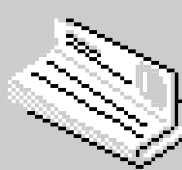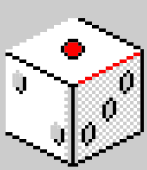# Grupo 5

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Problema

Componente producto

Componente elemento de árbol

Solo con estándares de Web Components

[Demo](#)

```
1   class Product extends LitElement {
2     static properties = {
3       name: {type: String},
4       price: {type: Number},
5       image: {type: String},
6       discount: {type: Number},
7       stars: {type: Number},
8       maxstars: {type: Number}
9     }
10
11    constructor() {
12      super();
13      this.name = '';
14      this.price = 0;
15      this.image = '';
16      this.discount = 0;
17      this.stars = 0;
18      this.maxstars = 0;
19    }
20
21    firstUpdated() {
22      const textElement = this.shadowRoot.querySelector('.product-name');
23      textElement.addEventListener('mouseover', () => {
24        textElement.title = textElement.textContent;
25      });
26      this.discountPrice = Math.floor(this.price - (this.price * this.discount / 100)).toString().replace(/\B(?=(\d{3})+(?!\d))/g, ".");
27      this.price = this.price.toString().replace(/\B(?=(\d{3})+(?!\d))/g, ".");
28    }
29    ...
```

```
1   ...
2     static styles = css`
3     ...
4     `;
5
6     render() {
7       return html`
8         <div class="product">
9         <div class="image-container">
10          <img class="product-image" src="${this.image}" alt="Product Photo">
11          ${this.discount ? html`<p class="product-discount">Descuento: ${this.discount}%</p>`: ''}
12        </div>
13          <h3 class="product-name">${this.name}</h3>
14          <div class="price-container">
15          ${this.discount ? html`<span class="product-price">$${this.discountPrice}</span>`: ''}
16          <span class="product-price ${this.discount ? "product-price-with-discount" : ""}">$${this.price}</span>
17          </div>
18          <div class="product-rating">
19            ${"★".repeat(this.stars)+"☆".repeat(this.maxstars - this.stars)}
20          </div>
21        </div>
22      `;
23    }
24  }
25
26  customElements.define('product-item', Product);
```

product-item

```
1  products.forEach(product => {
2    const productElement = document.createElement('product-item');
3    productElement.setAttribute('name', product.name);
4    productElement.setAttribute('price', product.price);
5    productElement.setAttribute('image', product.image);
6    productElement.setAttribute('discount', product.discount);
7    productElement.setAttribute('stars', product.stars);
8    productElement.setAttribute('maxstars', product.maxStars);
9    document.getElementById("products-container").appendChild(productElement);
10 });
```

```
1  const template = document.createElement('template');
2  template.innerHTML = `
3  <style>
4  ...
5  </style>
6  <div><button>v</button><span></span><slot></slot></div>
7  `;
```

tree-item

```
1   customElements.define('tree-item', class extends HTMLElement {
2     constructor() {
3       super();
4       this.attachShadow({ mode: 'open' });
5       this.open = false;
6       this.shadowRoot.appendChild(template.content.cloneNode(true));
7
8       const slotToHide = this.shadowRoot.querySelector('slot');
9       const prevDisplay = slotToHide.style.display;
10      const button = this.shadowRoot.querySelector('button');
11      const span = this.shadowRoot.querySelector('span');
12      span.textContent = this.shadowRoot.querySelector('slot').assignedNodes()[0].textContent;
13      const prevDisplaySpan = span.style.display;
14      slotToHide.style.display = 'none';
15      button.textContent = '>';
16      if (this.shadowRoot.querySelector('slot').assignedNodes().length == 1) {
17        button.style.display = 'none';
18      }
19      ...
```
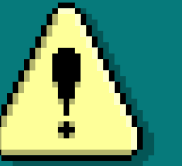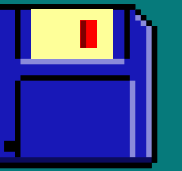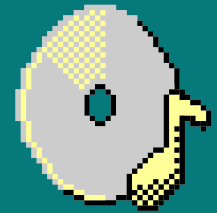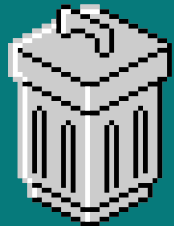
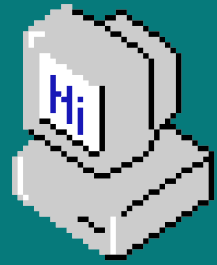**tree-item**

```
1   ...
2       button.addEventListener('click', () => {
3           if (this.open) {
4               slotToHide.style.display = 'none';
5               button.textContent = '>';
6               span.style.display = prevDisplaySpan;
7           }
8           else {
9               slotToHide.style.display = prevDisplay;
10              button.textContent = 'v';
11              span.style.display = 'none';
12          }
13          this.open = !this.open;
14      });
15  }
16  });
```

tree-item

```
1   <tree-item>
2     Raiz
3     <tree-item>
4       Hijo 1
5       <tree-item>
6         Nieto 1
7       </tree-item>
8       <tree-item>
9         Nieto 2
10      </tree-item>
11    </tree-item>
12    <tree-item>
13      Hijo 2
14      <tree-item>
15        Nieto 3
16      </tree-item>
17      <tree-item>
18        Nieto 4
19      </tree-item>
20    </tree-item>
21  </tree-item>
```
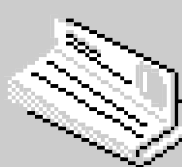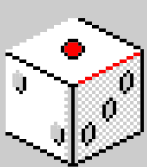
Conclusiones

Web Components

Grupo 5

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