

Hey everybody

btopro

<bee-tee-oh-pro>

here



**<hax-talk
location="CMSPhilly"
quarantine >**

[at]btopro =
Developer



- Penn State EdTech developer
 - ELMS:LN / HAX / HAXcms
 - IST 402 Emerging Technologies
 - haxtheweb.org
- Drupal developers ~12 years
 - 100+ contrib / distros on d.o.
- Web component developer ~3 years
 - 200+ npm web component projects
 - 400+ web components our team has made

[at]btopro =
Developer
Activists



- Our institutions & world deserve more
- Improve education, improve society
- Decentralize powerful monocultures using **open source** as *vehicle of change*
- Embedded in edu to development tech **society needs** to shift beyond what market norms can **produce**
- I've found my purpose;
I'm honored to get to live it

```
{ "[at]btopro" : new DeveloperActivist() }
```



***typeof DeveloperActivist
undefined?***

DeveloperActivist()

All code enacts change.

A `DeveloperActivist` writes code
to enact `social change`.

```
    let btopro =  
new DeveloperActivist();
```

```
    let input = "today";
```

```
btopro.generateSocialImpact(input);
```

The complexities of modern web publishing have driven the majority of content to be produced on platforms controlled by few



Who have no market reason
to engineer



socialmedia://

email has no owner

http has no owner

html has no owner

standards help ensure

equal access and fair

markets emerge on top

webmentions (protocol)

exists but requires quality

UX in all platforms

implementing in order to be
more than hobbieist

**The web needs a
moonshot if we
are to ever grow
beyond the
vendors of 2000**

**A moonshot
to reduce
complexity
in..**

**Distribution
and
Publishing
requires
fundamentally
better**

**Authoring
eXperiences**

HAX is a moonshot



To change publishing

And our team views
W3C standard
web components



as the only way
to deploy that moonshot

{record scratch}



{Snarky the engineer}



Who even uses those
anyway?

Web components . . . ?



You mean that
Google thing?

Web components . . ?




You mean that



Microsoft thing?

Web components . . . ?



You mean that
 thing?

Web components . . ?



You mean that

 thing?

Web components . . . ?



You mean that
thing?

The Salesforce logo, which is a blue cloud shape with the word "salesforce" written in white lowercase letters inside it.

salesforce

Web components . . . ?



You mean that



COMCAST

thing?

Web components . . . ?



You mean that



thing?

Web components . . ?



You mean that
thing?

 ING DIRECT®

Web components . . . ?



You mean that



Red Hat thing?

Web components . . . ?



You mean that
thing?



Web components . . . ?



You mean that
thing?



PennState

youtube.com/watch?v=mtHf7crZZIQ



Better Apps: Delivering Universal UI Patterns as Web Components

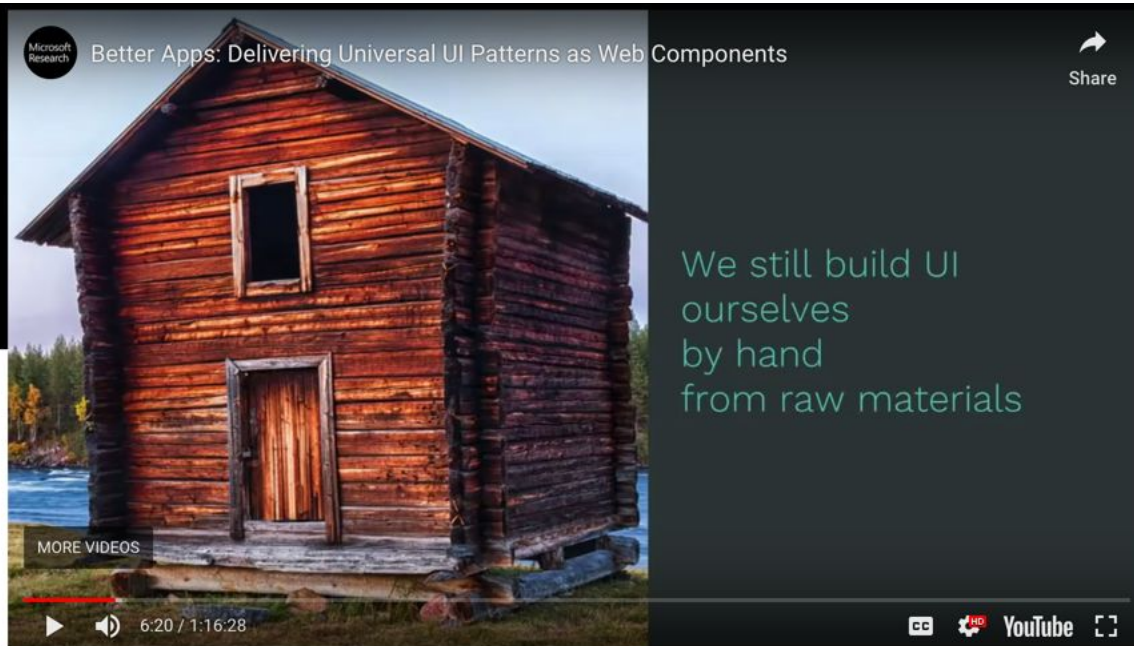
Date: March 28, 2019

Speaker: Jan Mikovsky

Affiliation: Component Kitchen

Microsoft
Research

youtube.com/watch?v=mtHf7crZZIQ



Better Apps: Delivering Universal UI Patterns as Web Components

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Research

youtube.com/watch?v=mtHf7crZZIQ

Microsoft Research Better Apps: Delivering Universal UI Patterns as Web Components Share



