

# GETTING THE USER'S JOB DONE

Empathy, iteration, and self-learning in the library

Brian Zelip

Emerging Technologies Librarian

University of Maryland, Baltimore

[zelip.me/talks/the-job.pdf](http://zelip.me/talks/the-job.pdf)



**Today's education and research  
needs more from us than  
text-based services and resources.**

**Historically, the “IT” group has been  
the library’s front lines for the cutting edge.**

**Now, more and more (solo) librarians  
are working at the cutting edge as well.**

- Bioinformatics
- Data services
- Digital humanities
- Health and life sciences
- Journalism
- Makerspaces
- etc.

# Innovation Space



## Upcoming Workshops:

Introduction to  
3D Printing  
Aug 4, 9 12p-1p

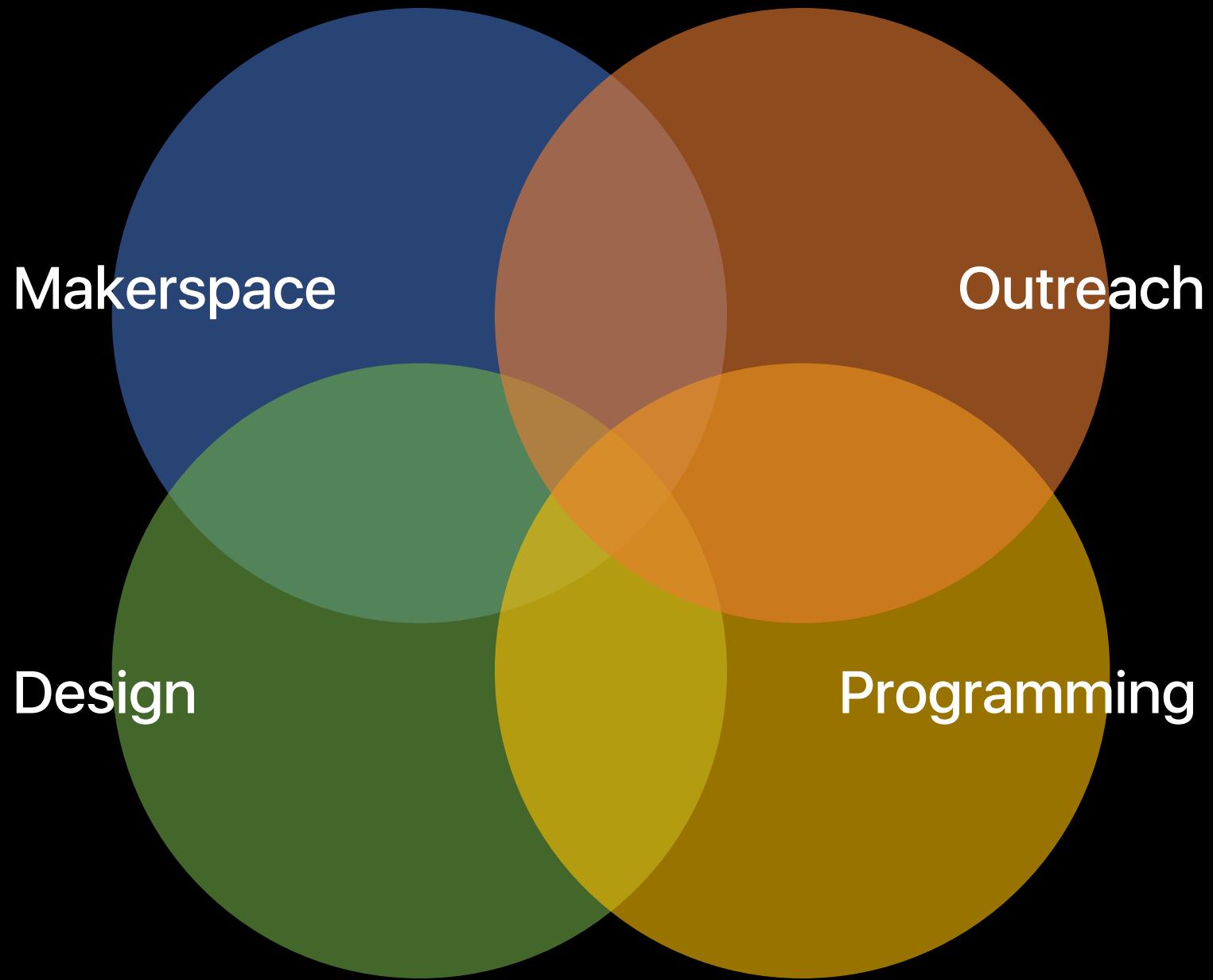
Introduction to  
3D Modeling  
July 28 > 12p-1p  
Aug 8

