

# Creating a Configurable Slide Out Menu Component

---



**Leon Revill**

WEB ARCHITECT

@revillweb [www.revillweb.com](http://www.revillweb.com)



# Overview



Build a slide-out navigation menu component

Add some built in color themes

Use CSS to avoid having to watch for attribute changes

Use properties to control the state of the component

Use slotting to allow users to project content into the Shadow Root of the component



# Demo



Component Overview

How it works

What configurations options it has

How it is constructed



# Demo



Component Foundation

**Create the component class**

**Add the initial template**

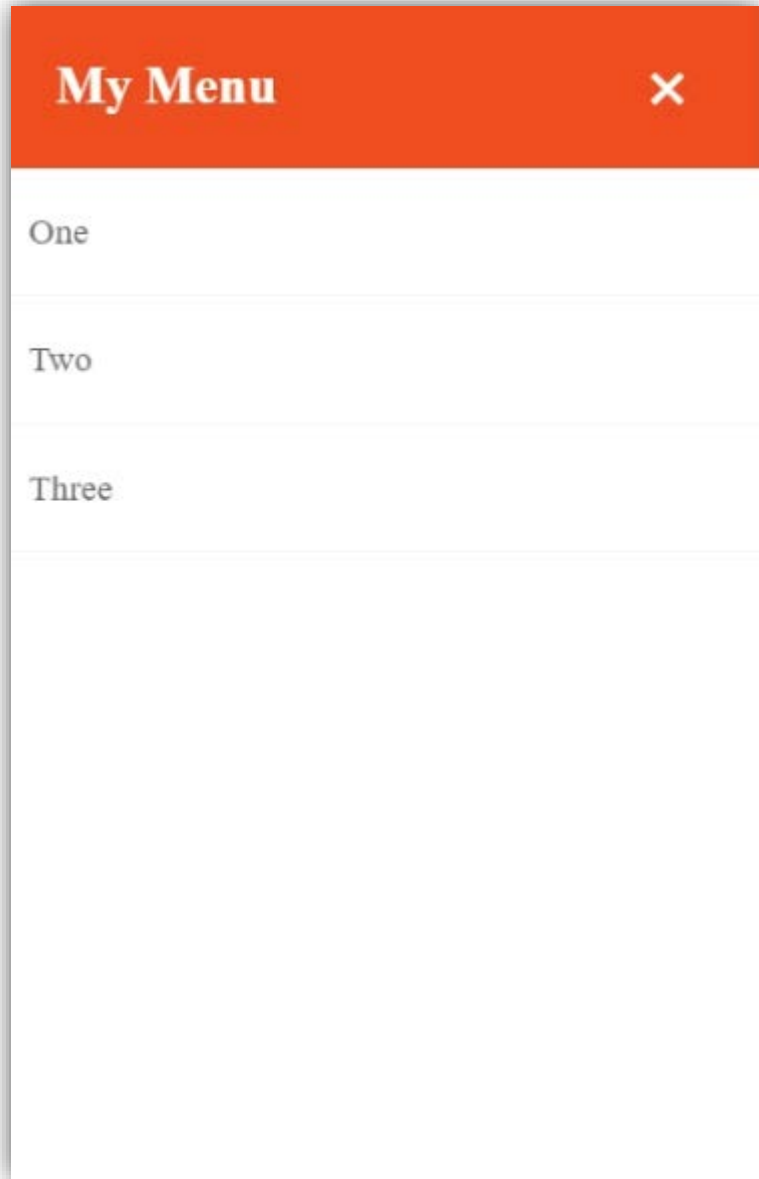
**Add template CSS including slide-in animation**



