

What is the Design System?

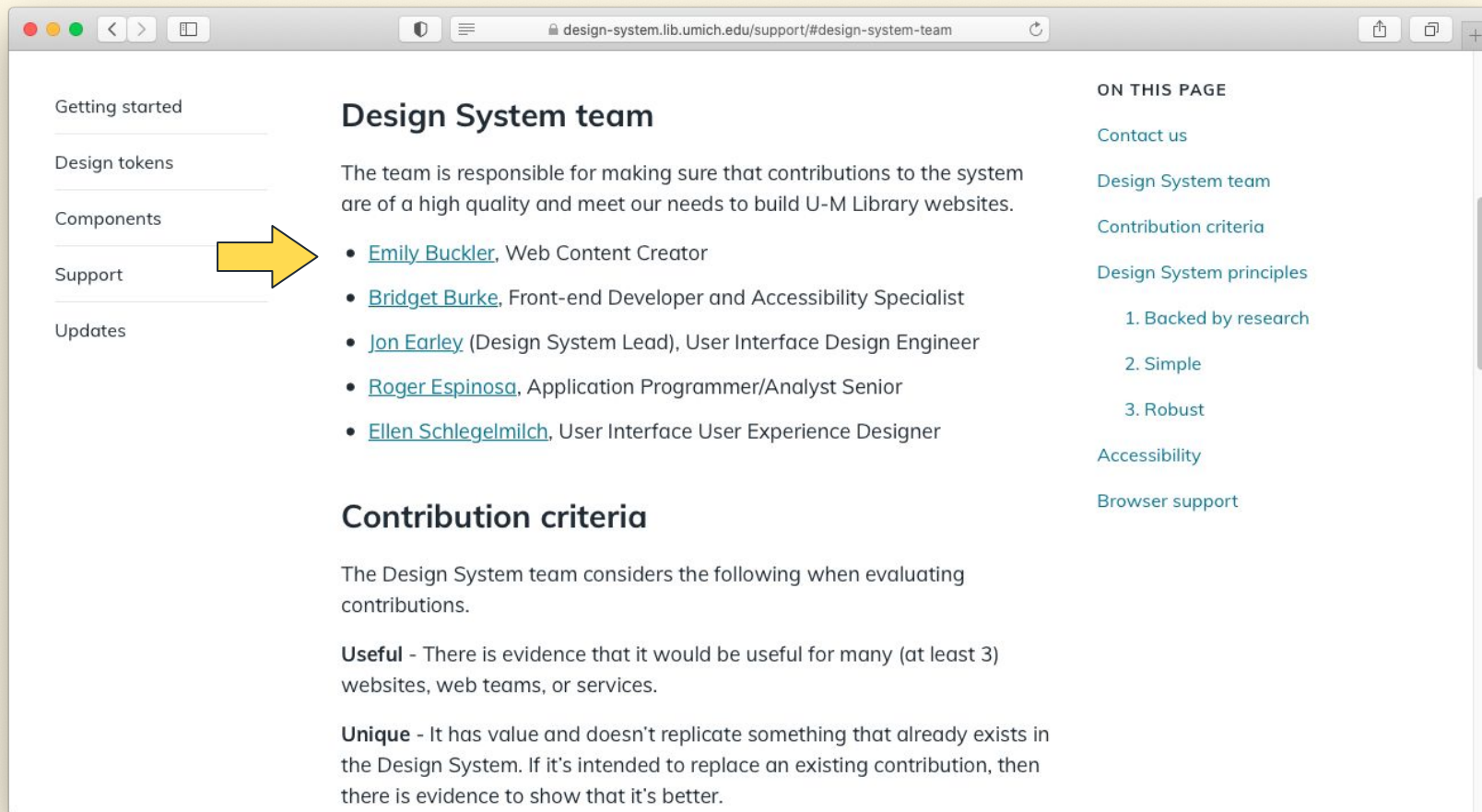
February 2021

Jon Earley (he/him)

User Interface Design Engineer

Meet the team

We aim to include a wide range of web expertise.



The screenshot shows a web browser window with the URL `design-system.lib.umich.edu/support/#design-system-team`. The page has a sidebar on the left with links: "Getting started", "Design tokens", "Components", "Support", and "Updates". A yellow arrow points to the "Support" link. The main content area has a heading "Design System team" followed by a paragraph: "The team is responsible for making sure that contributions to the system are of a high quality and meet our needs to build U-M Library websites." Below this is a bulleted list of team members: Emily Buckler (Web Content Creator), Bridget Burke (Front-end Developer and Accessibility Specialist), Jon Earley (Design System Lead, User Interface Design Engineer), Roger Espinosa (Application Programmer/Analyst Senior), and Ellen Schlegelmilch (User Interface User Experience Designer). Below the list is a section titled "Contribution criteria" with a paragraph: "The Design System team considers the following when evaluating contributions." This is followed by two criteria: "Useful" (evidence of utility for many websites, teams, or services) and "Unique" (value added without replicating existing content). On the right side of the page, there is a section titled "ON THIS PAGE" with links: "Contact us", "Design System team", "Contribution criteria", "Design System principles" (which includes a numbered list: 1. Backed by research, 2. Simple, 3. Robust), "Accessibility", and "Browser support".

