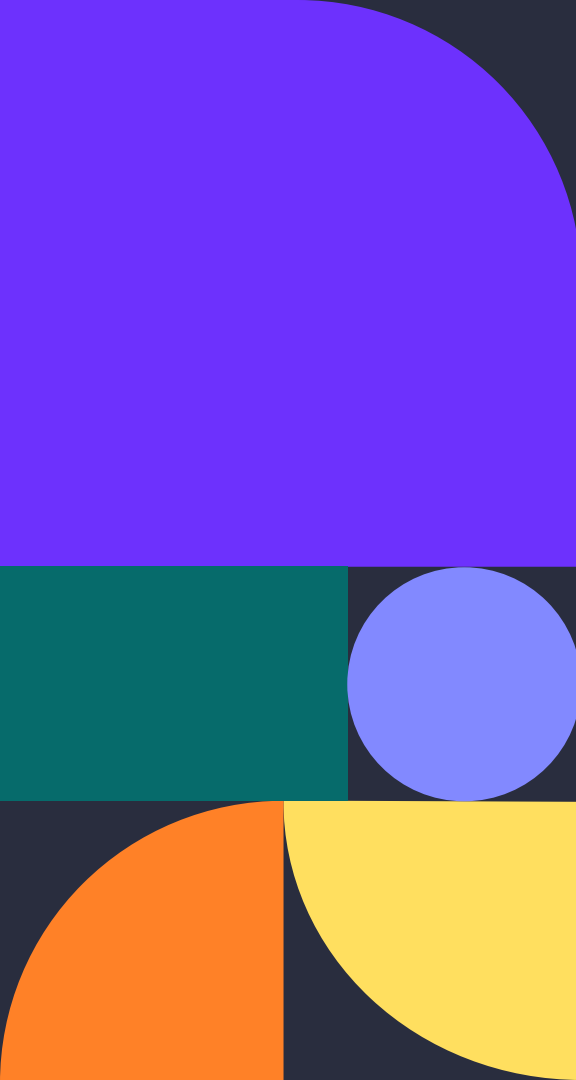
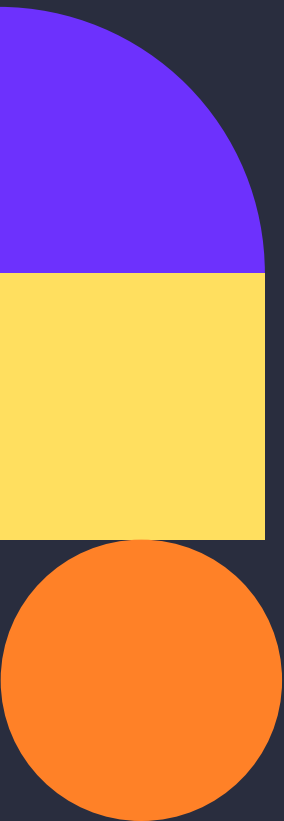




**Luke Waltrip**

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# Keep in mind

01. **Prompts are key**
02. **Information is not real-time**
03. **AI is an assistive technology**
04. **AI can make stuff up**

# Maker Space Survey



How familiar are you with the concept of a makerspace? \*

|                     | 1                     | 2                     | 3                     | 4                     | 5                     |               |
|---------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|---------------|
| Not at all familiar | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Very familiar |

Are you interested in having a makerspace in our county? \*

- ☐ Yes
- ☐ No

Would you use a local makerspace if it were available for free? \*

- ☐ Yes
- ☐ No

Would you be interested in attending educational programs and workshops for students and adults at a makerspace? \*

- ☐ Yes
- ☐ No

Which equipment area are you **most interested** in using or learning to use? \*

- ☐ Woodworking Power Tools/Machines (drills, sanders, table saw, drill press, miter saw, router table, etc)
- ☐ Sewing machines (basic, computerized, serger, embroidery, etc)

# Maker Space Survey



Luke:

Let's create a ranked list of popularity. Column I is worth 3 pts, J is 2 pts and K is 1 pt

ChatGPT:

|                                                   |    |
|---------------------------------------------------|----|
| Sewing machines (basic, computerized, serger, ... | 94 |
| 3D printing (printers, computer with design so... | 92 |
| Ceramics (pottery wheel, kiln, glazing...         | 83 |
| Recording area for music, podcasting, online v... | 63 |
| Woodworking Power Tools/Machines (drills, sand... | 62 |

...

Luke:

Let's create another column with the frequency of the response

ChatGPT:

|                                                   |    |    |
|---------------------------------------------------|----|----|
| Sewing machines (basic, computerized, serger, ... | 94 | 45 |
| 3D printing (printers, computer with design so... | 92 | 45 |
| Ceramics (pottery wheel, kiln, glazing...         | 83 | 43 |
| Recording area for music, podcasting, online v... | 63 | 27 |
| Woodworking Power Tools/Machines (drills, sand... | 62 | 32 |

...

Luke:

Let's add another column that shows the enthusiasm of the response. So first choice indicates the most enthusiasm.

# Maker Space Survey



ChatGPT:

We can measure **enthusiasm** by emphasizing how often an option was chosen as the **top (3-point) choice**, while still accounting for overall frequency.

