



# 3D PRINTING

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**Old Town Library**

Spring Edition

April - June 2024



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# 3D PRINTING OVERVIEW

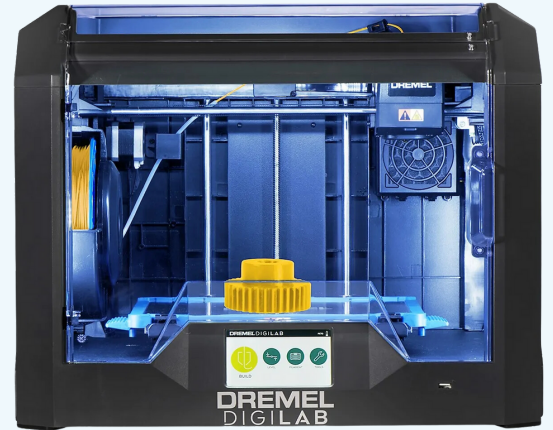
## Libraries and 3D Printing

Libraries have always been the great equalizer for information and computer access, and having a 3D printer available opens 3D technology to all ages and skill sets. 3D printing also supports people developing knowledge and skills in STEM activities (Science, Technology, Engineering, and Math), allowing community members to create, design and innovate in new and inspiring ways

## What printers and materials do you use?

The Library currently has one Dremel DigiLab 3D45 3D Printer, located in the 2nd floor computer lab at the Old Town Library. The DigiLab can print objects up to 10" x 6" x 6.7" in a variety of single colors.

The Library uses plant-based, recyclable PLA plastic (#7). PLA does not contain BPA and is not heat resistant. Objects created on the 3D printer are not food safe.



## Can anyone use the 3D printer?

3D printing is available for all ages and open to the public. You do not need a library card to submit a 3D print or to watch items being printed on the 3D printer. However, only trained library staff will handle the 3D printer and associated equipment.

## What does it cost?

3D printing cost is \$0.10 per gram of filament used. Total cost is based on the estimate given by the printing software program (plus tax). Printing charges are collected at pickup. Most 3D print items cost \$5 or less. When filling out a submission form, customers can select a maximum amount.

## When will I get my 3D printed item?

Print times vary based on size, complexity, and the number of 3D prints waiting to be processed. Typically, 3D prints take between 5-14 days to be completed. For a current timeline estimate, please contact [3DPrinting@poudrelibraries.org](mailto:3DPrinting@poudrelibraries.org)

## How do I start?

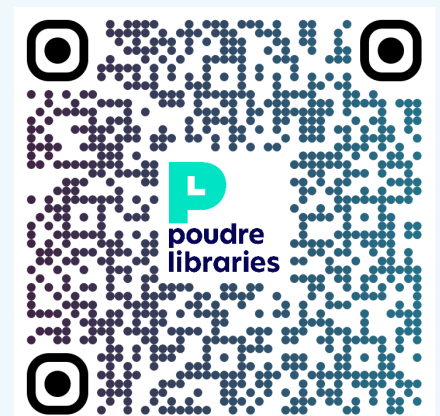
1. Visit our [Resources](#) page for modeling software, design libraries, and tutorials
2. Choose or create a 3D model to print
3. Save the model as .stl file or .3mf file (maximum size 50 MB)
4. Submit your 3D printing request

## Contact Us

[3DPrinting@poudrelibraries.org](mailto:3DPrinting@poudrelibraries.org)

## 3D Printing is available at:

Poudre River Public Library District  
Old Town Library  
201 Peterson Street  
Fort Collins CO 80524



# 3D PRINTING GUIDELINES

## Intended Use

The Library strives to offer community access to technologies that inspire creativity, learning and innovation. A 3D printer is available at the Old Town Library for library users to make three-dimensional objects using a design that is uploaded from a digital computer file. The Library's 3D printer may only be used for lawful purposes and be for objects appropriate for a public library.

## Guidelines

1. Users will not be permitted to use the Library's 3D printer to create material that is:
  - a. prohibited by local, state or federal law
  - b. unsafe, harmful, dangerous, or an immediate threat to the well-being of others
  - c. construed as having the intent to harm
  - d. obscene or otherwise inappropriate for the Library environment
  - e. in violation of another's intellectual property rights
2. The print must fit within the printer's volume.
3. Printed objects must not infringe upon any third party's intellectual property rights. By submitting content or objects, the user agrees to assume all responsibility for, and shall hold the library harmless in, all matters related to patented, trademarked, or copyrighted materials.
4. The library is not responsible for any damage, loss, or security of data arising from the use of its computers, equipment or network, nor for the functionality or quality of content produced on the 3D printer.
5. Responsibility for removing rafts and supports is up to the user. The library cannot guarantee model quality or stability, or confidentiality of designs.
6. Only designated library staff and volunteers will have direct access to the 3D printer. Customers are welcome to come watch the 3D printer in action in the Old Town Library computer lab during open hours.
7. The Library reserves the right to refuse any 3D print request.
8. Use of the 3D Printer is subject to Poudre River Public Library District Policies, including but not limited to the Library Facility Usage Policy.

## Removing Supports

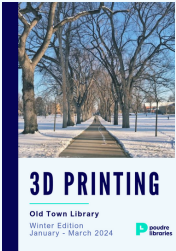
Supports can be removed with many household tools. Using needle-nose pliers, butter knives or clam shuckers, cuticle trimmers, nail clippers, sandpaper, and small files is the easiest way to remove supports. Adults should help children use tools to remove supports on their 3D printed objects.

- Use a butter knife or clam shucker to loosen or pop off large sections of support structure.
- Remove large sections of support structure by prying them off with the pliers.
- Trim delicate sections with the cuticle trimmers or nail clippers
- File down rough spots with sandpaper or with small files. Using a Dremel/rotary tool works well, too.





# 3D PRINTING RESOURCES



## Ready-to-Print 3D Designs

[Winter 3D Print Catalog](#) - Poudre Libraries' 3D Print Catalog for Jan - Mar 2024. Fun, ready-to-go 3D print ideas recommended by the library's print staff.

[Thingiverse](#) - MakerBot's searchable design library community.



[Printables](#) - Prusa Research's searchable design library community.

[MyMiniFactory](#) - A curated social platform for 3D printable objects.



