

# Updates from the 3DHotbed Collection

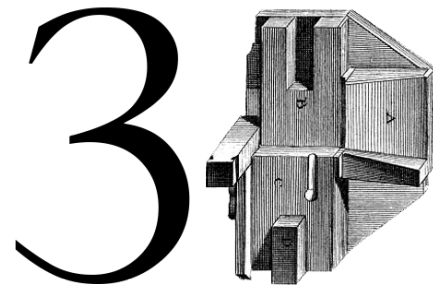


Marcia McIntosh, Courtney Jacobs, Kevin O'Sullivan  
TCDL 2019

@3Dhotbed



Team



HOTBED

# **3D**-printed **H**istory **O**f **T**he **B**ook **E**Ducation

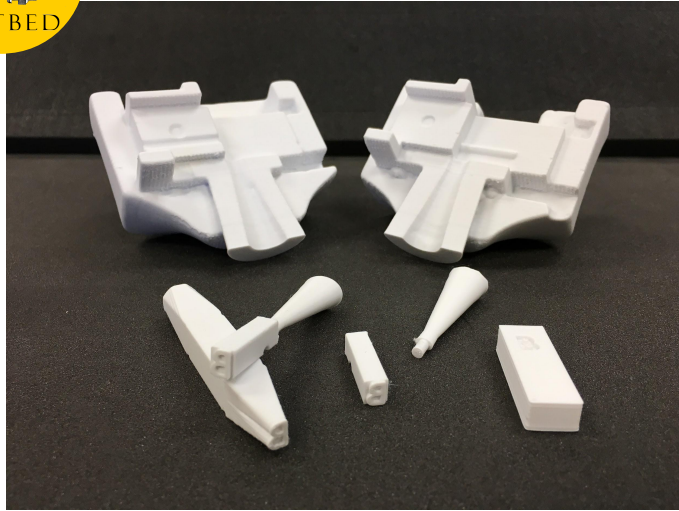
3Dhotbed is a collaborative project that seeks to enhance book history instruction by providing access to affordable teaching tools and related materials for pedagogical purposes.



# 3Dhotbed

Harnessing 3D Technologies and Data to  
Teach the History of the Book

TCDL 2017



## 3Dhotbed Typecasting Toolkit

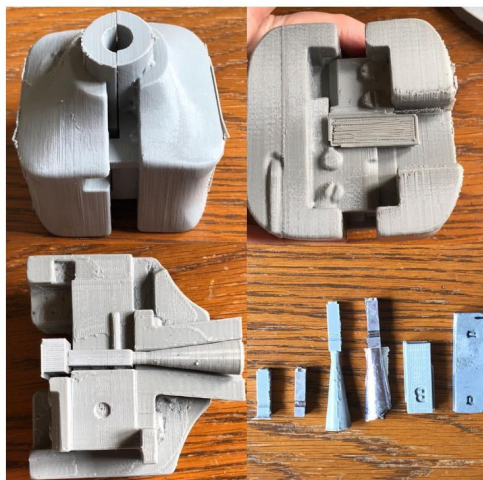
Freely downloadable dataset helps students understand the various tools and processes used to cast type by hand using the punch matrix system during the hand-press era.

Cf. “Making Book History: Engaging Maker Culture and 3D Technologies to Extend Bibliographical Pedagogy,” in the Spring 2018 issue of *RBM*, via [tiny.cc/3dhotbedrbm](https://tiny.cc/3dhotbedrbm).