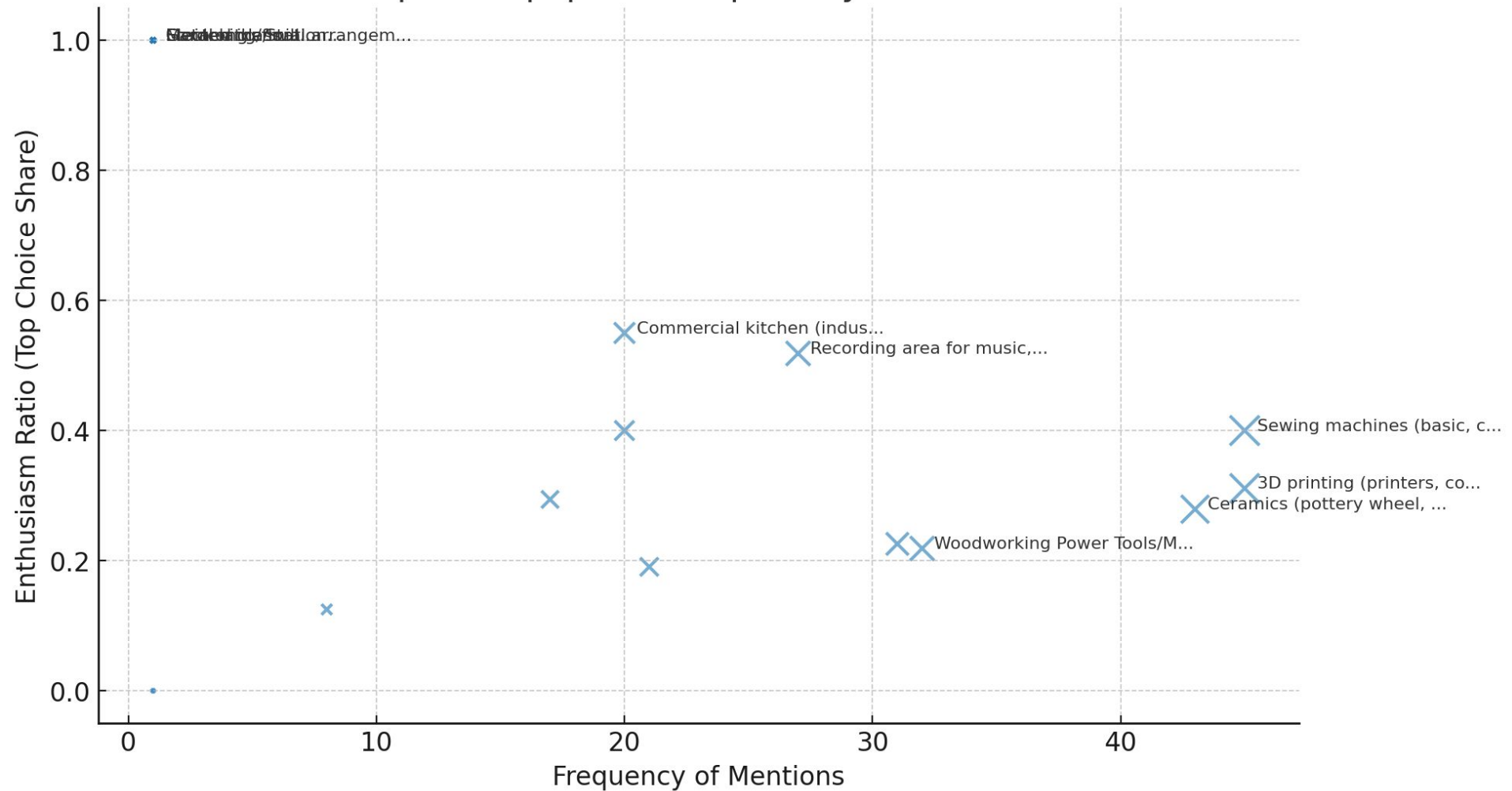
Here's a simple method we could use:

- **Frequency** → counts how often it was chosen in any slot (top 3).
- **Top Choice Count** → how many times it appeared in the 3-point column.
- **Enthusiasm Score** → we could define it as something like:

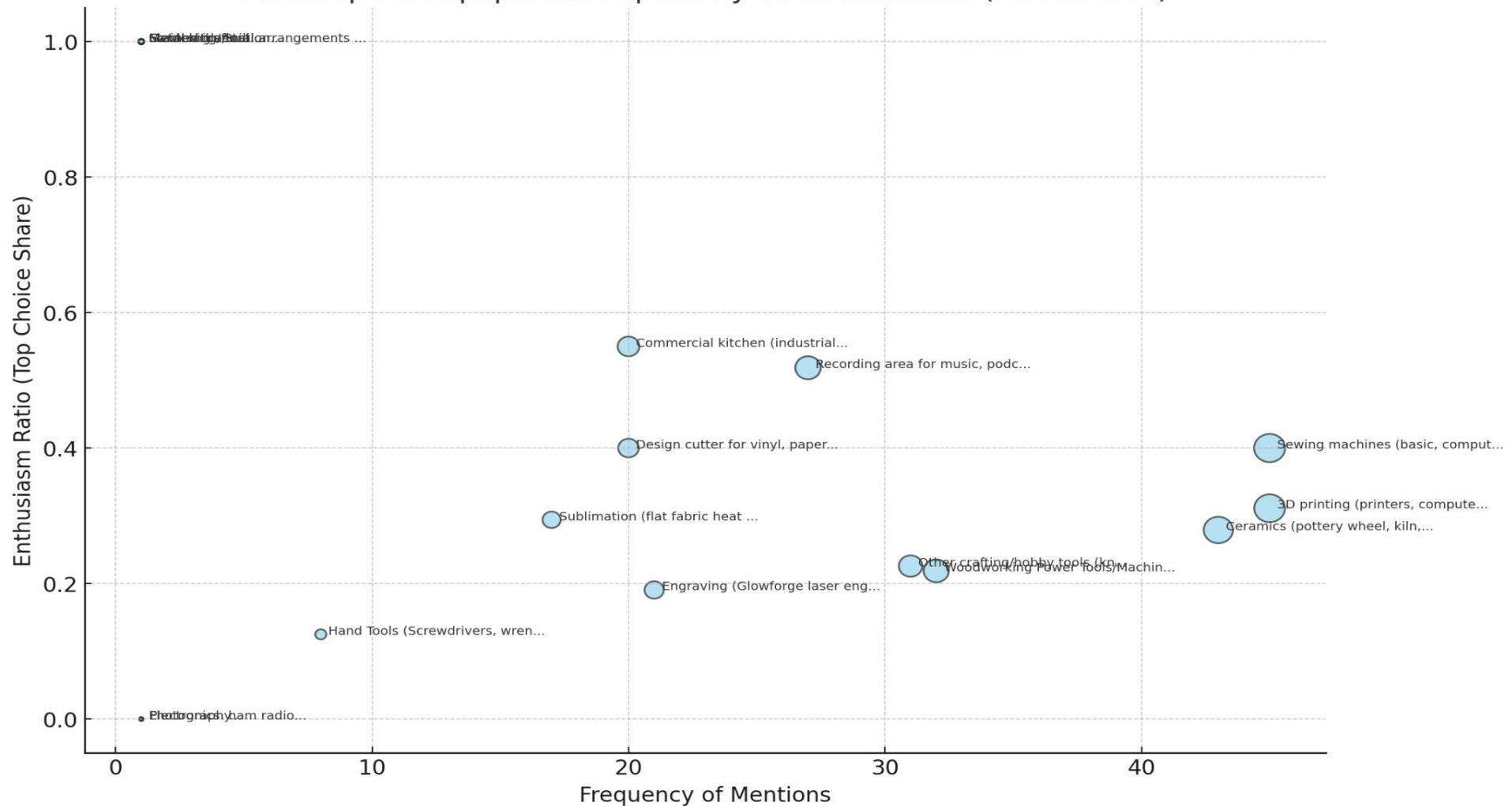
Enthusiasm = Top Choice Count divided by Frequency