Getting started

Design tokens

Components

Support

Updates

Design System team

The team is responsible for making sure that contributions to the system are of a high quality and meet our needs to build U-M Library websites.

- [Emily Buckler](#), Web Content Creator
- [Bridget Burke](#), Front-end Developer and Accessibility Specialist
- [Jon Earley](#) (Design System Lead), User Interface Design Engineer
- [Roger Espinosa](#), Application Programmer/Analyst Senior
- [Ellen Schlegelmilch](#), User Interface User Experience Designer

Contribution criteria

The Design System team considers the following when evaluating contributions.

Useful - There is evidence that it would be useful for many (at least 3) websites, web teams, or services.

Unique - It has value and doesn't replicate something that already exists in the Design System. If it's intended to replace an existing contribution, then there is evidence to show that it's better.

ON THIS PAGE

[Contact us](#)

[Design System team](#)

[Contribution criteria](#)

[Design System principles](#)

1. Backed by research
2. Simple
3. Robust

[Accessibility](#)

[Browser support](#)

**We believe good design requires
cross-disciplinary work.**

Let's use the Universal Header to illustrate what we do.

- Why do we have a Universal Header and what can it do?
- What's the technology and how is it maintained?

The Universal Header is maintained by the Design System team.

The screenshot shows a web browser window displaying the 'Universal Header' documentation page. The browser's address bar shows the URL 'design-system.lib.umich.edu/universal-header/'. The page header includes the 'UNIVERSITY OF MICHIGAN LIBRARY' logo and a navigation menu with links like 'Welcome', 'Chat', 'Universal Header' (which is underlined), 'Website Header', 'Design tokens', 'Support', and 'Updates'. The main content area features a large heading 'Universal Header' followed by a descriptive paragraph. Below this is a 'PREVIEW' section showing a visual representation of the header with a checkered background, containing the library name and an 'EXPLORE' dropdown. Underneath the preview is an 'HTML' section showing the code snippet '<m-universal-header></m-universal-header>'. At the bottom of the HTML section are two buttons: 'Copy HTML' and 'Edit in CodePen'. The final section is titled 'When to use this component' and contains a paragraph explaining its usage requirements.

UNIVERSITY OF MICHIGAN LIBRARY

EXPLORE ▾

M LIBRARY / Design System

Welcome

Chat

Universal Header

Website Header

Design tokens

Support

Updates

Universal Header

The Universal Header shows users that they are on a U-M Library website and provides a quick and organized way for users to access other library websites.

