistant for the Visually Impaired

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Abstract
10 million blind and visually impaired people live in the United States. The blind seek to complete everyday tasks independently including shopping at a grocery store. To satisfy existing needs, the GroZi group, a team of undergraduate engineers, is designing a prototype, digital grocery shopping assistant to enable visually impaired people to shop at their own convenience and privacy. A blind shopper will use the grocery store assistant and a cane or guide dog to autonomously select grocery items.

Soylent Grid
In order to design a grocery shopping assistant for the visually impaired, we need a program that will allow us to save images of grocery store items in a real environment. A program known as Soylent Grid, will enable us to collect thousands of images without the need of intense human labor.

Goals for this quarter
Customizing User Interface for new labeling tasks and storing results into a database for use in future computer vision systems.

Future stages
- Deploy Soylent Grid to public facing websites
- Partner up with industry clients to prevent spam and researchers who need data labeled.

reCAPTCHA extracts useful work from web surfers while protecting web pages from spambots.

Soylent Grid Interface
The user is prompted with tasks – one of which we have a label for and one we don’t – when they want to access something protected by Soylent Grid.