Wood
+ Glass
+ Nails
= Window

MORE VIDEOS

3:52 / 1:16:28

CC HD YouTube

Better Apps: Delivering Universal UI Patterns as Web Components

Date: March 28, 2019

Speaker: Jan Mikovsky

Affiliation: Component Kitchen

youtube.com/watch?v=mtHf7crZZIQ



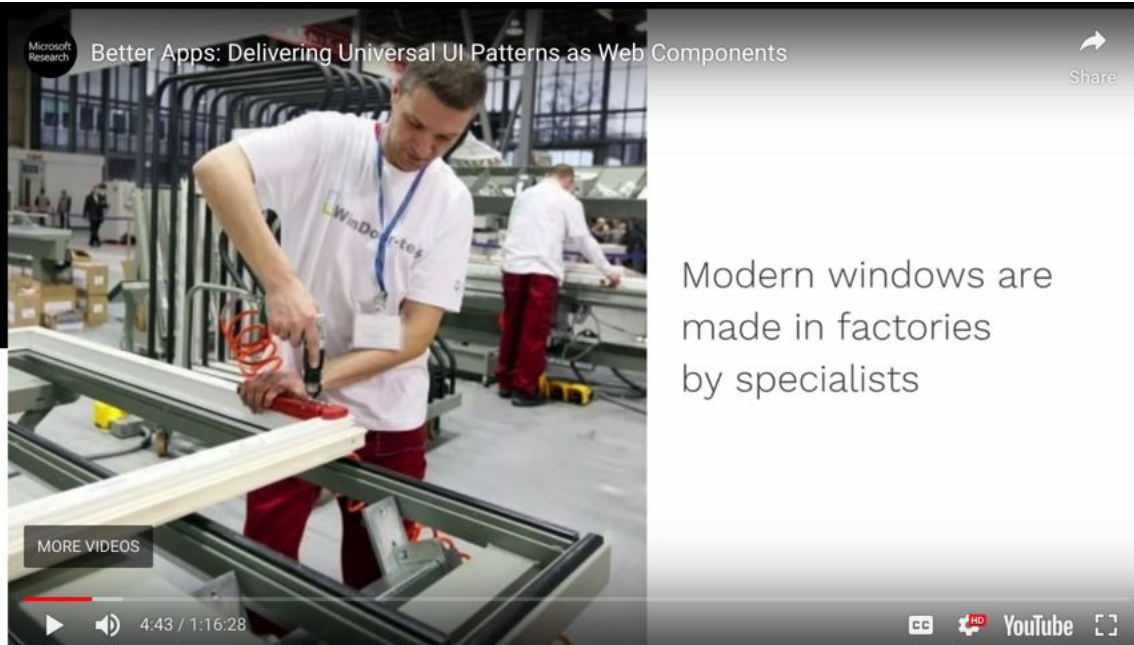
Better Apps: Delivering Universal UI Patterns as Web Components

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ch?v=mtHf7crZZIQ

youtube.com/watch?v=mtHf7crZZIQ



Better Apps: Delivering Universal UI Patterns as Web Components

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Affiliation: Component Kitchen

Microsoft
Research

Web components are a **standard**
that work in all browsers

HTML code from 1995 still works

well, maybe not `<blink>`

That work every where!

Browser support



CHROME



OPERA



SAFARI



FIREFOX



EDGE

 HTML TEMPLATES



 CUSTOM ELEMENTS



 SHADOW DOM



 ES MODULES



And libraries can polyfill IE11..

Browser Compatibility


LitElement works in all major browsers
(Chrome, Firefox, IE, Edge, Safari, and Opera).



Custom-elements-everywhere.com



Custom Elements Everywhere

Making sure frameworks and custom elements can be BFFs 

Whew that sounds great

Snarky loves web components
now

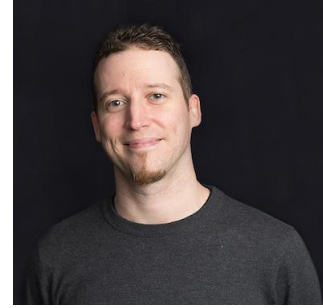
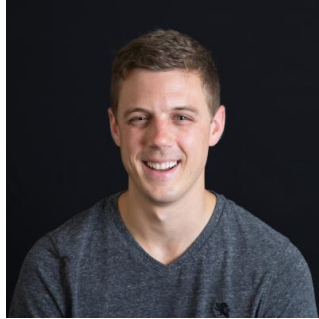


h-a-x THE WEB

OCT. 7-8 2019 | DUKE UNIVERSITY



My tribe found me



Join us today!

now **HAX** is *OUR* moonshot

HAX is *OUR* moonshot



To shake up the web



HAX

&

#HAXTheWeb?

The image shows a screenshot of a web editor interface. On the left, a sidebar lists various CMS integrations: Welcome, Get Involved!, Integrations, BackdropCMS, Drupal, GravCMS, WordPress, ClassicPress, and Creating new content. The main content area displays a list of currently supported CMSes with links: HAXcms (duh, it's powering this website), BackdropCMS, Drupal 8, 7, and 6!, GravCMS, WordPress, and ClassicPress. On the right, a code editor shows HTML and CSS snippets. A red arrow points to an `<h-a-x>` tag in the HTML. Below the code editor, a code snippet shows the JavaScript class definition for HAX:

```
class HAX extends HTMLElement { ... }  
window.customElements.define("h-a-x", HAX);  
export { HAX };
```

Headless
Authoring
eXperience

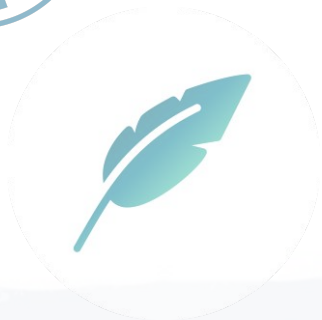
HAX is Headless?

Platform agnostic, a
client-side API driven
development method
decoupled from servers

HAX === moonshot goal

Create a **platform agnostic**
authoring experience that
is **second to none** yet
plugs into *any* platform
that saves HTML blobs.

100% F  SS



HAX



**class HAX extends
HTMLElement**

<h-a-x>


```
141 // haxProperty definition
142 static get haxProperties() {
143   return {
144     "canScale": true,
145     "canPosition": true,
146     "canEditSource": false,
147     "gizmo": {
148       "title": "Video player",
149       "description": "This can present video in a highly accessible manner regardless of source.",
150       "icon": "av:play-circle-filled",
151       "color": "red",
152       "groups": ["Video", "Media"],
153       "handles": [
154         {
155           "type": "video",
156           "source": "source",
157           "title": "caption",
158           "caption": "caption",
159           "description": "caption",
160           "color": "primaryColor"
161         }
162       ],
163       "meta": {
164         "author": "LRNWebComponents"
165       }
166     },
167     "settings": {
168       "quick": [
169         {
170           "property": "accentColor",
171           "title": "Accent color",
172           "description": "Select the accent color for the player.",
173           "inputMethod": "colorpicker"
```

Video player Settings

Layout Configure Advanced

Source

URL

https://www.youtube.com/watch

The URL for this media.

Closed captions

Upload

Upload Files...

Drop files here

The URL for the captions file.

Thumbnail image

Upload

Upload Files...

Drop files here

Optional. The URL for a thumbnail/poster image.

W1 Building your digital identity

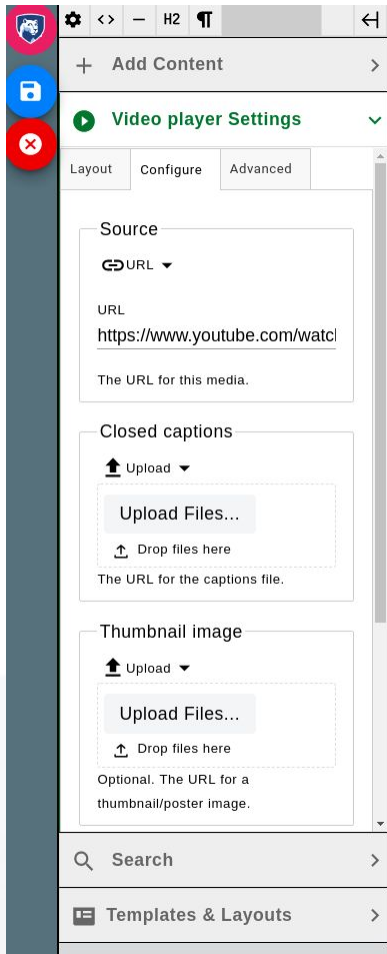
Lab 1

This is a warm up lab that will help set the stage for the platforms we'll use for the rest of the semester. Now, I'm going to kick things off with the following:



1. I'll showing you some some different simple [screencasting](#) tools
2. Coming up with a plan for doing a [screencast](#) about how we use [npm](#) for front end web development
3. I'll do a new video live to demonstrate technique for [screencasting](#)

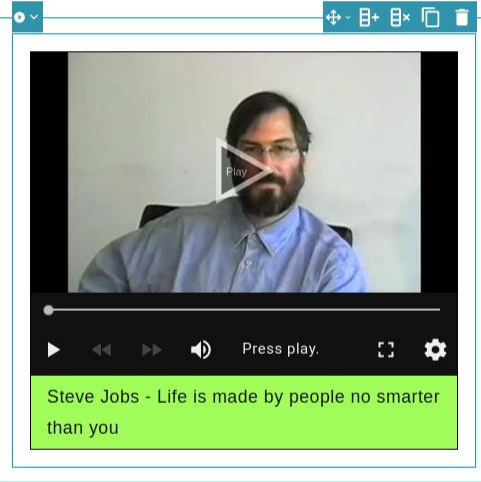
```
// haxProperty definition
static get haxProperties() {
  return {
    "canScale": true,
    "canPosition": true,
    "canEditSource": false,
    "gizmo": {
      "title": "Video player",
      "description": "This can present video in a highly a",
      "icon": "av:play-circle-filled",
      "color": "red",
      "groups": ["Video", "Media"],
      "handles": [
        {
          "type": "video",
          "source": "source",
          "title": "caption",
          "caption": "caption",
          "description": "caption",
          "color": "primaryColor"
        }
      ]
    }
  }
}
```



W1 Building your digital identity

Lab 1

This is a warm up lab that will help set the stage for the platforms we'll use for the rest of the semester. Now, I'm going to kick things off with the following:



1. I'll showing you some some different simple screencasting tools
2. Coming up with a plan for doing a screencast about how we us npm for front end web development
3. I'll do a new video live to demonstrate technique for screencasting

Navigation icons: Home, Back, Forward, Refresh, Print, Share, Close.

+ Add Content >

Multi toggle expand / collapse gs

Question

Question for users to respond to.

Randomize
Randomize the answers dynamically

Answer set

Answers in a multiple choice Expand All

Correct
If this is correct or not >

Answer
Popular band from the 60s
Possible answer to the question

Correct
If this is correct or not >

Answer
Bugs, ewww
Possible answer to the question

Add Item +

Q Search >

Templates & Layouts >

Upon completion of this unit, students will be able to:

Unit 2: Lesson 6:

- Discuss the socio-cultural impact of Beatlemania on the United Kingdom in 1963
- Identify those characteristics that define the Beatles' early musical style
- Describe how the Beatles' music was recorded in 1963
- Recognize significant characteristics of selected Beatles songs of 1963



Who were the beatles?

- Popular band from the 60s
- Bugs, ewww

CHECK ANSWER

RESET



Unit 2: Lesson 7:

- Identify the musical and cultural forces driving worldwide Beatlemania in 1964



Home » daadsa

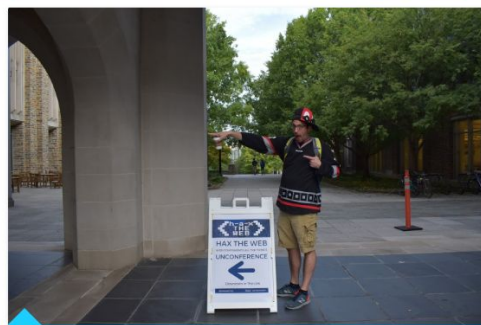
Search

Tools
[Add content](#)

daadsa

View Edit Delete Revisions Block editor mode

daadsa



SELF-CHECK

What direction should we go

+ Add Content

Self-Check Settings

Upload
Upload Files...
Drop files here
Link to additional information

Alt Text*

Add alt text to the image

1 ion should we go

This is where you enter a question for the self-check.

1 LEFT BRO!

This is where you enter a question for the self-check.

Search

Templates & Layouts

Drupal 7, 8 and 9!



+ Add Content >
Wikipedia article Settings v
 Layout Configure Advanced
 Article name
backdrop CMS
 Word to search wikipedia for.
 Hide title
 Whether or not to render the title of the article.
 Search >
 Templates & Layouts >

HAX edit About

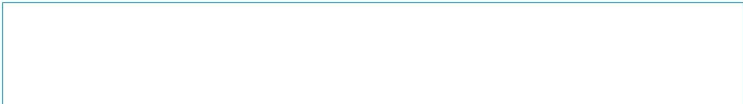
VIEW **BLOCK EDITOR MODE** EDIT

Home > About

backdrop CMS Wikipedia article

Backdrop CMS is an Open source, community-developed, content management system, written in PHP, and licensed under the GNU General Public License. Backdrop CMS was forked from the Drupal CMS in 2013 by two Drupal developers, Nate Lampton (née Nate Haug) and Jen Lampton. Backdrop is very similar to version 7 of the Drupal CMS, maintaining most of the same functionality and features. The project's mission is to "enable people to build highly customized websites affordably, through collaboration and open source software".

backdrop CMS --- (Wikipedia) // (The Free Encyclopedia) by (Wikipedia contributors), licensed under Attribution Share a like. Accessed 1/5/2020.



Title
fgdfgg

Main title of card

uri
https://pbs.twimg.com/media/EVBu

Link to go to when clicking the card

Sub-title
fdsf

Sub heading

Tags
sdfss,fdffsdfs,fdffsdfs,fdffsdfs

Comma separated tags

Media source
🔗 URL ▾

URL
https://pbs.twimg.com/media/E

Primary media source

Source on hover
🔗 URL ▾

URL

🔍 Search >

📄 Templates & Layouts >

🔔 Grav v1.6.24 is now available! (Current v1.5.7) Update Grav Now

Content Options Advanced Normal Expert

Title
Typography

<p>stuff and things</p> <p>leoteodaodsaoodaodaods</p> <p>stuff and thingsdsaoakdsaoakds</p>	<p>okdskdsa</p> <p>kdsaoakdsaoakdsaoak</p>	<p>WordPress Wikipedia article</p> <p>WordPress (WordPress.org) is a free and open-source content management system (CMS) written in PHP and paired with a MySQL or MariaDB database. Features include a plugin</p> <p>WordPress --- (Wikipedia / .) The Free Encyclopedia by [Wikipedia contributors], licensed under Attribution Share a like Accessed 1/5/2020.</p>	<p>Things and stuff</p> <p>fffff by btopro, licensed under Attribution. Share a like Accessed 12/12/2020.</p>
---	--	--	---