PREVIEW

UNIVERSITY OF MICHIGAN LIBRARY

EXPLORE ▾

HTML

```
<m-universal-header></m-universal-header>
```

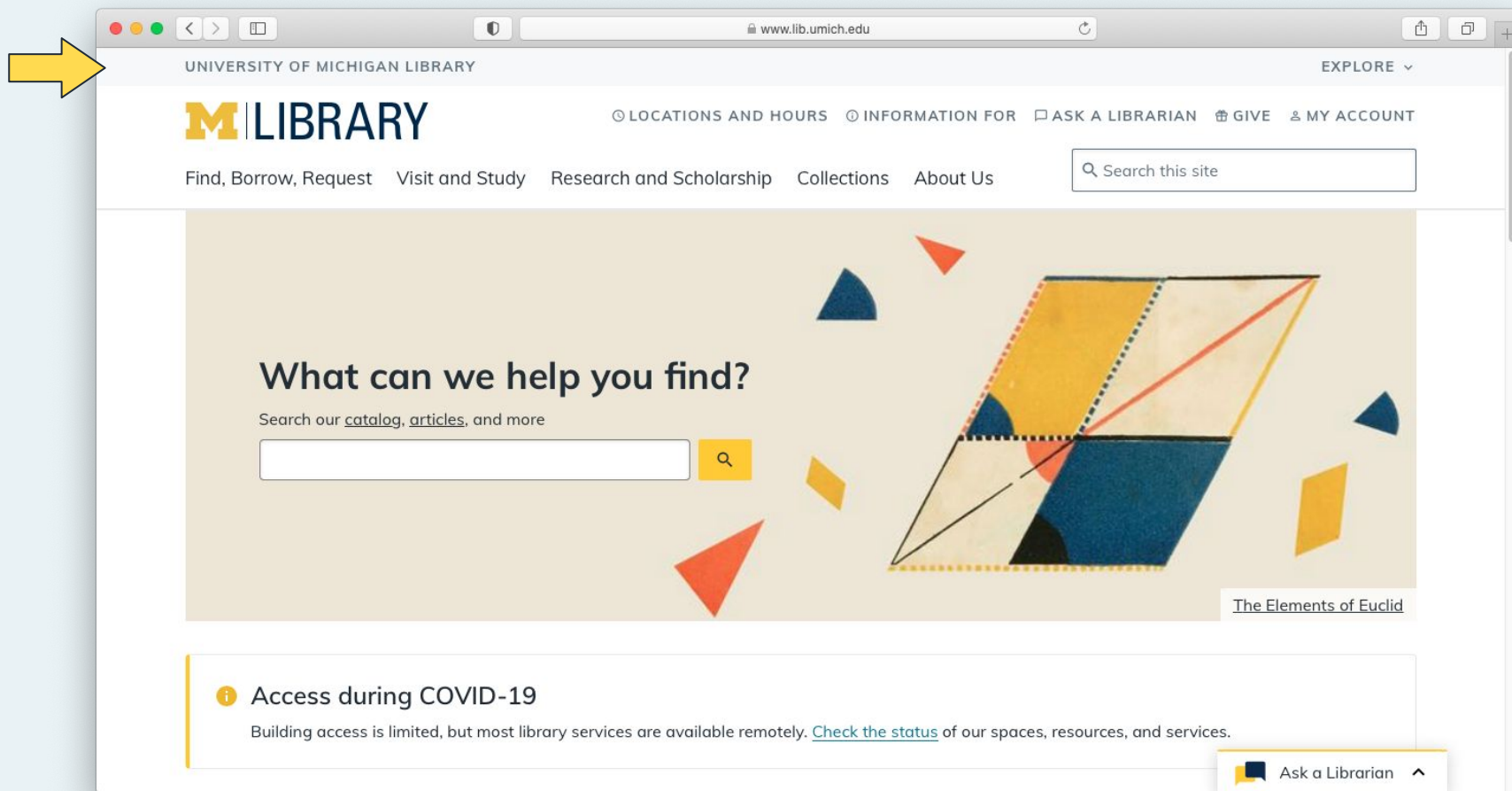
Copy HTML

Edit in CodePen

When to use this component

You must use the Universal Header at the top of every page of your website if it hosted with the lib.umich.edu domain.

The **Universal Header** shows users that they are on a U-M Library website...



A screenshot of the University of Michigan Library website. A yellow arrow points to the top navigation bar. The browser address bar shows www.lib.umich.edu. The page header includes the text "UNIVERSITY OF MICHIGAN LIBRARY" and "EXPLORE". Below this is the "M | LIBRARY" logo. A secondary navigation bar contains links: "LOCATIONS AND HOURS", "INFORMATION FOR", "ASK A LIBRARIAN", "GIVE", and "MY ACCOUNT". A third navigation bar includes "Find, Borrow, Request", "Visit and Study", "Research and Scholarship", "Collections", and "About Us", followed by a search box labeled "Search this site". The main content area features a large banner with the text "What can we help you find?" and a search box. The banner background is a geometric illustration of a cube with various colored triangles and rectangles. Below the banner, a section titled "Access during COVID-19" provides information about remote library services. A "Ask a Librarian" button is located in the bottom right corner.

UNIVERSITY OF MICHIGAN LIBRARY

EXPLORE

M | LIBRARY

LOCATIONS AND HOURS INFORMATION FOR ASK A LIBRARIAN GIVE MY ACCOUNT

Find, Borrow, Request Visit and Study Research and Scholarship Collections About Us

Search this site

What can we help you find?

Search our [catalog](#), [articles](#), and more

Search

The Elements of Euclid

i Access during COVID-19

Building access is limited, but most library services are available remotely. [Check the status](#) of our spaces, resources, and services.

Ask a Librarian

The **Universal Header** shows users that they are on a U-M Library website...



search.lib.umich.edu/everything?query=parrots

UNIVERSITY OF MICHIGAN LIBRARY EXPLORE ▾

M | LIBRARY Search My Account My Favorites Log in Ann Arbor ▾

parrots Search Advanced

Everything Catalog Articles Databases Online Journals Guides and More

Everything: results from the Catalog, Articles, Databases, Online Journals, and Guides and More pages. [Hide](#)

Catalog 1,224 Results

[Parrots by Fran Howard.](#)

Book

[Howard, Fran, 1953-](#)

[Parrots Leo Statts.](#)

Book

[Statts, Leo.](#)

[Parrots](#)

Book

[Murray, Julie Author](#)

[View all Catalog results](#) →

Articles 789,582 Results

[Putative Adult Neurogenesis in Old World Parrots: The Congo African Grey Parrot \(*Psittacus erithacus* \) and Timneh Grey Parrot \(*Psittacus timneh* \)](#)