This would give us a ratio (0–1) that shows **how strongly people leaned toward that item as their favorite vs. just a secondary option.**

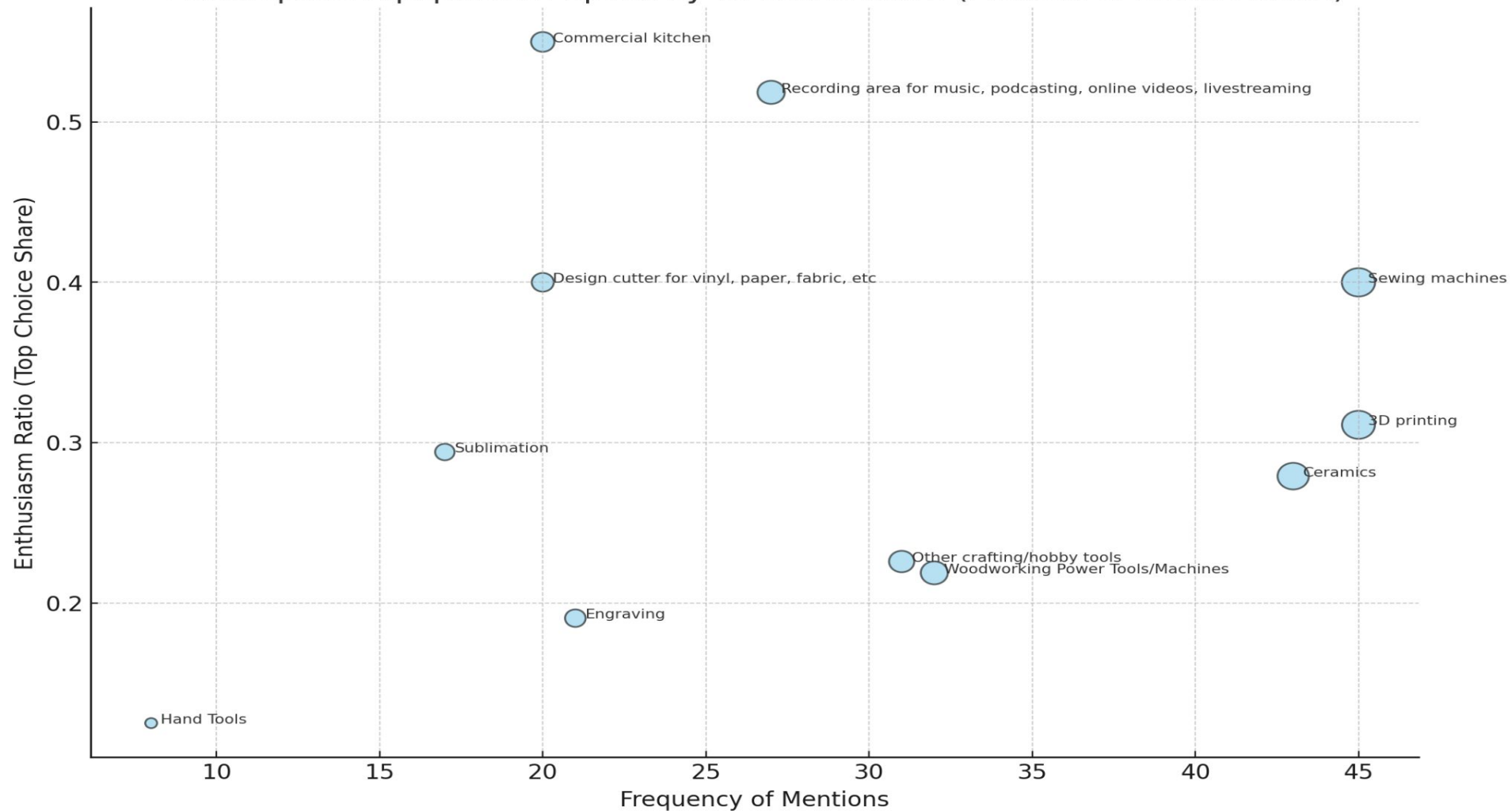
# Makerspace Equipment Popularity vs Enthusiasm



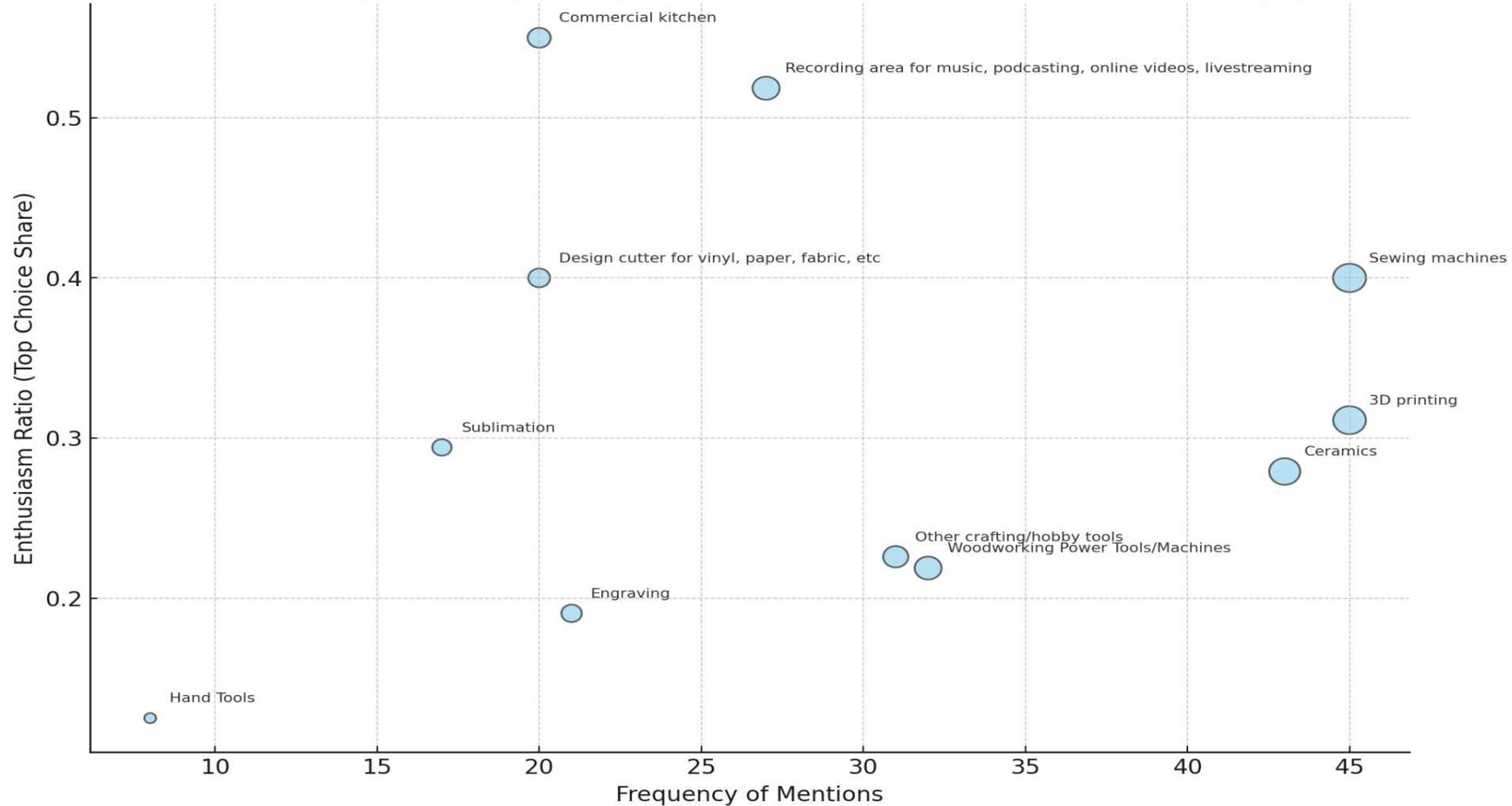
Makerspace Equipment Popularity vs Enthusiasm (All Labeled)