What's Available  
Lulzbot Taz 5  
Makita Drill Driver 2x

Tutorials from  
Lynda.com

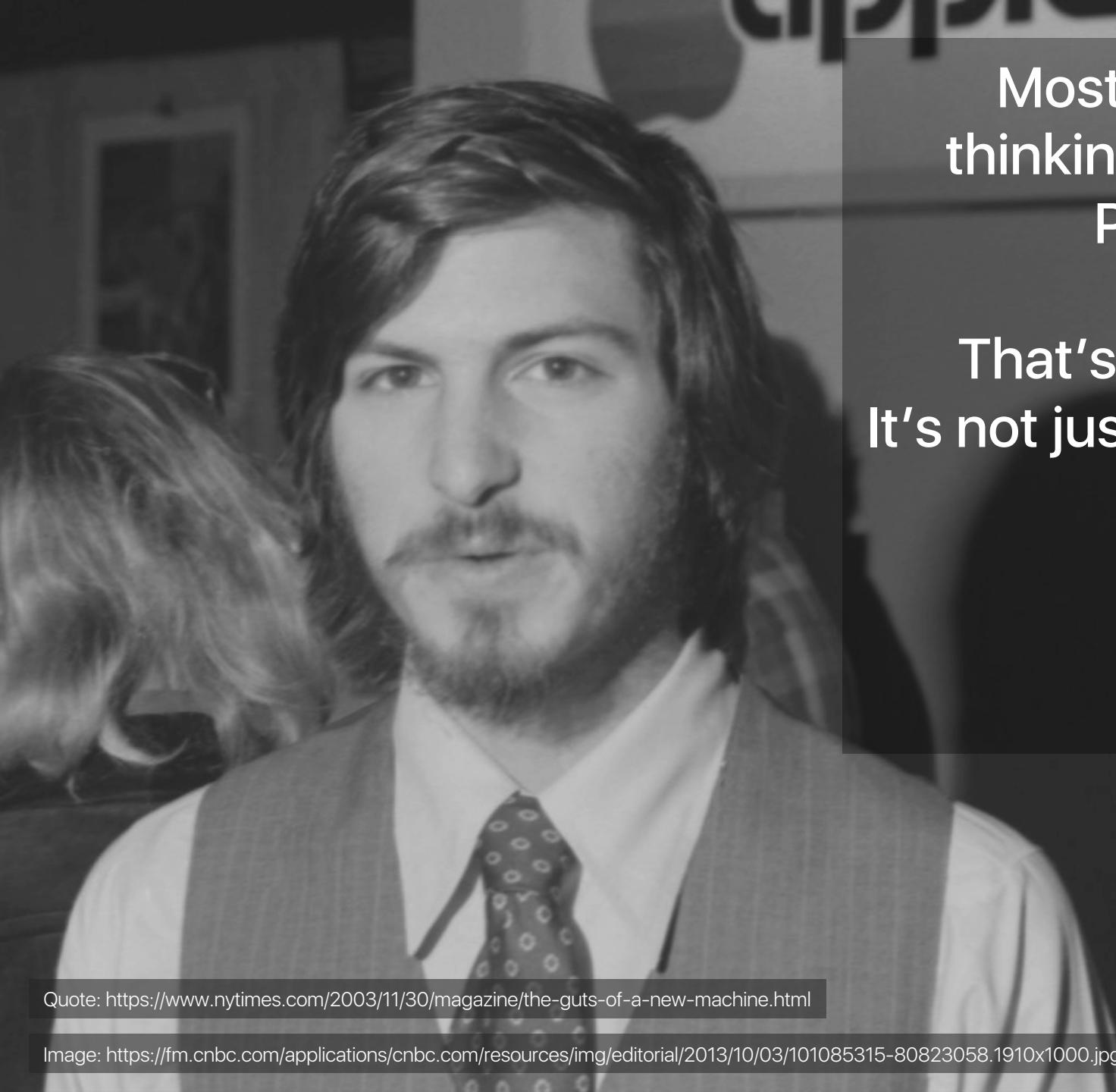
Great learning resource  
that offers 3,500 video  
tutorials by experts.  
Topics range from 3D  
modeling to computer  
programming.