[TechOWL 3D Print Catalog](#) - Temple University's assistive tech-oriented design library.



## Free 3D Modeling Software

[Tinkercad](#) - a browser-based 3D design platform, now part of Autodesk (free version available).

[Sketchup](#) - comes in free or pro versions. Get the [Sketchup STL](#) from the Extension Warehouse.



[Blender](#) - a free and open source 3D creation suite.



## 3D Modeling Tutorials

[How to Fix and Repair Your 3D Files](#)

[How to Make Strong 3D Prints](#)

Blender and Tinkercad tutorials are available through the library's access to [LinkedIn Learning](#) (previously Lynda.com)



## 3D Printers on the Cutting Edge

[TED Talks on 3D Printing](#)



# SPOTLIGHT - MAKERS MAKING CHANGE



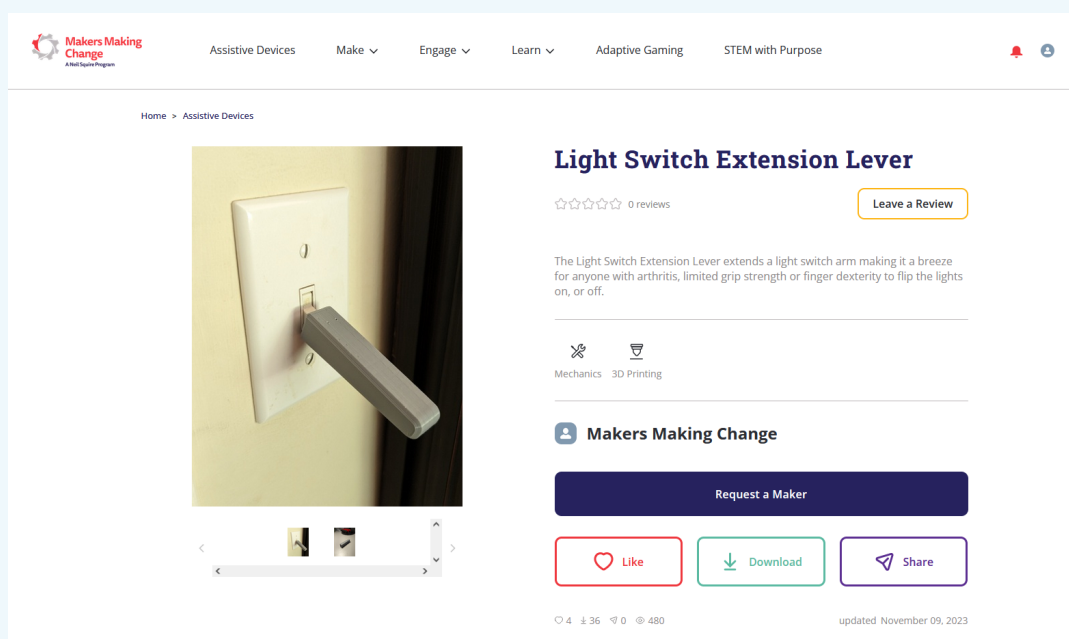
## Makers Making Change

A Neil Squire Program

Makers Making Change is a program of the Neil Squire Society (a Canadian organization that strives to empower people with disabilities) that connects people with disabilities to makers who can build affordable assistive technology for them.

They have an extensive [Assistive Devices Library](#) that includes the option to download the files and 3D print them yourself OR to request a Maker to create it for you.

Additionally, if you're interested, you can volunteer to be a Maker and volunteer to help those in need of assistive technology.



Interested in more Assistive Technology programs for Coloradans? Check out the Colorado Assistive Technology Act Program [HERE](#).



# SPRING COMPUTER & TECH CLASSES

## Computer Comfort / Computación básica

- Wednesday, April 3rd at 6:00-7:30pm
- Old Town Library - Large Meeting Room Combo

## Online Safety with a Crime Prevention Expert

- Thursday, April 4th at 3:00-4:30pm
- Council Tree Library - Large Meeting Room

## Intro to CAD and 3D Modeling

- Tuesday, April 9th at 6:00-7:30pm
- Old Town Library - Large Meeting Room 1

Missed a class? Check out our website to view posted slides and handouts from classes!

<https://www.poudrelibraries.org/classes/>

## Google Accounts / Cuentas de Google

- Wednesday, May 1st at 6:00-7:30pm
- Old Town Library - Large Meeting Room Combo

## Accessibility Technology & You Panel

- Sunday, May 5th at 2:00-3:30pm
- Old Town Library - Large Meeting Room Combo

## Excel I

- Tuesday, May 7th at 1:00-2:30pm
- Old Town Library - Large Meeting Room Combo

## Accessible Tech on the Go

- Saturday, May 11th at 1:00-2:30pm
- Old Town Library - Large Meeting Room Combo

## Excel II

- Tuesday, May 14th at 1:00-2:30pm
- Old Town Library - Storytime Room

## Coding for Equality

- Sunday, June 30th at 3-4:30pm
- Old Town Library - Large Meeting Room Combo

Interested in a class? Find more information & register HERE!



# FILAMENT COLORS

PLA



Black



White



Red



Orange



Yellow



Green



Blue



Purple



Pink



Gold



Grey



Translucent



Matte Navy Blue



Matte Olive



Matte Brown



Matte Beige

SILK



Silk Gold



Silk Copper



Silk Silver



# QUICK PRINTS!

**New to 3D Printing? Not sure what to print?  
Check out some of our ideas to get started!**

If you find a print you like, follow these easy steps to have it printed:

1. Click on the link or scan the QR code in the catalog.
2. Make sure to check the footnotes in the catalog to see if this print needs to be scaled down or submitted in multiple jobs.
3. Download the file(s) needed.
4. Head to the 3D print request form on our website:  
<https://www.poudrelibraries.org/3dprinting/>
5. Input your contact information & a brief description of the print.
6. Upload the .stl or .3mf file you got earlier. Indicate color and quantity needed.
7. If your print has additional specifications (needs to be scaled down, has multiple parts, etc), please make a note of that in the comments.
8. Finally, indicate a maximum price for the print and if the file submitted is part of a project.
9. If your print requires multiple files, repeat steps 2-8 for each file.

