

- 1. Setup Your Trailhead Playground
 - a. Go to https://sfdc.co/AuraToLWC
- 2. Deploy the Aura Component
 - a. Open a command prompt.
 - b. Clone the HelloWorld git repository:

```
git clone https://github.com/sfdc-cdev/AuraToLWC.git
```

c. Navigate to the new AuraToLWC directory:

```
cd AuraToLWC
```

d. Authorize your org with the Salesforce CLI, save it with an AuraToLWC alias and set the current user as the default user:

```
sfdx force:auth:web:login -s -a AuraToLWC
```

- e. When a browser window with the Salesforce login page opens, enter your credentials.
- f. Deploy the app code to the org:

```
sfdx force:source:deploy -p force-app/main/default
```

g. Assign the Hello_World permission set to the current user:

```
sfdx force:user:permset:assign --permsetname Hello World
```

h. Open the org in a browser:

```
sfdx force:org:open
```

i. In the browser, go to the app named Hello Improved and the tab Hello World.

3. Create Lightning web component

- a. Open VS Code.
- b. Add the project folder you just cloned from GitHub by clicking File > Open and navigating to the **AuraToLWC** folder.
- c. In the sidebar, expand the force-app/main/default folder.
- d. Right-click the **lwc** folder, click **SFDX: Create Lightning Web Component** and name the component **lwcHello**.
- e. Within the <template> tags of the **lwcHello.html** copy the markup from the auraHello.cmp and let's look at how the different elements are transformed:
- f. Make the component available in App Builder:

g. Remove the <aura:component> tags from lwcHello.html:

```
<template>
                                                             lwcHello.html
 <!--
 <aura:component>
   <aura:attribute name="greeting" type="String" default="world" />
   <lightning:card title="Aura Hello" iconName="action:announcement">
     <aura:set attribute="actions">
       <lightning:button label="Count" onclick="{!c.count}" />
     </aura:set>
     <div class="slds-m-around medium">
       Hello, {!v.greeting}!
       <lightning:input label="Name" value="{!v.greeting}" />
     </div>
   </aura:component>
 -->
</template>
```

h. The aura attribute becomes a Lightning web component property:

```
import { LightningElement, track } from 'lwc';

export default class LwcHello extends LightningElement {
    @track greeting = "world";
}
```

i. ii. lightning:card> becomes lightning-card>:

- j. j. lightning:button> becomes lightning-button>.
- k. <aura:set> becomes slot="action".
- I. The syntax of calling the **count** function has changed:

m. Notice the syntax difference in the way we bind Lightning web components properties:

- n. < lightning:input> becomes < lightning-input>:
- o. When an onchange event occurs, we call the handleChange function:

p. In the lwcHello.js file, we define the count() and handleChange() functions using standard JavaScript:

```
import { LightningElement, track } from 'lwc';
export default class LwcHello extends LightningElement {
    @track greeting = "world";
    count() {
        // eslint-disable-next-line no-alert
        alert(this.greeting.length + " letters");
    }
    handleChange(event) {
        this.greeting = event.target.value;
    }
}
```