VIDEO: [tiny.cc/typecastingtoolkit](https://tiny.cc/typecastingtoolkit)



# Community Consumption



[http://picbear.online/media/1845854131747707021\\_5925524294](http://picbear.online/media/1845854131747707021_5925524294)



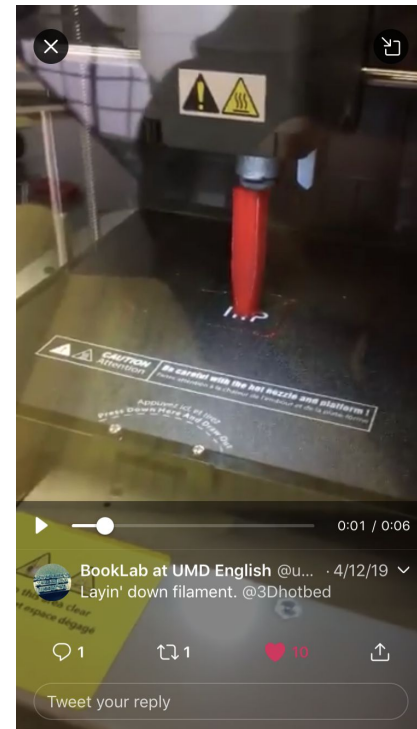
**bcburnslibrary**

September 05 48620806 · 12:28

Excited to see our first 3D print of the @3dhotbed complete typesetting toolkit. Ready for for fall library instruction use, an adjustable handmould, punch, matrix, type with attached jet, and type with detachable jet. All the better to demonstrate the process of creating type for a publication. (The punch, matrix, and type are a sans serif B...for Burns Library, we'd like to think) #bookhistoryworkshop @umlibraries #libraryinstruction #bookhistory #historyofprinting #newtoy