Name *	Email *	Phone (xxx-xxx-xxxx)
Brief description of item:		
Color * (examples) Select from list	Upload a .stl or .3mf file less than 50MB <input type="button" value="Browse"/> No file selected.	Quantity * Select
Comments:		
<b>Payment options:</b> Payment accepted via credit card or debit card. The library does not accept cash payments.		
Maximum Authorized Per Print * \$5.00		
This request is part of a 3D print project requiring more than one file. <input type="radio"/> Yes <input checked="" type="radio"/> No		
<input type="checkbox"/> I have read and agree to the Library's <a href="#">3D Printing intended use and guidelines</a> and certify that I have intellectual property rights to authorize reproduction.		
The library may take photos of your object or archive the file for use in marketing, publications, or sharing with others. Please let us know if this presents any issues.		
<input type="button" value="Send your request"/>		

# FIGURES/MODELS/TOYS



## FISH FOSSILS<sup>1</sup>

Thingiverse

### PRINTING SPECIFICATIONS

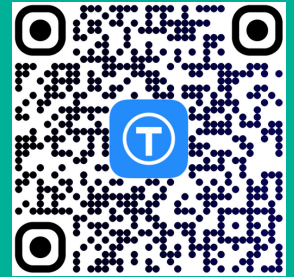
**Dimensions:** 83 mm x 30 mm x 9 mm

**Weight:** 10.83 g

**Time to Print:** 1h 4min

**Approx. Cost:** \$1.08

<https://www.thingiverse.com/thing:1276095>



## BUILD A T-REX<sup>2</sup>

Thingiverse

### PRINTING SPECIFICATIONS

**Dimensions:** 126 mm x 126 mm x 1.5mm

**Weight:** 15.64 g

**Time to Print:** 1h 45min

**Approx. Cost:** \$1.56

<https://www.thingiverse.com/thing:4198101>



## ROBOT ACTION FIGURE<sup>3</sup>

Thingiverse

### PRINTING SPECIFICATIONS

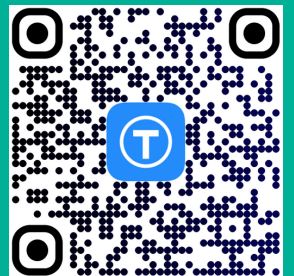
**Dimensions:** 62 mm x 55 mm x 40 mm

**Weight:** 39.21 g

**Time to Print:** 3h 45min

**Approx. Cost:** \$3.92

<https://www.thingiverse.com/thing:539127>



## TOTORO FAMILY FINGER TOYS<sup>4</sup>

Printables

### PRINTING SPECIFICATIONS

**Dimensions:** 122 mm x 47 mm x 60 mm

**Weight:** 48.59 g (total, 3 pieces)

**Time to Print:** 4h 49min (total, 3 pieces)

**Approx. Cost:** \$4.86 (total)

<https://tinyurl.com/printables-totoro-family>



1. Fish Fossilz by [muzz64](#) is licensed under the [Creative Commons - Attribution - Non-Commercial - No Derivatives](#) license.


2. [Tyrannosaurus splicing toys](#) by [IME3D2011](#) is licensed under the [Creative Commons - Attribution](#) license.  
a. Dimensions based on all pieces laid flat, not assembled.

3. [Maker Faire Robot Action Figure PIP \(with supports\): 2015 3D Printer Shoot Out Test Models](#) by [MAKE](#) is licensed under the [Creative Commons - Attribution - Share Alike](#) license.

4. [Totoro Family \(finger toys\)](#) by [erikaheidi](#) is licensed under a [Creative Commons \(4.0 International License\) Attribution-ShareAlike](#) license.  
a. Estimates based off printing one each of the three Totoros.



# ASSISTIVE TECH, GADGETS, & HANDY STUFF




## SPAGHETTI MEASURING TOOL<sup>1</sup>

Printables

**PRINTING SPECIFICATIONS**

**Dimensions:** 93 mm x 74 mm x 2 mm  
**Weight:** 4.08 g  
**Time to Print:** 26min  
**Approx. Cost:** \$0.41



<https://tinyurl.com/printables-spaghetti-tool>



## 3M COMMAND HOOK<sup>2</sup>


Printables

**PRINTING SPECIFICATIONS**

**Dimensions:** 64 mm x 24 mm x 17 mm  
**Weight:** 5.90 g  
**Time to Print:** 29min  
**Approx. Cost:** \$0.59



<https://tinyurl.com/printables-command-hook>




## BAG CARRIER<sup>3</sup>

Thingiverse

**PRINTING SPECIFICATIONS**

**Dimensions:** 122 mm X 100 mm x 15 mm  
**Weight:** 54.03 g  
**Time to Print:** 4h 40min  
**Approx. Cost:** \$5.40



<https://www.thingiverse.com/thing:2701924>



## KEY TURNER<sup>4</sup>

Thingiverse

**PRINTING SPECIFICATIONS**

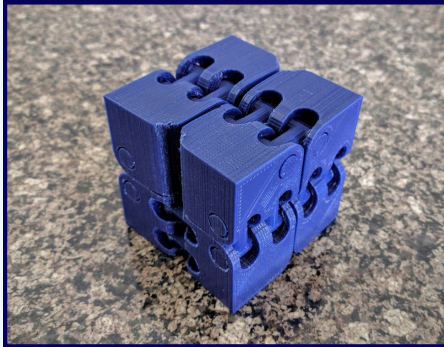
**Dimensions:** 74 mm X 71 mm x 6 mm  
**Weight:** 10.86 g  
**Time to Print:** 1h  
**Approx. Cost:** \$1.09



<https://www.thingiverse.com/thing:2802082>

1. Pasta - Spaghetti measuring tool - Kitchen gadget by [ixeft](#) is licensed under a [Creative Commons \(4.0 International License\) Attribution—Noncommercial—Share Alike](#) license.
2. Simple 3M Command Hook by [alex49312](#) is licensed under a [Creative Commons \(4.0 International License\) Attribution](#) license.
  - a. Estimates based off the medium-sized hook.
3. Bag Carrier by [darkytoothpaste](#) is licensed under the [Creative Commons - Attribution](#) license.
  - a. Estimates based off printing the medium-sized carrier.
4. Key Turner by [makersmakingchange](#) is licensed under the [Creative Commons - Attribution - Share Alike](#) license.
  - a. Screw for securing key not included.