Journal Article

[Mazenganya, Pedzisai](#)

[Bhagwandin, Adhil](#)

[Manger, Paul R](#)

[Ihunwo, Amadi O](#)

2018


Frontiers in neuroanatomy

[Go to item](#)

[Stool pigeon parrots](#)

Journal Article

Talk to a Library Specialist

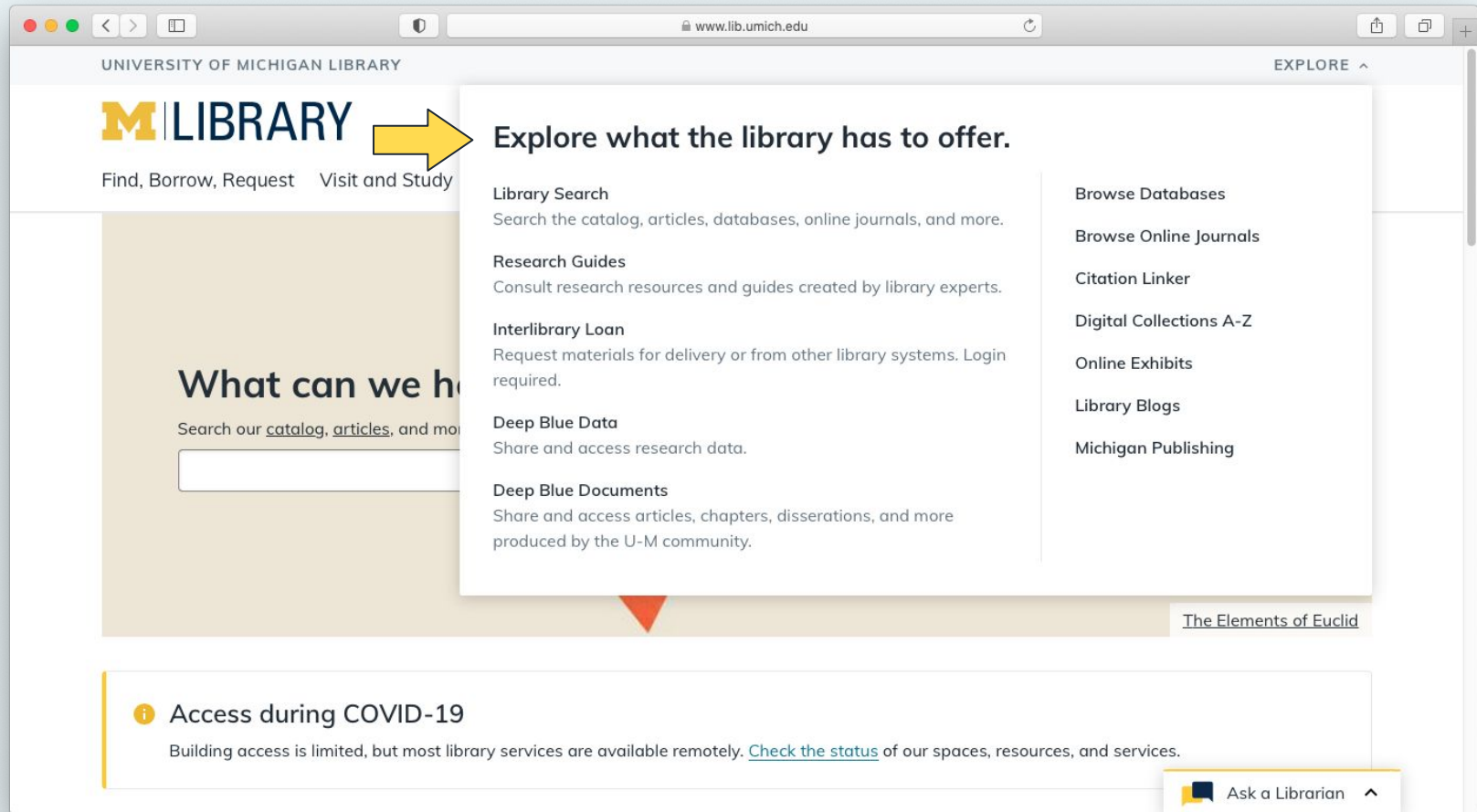
 **Barbara Alvarez** ✉

Head, International Studies;
Librarian for Romance
Languages & Literatures,
Iberian Studies and
Comparative Literature

000-000-0000
barbalva@umich.edu

Ask a Librarian ^

...and provides a quick and organized way for users to access library websites.



