Creating a Star Rating Component



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Overview



Build a high quality star rating Web Component

Take inspiration from native elements
Introduction to Shadow DOM styling
Handling multiple attributes

Emitting events from a Web Component





Component Overview

How it looks

How it behaves

Its JavaScript API



Think Native







The Number Input

Which attributes it uses

How it reacts to attribute changes

What properties it has

What events it fires and when



The Process





Star Rating Foundation

Custom Element outline

Shadow Root

Initial template

Basic styling









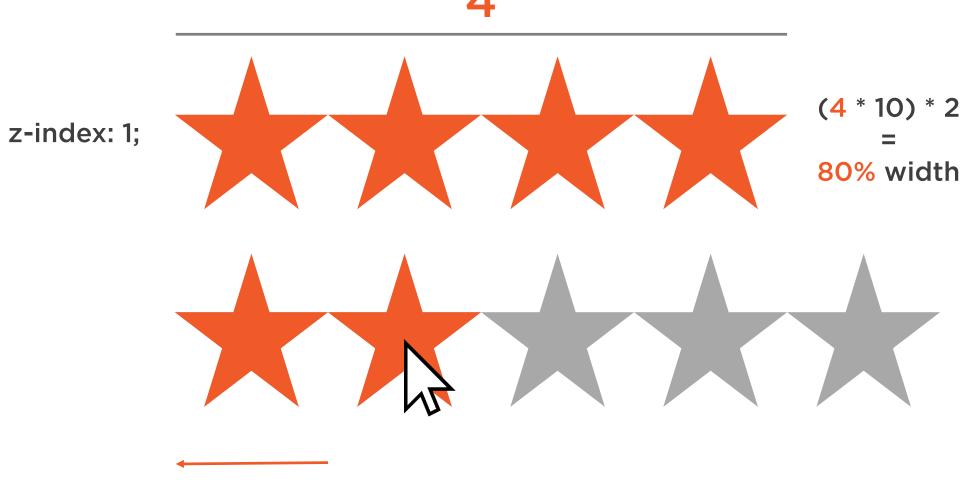


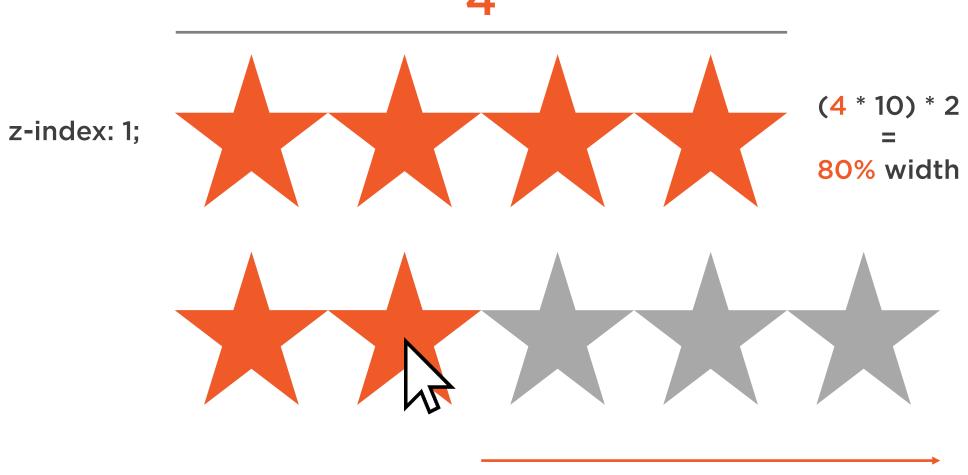


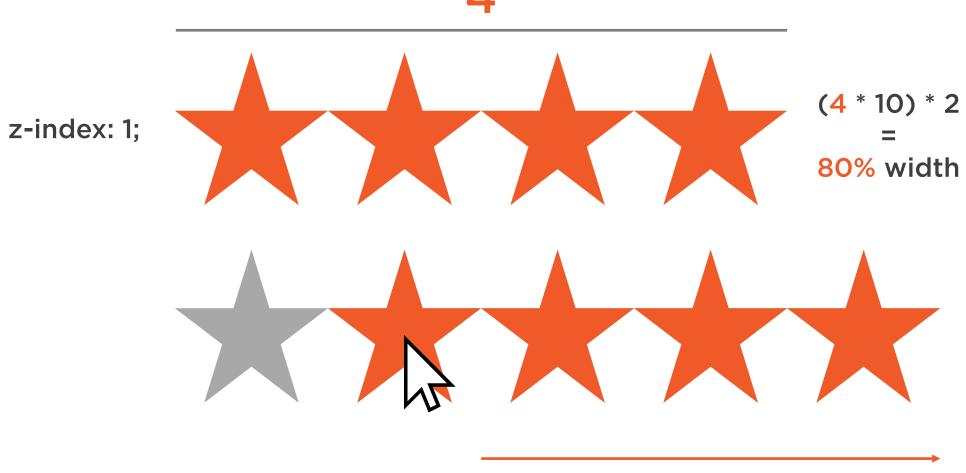


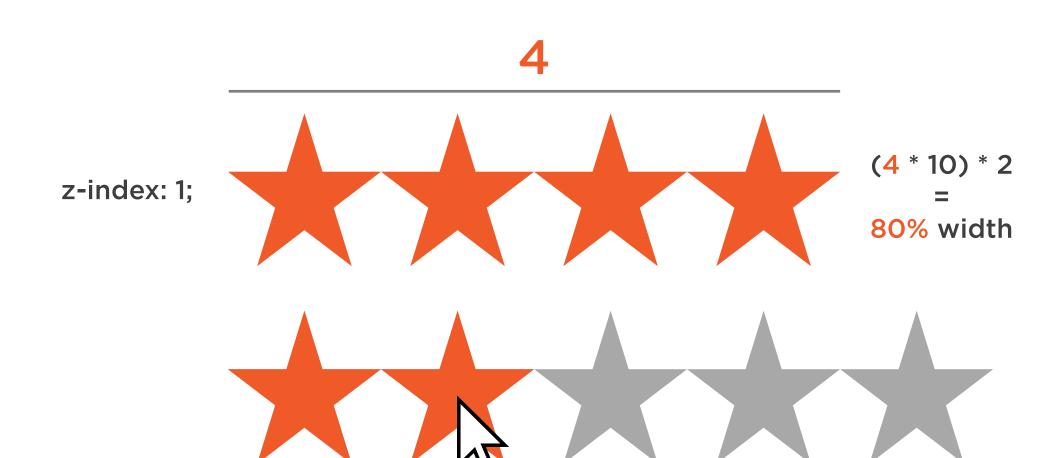












 $Hr \rightarrow rtl$



Disabled Mode

CSS to prevent hover and change cursor

Private variable to keep track of state

Watch attribute changes to determine when the element should be disabled





Value Property

Private value variable

Setter and getter

Render method to update the template





User Interaction

Allow the user to make a selection

Update the component value

Dispatch a changed event





Value Attribute

Observe changes to the value attribute

Update the component value based on these changes

Match the behavior of the number input



Summary



Building a high quality Web Component step-by-step

How to analyze native elements

Harness some Shadow DOM styling capabilities

Handle multiple attributes in a single component

Dispatch events from within a Web Component