0 Comments

42 Likes



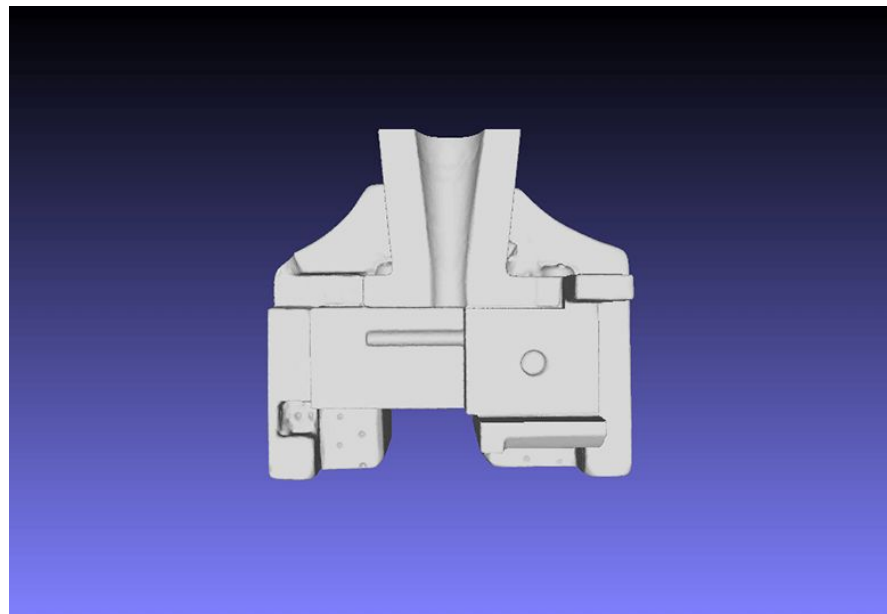




## 3D Imaging



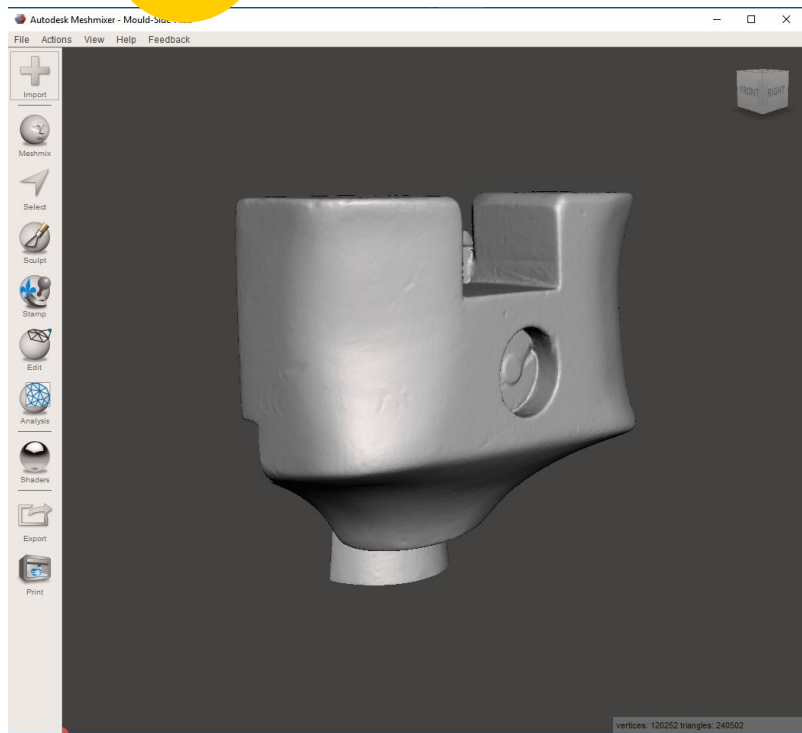
**PNGs**



**GIF**



## 3D Imaging Continued



**README File**





## 3D imaging continued

```

1 <?xml version="1.0" encoding="UTF-8"?>
2 <metadata>
3   <title qualifier="officialtitle">[Dataset: Moveable Type Hand Mould Side
4   A]</title>
5   <creator qualifier="ctb">
6     <type>perc</type>
7     <name>Jacobs, Courtney E.</name>
8   </creator>
9   <creator qualifier="ctb">
10    <type>perc</type>
11    <name>McIntosh, Marcia</name>
12  </creator>
13  <creator qualifier="ctb">
14    <type>perc</type>
15    <name>O'Sullivan, Kevin M.</name>
16  </creator>
17  <creator qualifier="pro">
18    <type>perc</type>
19    <name>Strait, Bob</name>
20  </creator>
21  <contributor qualifier="clb">
22    <type>perc</type>
23    <name>3Dhotbed</name>
24  </contributor>
25  <contributor qualifier="clb">
26    <type>perc</type>
27    <name>Book History Workshop, Cushing Memorial Library, Texas A & M
28    University</name>
29  </contributor>
30  <contributor>
31    <type>perc</type>
32    <name>Texas A & M University</name>
33  </contributor>
34  <publisher>
35    <type>perc</type>
36    <name></name>
37    <location></location>
38  </publisher>
39  <date qualifier="creation">2017-04-01</date>
40  <language>eng</language>
41  <description qualifier="content">3D dataset model of one side of a moveable
42  hand mould. The resulting 3D printed model will replicate the historical
43  artifact used to cast type during the hand press period. This 3D dataset is in
44  two parts. Each part is a separate piece of the two-sided mould. You will need
45  to print both files to have a complete tool for a hand mould. For printing
46  ease, the spring (used by typecasters to hold the matrix into place on the
47  mould) has been excised. These models are for teaching purposes only and
48  cannot be used to cast type using molten type metal, nor can they be used for
49  printing. This dataset is an individual file and is part of a complete set of
50  teaching tools.</description>
51  <subject qualifier="DWTI-B5">Education</subject>
52  <subject qualifier="KOD">book history</subject>
53  <subject qualifier="LCSH">History of the book.</subject>
54  <subject qualifier="LCSH">Three-dimensional imaging.</subject>
55  <subject qualifier="LCSH">Three-dimensional modeling.</subject>
56  <subject qualifier="LCSH">Three-dimensional printing.</subject>
57  <subject qualifier="KOD">moveable type</subject>

```

Name	Date modified	Type	Size	Bit depth
01_png	4/19/2017 12:24 PM	File folder		
02_gif	4/10/2017 10:59 AM	File folder		
03_model	4/10/2017 10:59 AM	File folder		
metadata.xml	10/3/2018 8:48 AM	XML Document	3 KB	

## File Organization

## Metadata



# 3D in the Digital Library

UNIVERSITY OF NORTH TEXAS  
Digital Library

Home Tour About Explore

About This Dataset

Overview  
Who  
What  
When  
Where

View Now

Start Viewing  
Magnify First Item  
Jump to... Go  
Show All Items 15  
All Formats 2