**Design**

**Component  
thinking**



Most people make the mistake of thinking design is what it looks like. People think it's this veneer...

That's not what we think design is. It's not just what it looks and feels like.

**Design is how it works.**

*Steve Jobs*

Quote: <https://www.nytimes.com/2003/11/30/magazine/the-guts-of-a-new-machine.html>

Image: <https://fm.cnbc.com/applications/cnbc.com/resources/img/editorial/2013/10/03/101085315-80823058.1910x1000.jpg>

**Design**

**Component  
thinking**



**Do One Thing  
and Do It Well**

*The Unix philosophy*

# Service design thinking

Services should be:

- designed based on customer needs rather than the internal needs of the business.
- designed with input from the users of the service
- prototyped before being developed in full

# Design thinking

- Empathy: *understanding the needs of those you're designing for*
- Ideation: *generating many ideas*
- Experimentation: *testing those ideas with prototyping.*



# Design thinking

- Empathy: *understanding the needs of those you're designing for*
- Ideation: *generating many ideas*
- Experimentation: *testing those ideas with prototyping.*

# Trying CSS Grid for the first time (Adam Argyle)



Browser Preview (file:///Users/mpj/codetemp/fff-twitch-overlays/nav.html) — fff-twitch-overlays

```
1 <html>
2   <head>
3
4
5   </head>
6   <body>
7     dasjasdhkjasdh
8     dsajdkasljadskljsd
9     <nav>
10       <picture>
11         <img src="" alt="">
12       </picture>
13       <a href="#">Stream starting soon</a>
14       <a href="#">Left desk only</a>
15       <a href="#">Remote fika</a>
16       <a href="#">Remote coding</a>
17       <a href="#">BRB</a>
18       <a href="#">BYE</a>
19     </nav>
20   </body>
21 </html>
```

Browser Preview (file:///Users/mpj/codetemp/fff-twitch-overlays/nav.html) — fff-twitch-overlays

dasjasdhkjasdh dsajdkasljadskljsd  
[Stream starting soon](#) [Left desk only](#) [Remote fika](#) [Remote coding](#) [BRB](#) [BYE](#)



mpjme



argyleink



**Failing together  
at programming**

**Live every Monday  
7-9AM Pacific Time  
twitch.tv/funfunfunction**

# Job to be done theory

- People buy products and services to get a “job” done
- Jobs are functional, with emotional and social components
- Success comes from making the “job”, rather than the product or the customer, the unit of analysis

You have [users],

they need your help,

they often have no idea how to describe what they need,

they have no idea how to evaluate what they're looking at,

and most importantly, they have no way of knowing whether or not they're working with the right [librarian].

@monteiro

Quote: <https://vimeo.com/88764543>

Image: <https://chifoo.org/wp-content/uploads/2017/12/Mike-Monteiro-April.png>



# React

A JavaScript library for building user interfaces

[Get Started](#)[Take the Tutorial >](#)

## Declarative

React makes it painless to create interactive UIs. Design simple views for each state in your application, and React will efficiently update and render just the right components when your data changes.

Declarative views make your code more predictable and easier to debug.

## Component-Based

Build encapsulated components that manage their own state, then compose them to make complex UIs.

Since component logic is written in JavaScript instead of templates, you can easily pass rich data through your app and keep state out of the DOM.

## Learn Once, Write Anywhere

We don't make assumptions about the rest of your technology stack, so you can develop new features in React without rewriting existing code.

React can also render on the server using Node and power mobile apps using [React Native](#).

## Components Basics

[Base Example](#)

[Reusing Components](#)

[data Must Be a Function](#)

[Organizing Components](#)

[Passing Data to Child Components  
with Props](#)

[A Single Root Element](#)

[Listening to Child Components](#)

[Events](#)

[Emitting a Value With an Event](#)

[Using v-model on Components](#)

[Content Distribution with Slots](#)

[Dynamic Components](#)

[DOM Template Parsing Caveats](#)

## Components In-Depth

[Component Registration](#)

[Props](#)

[Custom Events](#)

[Slots](#)

[Dynamic & Async Components](#)

[Handling Edge Cases](#)

# Components Basics

## Base Example

Here's an example of a Vue component:

```
// Define a new component called button-counter
Vue.component('button-counter', {
  data: function () {
    return {
      count: 0
    },
    template: '<button v-on:click="count++>You clicked me {{ count }} times.</button>'
  }
})
```

JS

Components are reusable Vue instances with a name: in this case, `<button-counter>`. We can use this component as a custom element inside a root Vue instance created with `new Vue`:

```
<div id="components-demo">
  <button-counter></button-counter>
</div>
```

