# Introduction

The Button Toppers for Joy-Con are a set of button toppers that make the buttons on the Joy-Con larger and further apart. This makes the buttons easier to use for people with limited dexterity that may have challenges pressing the small, close together buttons.

# Research

No existing commercial or DIY alternatives could be found.

# Requirements

## Goals

|  |  |
| --- | --- |
| G01 | Make Joy-Con buttons larger |
| G02 | Make Joy-Con buttons further apart |

## Functional Requirements

|  |  |
| --- | --- |
| F01 | Device must attach to the buttons on a Joy-Con controller |
| F02 | Device must make the buttons larger |
| F03 | Device must make the buttons further apart |

## Constraints

|  |  |
| --- | --- |
| C01 | Must be entirely 3D printed |

# V1.0

**Regular Button**

Attachment hole diameter: 7.5mm

Extended button diameter: 12mm

Button height: 7.5mm

Button offset: 6mm

Weight: 0.6g

**Small Y Button**

Attachment hole diameter: 7.5mm

Extended button diameter: 12mm

Button height: 7.5mm

Button offset: 2mm

Button weight: 0.5g

## Testing

All the buttons were printed out and temporarily attached to a Joy-Con to ensure they triggered the buttons.

# Opportunities for Improvement

The buttons could be redesigned so that they can be removed from the Joy-Cons without damaging the buttons.