

Labels in Bootstrap 4

In Bootstrap 4, labels are used primarily for forms to provide a textual description for form elements like inputs, checkboxes, radios, and other form controls. Labels are essential for accessibility as they link the textual description with the form control it describes. Here's a detailed overview of how labels work in Bootstrap 4:

Basic Usage

To create a label, you use the `<label>` element, which can be associated with a form control by setting the `for` attribute to match the `id` of the form control.

```
<div class="form-group">
  <label for="exampleInputEmail1">Email address</label>
  <input type="email" class="form-control" id="exampleInputEmail1" aria-
describedby="emailHelp" placeholder="Enter email">
</div>
```

Inline Form Labels

In inline forms, labels are typically placed alongside the form controls. Bootstrap provides classes to manage the spacing and alignment in inline forms.

```
<form class="form-inline">
  <label class="sr-only" for="inlineFormInputName2">Name</label>
  <input type="text" class="form-control mb-2 mr-sm-2" id="inlineFormInputName2"
placeholder="Jane Doe">

  <label class="sr-only" for="inlineFormInputGroupUsername2">Username</label>
  <div class="input-group mb-2 mr-sm-2">
    <div class="input-group-prepend">
      <div class="input-group-text">@</div>
    </div>
    <input type="text" class="form-control" id="inlineFormInputGroupUsername2"
placeholder="Username">
  </div>

  <button type="submit" class="btn btn-primary mb-2">Submit</button>
</form>
```

Horizontal Form Labels

In horizontal forms, labels and form controls are aligned side-by-side for a more compact view. This requires a bit more structure with the use of grid classes.

```
<form>
  <div class="form-group row">
```

```

<label for="inputEmail3" class="col-sm-2 col-form-label">Email</label>
<div class="col-sm-10">
  <input type="email" class="form-control" id="inputEmail3" placeholder="Email">
</div>
</div>
<div class="form-group row">
  <label for="inputPassword3" class="col-sm-2 col-form-label">Password</label>
  <div class="col-sm-10">
    <input type="password" class="form-control" id="inputPassword3"
placeholder="Password">
  </div>
</div>
<div class="form-group row">
  <div class="col-sm-10 offset-sm-2">
    <button type="submit" class="btn btn-primary">Sign in</button>
  </div>
</div>
</form>

```

Accessibility

Labels are crucial for accessibility, and it's important to ensure that every form control has a corresponding label. Using the `for` attribute on the `<label>` tag to link to the `id` of the form control is a common practice to achieve this.

Sizing and Spacing

Bootstrap provides utility classes for sizing and spacing that can be applied to labels to adjust their appearance.

```

<div class="form-group">
  <label for="exampleInputEmail1" class="font-weight-bold">Email address</label>
  <input type="email" class="form-control" id="exampleInputEmail1" aria-
describedby="emailHelp" placeholder="Enter email">
</div>

```

Custom Forms

For custom forms, such as those using custom checkboxes, radios, and switches, labels are also used to provide descriptive text. Bootstrap provides specific classes for these elements.

```

<div class="custom-control custom-checkbox">
  <input type="checkbox" class="custom-control-input" id="customCheck1">
  <label class="custom-control-label" for="customCheck1">Check this custom
checkbox</label>
</div>

```

Summary

Labels in Bootstrap 4 are essential for building accessible and user-friendly forms. They ensure that users understand the purpose of each form control and enhance the overall user experience. Bootstrap's utility classes and grid system provide flexible options for styling and aligning labels with their respective form controls.