--	--	--



+ Add Content >

Retro card Settings ✓

Layout **Columns** toggle expand / collapse

Title
99999

Main title of card

url
hhh

Link to go to when clicking the card

Sub-title
fdggfdg

Sub heading

Tags
fgd,fgd,fgd,fgd,fgd

Comma separated tags

Media source

URL **▼**

URL
/wordpress/wp-content/upload:

Primary media source

Source on hover

URL **▼**

URL

Search >

Templates & Layouts >

WordPress 5.4.1 is available! [Please update now.](#)

Edit Page [Add New](#)

Sample Page

Permalink: <https://hax-all-the-things.ddev.local/wordpress/sample-page/> [Edit](#)

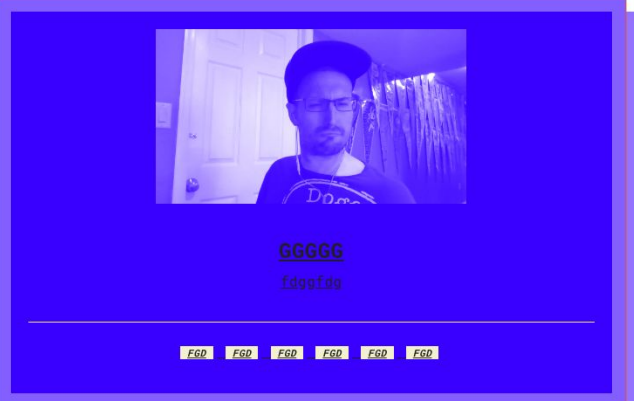
Add Media

Visual Text

b *i* [link](#) **b**-quote **e**del **ins** **img** **ul** **ol** **li** **code** **more** **close tags**


stuff and things	stuff and things	stuff and things
------------------	------------------	------------------

+ **-** **+** **×** **□** **🗑**



GGGGG
fdggfdg

FGD FGD FGD FGD FGD FGD



GGGGG
fdggfdg

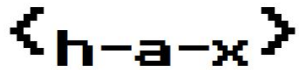
FGD FGD FGD FGD FGD FGD



Live Demo



Drupal
&



HAXcms

How can we support
all these
integrations so
seamlessly?

unified integration

```
1 <script>
2 window.__appCDN="https://cdn.webcomponents.psu.edu/cdn/";
3 window.__appForceUpgrade=true;
4 </script>
5 <script src="https://cdn.webcomponents.psu.edu/cdn/build.js"></script>
```

Identical settings

 HAX block editor



There is a security update available for your version of Drupal. To ensure the security of your server, you should update immediately! See the [available updates](#) page for more information and to install your missing updates.
There are security updates available for one or more of your modules or themes. To ensure the security of your server, you should update immediately! See the [available updates](#) page for more information and to install your missing updates.

Providers HAX Elements Templates / Layouts Integrations Provider details Help

Save configuration

CDN

Penn State CDN ▼

Content delivery network that supplies your elements and HAX definitions

Other

Entrypoint for the cdn / required files for a provider

Public key

Public key, required by some providers

Search

image

Filter elements by name

Tags

Tags to filter on

Has demo

Only show elements with demos

Columns

4 Columns

Columns to organize the results into

**Filtered image**

An image using an SVG filter. Can be used to make background images have more contrast with text.

Details



Demo

**Full screen-image**

full screen banner image with down arrow

Details



Demo

**Full width-image**

full width image that flows beyond boundaries

Details



Demo

**Hero image**

Typically fancy banner image calling your attention to something.

Details



Demo

**Image comparison**

Simple element to allow one image to swipe over top of the other.

Details



Demo

**Cover image**

Present a full screen cover image with a call to action. Good for starting off a series of content

Details



Demo

**Styled image**

undefined

Details



Demo

**Parallax image**

Image scroll by

Details



Demo



Web components
create bridges
between our code
echo chambers





Unbundled JS assets
empower authors to
run HAX with
z3r0 config



HAX





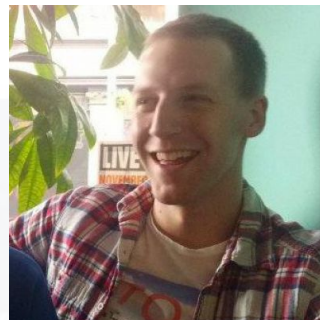
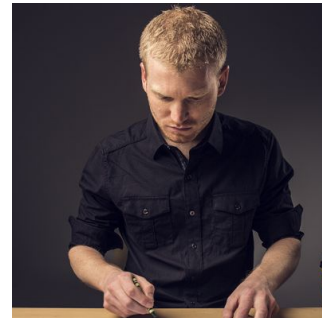
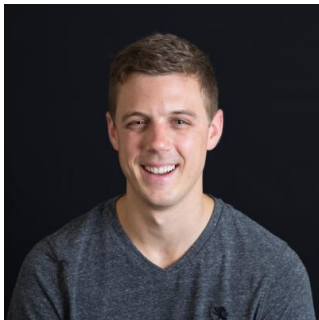
HAX





we are a bridge
that connects all
communities!

We are #HAXTheWeb



Join us today!

And you can be too!

And share via npm

@lrnwebcomponents/h-a-x

2.1.8 • Public • Published 6 days ago

Readme

5 Dependencies

0 Dependents

27 Versions

<h-a-x>

A

Single tag to transform authoring

Usage

To use this web component in your project you can utilize one of the following styles of syntax.

```
/* In an existing JS module / web component */
import '@lrnwebcomponents/h-a-x/h-a-x.js';
/* At top of an application with build routine */
<script type="module" src="@lrnwebcomponents/h-a-x/h-a-x.js"></script>
/* Alternatives for top of application */
<script type="module">
  import '@lrnwebcomponents/h-a-x/h-a-x.js';
  // imperative form
  import {HAX} from '@lrnwebcomponents/h-a-x';
  // if you don't have a build routine and need to reference directly
  import {node_modules/@lrnwebcomponents/h-a-x/h-a-x.js
```

install

```
> npm i @lrnwebcomponents/h-a-x
```

± weekly downloads

41



version

2.1.8

license

Apache-2.0

open issues

24

pull requests

2

homepage

github.com

repository

 github

last publish

6 days ago

collaborators

And ship unbundled via CDNs


elmsln / [unbundled-webcomponents](#) Unwatch 4 Unstar 5 Fork 3







[Code](#) [Pull requests 0](#) [Actions](#) [Security 0](#) [Insights](#) [Settings](#)

A boilerplate repo for doing an unbundled build integration that will work on all browsing targets Edit
<https://github.com/elmsln/issues/issues>
[Manage topics](#)

30 commits 1 branch 0 packages 0 releases 1 contributor

Branch: **master** New pull request Create new file Upload files Find file Clone or download

 **btopro** some upped docs Latest commit cd68dc8 21 hours ago

 assets	revisions from testing in other CMSs	2 months ago
 dist	Update app.js	4 days ago
 .gitignore	wc-registry creation	24 days ago
 README.md	some upped docs	21 hours ago
 advanced.html	better example	7 days ago
 build-legacy.js	working in complex environment polyfills	21 days ago