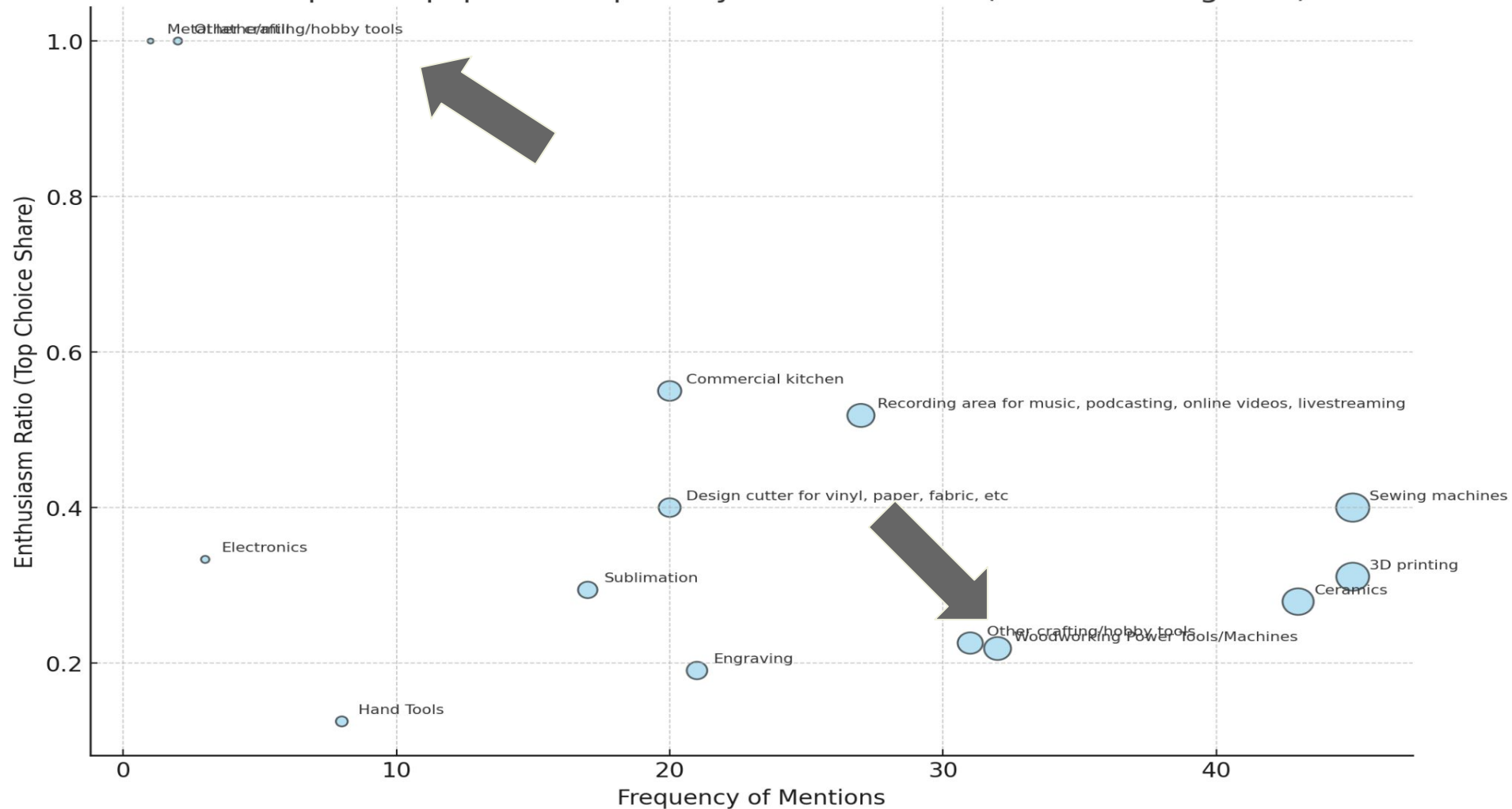
# Makerspace Equipment Popularity vs Enthusiasm (Filtered & Clean Labels)