# Styling the :host

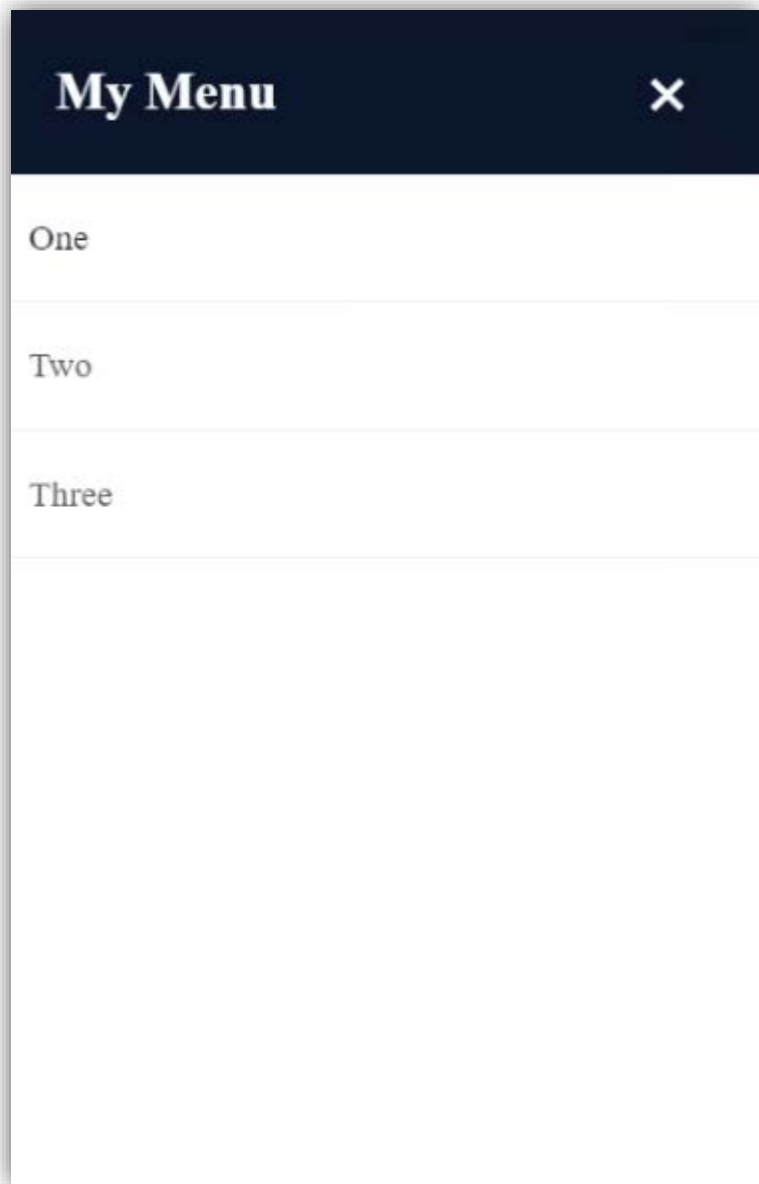
---





```
<rw-slide-menu theme="red">  
...  
</rw-slide-menu>
```





```
<rw-slide-menu theme="blue">  
...  
</rw-slide-menu>
```



# attributeChangedCallback

```
static get observedAttributes() {  
    return ["theme"];  
}
```

```
attributeChangedCallback(name, oldValue, newValue) {  
    this._$frame.classList.remove("theme-red");  
    this._$frame.classList.remove("theme-blue");  
    if (newValue === "red") this._$frame.classList.add("theme-red");  
    if (newValue === "blue") this._$frame.classList.add("theme-blue");  
}
```





# Shadow DOM :host selector

```
<style>
  :host([theme="red"]) {
    color: red;
  }
</style>
```

```
<rw-slide-menu theme="red">
  ...
</rw-slide-menu>
```



# Shadow DOM :host selector

```
<style>
  :host([disabled]) {
    cursor: inherit;
  }
</style>
```

```
<rw-star-rating disabled>
...
</rw-star-rating>
```



# Shadow DOM :host selector

```
<style>
  :host(.small) {
    font-size: 10px;
    width: 100px;
  }
</style>
```

```
<my-element class="small">
...
</my-element>
```