<https://github.com/elmsln/unbundled-webcomponents>

Discover on webcomponents.org



WEBCOMPONENTS.ORG

Discuss & share web components

[Getting started](#)

[Community](#)

[Chat](#)

[Publish element](#)

elmsln

[BUTTON](#)

[FORM](#)

[TOOLBAR](#)

[EMOJI](#)

[CALENDAR](#)

[MEDIA](#)

Featured elements

[Browse elements](#)


lite-scanner

lightweight qr-code scanner web component



freudFlintstone

dark-mode-toggle

A custom element that allows you to easily put a Dark Mode  toggle or switch on



GoogleChromeLabs

lit-datatable

lit-datatable is a material design implementation of a data table, powered



DoubleTrade

Featured collections

[Browse collections](#)

smarthtml-elements-core

13 items

High Quality Custom Elements Web UI

vaadin-core

51 items

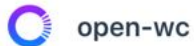
An evolving set of free, open source web

progressive-web-components

8 items

Building blocks for progressive web apps

Learn on open-wc.org



[Home](#)

[Guide](#)

[FAQ](#)

[About](#)

[GitHub](#) 



open-wc

Open Web Component Recommendations

[Get Started →](#)

Smart Defaults

Awesome Generators

Open Source Love

Reusable Web components
are the



revolution in how our team
builds the web

www.webcomponents.org

2178 Elements



lite-scanner

lightweight qr-code scanner web component

★ 1 🗑️ 0



dark-mode-toggle

A custom element that allows you to easily put a Dark Mode 🌑 toggle or switch on your site:

★ 122 🗑️ 5



lit-datatable

lit-datatable is a material design implementation of a data table, powered by lit-element.

★ 5 🗑️ 3



vaadin-text-field

The themable Web Component providing input controls. Part of the Vaadin components.

★ 23 🗑️ 20



lit-datepicker

lit-datepicker provides a simple datepicker with range.

★ 3 🗑️ 1



xtal-fetch

Vanilla-ish web component wrapper around the fetch method.

★ 4 🗑️ 0

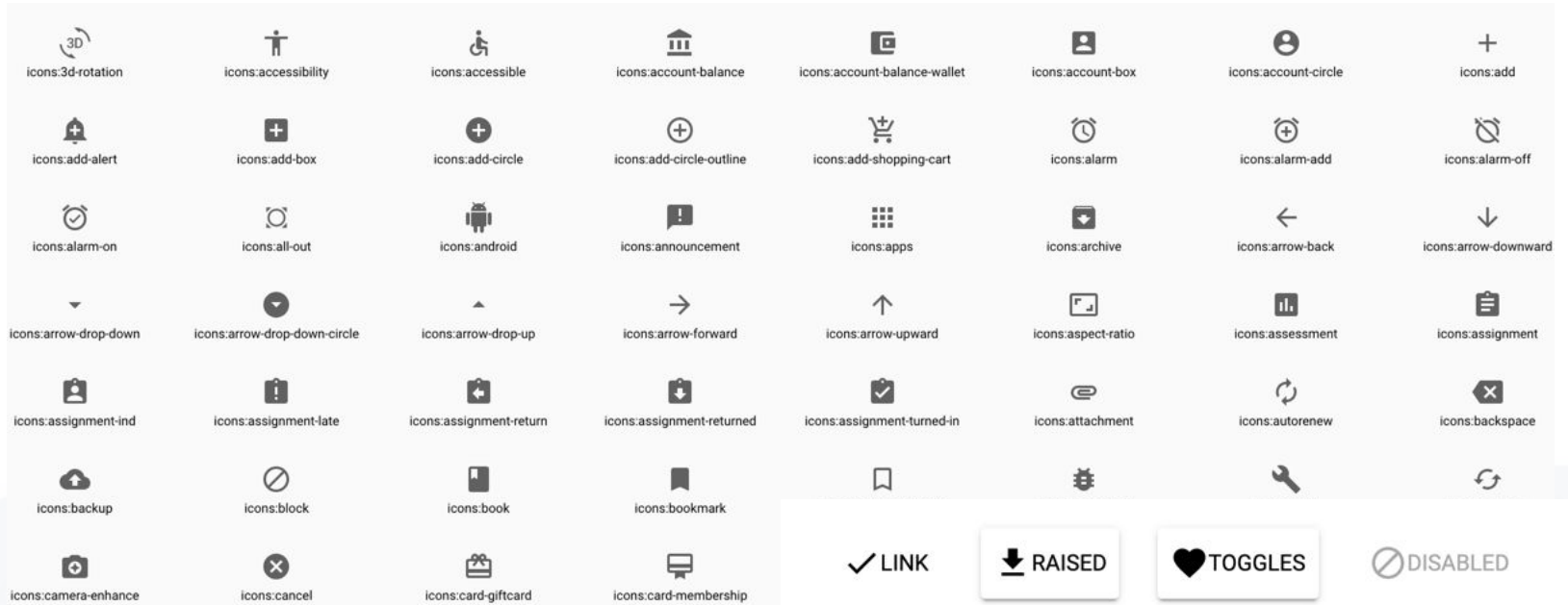


fcarrascosa-slider

A simple Slider made with lit-element

★ 1 🗑️ 0

www.webcomponents.org



COPY

```
<paper-icon-button noink icon="find-in-page" title="find">
```

```
<paper-button><iron-icon icon="check"></iron-icon>link</>
<paper-button raised><iron-icon icon="file-download"></i
<paper-button toggles raised><iron-icon icon="favorite">
<paper-button disabled><iron-icon icon="block"></iron-ic
```

www.webcomponents.org

`<vaadin-upload>` is a Web Component for uploading files, part of the [Vaadin components](#).

Upload Files...  Drop your favourite Novels here (PDF files only)

```
<vaadin-upload accept=".pdf">
  <span slot="drop-label">Drop your favourite Novels here (PDF files only)</span>
</vaadin-upload>
```

eu.

Lorem ipsum dolor sit amet, per in nusquam nominavi periculis, sit elit oportere ea.

Detracto suavitate repudiandae no eum. Id adhuc minim soluta nam. Modus commodo minimum eum te, vero utinam assueverit per eu. lisque perfecto dissentiet cum et, sit ut quot mandamus, ut vim tibi que splendide instructor.

```
<app-header reveals>
  <app-toolbar>
    <div main-title>App name</div>
  </app-toolbar>
</app-header>
```



by PolymerElements

★ 218 🔗 129 👁 40 ! 72

@polymer/iron-list 3.0.2

Element for a virtual, "infinite" list

`<zero-md>`

Ridiculously simple markdown displayer - a native web component based on [Custom Elements v1 specs](#) to load and display an external MD file.

Instantly create beautiful HTML pages from Markdown. Like it isn't easy enough.

While it's already remarkably trivial to render markdown into HTML ([Marked](#)) and syntax-highlight ([Prism](#)), `<zero-md>` does this better, automagically rendering into its own self-contained Shadow DOM container, while encapsulating implementation details into one embarrassingly easy-to-use package.

