







Introduction

Benefits and Limitations of Proposed Interface

Implemented Prototype





Wizard of Oz Prototype

Evaluation

Topics

Introduction







aibo

\$2,899.99

Price: CDN\$ 135.76 & FREE Shipping

Motivation

- Pets cool, robot pets cooler
- Can't fix expensive, but we can fix stupid



Related Works: 12 principles

- Squash and stretch
- Anticipation
- Staging
- Straight action/pose to pose
- Follow through and overlapping
- Slow in slow out



Related Works: 12 principles



- Arc
- Secondary action
- Timing
- Exaggeration
- Solid drawing
- Appeal

Related works





Design Evolution

Design Evolution

- Originally focused on functioning as a domestic pet alternative.
- Original interactions felt mechanical and stiff which led us to change our design approach
- Followed Disney's 12 Basic Principles of Animation in our implementation of the interactions.

Benefits and Limitations of Proposed Interface

Ollie as an interface offers several strengths

Rigged and Durable Exterior

Water Resistant

Child Friendly

Pricing

However, there are numerous limitations surrounding development with Ollie



WEB IDE FROM SPHERO



CYLON LIBRARY

Prototyping

Implemented Prototype

With the limited sensors on the Ollie, two interactions were implemented:

Hit: Using an accelerometer

Petting: Using a gyroscope

Hit | Accelerometer





Petting | Gyroscope

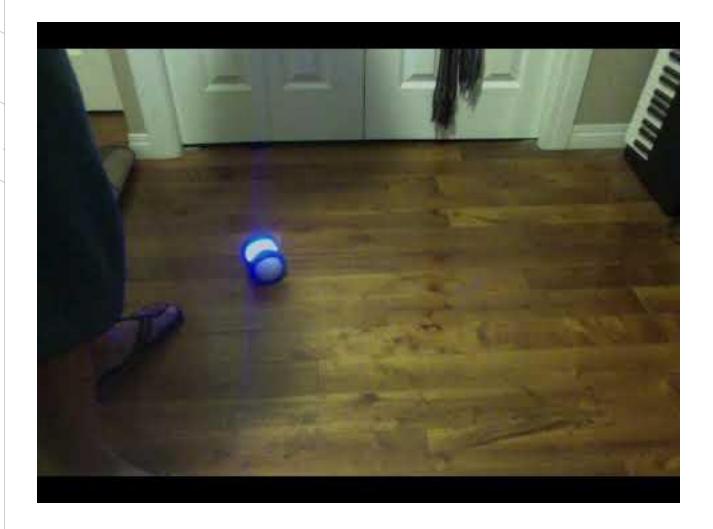
Wizard of Oz Prototype

The rest of the implementation were done through wizard of oz

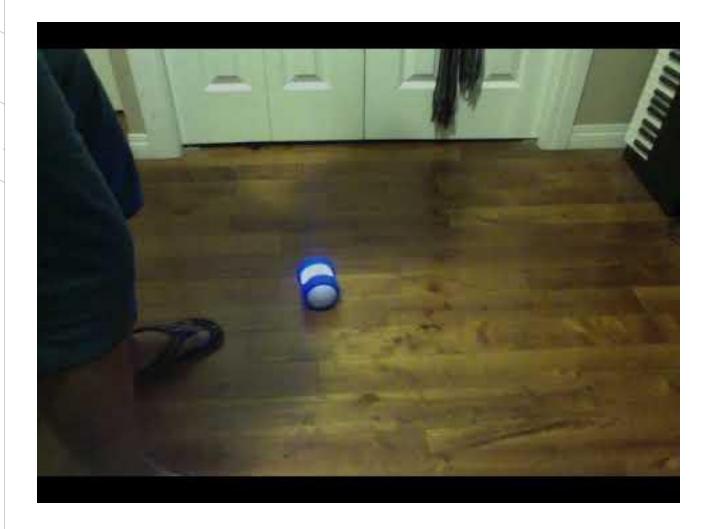
Voice Command

Proximity

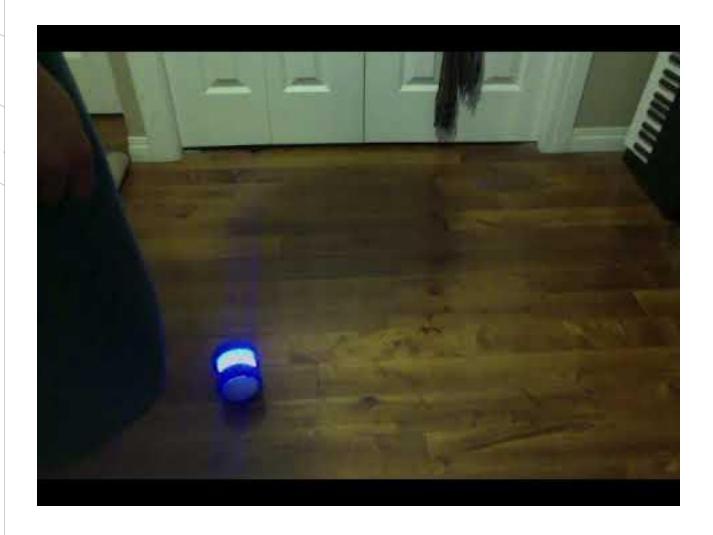
Angry | Voice Command



Disappointment | Voice Command



Sad | Voice Command





Excitement | Proximity

Evaluation

Self Evaluation

Mostly effective in conveying what emotion Ollie is expressing

- Happy
- Sad
- Angry
- Calculating
- Hit

Problems

- Disappointment
- Excitement
- Biased
- Small sample size