HTML

```
new Vue({ el: '#components-demo' })
```

JS

[Introduction](#)[Getting Started](#)[Next.js](#)[Gatsby](#)[Create React App](#)[React Static](#)[Webpack](#)[Parcel](#)[Zero](#)[Migrating from v0 to v1](#)[Playground ALPHA](#)[Guides](#)[Syntax highlighting](#)[Live code editor](#)[Table of contents](#)[Writing a plugin](#)[Custom loader](#)[Wrapper customization](#)[Vue ALPHA](#)[Advanced](#)

# MDX

## Markdown for the component era

MDX is an authorable format that lets you seamlessly write JSX in your Markdown documents. You can import components, such as interactive charts or alerts, and embed them within your content. This makes writing long-form content with components a blast .

### Try it

# Hello, world!

Below is an example of JSX embedded in Markdown.

**Try and change the background color!**

This is JSX

```
# Hello, *world*!
```

## PRINCIPLES

### Responsive

Everything should be 100% responsive. Your website should work regardless of a user's device or screensize.

### Readable

No matter the lighting, or the device, font-sizes should be large enough and contrast should be high enough for your users to easily read your content.

### Modular

Tachyons isn't just a monolithic framework. It's a collection of small modules that can be mixed and matched or used independently. Use what you need. Leave the rest.

### Accessible

Accessibility is important to us. Throughout both the css and the documentation we provide numerous tools and methods for making it easier to maximize the accessibility of your site.

### Performant

Code should be optimized for performance.

### Reusable

Clear documentation helps create a shared understanding of design patterns amongst your team. This helps promote reuse and reduces the amount of redundancy in a codebase.

## FEATURES

# Open source component library

There is a [growing library of open source components](#) written in static html that are easy to use as is, customize with your own theme, or port to a templating language.



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Wiki

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Branch: master ▾

css-modules / README.md

Find file Copy path



juanca Documentation on `from global` (#270)

9922d6e on Oct 27, 2017

16 contributors

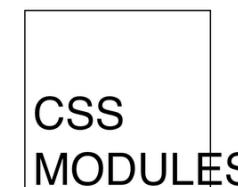


146 lines (95 sloc) | 5.41 KB

Raw

Blame

History



## CSS Modules

A **CSS Module** is a CSS file in which all class names and animation names are scoped locally by default. All URLs (`url(...)`) and `@imports` are in module request format (`./xxx` and `../xxx` means relative, `xxx` and `xxx/yyy` means in modules folder, i. e. in `node_modules`).

CSS Modules compile to a low-level interchange format called ICSS or [Interoperable CSS](#), but are written like normal CSS files:

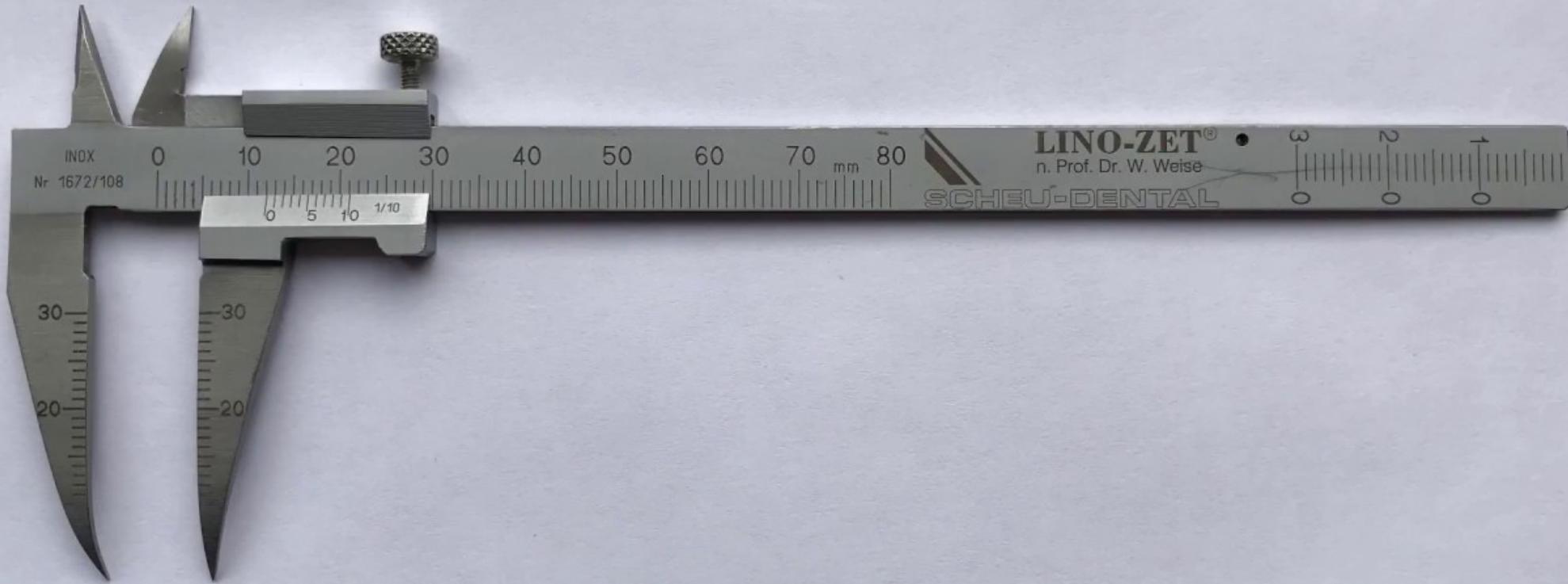
**Hands-on prototyping:  
iteratively design, build, and test with users**