Because web components. All in ~100 lines of code.

ELMS:LN / HAXTheWeb
have been on
web components



for 3 years..
And love them

www.webcomponents.org



WEBCOMPONENTS.ORG

Discuss & share web components

Getting started

Community

Chat

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FORM

TOOLBAR

EMOJI

CALENDAR

MEDIA

elmsln

171 Elements



portal-launcher

@lrnwebcomponents Monorepo for NPM based element definitions

★ 70 🍷 33



haxcms-elements

@lrnwebcomponents Monorepo for NPM based element definitions

★ 70 🍷 33



learn-two-theme

@lrnwebcomponents Monorepo for NPM based element definitions

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simple-blog

@lrnwebcomponents Monorepo for NPM based element definitions

★ 70 🍷 33



lrndesign-sidenote

@lrnwebcomponents Monorepo for NPM based element definitions

★ 70 🍷 33

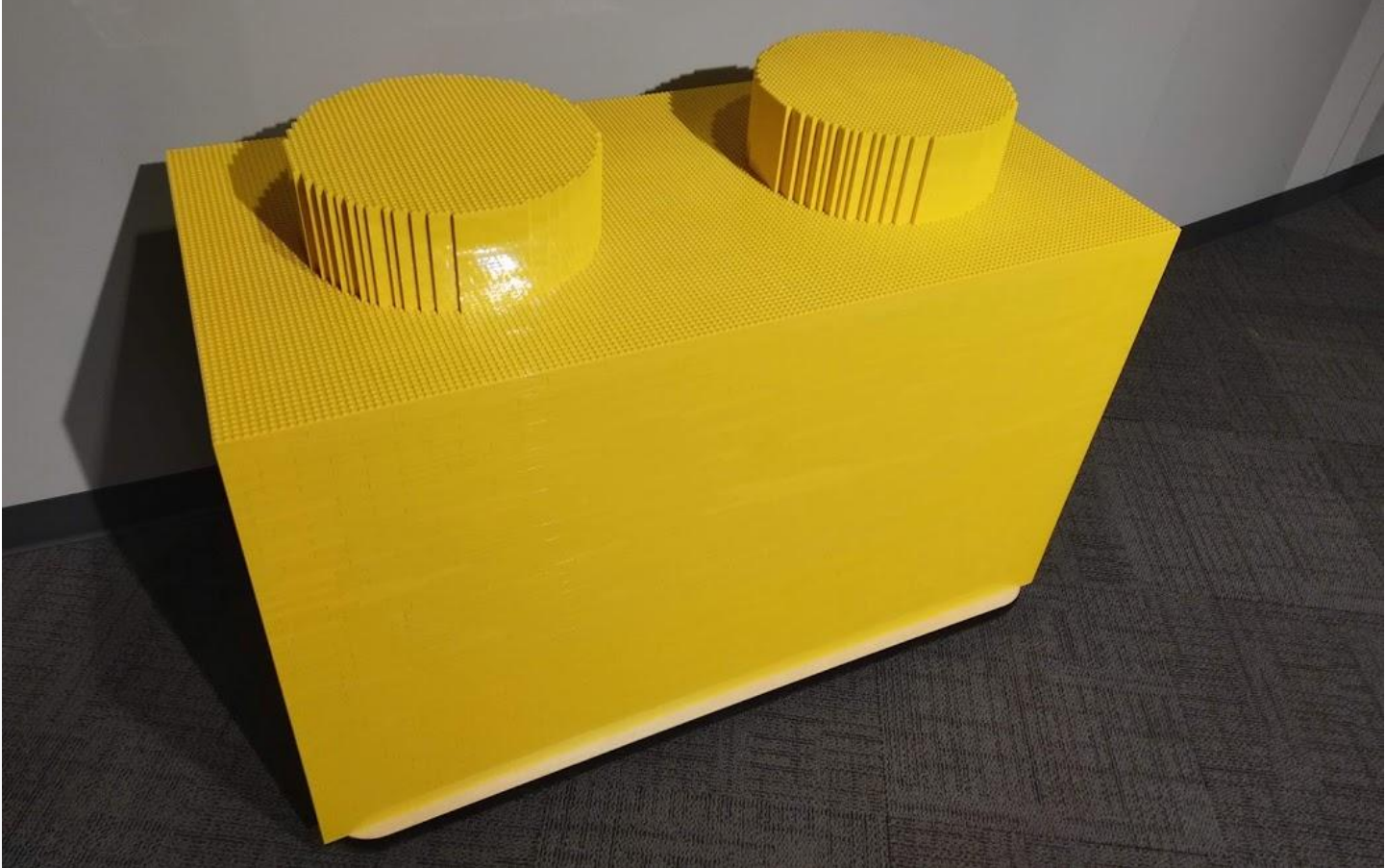


ELMS Learning Network

Improving education by improving the open web through big, open sourced, world changing ideas.

elmsln

Penn State



stop-note



Confirmation Message

You can write any confirmation message you want here.

[More Information >](#)

```
<stop-note title="Confirmation Message" url="https://www.google.com" icon="stopnoteicons:confirm-icon">  
  <span slot="message">You can write any confirmation message you want here.</span>  
</stop-note>
```



@cgldevel



Title

You can write any message you want here.

```
<stop-note>  
  <span slot="message">You can write any message you want here.</span>  
</stop-note>
```

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self-check



@cgldevel

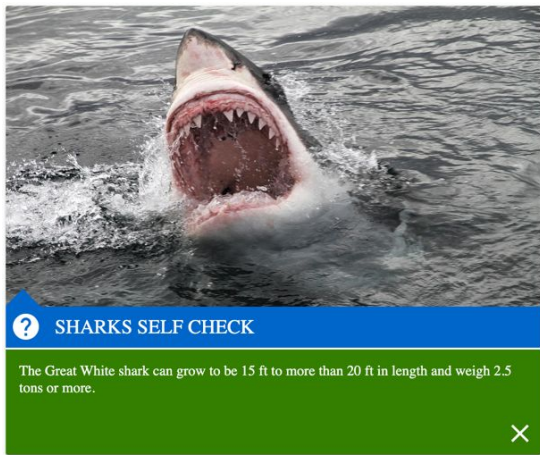
```
<self-check accent-color="light-blue" title="Sharks Self Check" image="https://kids.nationalgeographic.com/cc
  <span slot="question">How large can the average great white shark grow to be?</span>
  The Great White shark can grow to be 15 ft to more than 20 ft in length and weigh 2.5 tons or more.
</self-check>
```

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self-check



@cgldevel

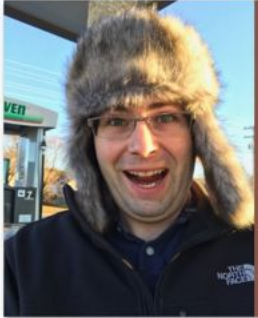
```
<self-check accent-color="light-blue" title="Sharks Self Check" image="https://kids.nationalgeographic.com/cc
  <span slot="question">How large can the average great white shark grow to be?</span>
  The Great White shark can grow to be 15 ft to more than 20 ft in length and weigh 2.5 tons or more.
</self-check>
```