# FIDGET TOYS & PUZZLES



## KOBAYASHI FIDGET CUBE<sup>1</sup>

Thingiverse

### PRINTING SPECIFICATIONS

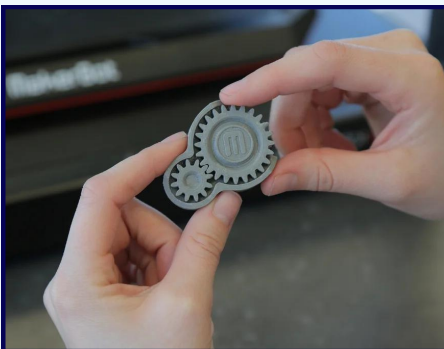
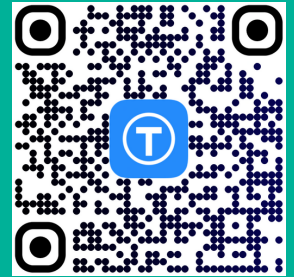
**Dimensions:** 81 mm X 41 mm x 20 mm

**Weight:** 45.74 g

**Time to Print:** 4h 3min

**Approx. Cost:** \$4.57

<https://www.thingiverse.com/thing:1790624>



## FIDGET GEAR<sup>2</sup>

Thingiverse

### PRINTING SPECIFICATIONS

**Dimensions:** 51 mm X 38 mm x 15 mm

**Weight:** 14.16 g

**Time to Print:** 1h 19min

**Approx. Cost:** \$1.42

<https://www.thingiverse.com/thing:2234364>



## BEE PUZZLE<sup>3</sup>

Thingiverse

### PRINTING SPECIFICATIONS

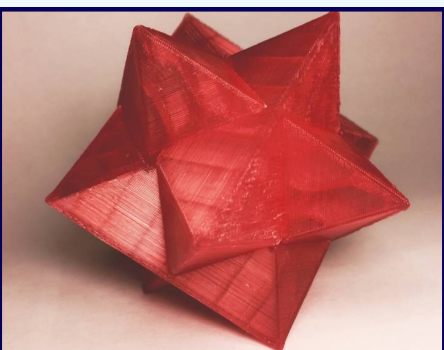
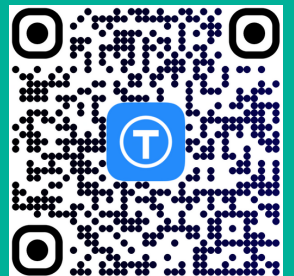
**Dimensions:** 146 mm X 135 mm x 1.35 mm

**Weight:** 11.86 g

**Time to Print:** 1h 23min

**Approx. Cost:** \$1.17

<https://www.thingiverse.com/thing:4909200>



## PUZZLE STAR<sup>4</sup>

MyMiniFactory

### PRINTING SPECIFICATIONS

**Dimensions:** 130 mm x 121 mm x 21 mm

**Weight:** 52.30 g

**Time to Print:** 4h 27min

**Approx. Cost:** \$14.52 (total)

[mmf.io/o/17733](https://mmf.io/o/17733)



1. Kobayashi Fidget Cube - Fat Hinge - Flat by [markinthebox](#) is licensed under the [Creative Commons - Attribution - Share Alike](#) license.

2. MakerBot Fidget Gear by [MakerBotPartnerLibrary](#) is licensed under the [Creative Commons - Attribution - Non-Commercial](#) license.

3. Bee Puzzle kit by [Tomo designs](#) is licensed under the [Creative Commons - Attribution - Non-Commercial](#) license.

a. Estimates based on printing the bee puzzle at 48% scale in order to fit on the printer plate. Dimensions based on all pieces laid flat, not assembled.

4. Puzzle star by [archluk](#) is licensed under the [Creative Commons - Attribution - Non-Commercial](#) license.

a. Estimates based on printing the puzzle star at 90% scale in order to fit within the 5 hour time limit. Dimensions based on all pieces laid flat, not assembled.



# BOOKMARKS



## ANIMAL BOOKMARKS<sup>1</sup>

Printables

### PRINTING SPECIFICATIONS

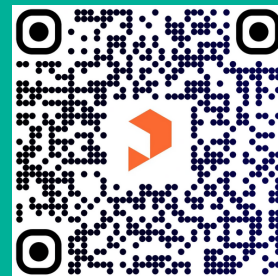
**Dimensions:** 82 mm X 64 mm x 1.4 mm

**Weight:** 4.59 g

**Time to Print:** 29min

**Approx. Cost:** \$0.46

<https://tinyurl.com/printables-animal-bookmarks>



## CACTUS BOOKMARK<sup>2</sup>

MyMiniFactory

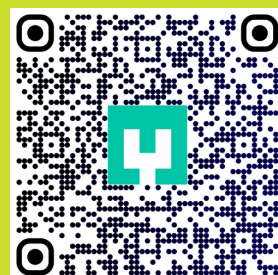
### PRINTING SPECIFICATIONS

**Dimensions:** 94 mm X 37 mm x 1.2 mm

**Weight:** 1.43 g

**Time to Print:** 11min

**Approx. Cost:** \$0.14



[mmf.io/o/44193](https://mmf.io/o/44193)



## GEAR BOOKMARK<sup>3</sup>

Printables

### PRINTING SPECIFICATIONS

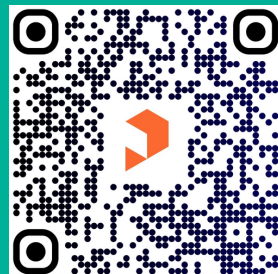
**Dimensions:** 90 mm X 26 mm x 1.5 mm

**Weight:** 2.28 g

**Time to Print:** 15min

**Approx. Cost:** \$0.23

<https://tinyurl.com/printables-gear-bookmark>



## STITCH BOOKMARK<sup>4</sup>

MyMiniFactory

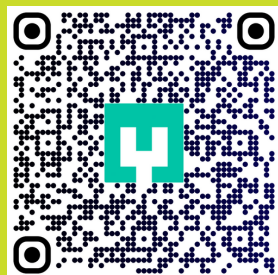
### PRINTING SPECIFICATIONS

**Dimensions:** 79 mm x 29 mm x 2 mm

**Weight:** 2.00 g

**Time to Print:** 13min

**Approx. Cost:** \$0.20



[mmf.io/o/178926](https://mmf.io/o/178926)

1. Animal Bookmarks by [Dan Bliss Design](#) is licensed under the [Creative Commons \(4.0 International License\) Attribution-NonCommercial](#) license.

a. Estimates based off printing the triple set.