The screenshot shows the University of Michigan Library website. The browser address bar displays www.lib.umich.edu. The page header includes the "UNIVERSITY OF MICHIGAN LIBRARY" logo and the text "Find, Borrow, Request Visit and Study". A yellow arrow points from the "LIBRARY" part of the logo to a white overlay menu. The menu is titled "Explore what the library has to offer." and lists several services: Library Search, Research Guides, Interlibrary Loan, Deep Blue Data, Deep Blue Documents, Browse Databases, Browse Online Journals, Citation Linker, Digital Collections A-Z, Online Exhibits, Library Blogs, and Michigan Publishing. Below the menu, a search bar is visible with the text "What can we help you find?" and a search button. At the bottom, there is a section titled "Access during COVID-19" with a message about remote access and a link to "Check the status". A "Ask a Librarian" button is located in the bottom right corner.

UNIVERSITY OF MICHIGAN LIBRARY

Find, Borrow, Request Visit and Study

What can we help you find?

Search our [catalog](#), [articles](#), and more

Explore what the library has to offer.

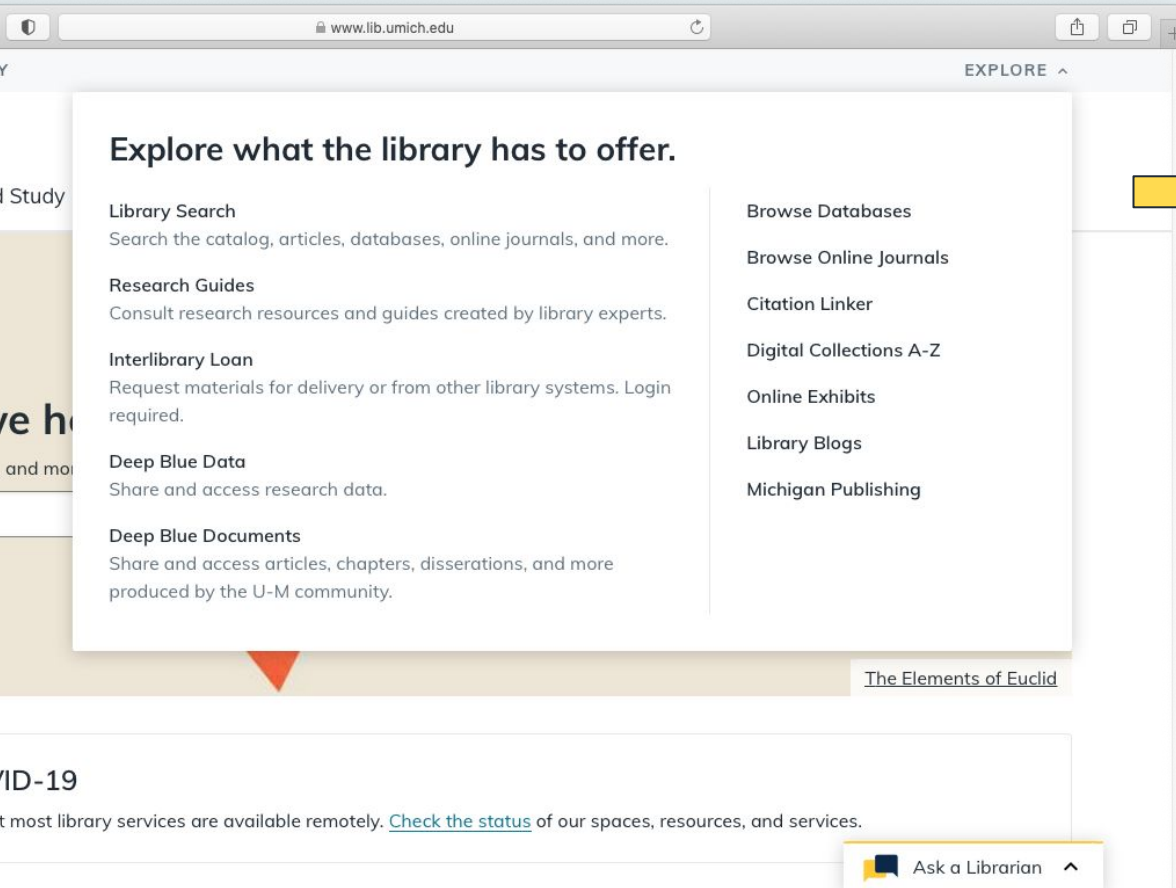
- Library Search**
Search the catalog, articles, databases, online journals, and more.
- Research Guides**
Consult research resources and guides created by library experts.
- Interlibrary Loan**
Request materials for delivery or from other library systems. Login required.
- Deep Blue Data**
Share and access research data.
- Deep Blue Documents**
Share and access articles, chapters, dissertations, and more produced by the U-M community.
- Browse Databases**
- Browse Online Journals**
- Citation Linker**
- Digital Collections A-Z**
- Online Exhibits**
- Library Blogs**
- Michigan Publishing**

[The Elements of Euclid](#)

Access during COVID-19
Building access is limited, but most library services are available remotely. [Check the status](#) of our spaces, resources, and services.

