Waterbot

Robert Thomann, Manuel Zoderer

Graz, 23. March 2015

The Paper

"Waterbot: Exploring Feedback and Persuasive Techniques at the Sink"

- Authors:
  - Ernesto Arroyo
  - Leonardo Bonanni
  - Ted Selker
- MIT Media Laboratory

Content

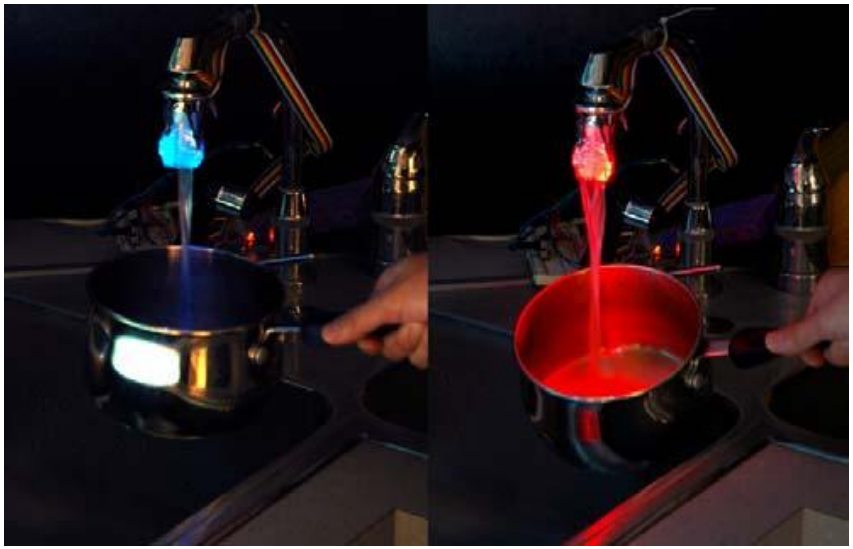
1. Overview
2. Motivation
3. Insights
4. Methodology
5. Impact

Overview

- A system to inform and motivate behavior at the sink
- Persuasive techniques (instead of automatisation)
- Four prototypes
  - HeatSink
  - SeeSink
  - CleanSink
  - WaterBot

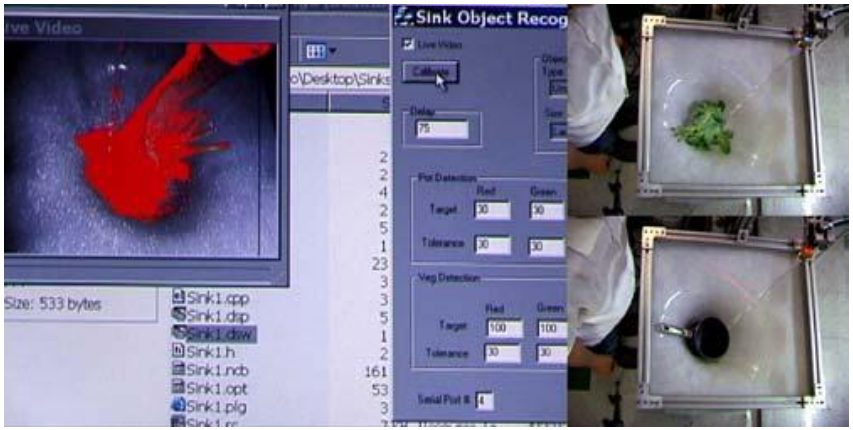
HeatSink

Illuminates the water stream dependent on its temperature



SeeSink

- tasks detected with CCD camera
- automatic temperature and flow control
- ilumination like HeatSink