2. Cactus Bookmark by [ScrapPrinting](#) is licensed under the [Creative Commons - Attribution - Non-Commercial](#) license.

3. Bookmark by [ChrisJohnson\\_318149](#) is licensed under the [Creative Commons \(International License\) Public Domain](#).

4. Stitch bookmark by [FloXx3](#) is licensed under the [Creative Commons \(4.0 International License\) Attribution-NonCommercial](#) license.



# GREAT FOR GIFTS



## GIFT BOX<sup>1</sup>

Printables

### PRINTING SPECIFICATIONS

**Dimensions:** 52 mm x 37 mm x 37 mm

**Weight:** 38.59 g (total, 2 pieces)

**Time to Print:** 3h 18min (total, 2 pieces)

**Approx. Cost:** \$3.86 (total)

<https://tinyurl.com/printables-gift-box>



## GIFT CARD BOX<sup>2</sup>

Printables

### PRINTING SPECIFICATIONS

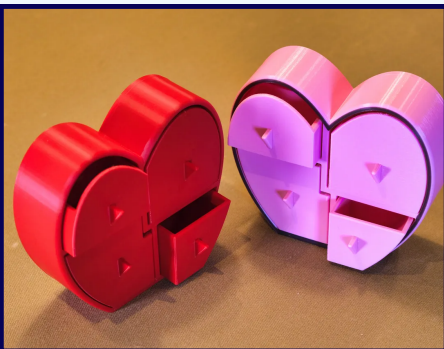
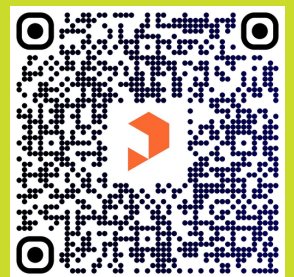
**Dimensions:** 77 mm x 90 mm x 21 mm

**Weight:** 85.21 g (total, 3 pieces)

**Time to Print:** 7h 30min (total, 3 pieces)

**Approx. Cost:** \$8.52 (total)

<https://tinyurl.com/printables-gift-card>



## HEART STORAGE BOX<sup>3</sup>

Printables

### PRINTING SPECIFICATIONS

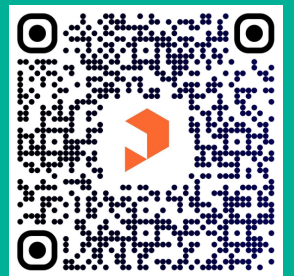
**Dimensions:** 95 mm X 85 mm x 28 mm

**Weight:** 107.79 g

**Time to Print:** 8h 59min (total, 5 pieces)

**Approx. Cost:** \$10.78

<https://tinyurl.com/printables-heart-box>



## HEART VASE<sup>4</sup>

MyMiniFactory

### PRINTING SPECIFICATIONS

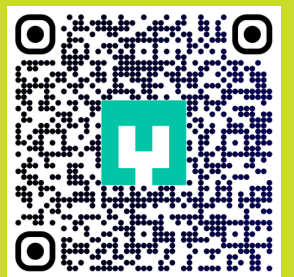
**Dimensions:** 99 mm x 98 mm x 30 mm

**Weight:** 74.64 g (total, 2 pieces)

**Time to Print:** 6h 26min (total, 2 pieces)

**Approx. Cost:** \$7.46 (total)

[mmf.io/o/222972](https://mmf.io/o/222972)



1. Gift Box by [DLesaffre\\_101217](#) is licensed under a [Creative Commons \(4.0 International License\) Attribution-NonCommercial](#) license.
2. Awesome Gift Card Gift Box by [AussieTheArtist](#) is licensed under a [Creative Commons \(4.0 International License\) Attribution](#) license.
  - a. Estimates based on printing the plain top, plain bottom, and mech parts at 90% of original size.
3. Gift - Heart Storage by [bcegatien\\_1512852](#) is licensed under a [Creative Commons \(4.0 International License\) Attribution—Noncommercial—Share Alike](#) license.
  - a. Estimates based on printing all 5 parts at 70% original size.
4. Heart Vase by [Slimprint](#) is licensed under a [Creative Commons \(4.0 International License\) Attribution-NonCommercial](#) license.

# SPRING HAS SPRUNG!



## SPRING LEGO WREATH<sup>1</sup>

Thingiverse

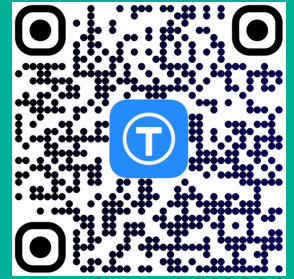
### PRINTING SPECIFICATIONS

**Dimensions:** see footnote

**Weight:** 446.75 g (total, 21 pieces)

**Time to Print:** 41h 32min (total, 21 pieces)

**Approx. Cost:** \$44.68 (total) <https://www.thingiverse.com/thing:6418361>



## EASTER LILY<sup>2</sup>

Printables

### PRINTING SPECIFICATIONS

**Dimensions:** see footnote

**Weight:** 7.87 g (total, 2 pieces)

**Time to Print:** 49min (total, 2 pieces)

**Approx. Cost:** \$0.79 (total)

<https://tinyurl.com/printables-easter-lily>



## FLOWER POWER COASTERS<sup>3</sup>

Thingiverse

### PRINTING SPECIFICATIONS

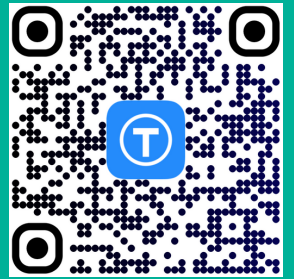
**Dimensions:** 95 mm X 95 mm x 4 mm

**Weight:** 22.04 g

**Time to Print:** 2h 1min

**Approx. Cost:** \$2.20

<https://www.thingiverse.com/thing:3417174>



## BUNNIES<sup>4</sup>

Printables

### PRINTING SPECIFICATIONS

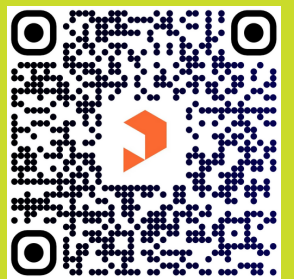
**Dimensions:** 162 mm x 93 mm x 3 mm (total)

**Weight:** 22.40 g (total, 2 pieces)

**Time to Print:** 2h 16min (total, 2 pieces)

**Approx. Cost:** \$2.24 (total, 2 pieces)

<https://tinyurl.com/printables-bunny>



1. [Lego Wreath for Spring/Easter](#) by [Ellisse05](#) is licensed under the [Creative Commons - Attribution - Non-Commercial - No Derivatives](#) license.

a. Estimates based on printing all pieces at 80% size: 6 branches, 3 studs, 6 centers, and 6 flowers. Each branch is approximately 176 mm long.