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person-testimonial



“ I'm looking forward to exploring how we can make HAX as easy as possible to spin up in a variety of environments. ”

@TIMMMMYBOY

Cofounder, Reclaim Hosting



@cgldevel

```
<person-testimonial accent-color="orange" dark image="headshot.jpg" name="Btopro" position="Coffee person">  
  <span>I at times, enjoy coffee. Those times, are all times.</span>  
</person-testimonial>
```

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hax-camp

Details

Why attend

Who is coming

Convince your boss

Registration

Schedule

Getting here

Code of conduct

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Atom feed

RSS feed



PatternFly Elements, and how the components make use of some powerhouse CSS variables! I want to learn more about how to handle browser edge cases. ”

@KENDALLTOTTEN

Front-end Web Development Manager, redhat.com



” I'm excited to show how Web Components are now a standard in mainstream services like Salesforce and how web developers can use Salesforce resources outside of Salesforce. ”

@KREYNEN

Digital Marketing Developer at University of Colorado



” I'm excited to show off our rich-text-editor element coming to HAX in the near future as well as learn more about how PatternFly Elements are handling SASS color variables. ”

@NIKKIMK

HAX Core contributor



” I'm looking forward to exploring how we can make HAX as easy as possible to spin up in a variety of environments. ”

@TIMMMYBOY

Cofounder, Reclaim Hosting

Custom **HAXcms** theme developer!

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News > H5P - Documentation Tool

H5P - Documentation Tool

November 19, 2018



By: Charles Lavera

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H5P - Documentation Tool



5 Web Accessibility Tips for Developers



odl.science.psu.edu



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ASTRO 120



ASTRO 130



figure - label



@hey__mp

1.3 Microbs under microscope

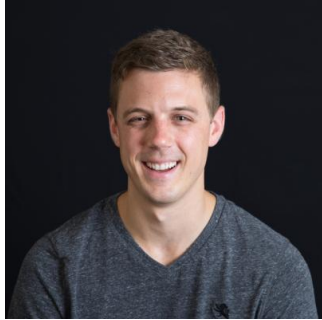
```
<figure-label title="1.3" description="Microbs under microscope">  
  1.3 - Microbs under microscope  
</figure-label>
```

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wcfactory tooling



@hey__mp

The screenshot shows the GitHub repository for `elmsln / WCFactory`. The repository is for `LRNWebComponents`, a Monorepo for NPM based element definitions. It has 2,194 commits, 12 branches, 67 releases, and 8 contributors. The repository is licensed under Apache-2.0. The file list includes:

File	Description	Last Commit
<code>btopro</code>	more style consistency across hax and haxcms themes when in edit mode	Latest commit 00c4881 11 hours ago
<code>storybook</code>	Eff yeah aframe-player works in FF	6 months ago
<code>.vscode</code>	No commit message	10 months ago
<code>elements</code>	more style consistency across hax and haxcms themes when in edit mode	11 hours ago
<code>scripts</code>	minor tweaks	7 months ago
<code>test</code>	testbed	6 days ago
<code>themes</code>	v2.1.1	2 months ago
<code>.editorconfig</code>	packaging updates	last year
<code>.gitignore</code>	dynamic import removed, paths allowed for resolution, lots of import ...	6 months ago
<code>.shintrc</code>	packaging updates	last year

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ally-gif-player



@NikkiMK

```
<ally-gif-player style="width: 300px;" alt="IT Crowd: Moss eating popcorn." src="https://n  
</ally-gif-player>
```

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a11y-collapse

What rhymes with orange? ▼

Nothing rhymes with orange.

```
<ally-collapse>  
  <p slot="heading">What rhymes with orange?</p>  
  <div>Nothing rhymes with orange.</div>  
</ally-collapse>
```



@NikkiMK

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ally-tabs

Nearby restaurants 🍴 Shopping 🏪

- Stuff and Things
- Really Old Books
- Fast Fashion

```
<ally-tabs id="tabs">
  <ally-tab id="eat" icon="maps:restaurant" label="Nearby restaurants">
    <ul>
      <li>Tasty Burger</li>
      <li>Subs & More</li>
      <li>Lobsterland</li>
    </ul>
  </ally-tab>
  <ally-tab id="shop" icon="maps:store-mall-directory" label="Shopping">
    <ul>
      <li>Stuff and Things</li>
      <li>Really Old Books</li>
      <li>Fast Fashion</li>
    </ul>
  </ally-tab>
</ally-tabs>
```



@NikkiMK

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simple-colors

CSS Variables and Classes for pink-6		
Variable or Class Name	Color	With dark Attribute
--simple-colors-default-theme-pink-6	default color	inverted color
--simple-colors-fixed-theme-pink-6	default color	fixed color
.simple-colors-default-theme-pink-6	default background color	inverted background color
.simple-colors-fixed-theme-pink-6	default background color	fixed background color
.simple-colors-default-theme-pink-6-text	default text color	inverted text color
.simple-colors-fixed-theme-pink-6-text	default text color	fixed text color
.simple-colors-default-theme-pink-6-border	default border color	inverted border color
.simple-colors-fixed-theme-pink-6-border	default border color	fixed border color

WCAG 2.0 AA Contrast with pink-6		
Color Name	Regular Text	Large Text*
grey	grey-1 grey-2	grey-1 grey-2
red	red-1	red-1
pink	pink-1	pink-1
purple	purple-1	purple-1
deep-purple	deep-purple-1	deep-purple-1



@NikkiMK



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simple-fields

```
<form>
  <simple-fields id="fields"></simple-fields>
</form>
<script>
  window.onload = function(){
    let fields = document.getElementById('fields');
    let schema = [
      {
        "property": "name",
        "title": "What is your name?",
        "description": "Enter your real name or an alias.",
        "inputMethod": "textfield",
        "required": true
      },
      {
        "property": "alias",
        "title": "This is an alias.",
        "description": "",
        "inputMethod": "boolean"
      },
      {
        "property": "profileImage",
        "title": "Profile Image",
        "description": "Maximum size 400px X 400px.",
        "inputMethod": "haxupload",
        "validationType": "url"
      },
      {
        "property": "biographical",
        "title": "Biographical Information",
        "inputMethod": "fieldset",
        "properties": [
          {
            "property": "icon",
            "title": "Pick an icon.",
            "inputMethod": "iconpicker"
          }
        ]
      }
    ]
  }
</script>
```

This is an alias.

Profile Image

Upload Files... Drop files here

URL <400px.

Camera Information

Pick an icon.

Your favorite color.

red

Your sword's name.

Needle

Bio

Once upon a time... Write a short bio. 19

Siblings

Enter the names of your siblings.