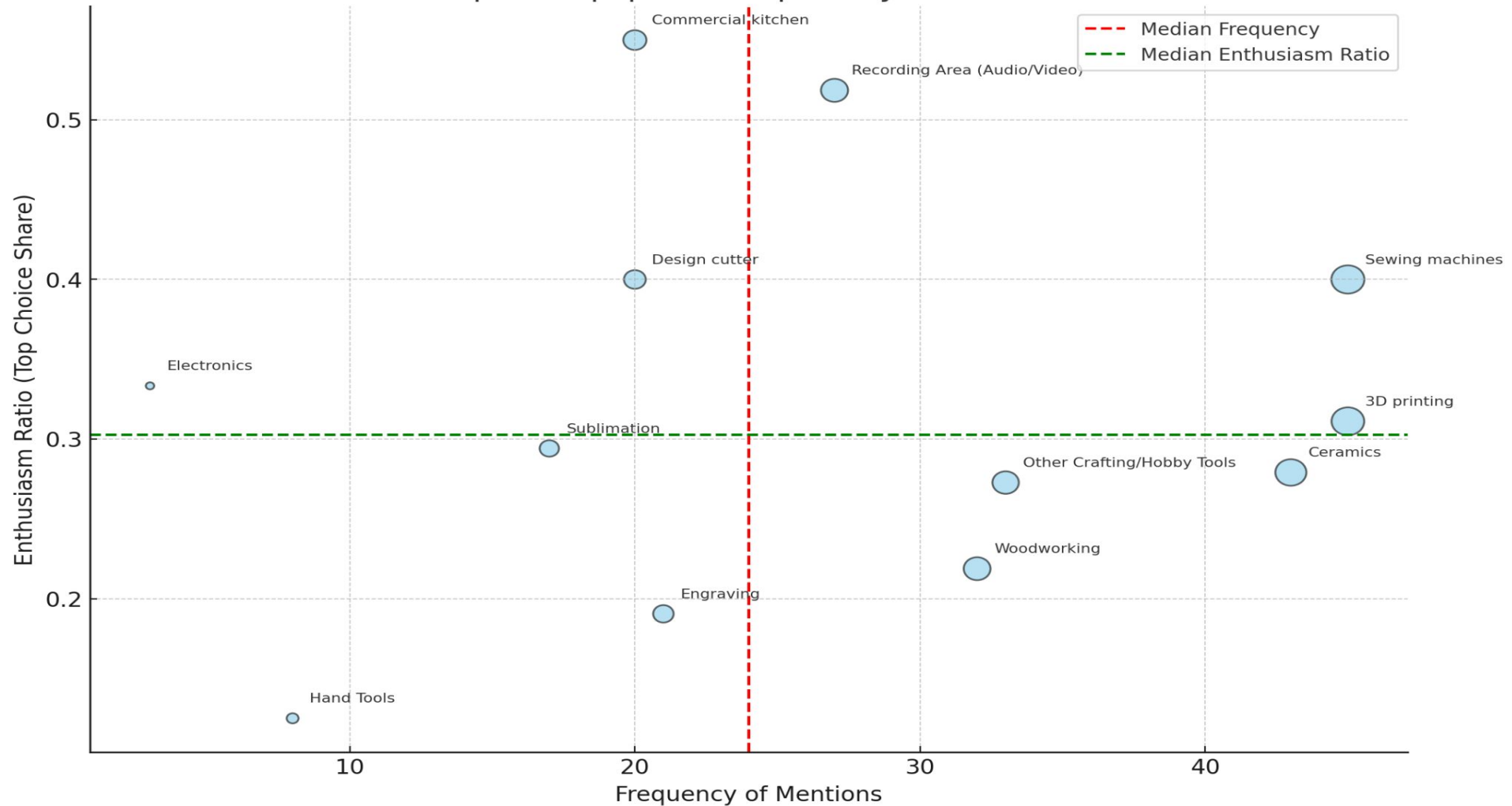
Makerspace Equipment Popularity vs Enthusiasm (Filtered & Clean Labels, Spaced)



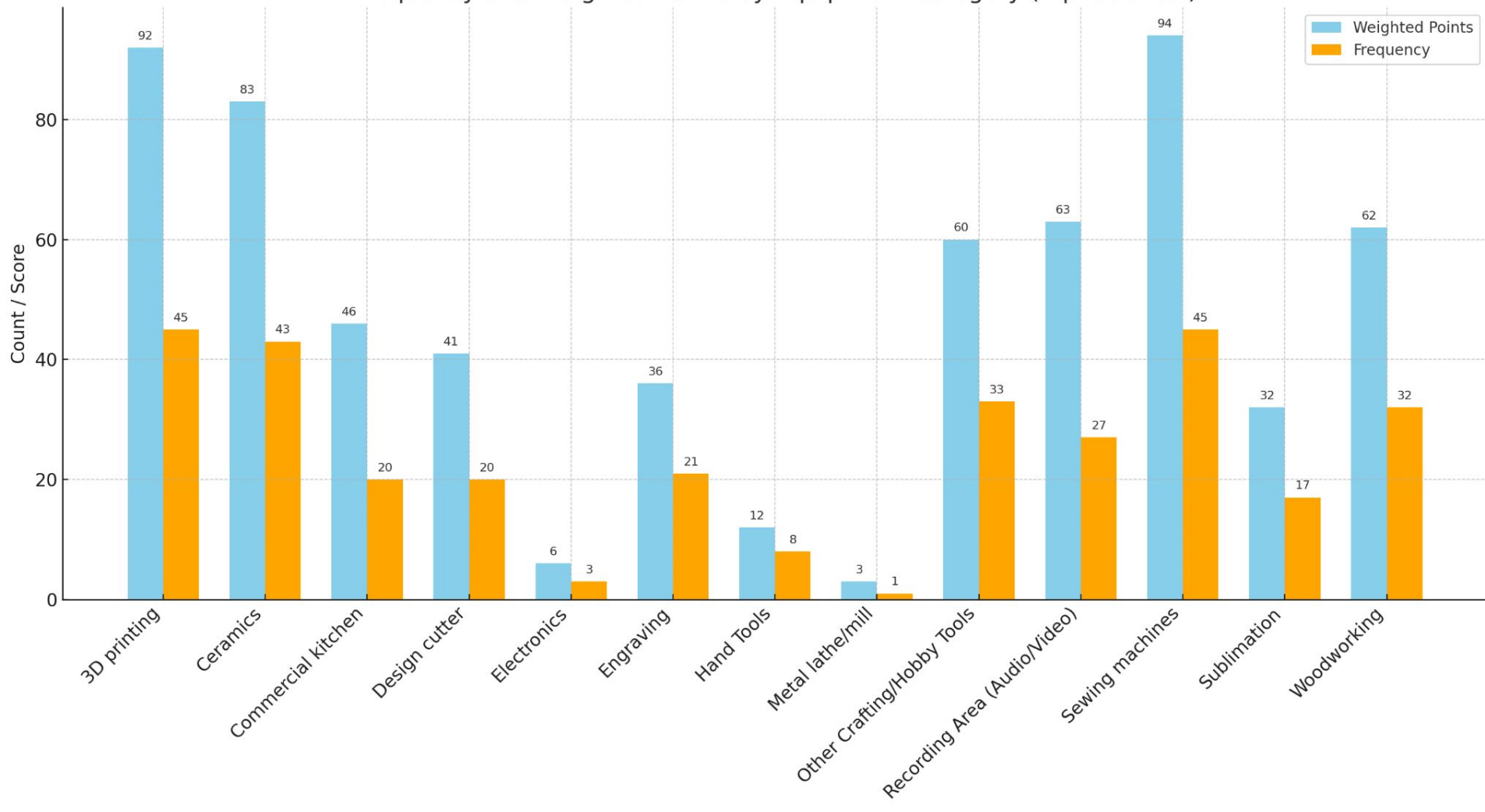
Makerspace Equipment Popularity vs Enthusiasm (Refined Categories)