Print & Share

Citations, Rights, Re-Use

Citing This Dataset  
Responsibilities of Use  
Licensing & Permissions

[Dataset: Moveable Type Hand Mould Side A]

You Are Here: home search results this dataset

### Description

3D dataset model of one side of a moveable hand mould. The resulting 3D printed model will replicate the historical artifact used to cast type during the hand press period. This 3D dataset is in two parts. Each part is a separate piece of the two-sided mould. You will need to print both files to have a complete tool for a hand mould. For printing ease, the spring (used by typesetters to hold the matrix into place on the mould) has been excised. These models are for teaching purposes only and cannot be used to cast type using molten type ... continued below

### Creation Information

Jacobs, Courtney E.; McIntosh, Marcia; O'Sullivan, Kevin M. & Strait, Bob April 1, 2017.

### Context

This **dataset** is part of the collection entitled: 3Dhotbed: 3D Printed History of the Book Teaching Tools and was provided by UNT Libraries to Digital Library, a digital repository hosted by the UNT Libraries. It has been viewed 78 times , with 11 in the last month . More information about this dataset can be viewed below.

Online Overview

UNIVERSITY OF NORTH TEXAS

Home Tour About Explore

[Dataset: Moveable Type Hand Mould Side A] (Listing Multiple Items).

You Are Here: home search results about all items

Items

This dataset has 15 items. Select a thumbnail to view a larger version.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

2D Overview



# 3D in the Digital Library

UNIVERSITY OF NORTH TEXAS

Home Tour About ▾ Explore ▾

UNT  
EST. 1890

Digital Library

Search 🔍

About This Dataset

- Overview
- Who
- What
- When
- Where

View Now

Start Viewing

Magnify First Item

Jump to...  Go

Show All Items 15

All Formats 2

You Are Here: home / search results / about / all formats

**[Dataset: Moveable Type Hand Mould Side A] (All Formats)**

This item is available in multiple formats. Choose one below.

View this dataset online.

Number of items:	15
Filetype:	png (image)

Download this dataset.

Number of items:	3
Filetype:	model (file)

