Navigation by Tabs, Pills, and with Dropdown in Bootstrap 4

Tabs

Tabs are a navigational component that switches between different views within the same window. They are commonly used to break up content into multiple sections that can be easily navigated without leaving the page.

Basic Tabs Example:

```
<ul class="nav nav-tabs" id="myTab" role="tablist">
 <li class="nav-item">
  <a class="nav-link active" id="home-tab" data-toggle="tab" href="#home" role="tab" aria-controls="home" aria-selected="true">Home</a>
 </li>
 <li class="nav-item">
  <a class="nav-link" id="profile-tab" data-toggle="tab" href="#profile" role="tab" aria-controls="profile" aria-selected="false">Profile</a>
 </li>
 <li class="nav-item">
  <a class="nav-link" id="contact-tab" data-toggle="tab" href="#contact" role="tab" aria-controls="contact" aria-selected="false">Contact</a>
 </li>
</ul>
<div class="tab-content" id="myTabContent">
 <div class="tab-pane fade show active" id="home" role="tabpanel" aria-labelledby="home-tab">Home content...</div>
 <div class="tab-pane fade" id="profile" role="tabpanel" aria-labelledby="profile-tab">Profile content...</div>
 <div class="tab-pane fade" id="contact" role="tabpanel" aria-labelledby="contact-tab">Contact content...</div>
</div>
```

Pills

Pills are similar to tabs but have a different visual style. They are typically used for the same purpose as tabs but with rounded edges.

Basic Pills Example:

```
<ul class="nav nav-pills" id="myPills" role="tablist">
 <li class="nav-item">
```

```html
    <a class="nav-link active" id="home-tab" data-toggle="pill" href="#home" role="tab" aria-controls="home" aria-selected="true">Home</a>
  </li>
  <li class="nav-item">
    <a class="nav-link" id="profile-tab" data-toggle="pill" href="#profile" role="tab" aria-controls="profile" aria-selected="false">Profile</a>
  </li>
  <li class="nav-item">
    <a class="nav-link" id="contact-tab" data-toggle="pill" href="#contact" role="tab" aria-controls="contact" aria-selected="false">Contact</a>
  </li>
</ul>
<div class="tab-content" id="myPillsContent">
  <div class="tab-pane fade show active" id="home" role="tabpanel" aria-labelledby="home-tab">Home content...</div>
  <div class="tab-pane fade" id="profile" role="tabpanel" aria-labelledby="profile-tab">Profile content...</div>
  <div class="tab-pane fade" id="contact" role="tabpanel" aria-labelledby="contact-tab">Contact content...</div>
</div>
```

Dropdown

Dropdowns can be used within tabs or pills to offer more complex navigation options. They are particularly useful for menus that require additional submenus.

Tabs with Dropdown Example:

```html
<ul class="nav nav-tabs" id="myTabWithDropdown" role="tablist">
  <li class="nav-item">
    <a class="nav-link active" id="home-tab" data-toggle="tab" href="#home" role="tab" aria-controls="home" aria-selected="true">Home</a>
  </li>
  <li class="nav-item dropdown">
    <a class="nav-link dropdown-toggle" id="navbarDropdown" role="button" data-toggle="dropdown" aria-haspopup="true" aria-expanded="false">
      Dropdown
    </a>
    <div class="dropdown-menu" aria-labelledby="navbarDropdown">
      <a class="dropdown-item" id="dropdown1-tab" data-toggle="tab" href="#dropdown1" role="tab" aria-controls="dropdown1" aria-selected="false">Dropdown 1</a>
      <a class="dropdown-item" id="dropdown2-tab" data-toggle="tab" href="#dropdown2" role="tab" aria-controls="dropdown2" aria-selected="false">Dropdown 2</a>
```

```
      </div>
    </li>
    <li class="nav-item">
      <a class="nav-link" id="contact-tab" data-toggle="tab" href="#contact" role="tab" aria-
controls="contact" aria-selected="false">Contact</a>
    </li>
  </ul>
  <div class="tab-content" id="myTabWithDropdownContent">
    <div class="tab-pane fade show active" id="home" role="tabpanel" aria-labelledby="home-
tab">Home content...</div>
    <div class="tab-pane fade" id="dropdown1" role="tabpanel" aria-labelledby="dropdown1-
tab">Dropdown 1 content...</div>
    <div class="tab-pane fade" id="dropdown2" role="tabpanel" aria-labelledby="dropdown2-
tab">Dropdown 2 content...</div>
    <div class="tab-pane fade" id="contact" role="tabpanel" aria-labelledby="contact-
tab">Contact content...</div>
  </div>
```

Implementation Tips

1. Consistency: Ensure a consistent user experience by maintaining the same design and interaction patterns across your navigation components.
2. Accessibility: Use appropriate ARIA attributes to enhance accessibility, making sure users with disabilities can navigate through the tabs, pills, and dropdowns effectively.
3. JavaScript: Bootstrap's JavaScript plugins are required for tabs, pills, and dropdowns to function correctly. Make sure to include Bootstrap's JS file and its dependencies (jQuery and Popper.js).