

Basic Web Components and TS info

Custom elements

- The name of your custom element must contain a dash (-). For example, <file-reader>, and <skype-login> are valid names for custom elements, while <skype_login>, and <skypelogin> are not. This is necessary in order to allow the HTML parser differentiate between a custom element and an inbuilt HTML element.
- A custom element can't be registered more than once. A DOMException error will be thrown if you do so.
- A custom element can't be self-closing. For example, you can't write a custom element like this: <skype-login /> . It should always be written like this: <skype-login></skype-login> .

Template

• allows you to reuse pieces of code

LifeCycleHooks

- constructor(): Here, you can attach event listeners and initialize state.
- connectedCallback(): Called whenever the custom element is inserted into the DOM.
- **disconnectedCallback():** Called whenever the custom element is removed from the DOM.

- attributeChangedCallback(attrName, oldVal, newVal): Called whenever an attribute is added, removed or updated. Only attributes listed in the observedAttributesproperty are affected.
- adoptedCallback(): Called whenever the custom element has been moved into a new document.

https://dev.to/bennypowers/lets-build-web-components-part-1-the-standards-3e85

Overall this was a good article and hit all the key pieces for building a web component with examples. we should be able to use this as a reference as we build

https://webdesign.tutsplus.com/articles/how-to-create-your-own-html-elements-with-web-components--cms-21524

- found a lead on how to add in styling from CSS
 - with the exception of style hooks you might specifically create in order to allow external CSS targeting
- good information on browser support because of how old the article is https://auth0.com/blog/web-components-how-to-craft-your-own-custom-components/
- so far the best tutorial I've seen

https://dev.to/thepassle/web-components-from-zero-to-hero-4n4m

This tutorial is also really well done

https://github.com/mateusortiz/webcomponents-the-right-way

- pretty much all the resources on web-components gathered into one pace
 https://blog.bitsrc.io/web-components-without-a-framework-lets-build-a-modal-a450a4536340
- didn't think it was that great

https://www.webcomponents.org/introduction

not that great either but provides a quick overview

TypeScript Resources

https://medium.freecodecamp.org/learn-typescript-in-5-minutes-13eda868daeb
https://philandrews.io/post/how-to-get-your-team-to-buy-into-typescript
https://www.typescriptlang.org/docs/handbook/typescript-in-5-minutes.html

TypeScript Plan

- 1. Merge tsc into the build tool chain.
- 2. Tell your team they are now using typescript.
- 3. Fire any dissenters on the spot as a warning to the others. Lavish the loyal ones with praise.
- 4. Inform management that it was in fact your team's decision to experiment with typescript.
- 5. Resume normal development activities.
- 6. Crush your enemies.