## Viewing GIF and Downloading

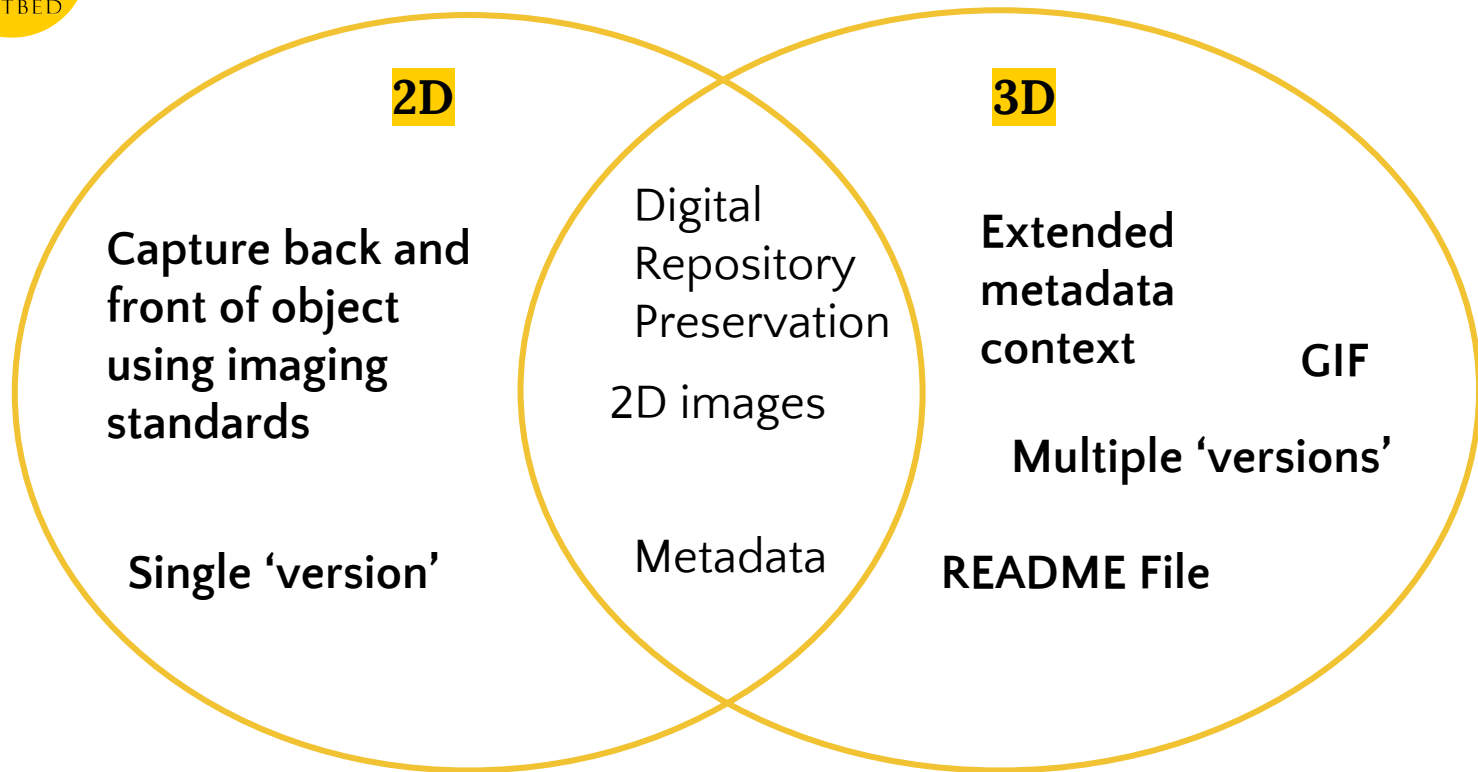
## Finding Data Files

### [Dataset: Moveable Type Hand Mould Side A] (Listing Multiple Items).

Filename	Size	Format	Download
Mould-Side-A.stl	11.5 MB	application/octet-stream	<a href="#">Download</a>
README.txt	1.3 KB	text/plain	<a href="#">Download</a>
mould-side-A-gif.gif	248.1 KB	image/gif	<a href="#">Download</a>