Allies	Rob Stark	⚙️
Enemies	Jon Snow	⚙️
	Sansa Stark	⚙️
	Bran Stark	⚙️
	Rickon Stark	⚙️



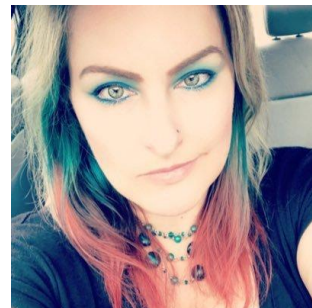
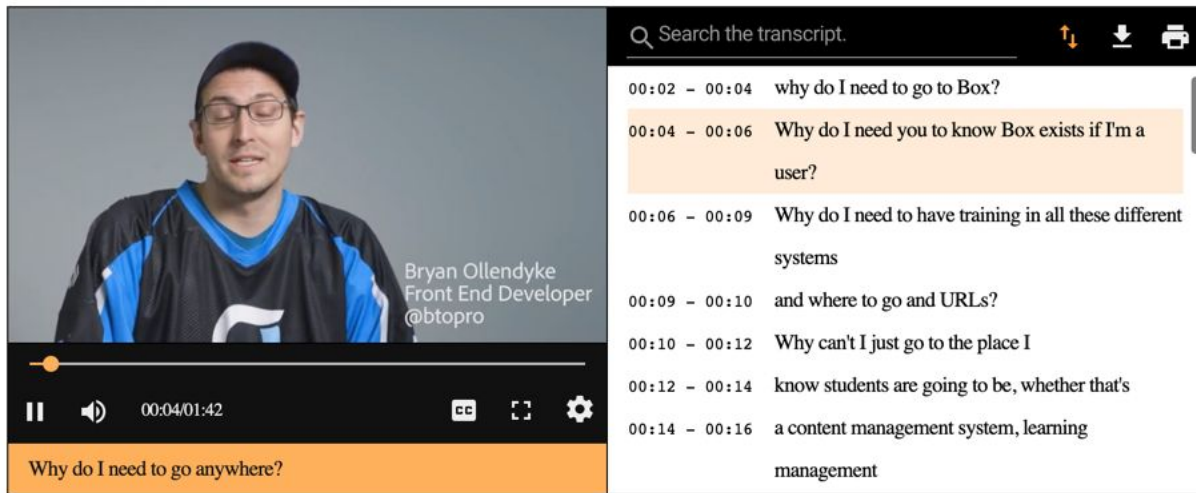
@NikkiMK

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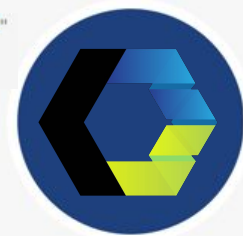
video-player



@NikkiMK

```
<video-player accent-color="red" dark source="https://personal.psu.edu/lnm105/stclair.mp4?t=60,120" track="samples/stclair.vtt"
  <div slot="caption">This is a video caption.</div>
</video-player>
```

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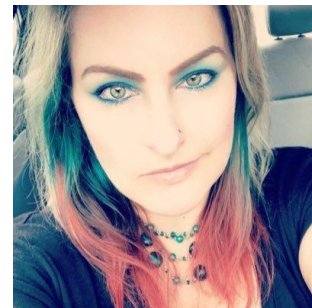
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editable-table

Caption
Is it a sandwich? Food classification chart.

	A ▾	B ▾	C ▾	D ▾
1 ▾	Food ⇅	Enclosure ⇅	Contents ⇅	Orientation ⇅
2 ▾	Hamburger ✂	one bun, split into two ✂	meat, vegetables, cheese, and/or condiments ✂	horizontal ✂
Insert Row Before ✂		one bun ✂	meat, vegetables, cheese, and/or condiments ✂	vertical ✂
Insert Row After ✂		one bun ✂	meat, vegetables, cheese, and/or condiments ✂	vertical ✂
Delete Row ✂				
5 ▾	Sandwich ✂	two crusts sealed together ✂	meat, vegetables, cheese, and/or condiments ✂	horizontal ✂
6 ▾	Pie ✂	two crusts sealed together ✂	fruit or meat, vegetables, and/or cheese ✂	horizontal ✂
7 ▾	Taco ✂	one shell ✂	meat, vegetables, cheese, and/or condiments ✂	vertical ✂

Headers and footers    Display     Sorting and Filtering ⇅ ▾



@NikkiMK

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editable-table

```
<editable-table id="food-table" bordered condensed filter responsive sort striped>
  <table>
    <caption>
      Is it a sandwich? Food classification chart.
    </caption>
    <thead>
      <tr>
        <th scope="row">Food</th>
        <th scope="col">Enclosure</th>
        <th scope="col">Contents</th>
        <th scope="col">Orientation</th>
      </tr>
    </thead>
    <tbody>
      <tr>
        <th scope="row">Hamburger</th>
        <td>one bun, split into two</td>
        <td>meat, vegetables, cheese, and/or condiments</td>
        <td>horizontal</td>
      </tr>
      <tr>
        <th scope="row">Hoagie</th>
        <td>one bun</td>
        <td>meat, vegetables, cheese, and/or condiments</td>
        <td>vertical</td>
      </tr>
      <tr>
        <th scope="row">Hot Dog</th>
        <td>one bun</td>
        <td>meat, vegetables, cheese, and/or condiments</td>
        <td>vertical</td>
      </tr>
    </tbody>
  </table>
</editable-table>
```



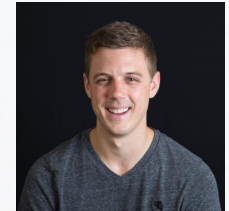
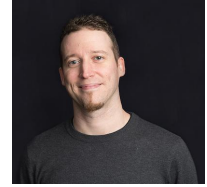
@NikkiMK



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We are all bridge



builders with web components

Hang in there

the world

**Needs you and we need each
other!**

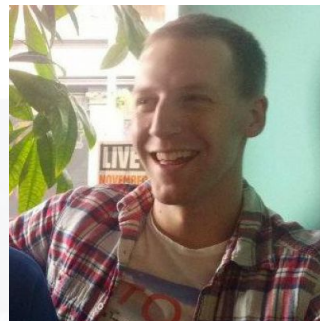
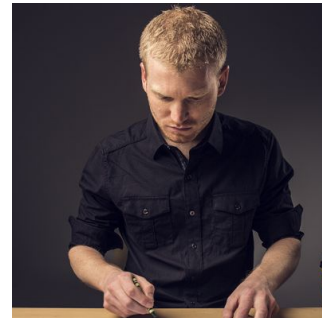
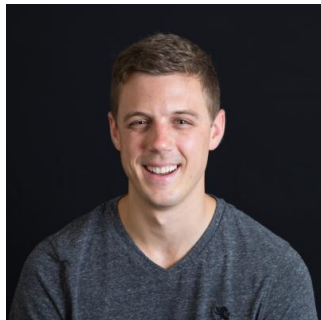
hax.camp un-code!



OCT. 7-8 2019 | DUKE UNIVERSITY



Fri 3-5pm EST



Join us today!

bit.ly/haxslack

Questions?

**[at]btopro
HAXTheWeb.org
Hax.camp**



< /hax-talk >