Ask a Librarian

This list of websites is maintained in the public website content management system.



www.lib.umich.edu

EXPLORE ^

Explore what the library has to offer.

Library Search
Search the catalog, articles, databases, online journals, and more.

Research Guides
Consult research resources and guides created by library experts.

Interlibrary Loan
Request materials for delivery or from other library systems. Login required.

Deep Blue Data
Share and access research data.

Deep Blue Documents
Share and access articles, chapters, dissertations, and more produced by the U-M community.

Browse Databases

Browse Online Journals

Citation Linker

Digital Collections A-Z

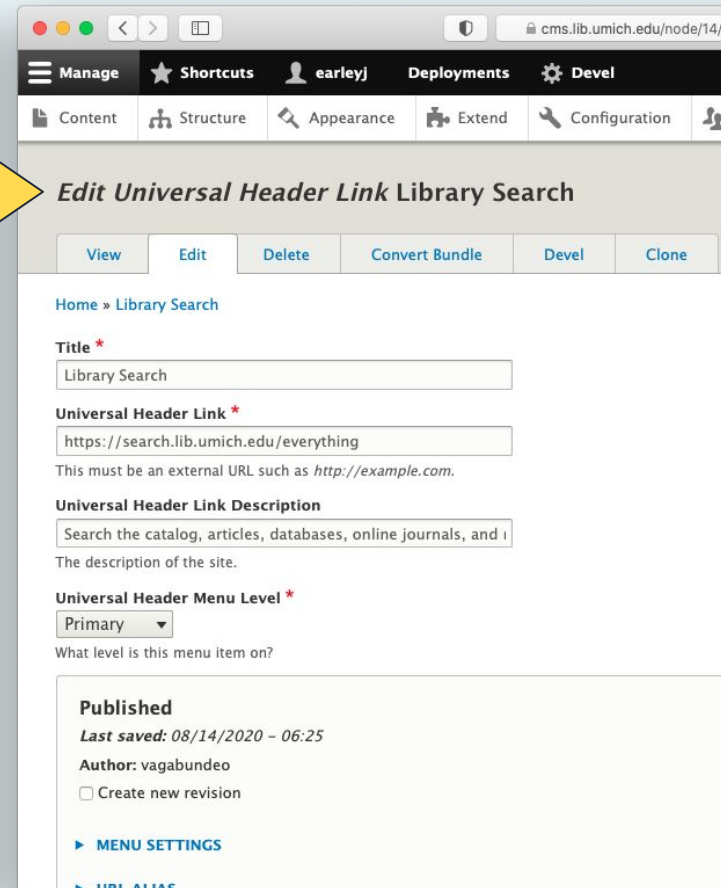
Online Exhibits

Library Blogs

Michigan Publishing

[The Elements of Euclid](#)

Ask a Librarian ^



cms.lib.umich.edu/node/14

Manage Shortcuts earleyj Deployments Devel

Content Structure Appearance Extend Configuration

Edit Universal Header Link Library Search

View Edit Delete Convert Bundle Devel Clone

[Home](#) » [Library Search](#)

Title *
Library Search

Universal Header Link *
<https://search.lib.umich.edu/everything>
This must be an external URL such as <http://example.com>.

Universal Header Link Description
Search the catalog, articles, databases, online journals, and
The description of the site.

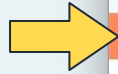
Universal Header Menu Level *
Primary ▼
What level is this menu item on?

Published
Last saved: 08/14/2020 - 06:25
Author: vagabundeo
☐ Create new revision

[MENU SETTINGS](#)

[URL ALIAS](#)

Website Alert content is managed from the Staff Intranet.



staging.lib.umich.edu

UNIVERSITY OF MICHIGAN LIBRARY

EXPLORE ▾

▲ We use this website for **staging content work in progress** and it is not regularly updated. Visit our live site at lib.umich.edu.

M | LIBRARY

📍 LOCATIONS AND HOURS ⓘ INFORMATION FOR 🗉 ASK A LIBRARIAN 🎁 GIVE 👤 MY ACCOUNT

Find, Borrow, Request Visit and Study Research and Scholarship Collections About Us

🔍 Search this site

What can we help you find?

Search our [catalog](#), [articles](#), and more

🔍

Black History Month: Colin Kaepernick

i Access during COVID-19

Building access is limited, but most library services are available remotely. [Check the status](#) of our spaces, resources, and services

🗉 Ask a Librarian ^

The `<m-universal-header>` custom HTML element is based on web standards.