# Users dream it

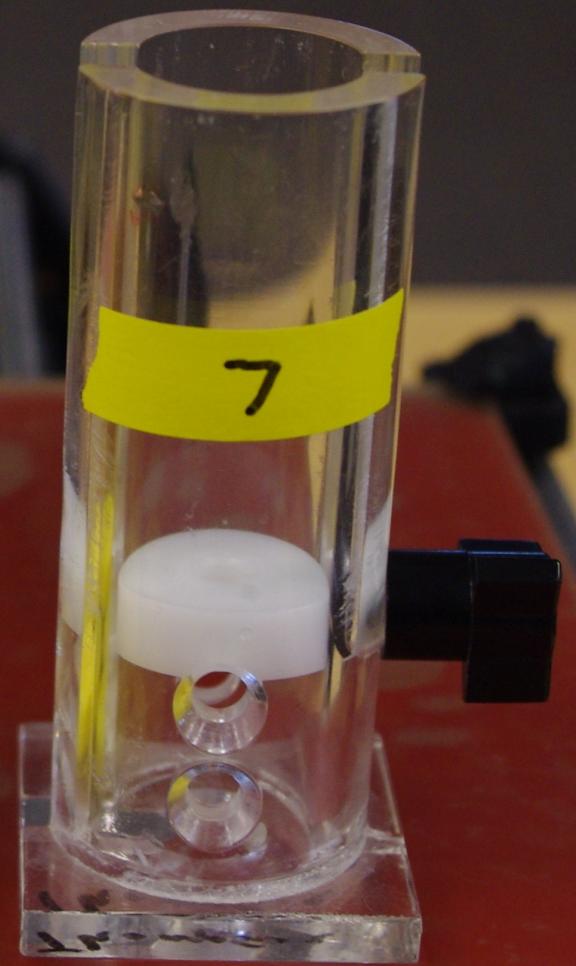


Getty

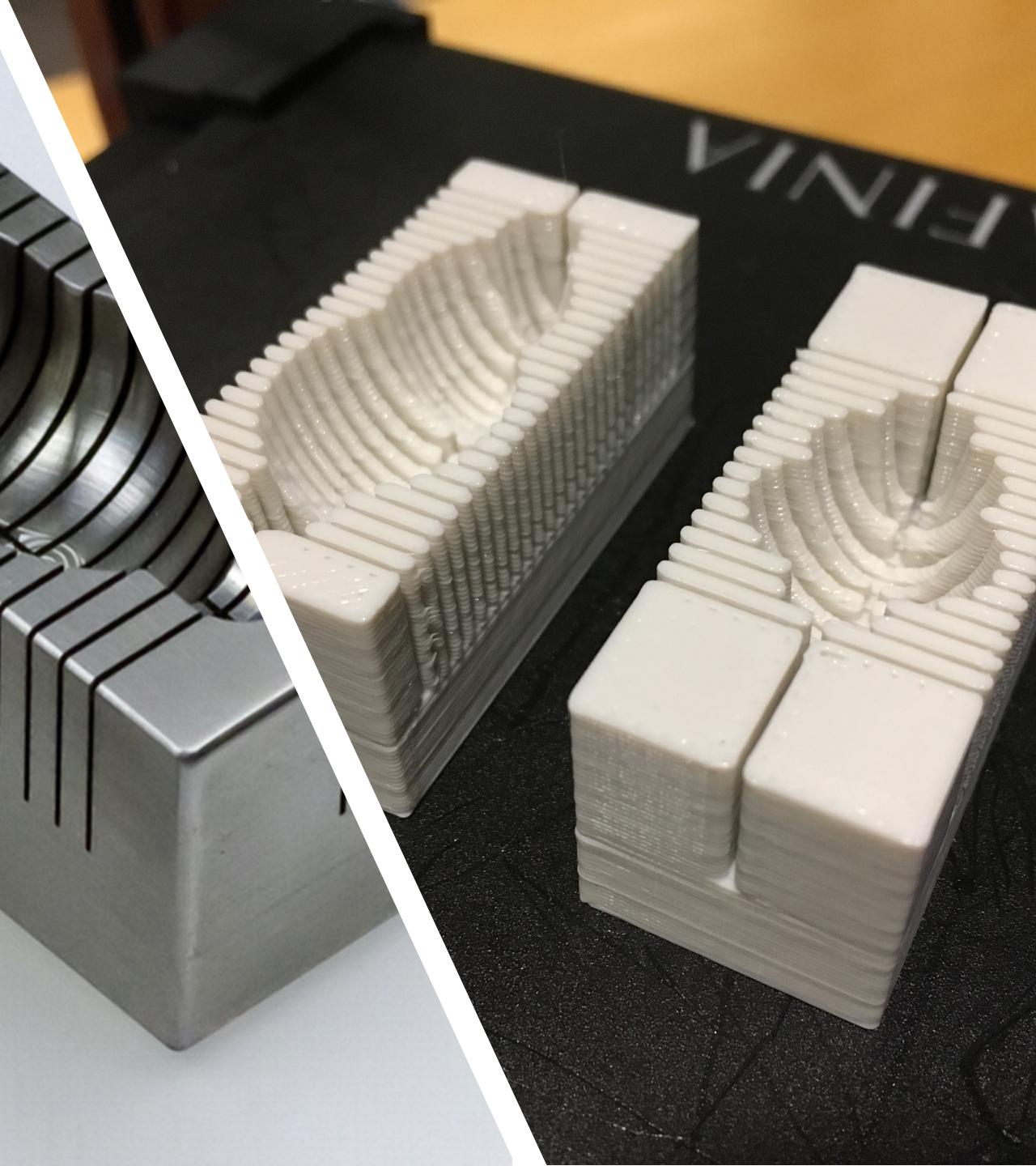