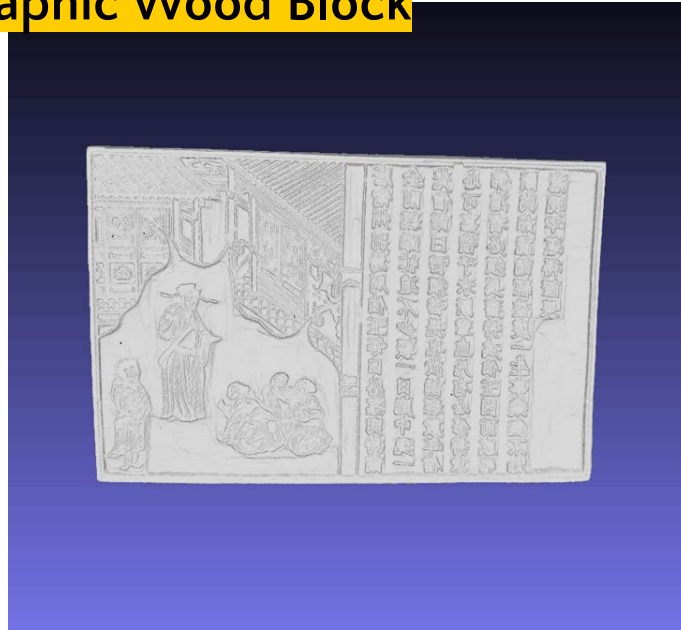
## 2D vs 3D at UNT





## Community Sourced Collections

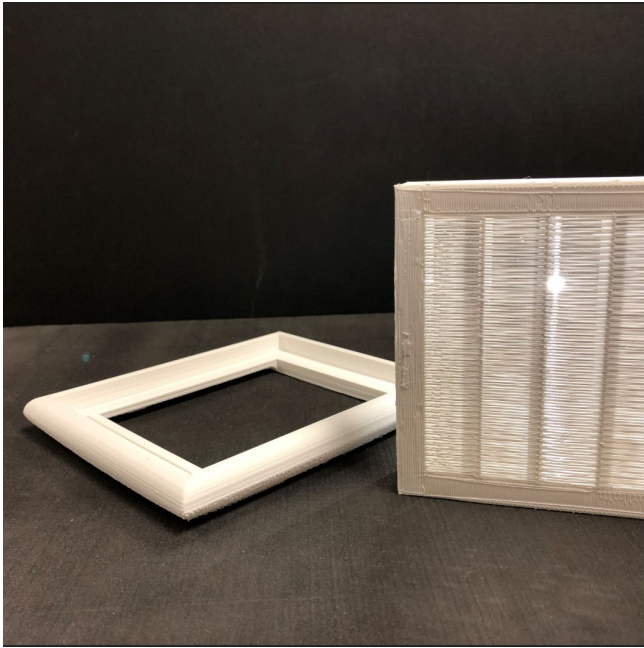
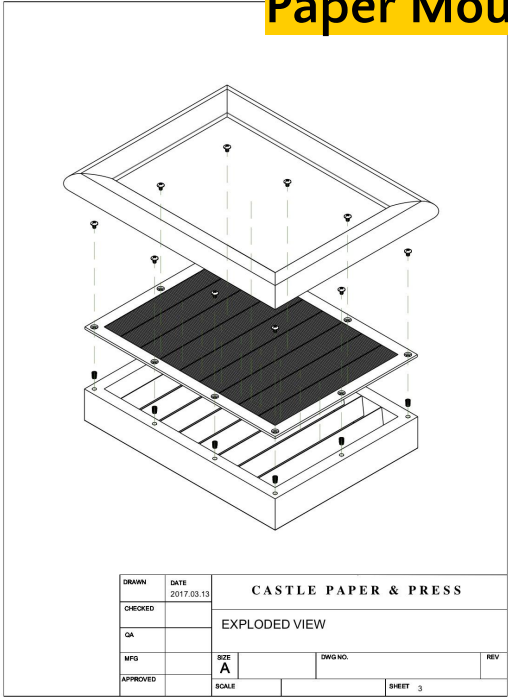
### Xylographic Wood Block