# Shadow DOM :host selector

```
<style>
  :host(:hover) {
    background-color: blue;
  }
</style>
```



# Shadow DOM :host-context selector

```
<style>
  :host-context(.green) {
    color: green;
    background-color: darkgreen;
  }
</style>
```

```
<body class="green">
  <div>
    <my-element></my-element>
  </div>
</body>
```



# Demo



## Component Themes

**Provide a red and blue theme for the component**

**Selected via the theme attribute**

**CSS only, no JavaScript**



# Demo



## Opening & Closing the Menu

**Define the open property**

**Close the menu when the backdrop or close button is clicked**

**Add CSS to allow the backdrop to be disabled**



# Slotting

---

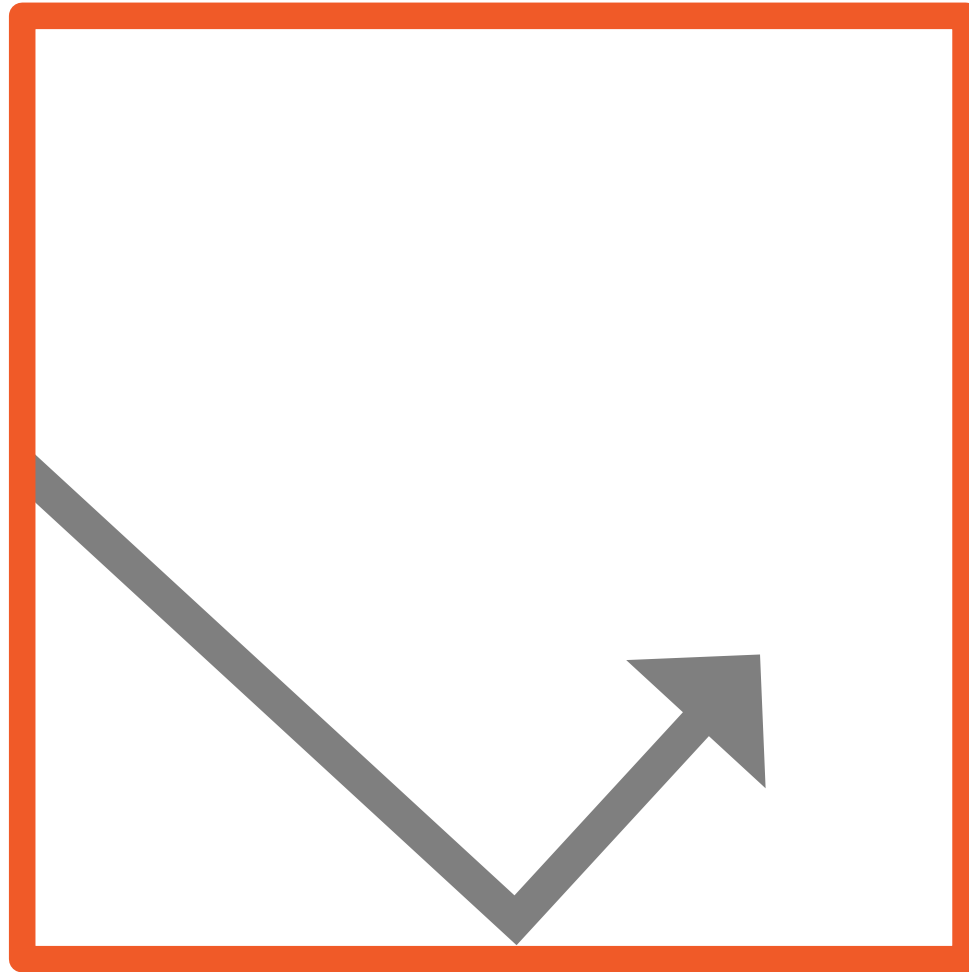




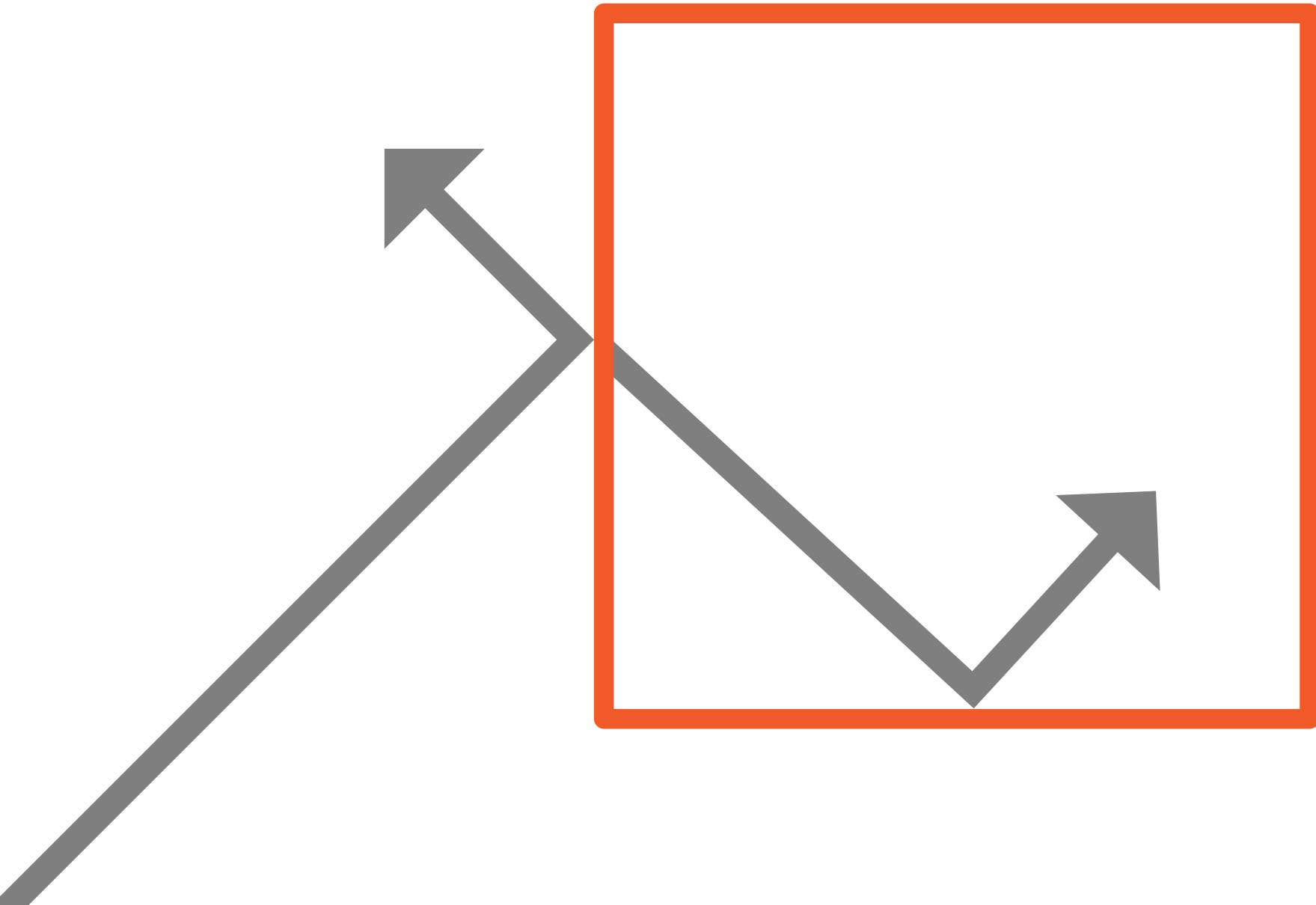
COMPONENT



COMPONENT



COMPONENT



## Modal Header



[Redacted]

[Redacted]



OK



## Modal Header



Form content area with three input fields:

- Short horizontal input field
- Long horizontal input field
- Short horizontal input field
- Long horizontal input field
- Small square input field

