This document is intended to be a summary of a device to make it easier to add to the website.

# Product Information

## Product Name

Spruce Mini Joystick

## Device Category

Adapted Toys

Aids for Daily Living (ADL)

Assistive Switches

Communication Aids (AAC)

Computer Access

Environmental Controls

Gaming

Keyguard

Kits

LipSyncs

Mounting

Recreation and Leisure

Seating and Positioning

Switch Interfaces

Writing Aids

## User Value Statement

If you're looking for a standard joystick with a small range of motion and push button feature, we'd like to point you to the Spruce Mini Joystick.

## Designer

Josie Versloot

# Device Info

## Overview

The Spruce Mini Joystick is a small joystick compatible with the [Forest Joystick Mouse Hub](https://github.com/makersmakingchange/Forest-Joystick-Mouse-Hub), Xbox Adaptive Controller, or other analog input joystick devices. It currently has a range of toppers available created by [AbleGamers Charity](https://www.printables.com/model/501869-analog-thumbstick-topper-collection).

## Disability Type

Select one or more disability types:

Agility / Dexterity

Arthritis

Cognitive

Hearing

Mobility

Mobility

Other

Pain

SCI

Vision

## Disability Type Description

## This device is designed for users with a small range of motion that need an external joystick for adaptive gaming or computer access.

## How To Use

For full instructions please refer to the User Guide.

**Usage**

Using the Joystick

1.     Plug the 3.5 mm TRRS cable from the joystick into the host device (such as the Xbox Adaptive Controller). If using the Xbox Adaptive Controller, plug it into X1 to use at the left joystick, or plug into X2 to use as the right joystick.

2.     Ensure the arrow on the joystick is pointing in the “up/forward” direction, away from the user.

3.     Mount the device if needed (see below).

4.     Move joystick as you would with a standard controller. Estimated Cost

**Compatibility**

This device is compatible with the Xbox Adaptive Controller, [Forest Joystick Mouse Hub](https://github.com/makersmakingchange/Forest-Joystick-Mouse-Hub), [Enabled Controller Mini](https://github.com/makersmakingchange/Enabled-Controller-Mini/tree/main), and any other device that accepts a TRRS analog joystick input.

## Estimated Cost

The estimated material cost of the device:

 $0 - $10

 $11 - $25

 $26 - $50

 $51 - $100

 $101 - $250

 $250+

## Attribution

Hardware and enclosure design: Josie Versloot, Neil Squire Society

Enclosure design remixed from [AbleGamers Charity](https://www.printables.com/model/508909-snap-assembly-thumbstick-shell/files), originally released under a [Creative Commons (4.0 International License) Attribution-NonCommercial](http://creativecommons.org/licenses/by-nc/4.0/" \t "_blank)

The documentation template was created by Makers Making Change / Neil Squire and is used under a CC BY-SA 4.0 license. It is available at the following link: https://github.com/makersmakingchange/OpenAT-Template

# Maker Info

## Project Skills

3D Printing

Custom PCB

Electronics

Laser Cutting

Mechanics

Other

Software

Soldering

Woodworking

## Skills Description

This is an intermediate build requiring electronics, mechanics, and 3D printing.

## Tools Needed

3D Printer

Common Hand Tools

Common Power Tools

Laser Cutter

Soldering Iron

Specialized Tooling

## Print time (hrs)

<Estimated total print time in numerical hours>

## Assembly time (hrs)

<Estimated assembly time in numerical hours>

## Build Instructions

For full instructions please refer to the Maker Guide.

**Print Settings:**

* 0.2mm Layer Height
* 20% infill

## Download Link

https://github.com/makersmakingchange/Spruce-Mini-Joystick/archive/refs/heads/main.zip

## Project Link

https://github.com/makersmakingchange/Spruce-Mini-Joystick

# License

## License

Hardware: CERN OHL 2.0 w

Documentation: Attribution-ShareAlike 4.0 International