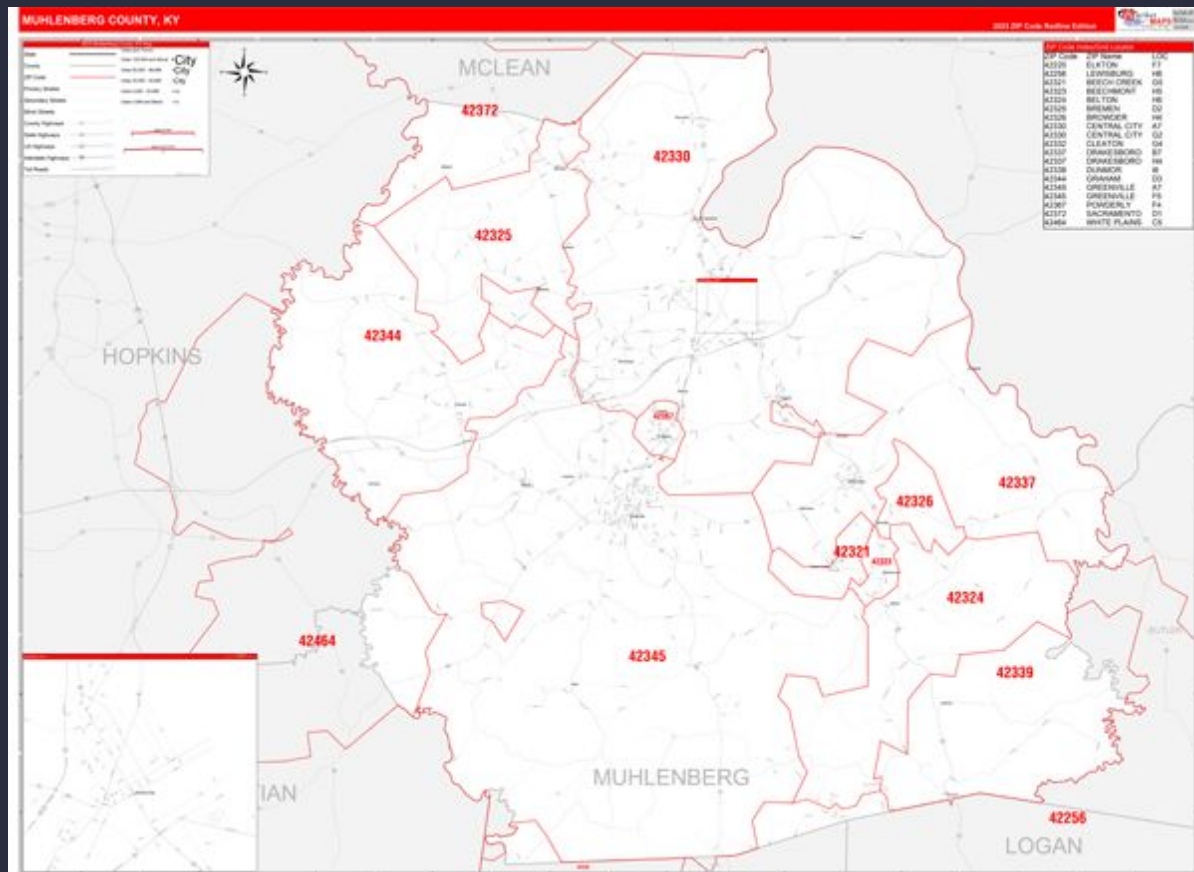
# Makerspace Equipment Popularity vs Enthusiasm



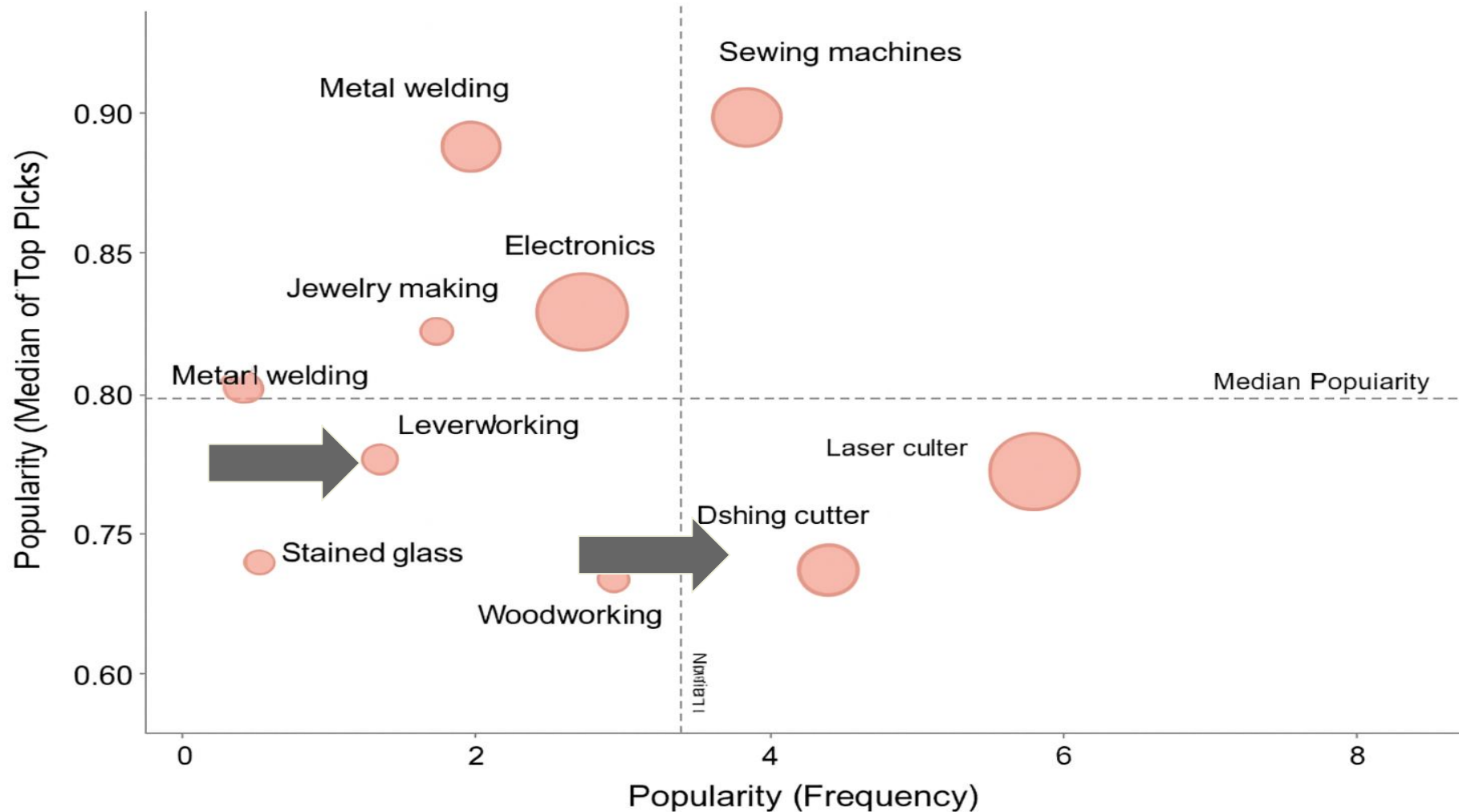
# Frequency and Weighted Points by Equipment Category (Alphabetical)