2. [Easter lily](#) by [KT3Dprint](#) is licensed under a [Creative Commons \(4.0 International License\) Attribution—Noncommercial—No Derivatives](#) license.

a. Estimates based on printing the lily and Stem1.

3. [Flower Power Coaster Set](#) by [filypretzel](#) is licensed under the [Creative Commons - Attribution - Non-Commercial](#) license.

a. Estimates based on printing only the chrysanthemum coaster.

4. [Rabbit / Bunny](#) by [Raf3D](#) is licensed under a [Creative Commons \(4.0 International License\) Attribution—Noncommercial—No Derivatives](#) license.

a. Estimates based on printing the bunny and stand.



# EARTH DAY - APRIL 22



## EARTH DAY TOPPER<sup>1</sup>

MyMiniFactory

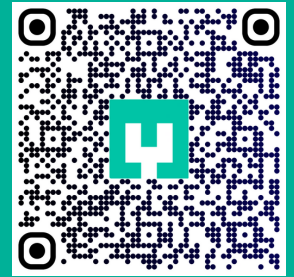
### PRINTING SPECIFICATIONS

**Dimensions:** 124 mm X 54 mm x 1 mm

**Weight:** 1.76 g

**Time to Print:** 14min

**Approx. Cost:** \$0.18



[mmf.io/o/171704](https://mmf.io/o/171704)



## HAND FLOWERPOT<sup>2</sup>

Thingiverse

### PRINTING SPECIFICATIONS

**Dimensions:** 79 mm X 79 mm x 93 mm

**Weight:** 59.55 g

**Time to Print:** 5h 12min

**Approx. Cost:** \$5.96



<https://www.thingiverse.com/thing:2228062>



## NATURE STENCIL SET<sup>3</sup>

Printables

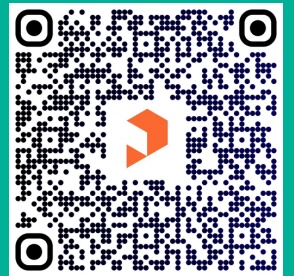
### PRINTING SPECIFICATIONS

**Dimensions:** 63.5 mm X 63.5 mm x 2.5 mm

**Weight:** 7.50 g

**Time to Print:** 44min

**Approx. Cost:** \$0.75



<https://tinyurl.com/printables-nature-stencils>



## FREDDY THE FROG PLANTER<sup>4</sup>

Printables

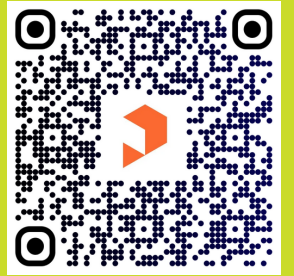
### PRINTING SPECIFICATIONS

**Dimensions:** 69 mm x 57 mm x 48 mm

**Weight:** 34.20 g

**Time to Print:** 3h 10min

**Approx. Cost:** \$3.42



<https://tinyurl.com/printables-frog-planter>

1. Earth Day topper by Mamy Wydruki is licensed under the [Creative Commons - Attribution - Non-Commercial - No Derivatives](https://creativecommons.org/licenses/by-nc-nd/4.0/) license.
2. Rough Poly Hand Flowerpot by Despild is licensed under the [Creative Commons - Attribution - Non-Commercial - No Derivatives](https://creativecommons.org/licenses/by-nc-nd/4.0/) license.
  - a. Estimates based on printing this object at 400% of its original size.
3. 3D printable stencil set (Nature theme) by MaroonMatador\_49959 is licensed under a [Creative Commons \(4.0 International License\) Attribution—Noncommercial—Share Alike](https://creativecommons.org/licenses/by-sa/4.0/) license.
4. Freddy the Frog Planter by RuralRoots3D is licensed under a [Creative Commons \(4.0 International License\) Attribution-NonCommercial](https://creativecommons.org/licenses/by-nc/4.0/) license.
  - a. Estimates based on printing the planter at 1500% of its original size.



# COLLEGE DECISION DAY - MAY 1



## CSU RAM KEYCHAIN<sup>1</sup>

Thingiverse

### PRINTING SPECIFICATIONS

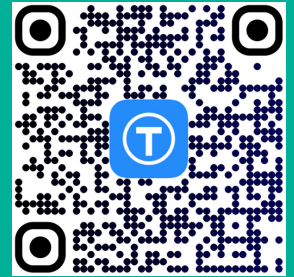
**Dimensions:** 32 mm X 32 mm x 3 mm

**Weight:** 2.37 g

**Time to Print:** 14min

**Approx. Cost:** \$0.24

<https://www.thingiverse.com/thing:2028729>



## CU-BOULDER BUFF<sup>2</sup>

Thingiverse

### PRINTING SPECIFICATIONS

**Dimensions:** 83 mm X 61 mm x 10 mm

**Weight:** 26.82 g (total, 2 pieces)

**Time to Print:** 2h 30min (total, 2 pieces)

**Approx. Cost:** \$2.68 (total)

<https://www.thingiverse.com/thing:31132>



## SCHOOL OF MINES KEYCHAIN<sup>3</sup>

Thingiverse

### PRINTING SPECIFICATIONS

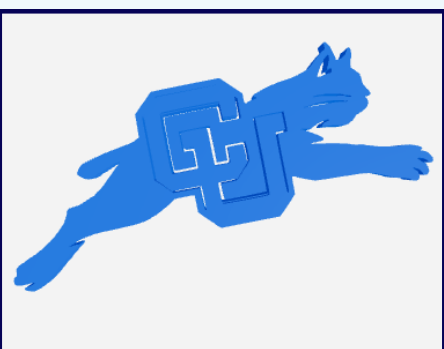
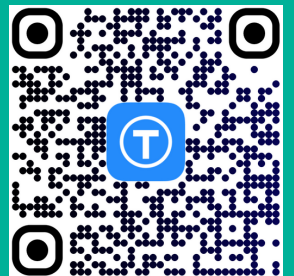
**Dimensions:** 100 mm X 99 mm x 21 mm