← CONTENT



OK



## My Menu

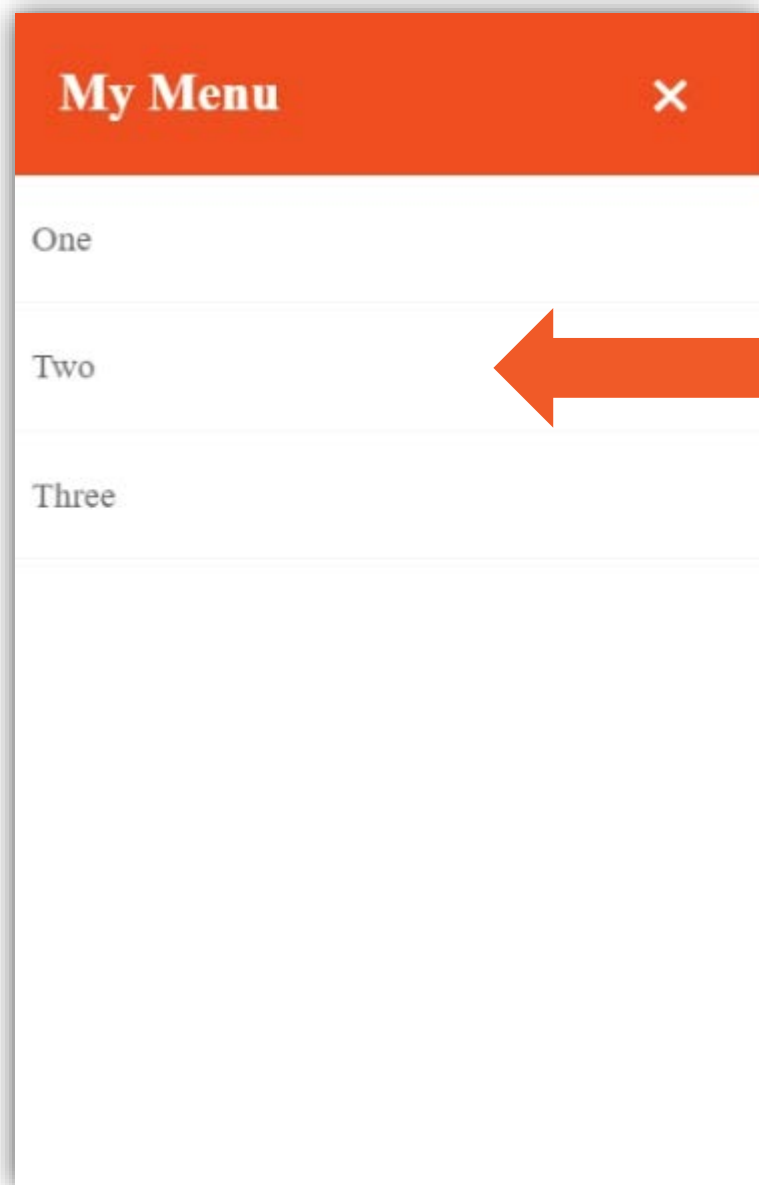


One

Two

Three





CONTENT



index.html

```
<rw-slide-menu>
```

```
  <a href="#">One</a>
```

```
  <a href="#">Two</a>
```

```
  <a href="#">Three</a>
```

```
</rw-slide-menu>
```