# Maker Space Map



# Makerspace Equipment Popularity vs Enthusiasm



# Maker Space Map

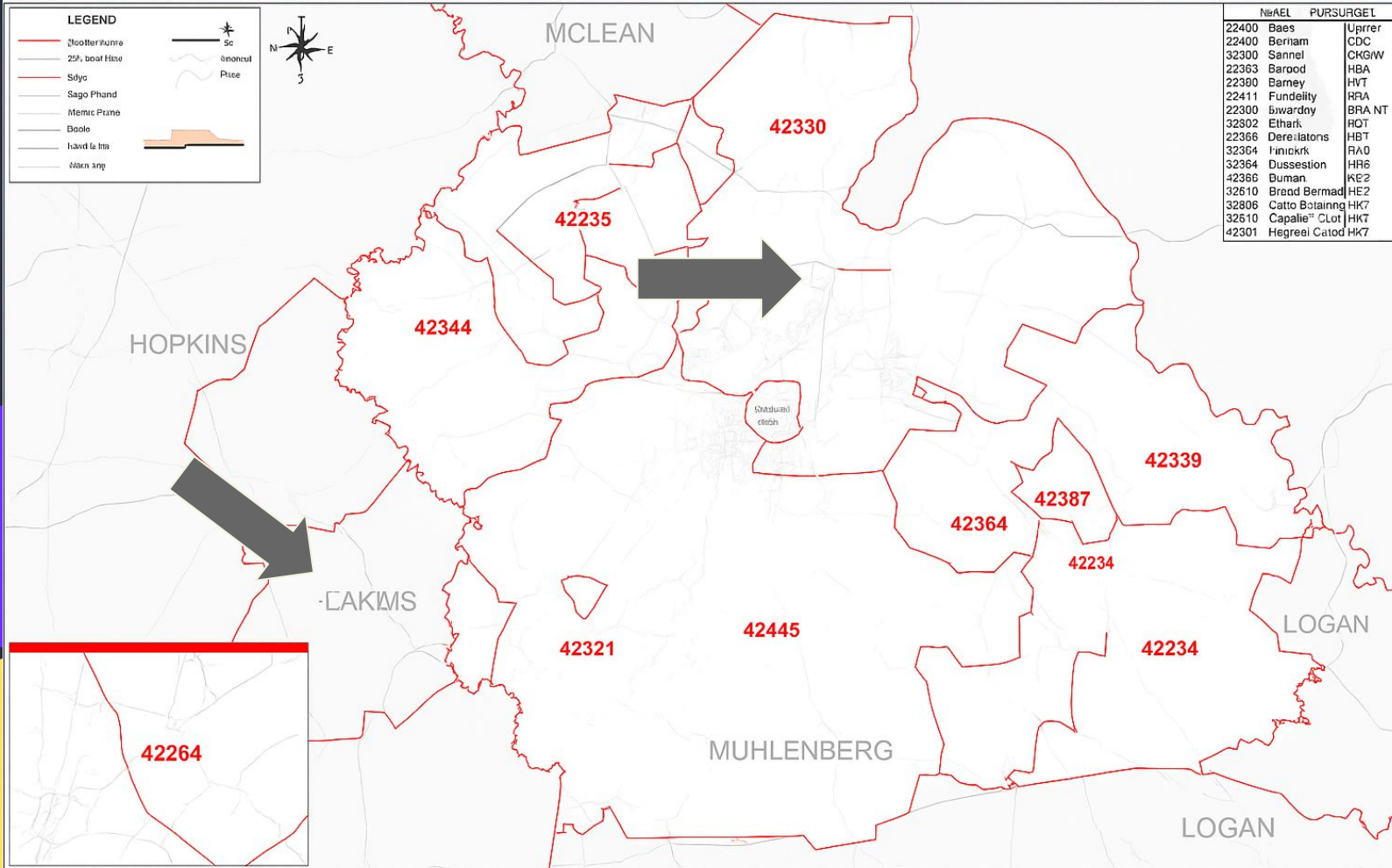
Luke:

So obviously I typed “what is this? It’s not a map at all”

ChatGPT:

You’re right — that scatterplot image isn’t your Muhlenberg County map. What happened is I mistakenly generated a new visualization instead of enhancing the map you uploaded.

✅ If what you want is simply a **clearer, higher-resolution version of the Muhlenberg County, KY map (with ZIP code boundaries and labels)**, I can regenerate it directly from your provided file in a higher resolution, keeping the map content intact (not replacing it with something else).