**Weight:** 56.37 g

**Time to Print:** 4h 17min

**Approx. Cost:** \$5.64

<https://www.thingiverse.com/thing:2772695>



## CU-DENVER LYNX<sup>4</sup>

Thingiverse

### PRINTING SPECIFICATIONS

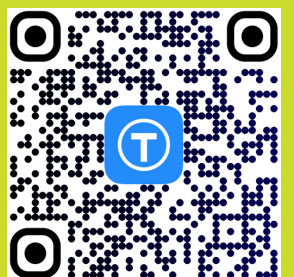
**Dimensions:** 88 mm x 38 mm x 5.5 mm

**Weight:** 6.79 g

**Time to Print:** 44min

**Approx. Cost:** \$0.68

<https://www.thingiverse.com/thing:3699299>



1. CSU Ram Keychain by huffray is licensed under the Creative Commons - Attribution - Share Alike license.
  - a. Estimates based on printing the 0.2 file. Our printer only prints in one solid color at a time. Yellow details can be added with paint.
2. CU Buffaloes by boulderbuff64 is licensed under the Creative Commons - Attribution license.
  - a. Estimates based on printing both the fill and outline.
3. Colorado School of Mines Key Chain by E2khaan141 is licensed under the Creative Commons - Attribution - Share Alike license.
  - a. Estimates based on printing the keychain file.
4. University of Colorado Denver Lynx by Pwtrull is licensed under the Creative Commons - Attribution - Share Alike license.

# STAR WARS DAY - MAY 4



## STAR WARS LOGO<sup>1</sup>

Thingiverse

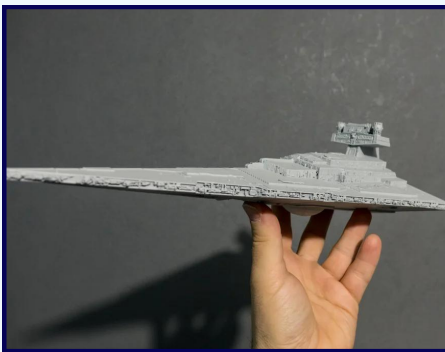
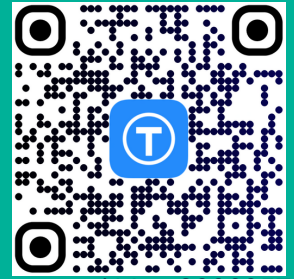
### PRINTING SPECIFICATIONS

**Dimensions:** 99 mm X 66 mm x 27 mm

**Weight:** 60.40 g (total, 2 pieces)

**Time to Print:** 5h 11min (total, 2 pieces)

**Approx. Cost:** \$6.04 (total) <https://www.thingiverse.com/thing:2006957>



## IMPERIAL STAR DESTROYER<sup>2</sup>

Thingiverse

### PRINTING SPECIFICATIONS

**Dimensions:** 152 mm X 84 mm x 41 mm

**Weight:** 56.96 g

**Time to Print:** 4h 53min

**Approx. Cost:** \$5.70

<https://www.thingiverse.com/thing:2802061>



## MOVEABLE R2D2<sup>3</sup>

Thingiverse

### PRINTING SPECIFICATIONS

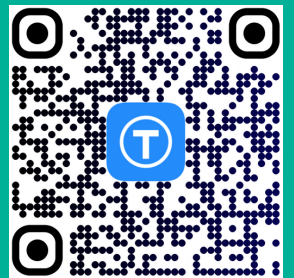
**Dimensions:** 56 mm X 53 mm x 74 mm

**Weight:** 52.18 g

**Time to Print:** 5h 1min

**Approx. Cost:** \$5.22

<https://www.thingiverse.com/thing:970868>



## GREEDO BUST<sup>4</sup>

MyMiniFactory

### PRINTING SPECIFICATIONS

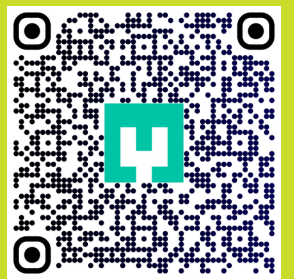
**Dimensions:** 36 mm x 39 mm x 54 mm

**Weight:** 14.34 g

**Time to Print:** 1h 21min

**Approx. Cost:** \$1.43

[mmf.io/o/16669](https://mmf.io/o/16669)



1. [Star Wars Logo](#) by [jcarolinales](#) is licensed under the [Creative Commons - Attribution - Non-Commercial - Share Alike](#) license.
  - a. Estimates based on printing both pieces at 90% of their original size.
2. [Imperial Star Destroyer - Star Wars High Detail](#) by [nikoli2803](#) is licensed under the [Creative Commons - Attribution](#) license.
  - a. Estimates based on printing the ship at 95% original size to fit within time limits.
3. [Moveable R2D2](#) by [Joe Snuffy](#) is licensed under the [Creative Commons - Attribution - Share Alike](#) license.
4. [Greedo from Star Wars](#) by [jeremyconnaughton](#) is licensed under a [Creative Commons \(4.0 International License\) Attribution-NonCommercial](#) license.



