# Introduction

The Grip for Joy-Cons - Double allows for both Joy-Cons to be connected when detached from the switch, much like the official Joy-Con grip. However, this grip has a more angled connection, allowing the Joy-Cons to be held at a more natural angle.

# Research

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Price | Picture | Link |
| Nintendo Switch Controller Joycon Comfort Grip by TalkWorks | Switch Game Accessories Handheld Joystick Remote Control Holder Joy Con Kit, Black | $18.47 |  | [Link](https://www.amazon.ca/Nintendo-Controller-TalkWorks-Accessories-Handheld/dp/B07R8G2JCW/ref=asc_df_B07R8G2JCW/?tag=googleshopc0c-20&linkCode=df0&hvadid=335485178312&hvpos=&hvnetw=g&hvrand=577255125928249324&hvpone=&hvptwo=&hvqmt=&hvdev=c&hvdvcmdl=&hvlocint=&hvlocphy=9001594&hvtargid=pla-809858745044&psc=1) |
| Nintendo Switch Joy-con Grip | DIY |  | [Link](https://www.thingiverse.com/thing:2523187) |
| Nintendo Switch Joy-con Grip | DIY |  | [Link](https://www.printables.com/model/104960-nintendo-switch-joy-con-grip) |

# Requirements

## Goals

|  |  |
| --- | --- |
| G01 | Allow both Joy-Cons to be more comfortable held and used |

## Functional Requirements

|  |  |
| --- | --- |
| F01 | Device must connect to a single Joy-Con |
| F02 | Device must make the Joy-Con more comfortable to hold |
| F03 | Device must not impede any of the buttons on the Joy-Con |

## Constraints

|  |  |
| --- | --- |
| C01 | Device must be entirely 3D printed |

# Ideation

When looking at the 3D printed DIY options, the printables option appeared to be a remix of the thingiverse option, posted years later. We decided to go with the thingiverse version to give credit to the original designer.

# Testing

The grip was printed with and without support to determine which printed best.

# Opportunities for Improvement

The footprint where the grip touches the bed could be increased to improve bed adhesion.