# we make it

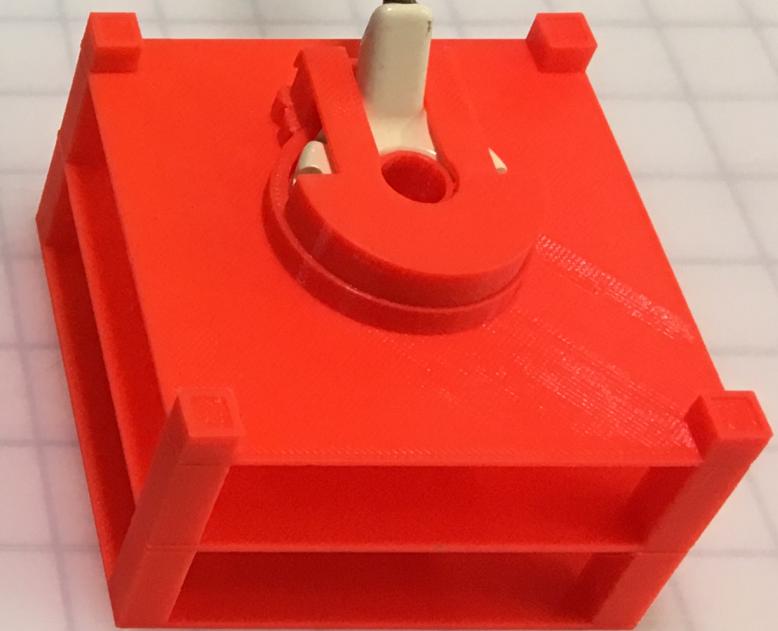


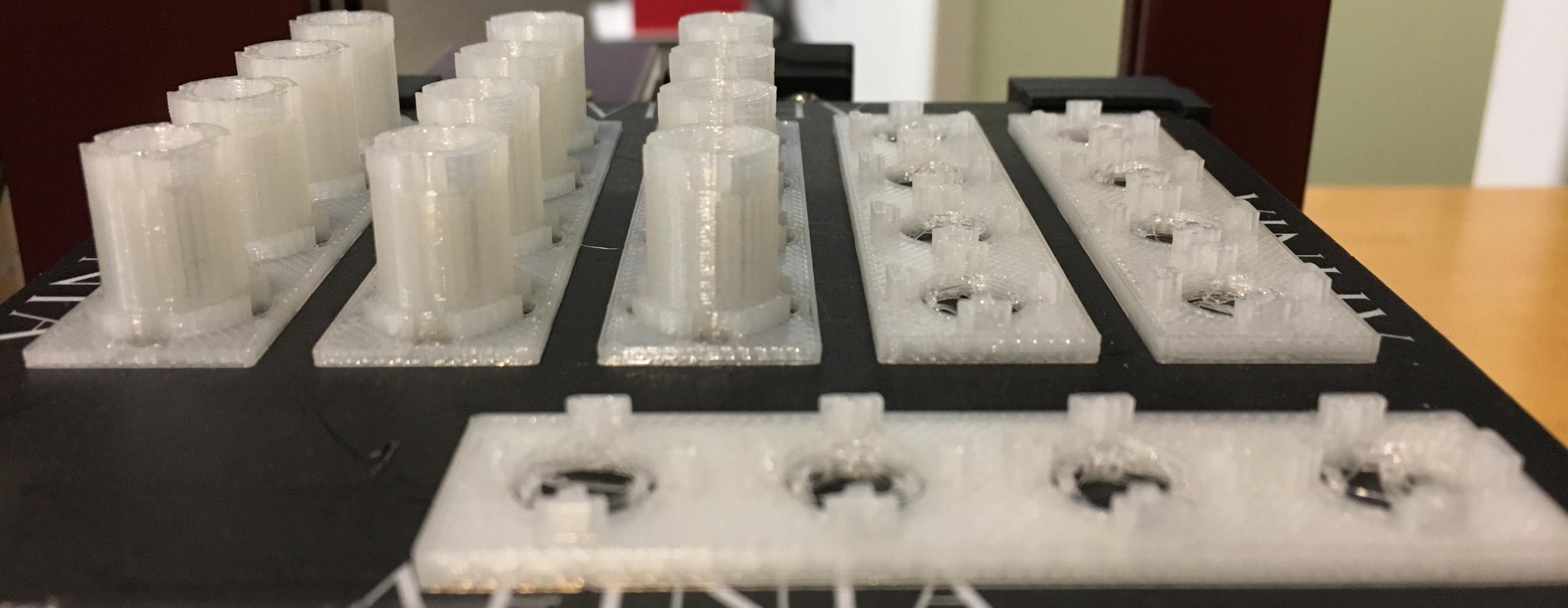
[zelip.me/talks/tinkercad-demo.gif](https://zelip.me/talks/tinkercad-demo.gif)