# Community Sourced Collections

## Paper Mould



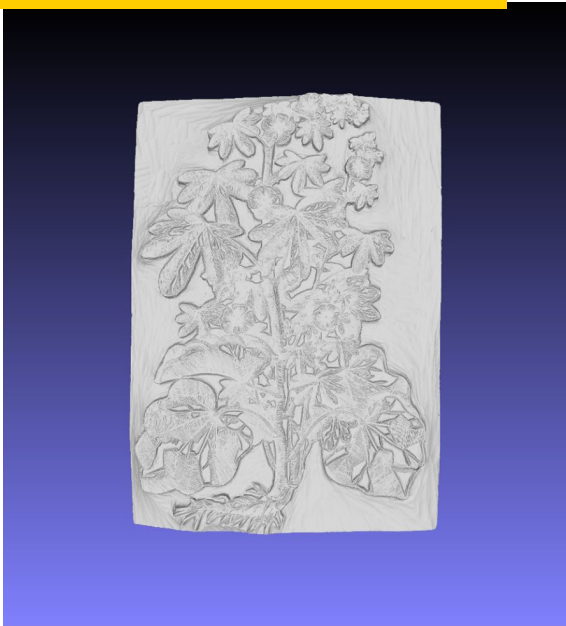
Courtesy of Brian Queen, Castle Papers



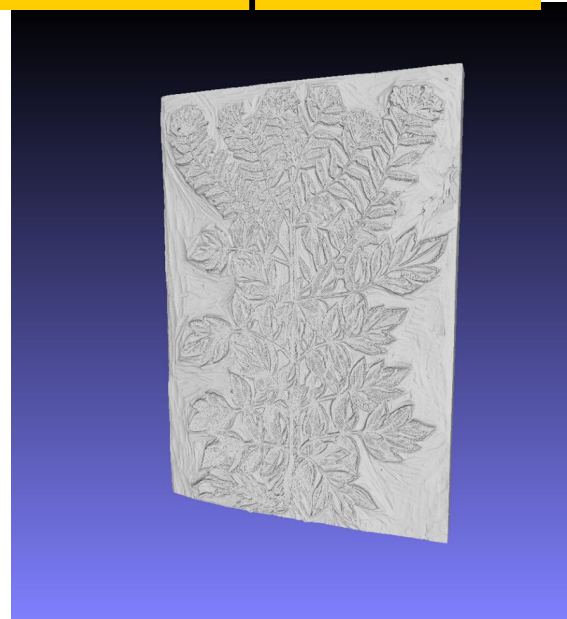


## Community Sourced Collections

**Mattioli Malva maior altera**

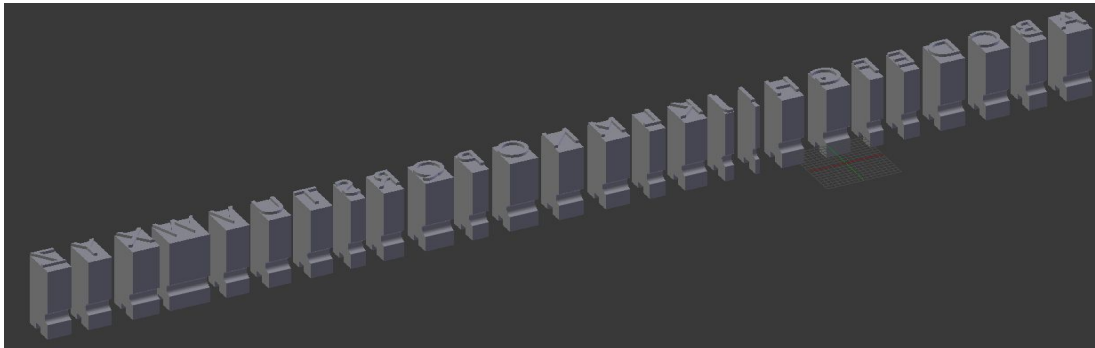
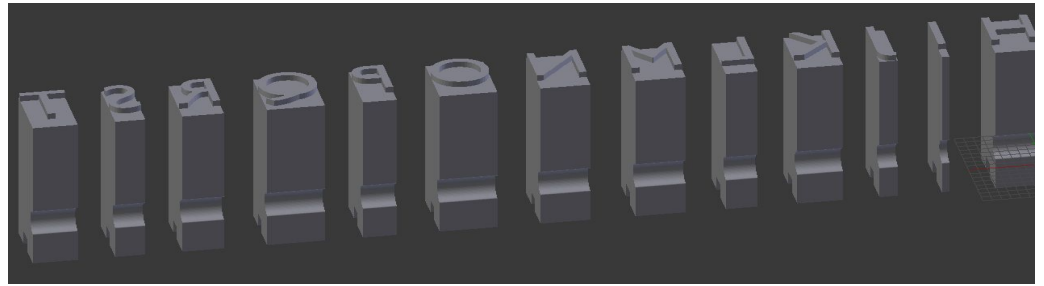


**Mattioli sinapi secundum**





# Type Setting Toolkit



Pangram Font



## The Future

- NEW PARTNERSHIPS
- NEW TOOLS
- INCREASED INTEREST



# 3Dhotbed.info

## @3Dhotbed

<https://digital.library.unt.edu/explore/collections/THREED>

**Kevin M. O'Sullivan**

kmosullivan@library.tamu.edu  
@kmosullivan

**Courtney Jacobs**

courtneyjacobs@library.ucla.edu  
@courtneyejacobs

**Marcia McIntosh**

marcia.mcintosh@unt.edu  
@marcimic