*Projects and Stuff*

Chameleon

In-Depth Reference

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# Overview and Objectives

Chameleon is a beverage coaster. It is a small capacitive-sensing device with 5 RGB LEDs which light up to display flashing lights when a cup containing liquid is placed on it. It is designed to fit inside decorative plastic coin holders, which are repurposed for this project. Due to the programmable nature of this device, Chameleon can be upgraded and modified to display any number of colors and slash patterns.

Objectives:

* Open Source
* Ability to sense cups when placed on the coaster
* As hackable and reprogrammable as possible
* 5 RGB LEDs per board
* Li-Ion or Li-Poly battery rechargeable via DC jack or USB

# Assemble

## Part List

## Tools Required

## Constructing it

# Operate

# Mod

# Buy

# Discuss

# Schematics

# Source Code

## Source Code Overview

## Libraries Used

## Functional Description

**Glossary**