



Grips for Joy-Con Single

DESIGN RATIONALE

Introduction

The Grips for Single Joy-Con are a pair of grips that attach to a pair of Joy-Cons to make them easier to hold and use when they are being used individually. They are designed for users that have difficulty holding the single Joy-Cons when using them individually.

Research

Name	Photo	Price	Link
Nintendo Switch Single Joy-Con Grip + and -		DIY	Link
Joy Con Grip		DIY	Link

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Hand Grips Compatible with Nintendo Switch/Switch OLED Model Controllers, FYOUNG Comfortable Grip Compatible with Joycons - Black (2 Packs)		\$17.99	Link
Verbatim - Hand grip - black (pack of 2) - for NINTENDO Joy-Con, Joy-Con(Left), Joy-Con(Right); Nintendo Switch		\$11.99	Link

Requirements

Goals

G01	Allow a single Joy-Con to be more comfortably held and used
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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	Must be entirely 3D printable
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Ideation

When looking at the 3D printed DIY options, the printables option appeared to be a remix of the thingiverse option, with both grips added to the same file and posted several years later. Because of this, we decided to go with the thingiverse model, so the grips can be printed individually for more customizability.

Testing

The grips were printed at several different orientations to determine which one had the least amount of supports and the most strength.

Opportunities for Improvement

A retaining nub could be added to fit with the existing locking mechanism on the Joy-Con to prevent it from sliding around in the grip