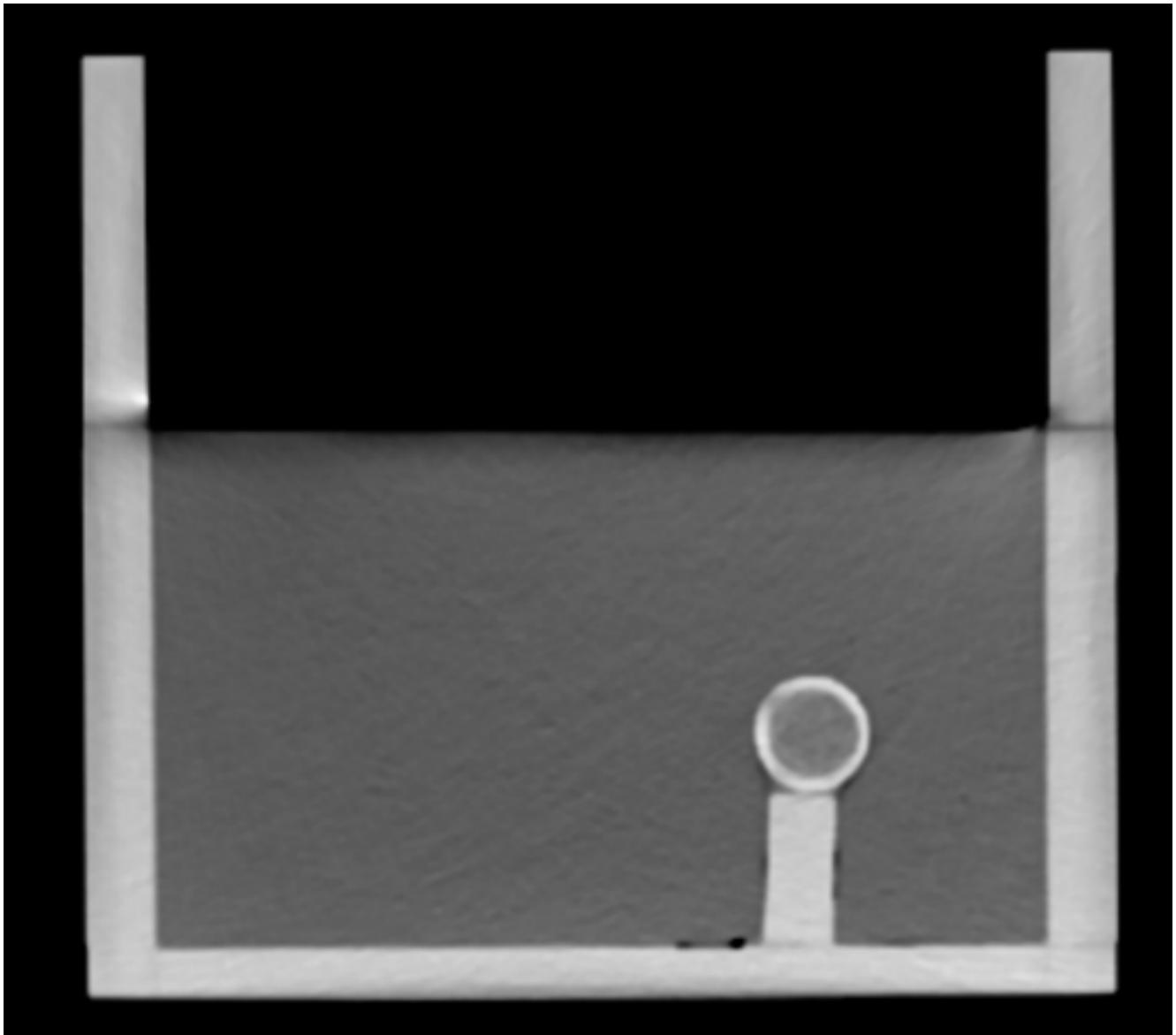
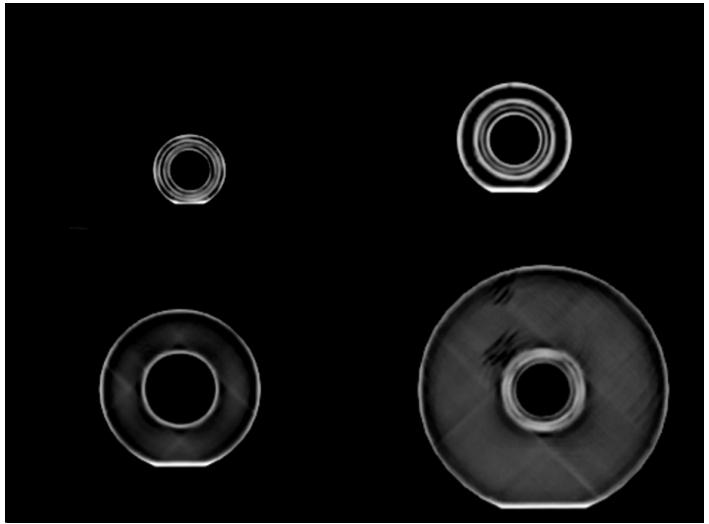












[www.hshsl.umaryland.edu/ispace/#newsletter](http://www.hshsl.umaryland.edu/ispace/#newsletter)

HS/HSL

innovation space

Newsletter



**This talk is about successfully meeting  
the increasingly cutting edge needs  
academic librarians face.**

# **Empathy**

# Iteration

# Design

# **Component thinking**

# **Life-long learning**

A wide-angle photograph of a suspension bridge, likely the Chesapeake Bay Bridge, at sunset. The bridge's towers and cables are silhouetted against a sky filled with warm, orange and yellow hues. The calm water in the foreground reflects the bridge's structure and the vibrant colors of the sunset.

**THANK YOU**

**[zeli.p.me/talks/the-job.pdf](http://zeli.p.me/talks/the-job.pdf)**