The screenshot shows a web browser displaying the University of Michigan Library website. The browser's developer tools are open, showing the 'Elements' panel on the left and the 'Styles' panel on the right. A yellow arrow points to the `<m-universal-header>` element in the DOM tree. The 'Styles' panel shows the default styles for this element, including `visibility: hidden;` and `font-smoothing: antialiased;`. A blue callout box with the text 'FYI: We can make custom HTML elements now!' is overlaid on the developer tools.

UNIVERSITY OF MICHIGAN LIBRARY

M LIBRARY

LOCATIONS AND HOURS INFORMATION FOR ASK A LIBRARIAN GIVE MY ACCOUNT

Find, Borrow, Request Visit and Study Research and Scholarship Collections About Us

Search this site

Ask a Librarian

Elements

ht... body div#__gatsby div#gatsby-focus-wrapper div.css-1jxtya7 div m-universal-header.hydrated

```
<!DOCTYPE html>
<html lang="en" class="hydrated" data-react-helmet="lang">
  <head>_</head>
  <body>
    <div id="__gatsby">
      <div style="outline:none" tabindex="-1" id="gatsby-focus-wrapper">
        <div class="css-1jxtya7">
          <div>
            <section aria-label="Skip links" class="css-19cs3hy"></section>
            <m-universal-header class="hydrated">= $0
              Shadow Content (Open)
                <style>_</style>
                <header class="m-uh">
                  <div class="m-uh__content">
                    <a class="m-uh__link" href="https://www.lib.umich.edu/">
                      <span class="m-uh__link-text">University of Michigan Library</span>
                      <span class="m-uh__link-text--small"></span>
                    </a>
                    <div class="m-uh__button-container"></div>
                  </div>
                </header>
                <m-website-alerts class="hydrated">_</m-website-alerts>
              </m-universal-header>
            <div>
              <div class="css-1y3lc3w"></div>
            </div>
          </div>
        </div>
      </div>
    </body>
  </html>
```

Style Attribute {

```
.hydrated {
  visibility: inherit;
}

m-universal-header, m-chat, m-website-alerts, m-
icon {
  visibility: hidden;
}

* {
  -webkit-font-smoothing: antialiased;
  box-sizing: border-box;
}

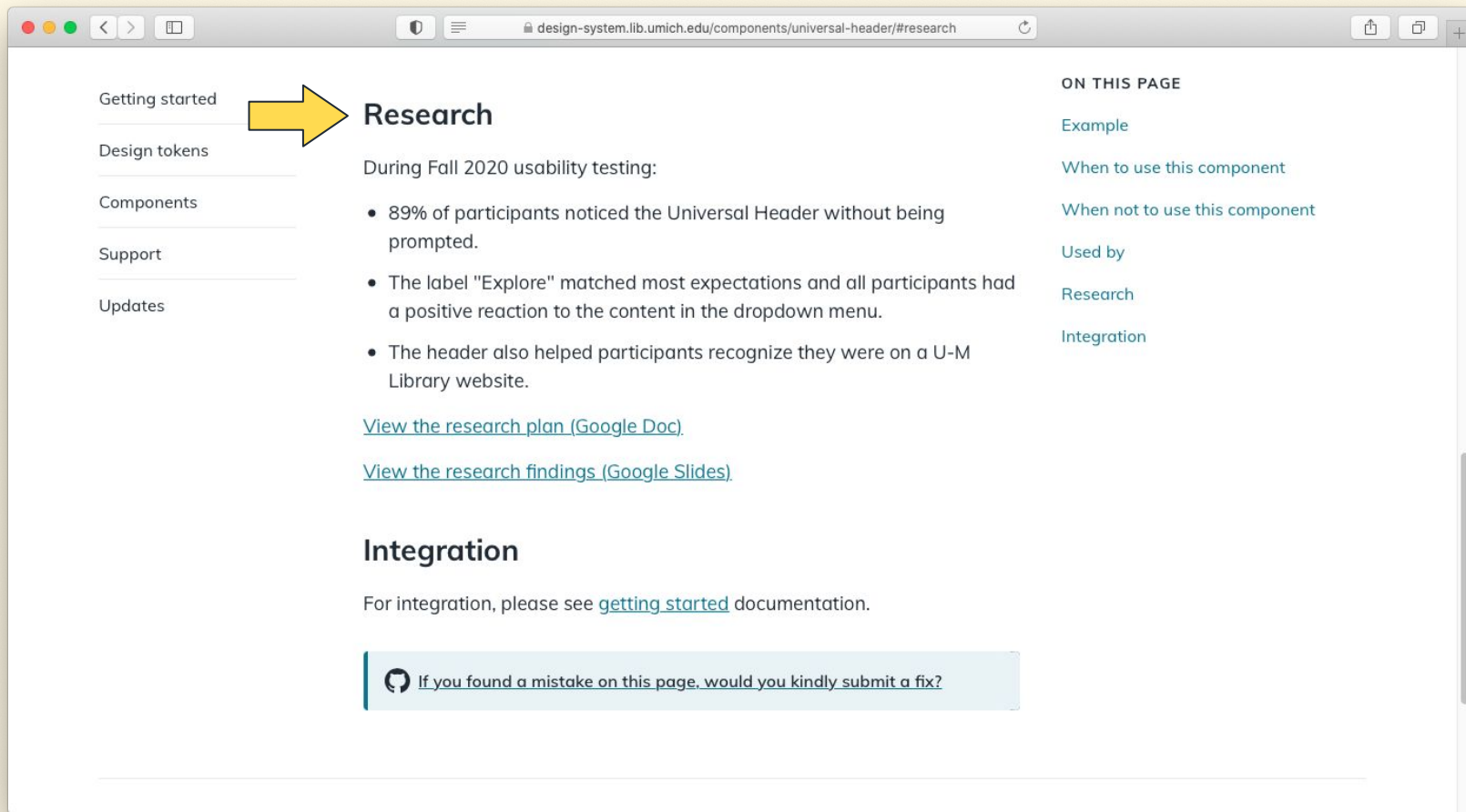
* {
  --tw-ring-inset: var(--tw-empty,/*!*/ /*!*/);
  --tw-ring-offset-width: 0px;
  --tw-ring-offset-color: #fff;
  --tw-ring-color: rgba(147,197,253,0.5);
  --tw-ring-offset-shadow: 0 0 transparent;
  --tw-ring-shadow: 0 0 transparent;
}
```