# MOTHER'S DAY - MAY 12



## MOTHER'S DAY SCULPTURE<sup>1</sup>

MyMiniFactory

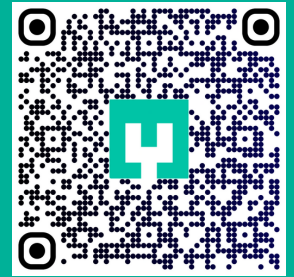
### PRINTING SPECIFICATIONS

**Dimensions:** 55 mm X 55 mm x 120 mm

**Weight:** 56.52 g

**Time to Print:** 4h 49min

**Approx. Cost:** \$5.65



[mmf.io/o/56060](https://mmf.io/o/56060)



## MOTHER'S DAY GIFT BOX<sup>2</sup>

Printables

### PRINTING SPECIFICATIONS

**Dimensions:** 109 mm X 83 mm x 30 mm

**Weight:** 71.35 g (total, 2 pieces)

**Time to Print:** 6h 3min (total, 2 pieces)

**Approx. Cost:** \$7.14 (total) <https://tinyurl.com/printables-mothers-box>



## MOTHER'S DAY PLANT STAKE<sup>3</sup>

Printables

### PRINTING SPECIFICATIONS

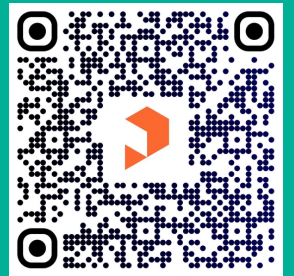
**Dimensions:** 101 mm x 75 mm x 1.7 mm

**Weight:** 1.97g

**Time to Print:** 15min

**Approx. Cost:** \$0.20

<https://tinyurl.com/printables-plant-stake>



## MOTHER'S DAY FLOWER<sup>4</sup>

Thingiverse

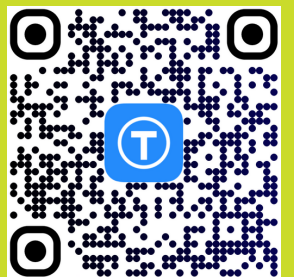
### PRINTING SPECIFICATIONS

**Dimensions:** see footnote

**Weight:** 17.04 g (total, 4 pieces)

**Time to Print:** 1h 35min (total, 4 pieces)

**Approx. Cost:** \$1.70 (total) <https://www.thingiverse.com/thing:2899408>



1. [Mother's Day Sculpture](#) by [MakePrintable](#) is licensed under the [Creative Commons - Attribution - Share Alike](#) license.
2. [Mother's Day Gift Box](#) by [chris\\_58077](#) is licensed under a [Creative Commons \(4.0 International License\) Attribution-NonCommercial](#) license.
  - a. Estimates are based on printing both the box and the lid at 70% of their original size.
3. [Mother's Day Plant Stake](#) by [Grease\\_194529](#) is licensed under a [Creative Commons \(4.0 International License\) Attribution-NonCommercial](#) license.
4. [Mother's Day Flower](#) by [hoonlove58](#) is licensed under the [Creative Commons - Attribution](#) license.
  - a. Estimates based on printing all 4 parts (flower, stem, leaf, base).



# PRIDE MONTH - JUNE



## PRONOUN BADGES<sup>1</sup>

Thingiverse

### PRINTING SPECIFICATIONS

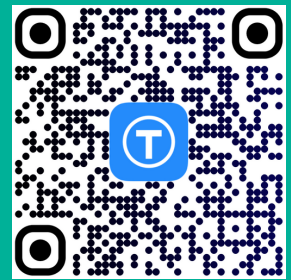
**Dimensions:** 35 mm X 19 mm x 7 mm

**Weight:** 2.50 g

**Time to Print:** 14min

**Approx. Cost:** \$0.25

<https://www.thingiverse.com/thing:2397276>



## PRIDE RAINBOW<sup>2</sup>

MyMiniFactory

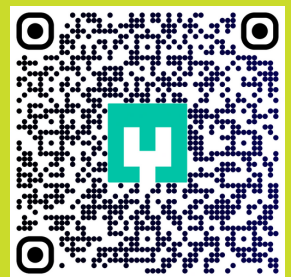
### PRINTING SPECIFICATIONS

**Dimensions:** 70 mm X 35 mm x 20 mm

**Weight:** 35.49 g (total, 2 pieces)

**Time to Print:** 3h 4min (total, 6 pieces)

**Approx. Cost:** \$3.55 (total)



[mmf.io/o/180498](https://mmf.io/o/180498)



## PRIDE KEYCHAINS<sup>3</sup>

Printables

### PRINTING SPECIFICATIONS

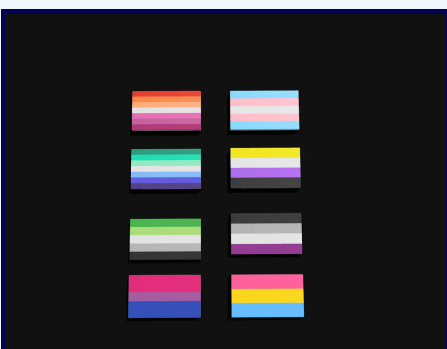
**Dimensions:** 36 mm X 33 mm x 3 mm

**Weight:** 1.81 g

**Time to Print:** 11min

**Approx. Cost:** \$0.18

<https://tinyurl.com/printables-keychains>



## PRIDE FLAGS<sup>4</sup>

Printables

### PRINTING SPECIFICATIONS

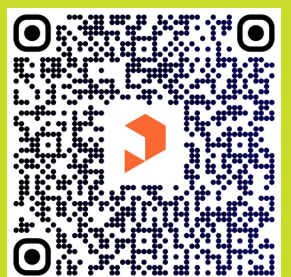
**Dimensions:** 140 mm x 80 mm x 10 mm

**Weight:** 75.6 g

**Time to Print:** 6h 38min

**Approx. Cost:** \$7.56

<https://tinyurl.com/printables-pride-flags>



1. Pronoun Badges by [meanderingwhale](#) is licensed under the [Creative Commons - Attribution](#) license.

a. Estimates based off printing the "They" badge.

2. [Pride Rainbow](#) by [wafflecart](#) is licensed under a [Creative Commons \(4.0 International License\) Attribution—Noncommercial—Share Alike](#) license.

a. Estimates based off printing all 6 pieces of the rainbow (one of each size/color).

3. [Queer Pride Keychains](#) by [heartbreakballer](#) licensed under a [Creative Commons \(International License\) Public Domain](#) license.

a. Estimates based off printing the gay pride keychain.

4. [Pride Flag Collection for the Qube 500](#) by [CZoliver\\_1307946](#) is licensed under a [Creative Commons \(4.0 International License\) —Noncommercial—Share Alike](#) license.

a. Estimates based off printing the base and five stripes for the trans flag.

# FEEDBACK FORM

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