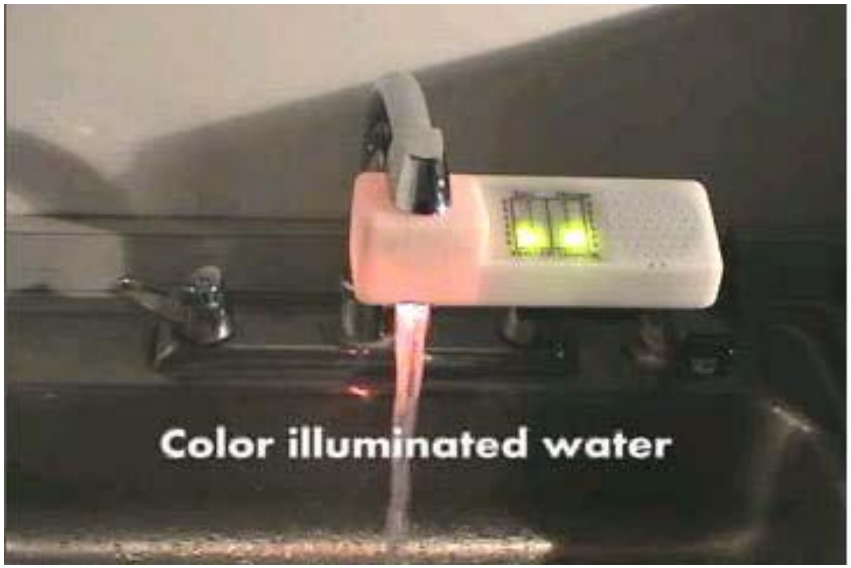
CleanSink

For monitoring of hand-washing compliance.

- flashing after time
- RFID login
- connected with environment (lights, locks)

WaterBot

- tracks water usage
  - time
  - flow
- visual feedback
  - HeatSink
  - LED bars
- auditory messages



Motivation

- Test HCI in hostile environment
- Test persuasive techniques
- Test different feedback approaches

Insights

- HCI can work in environmentally challenging places.
- Automation can be replaced by persuasive techniques.
- Some feedback approaches are better recieved than others.

Methodology

- Seven design principles identified
- Pilot study: 10 users
- User study: 2 months, 15 users, community sink

Methodology - Shortcommings

- Some data is not included.
- Lack of structure in user study.

Impact

Practical applications:

- improve safety
- improve hygiene
- conserve water

Possible foundation for future studies.

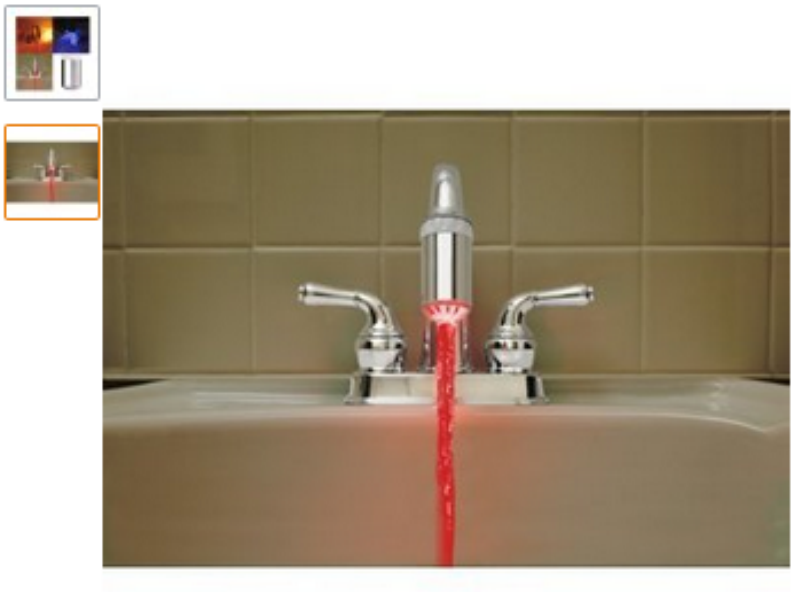
amazon Try Prime

Your Amazon.com Today's Deals Gift Cards Sell Help

Shop by Department Search All LED faucet temperature Hello. Sign in Your Account

Home Improvement Best Sellers Gift Ideas Lighting & Ceiling Fans Hardware Kitchen & Bath Fixtures Powe

‹ Back to search results for "LED faucet temperature"



Click to open expanded view

Umiwe(TM) 3-color Water Glow LED Faucet Light Temperature Sensor

by Umiwe

507 customer reviews | 11 answered questions

List Price: $16.55

Price: $3.37 & **FREE Shipping**

You Save: $13.18 (80%)

In Stock.

Ships from and sold by Foreve r Love.

Color: **LED Faucet Light**