index.html

```
<rw-slide-menu>
```

```
<a href="#">One</a>
```

```
<a href="#">Two</a>
```

```
<a href="#">Three</a>
```

```
</rw-slide-menu>
```



```
<rw-slide-menu>
```

```
<a href="#">One</a>
```

```
<a href="#">Two</a>
```

```
<a href="#">Three</a>
```

```
</rw-slide-menu>
```

```
▼ <rw-slide-menu id="menu" theme="blue" backdrop="false">
  ▼ #shadow-root (open)
    ▶ <style>...</style>
    ▼ <div class="frame open" data-close="true">
      ▼ <nav class="container">
        ▶ <div class="title">...</div>
        ▼ <div class="content">
          ▼ <slot class="content-slot">
            ↳ <a>
            ↳ <a>
            ↳ <a>
          </slot>
        </div>
      </nav>
    </div>
    <a href="#">One</a>
    <a href="#">Two</a>
    <a href="#">Three</a>
  </rw-slide-menu>
```



```
<rw-slide-menu>
```

```
<a href="#">One</a>
```

```
<a href="#">Two</a>
```

```
<a href="#">Three</a>
```

```
</rw-slide-menu>
```

```
▼ <rw-slide-menu id="menu" theme="blue" backdrop="false">
```

```
▼ #shadow-root (open)
```

```
▶ <style>...</style>
```

```
▼ <div class="frame open" data-close="true">
```

```
▼ <nav class="container">
```

```
▶ <div class="title">...</div>
```

```
▼ <div class="content">
```

```
▼ <slot class="content-slot">
```

```
↳ <a>
```

```
↳ <a>
```

```
↳ <a>
```

```
</slot>
```

```
</div>
```

```
</nav>
```

```
</div>
```

```
<a href="#">One</a>
```

```
<a href="#">Two</a>
```

```
<a href="#">Three</a>
```

```
</rw-slide-menu>
```

# Demo



## Adding Slotted Content

### **Add slots to the template**

- Menu content
- Menu title

### **Add some default style for slotted content**

### **Add default text for the title slot**





```
.content-slot::slotted(a) {  
  color: #999;  
}
```



```
.content-slot::slotted(a) {  
    color: #999;  
}
```

```
.content-slot::slotted(a:hover) {  
    color: red;  
}
```



```
.content-slot::slotted(a) {  
    color: #999;  
}
```

```
.content-slot::slotted(a:hover) {  
    color: red;  
}
```

```
.content-slot::slotted(.item) {  
    background-color: #CCC;  
}
```





```
.content-slot::slotted(a) {  
  color: #999;  
}
```

```
.content-slot::slotted(a:hover) {  
  color: red;  
}
```

```
.content-slot::slotted(.item) {  
  background-color: #CCC;  
}
```



```
.content-slot::slotted(.frame h1) {  
  color: red;  
}
```



```
.content-slot::slotted(a) {  
    color: #999;  
}  
  
.content-slot::slotted(a:hover) {  
    color: red;  
}  
  
.content-slot::slotted(.item) {  
    background-color: #CCC;  
}
```



## Shadow DOM

```
.content-slot::slotted(a) {  
  color: #999;  
}
```

## Light DOM

```
rw-slide-menu a {  
  color: red;  
}
```



## Shadow DOM

```
.content-slot::slotted(a) {  
  color: #999;  
}
```



## Light DOM

```
rw-slide-menu a {  
  color: red;  
}
```



index.html

```
<rw-slide-menu>  
  <a href="#">One</a>  
  <a href="#">Two</a>  
  <a href="#">Three</a>  
</rw-slide-menu>
```

rw-slide-menu.js

```
<div class="content">  
  <slot></slot>  
</div>
```



index.html

```
<rw-slide-menu>
```

```
<a href="#">One</a>
```

```
<a href="#">Two</a>
```

```
<a href="#">Three</a>
```

```
</rw-slide-menu>
```

rw-slide-menu.js

```
<div class="content">
```

```
<slot></slot>
```


```
</div>
```



index.html

```
<rw-slide-menu>
```

```
<a href="#">One</a>  
<a href="#">Two</a>  
<a href="#">Three</a>
```



```
</rw-slide-menu>
```

rw-slide-menu.js

```
<div class="title-content">
```

```
<slot></slot>
```

```
</div>
```

```
<div class="content">
```

```
<slot></slot>
```

```
</div>
```



# Summary



Built a slide-out menu Web Component  
step-by-step

Used the `:host` selector to add themes to  
the component

Learnt about the `:host-context` selector

Introduced to the slotting capability

- Default slot
- Named slots

Shown how to add default slot style with  
the `::slotted` selector