# Maker Space Map



Luke:

Wow you are surprisingly bad at maps

ChatGPT:

I hear you – maps are tricky here because I don't have direct GIS/vector data to redraw them with full accuracy.

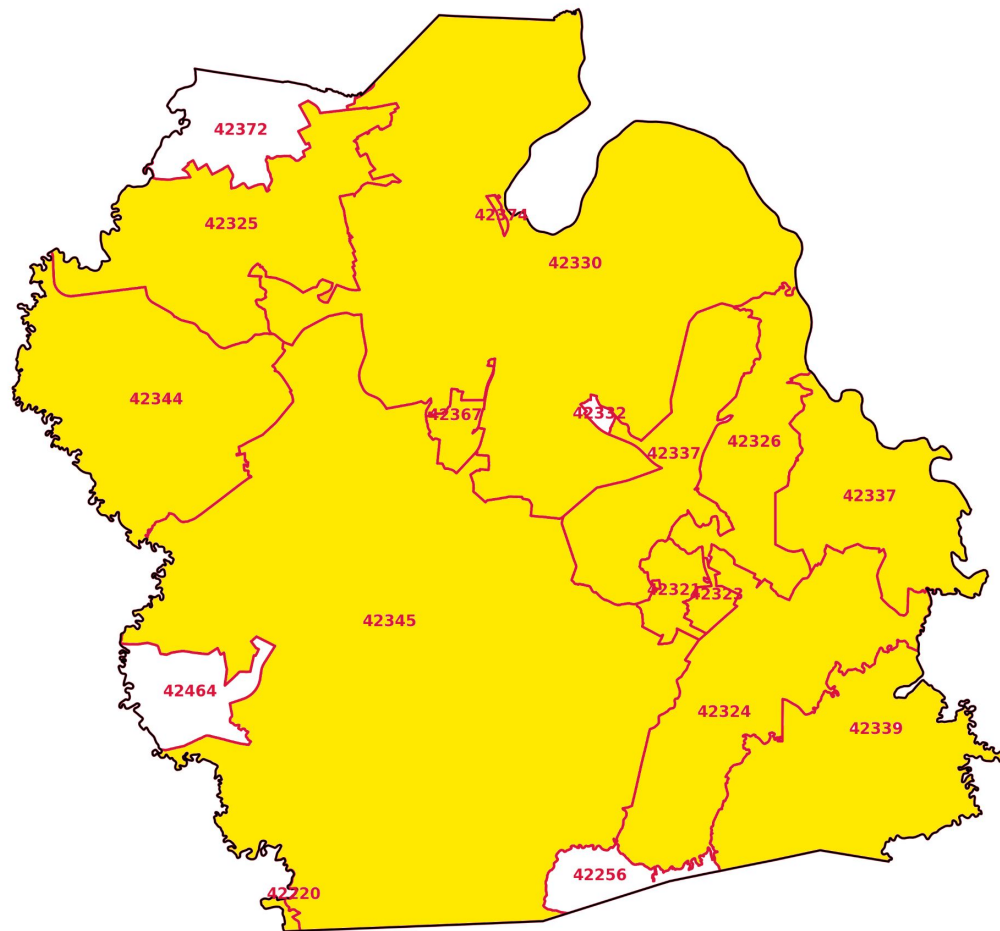
If your goal is presentation-quality maps the best route is I can guide you to download the official ZIP boundary data for Muhlenberg County and generate a PNG that's infinitely scalable and perfectly crisp.

Luke:

Well yes let's do that then.

# Maker Space Map

Muhlenberg County, KY — ZIP Code Areas (ZCTAs, 2024 TIGER/Line)



# AI Library Usage



# AI Library Usage



Luke:

Treat me like an AI beginner and you're a patient AI expert. I need help with prompts. I am a library programmer doing a Native American program. Ask me questions one at a time to help me out. Don't go too fast.

ChatGPT:

Awesome – I've got you. We'll go step by step, one question at a time.

First up: what's the main thing you want help *prompting for* in your Native American program – e.g., event ideas, lesson plans, exhibit text, marketing copy, craft/activity instructions, or something else?

Luke:

Let's start with craft/activity instructions.

ChatGPT:

Great! To tailor the craft/activity prompts well, what age group are you planning for (e.g., K-2, grades 3-5, teens, adults)

# Some More Examples

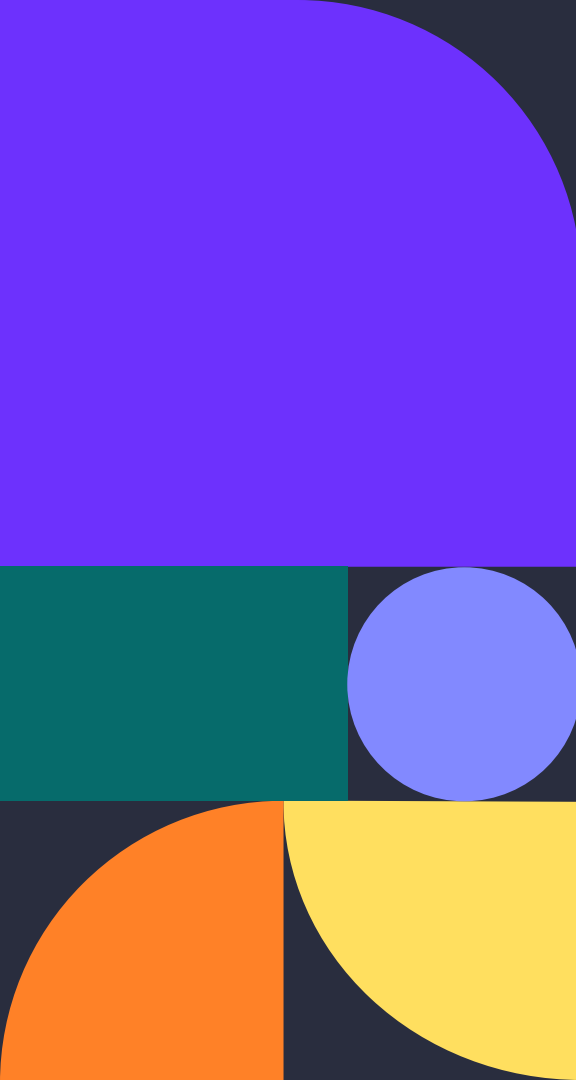
Analyse historical Annual Report data to determine effectiveness of long-term variables

Acquisition assistance based on checkouts and holds

Staffing concerns

Remember to tell AI its role and what you hope to accomplish up front





**Thanks!**

**Luke Waltrip**

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