umich-lib.css (line 3:202235)

FYI: We can make custom HTML elements now!

Auto — www.lib.umich.edu

We've done the user research.



The screenshot shows a web browser window with the address bar displaying `design-system.lib.umich.edu/components/universal-header/#research`. The page layout includes a left sidebar with navigation links: "Getting started", "Design tokens", "Components", "Support", and "Updates". A large yellow arrow points from the "Research" link in this sidebar to the main content area. The main content area features a heading "Research" followed by a paragraph "During Fall 2020 usability testing:" and a bulleted list of findings. Below the list are two links: "View the research plan (Google Doc)" and "View the research findings (Google Slides)". Further down is a section titled "Integration" with a paragraph about documentation. On the right side of the page, there is a section titled "ON THIS PAGE" containing links to "Example", "When to use this component", "When not to use this component", "Used by", "Research", and "Integration". At the bottom of the page, a light blue box contains a GitHub logo and the text "If you found a mistake on this page, would you kindly submit a fix?".

Getting started

Design tokens

Components

Support

Updates

Research

During Fall 2020 usability testing:


- 89% of participants noticed the Universal Header without being prompted.
- The label "Explore" matched most expectations and all participants had a positive reaction to the content in the dropdown menu.
- The header also helped participants recognize they were on a U-M Library website.

[View the research plan \(Google Doc\).](#)

[View the research findings \(Google Slides\).](#)

Integration

For integration, please see [getting started](#) documentation.

 [If you found a mistake on this page, would you kindly submit a fix?](#)

ON THIS PAGE

[Example](#)

[When to use this component](#)

[When not to use this component](#)

[Used by](#)

[Research](#)

[Integration](#)

Add our stylesheet and scripts and you're good to go.

design-system.lib.umich.edu

Get started

You can start using the [Web Components](#) and [design tokens](#) immediately by adding this stylesheet and these script tags to the `<head>`:

HTML

```
<link href="https://unpkg.com/@umich-lib/css@v1/dist/umich-lib.css" rel="stylesheet"/>
<script type="module" src="https://unpkg.com/@umich-lib/components@v1/dist/umich-lib/umich-lib.esm.js"></script>
<script nomodule src="https://unpkg.com/@umich-lib/components@v1/dist/umich-lib/umich-lib.js"></script>
```

[Copy HTML](#)

Use this design system across any framework or no framework at all. We accomplish this by using [standardized web platform APIs](#). We love HTML, CSS, and JavaScript.

FYI: unpkg is a fast, global content delivery network for everything on npm.

UNIVERSITY OF MICHIGAN LIBRARY	WEB COMPONENTS	RESOURCES
913 S. University Avenue	Chat	Design tokens
Ann Arbor, MI 48109	Universal Header	Updates
	Website Header	Support
		Accessibility

© 2020, Regents of the University of Michigan Built with the [U-M Library Design System](#), [Eleventy](#), and [Github](#).

Why do we have a Universal Header and what can it do?

To shows users that they are on a U-M Library website and provide a quick and organized way to access other library websites.

What's the technology and how is it maintained?

The Universal Header is built with [Web Components](#) to create reusable custom HTML elements and is maintained by the [Design System team](#).

We are motivated to preserve
high-quality designs to be understood,
trusted, and maintained.