Unit 06: Navigability Elements

CONTENTS
Objectives
Introduction
6.1   Pagination
6.2   Labels and Badges
6.3   Typography
Summary
Keywords
Self Assessment
Answers for Self Assessment
Review Questions
Further Readings

Objectives

After studying this unit, you will be able to:

- Understand pagination
- Design labels and badges
- Create and understand typography using bootstrap

Introduction

Bootstrap pagination is a component used to indicate the existence of a series of related content across multiple pages and enables navigation across them.

Not all sites can have all their information on a single page. Websites may need to use multiple pages for easier navigation, better user experience, buyers' journey, persona, etc. A good example here would be e-commerce sites. It would be impractical to have a site like Amazon list all of its products in one category on one page. Sometimes, a product's images and descriptions could also be split across multiple pages if needed.

6.1   Pagination

Bootstrap pagination is a component used to indicate the existence of a series of related content across multiple pages and enables navigation across them.

We use a large block of connected links for our pagination, making links hard to miss and easily scalable—all while providing large hit areas. Pagination is built with a list of HTML elements so screen readers can announce the number of available links. You can use a wrapping <nav> element to identify it as a navigation section to screen readers and other assistive technologies.

Did you Know?

Pagination is a sequence of pages that are connected and have similar content.

Example

To create a basic pagination, add the .pagination class to an ul element:

```
<nav aria-label="Page navigation example">
<ul class="pagination pg-blue">
<li class="page-item"><a class="page-link">Previous</a></li>
<li class="page-item"><a class="page-link">1</a></li>
<li class="page-item"><a class="page-link">2</a></li>
<li class="page-item"><a class="page-link">3</a></li>
<li class="page-item"><a class="page-link">Next</a></li>
</ul>
</nav>
```


6.2   Labels and Badges

Bootstrap labels are used to specify additional information about something like offering counts, tips, or other makeup for pages.

The class .label is used to display the labels.

Example

```
<!DOCTYPE html>
<html lang="en">
<head>
<title>Bootstrap Example</title>
<meta charset="utf-8">
<meta name="viewport" content="width=device-width, initial-scale=1">
<link                                                       rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.1/dist/css/bootstrap.min.css">
<script src="https://cdn.jsdelivr.net/npm/jquery@3.6.0/dist/jquery.slim.min.js"></script>
<script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"></script>
<script
src="https://cdn.jsdelivr.net/npm/bootstrap@4.6.1/dist/js/bootstrap.bundle.min.js"></script>
</head>
<body>
<div class="container">
<h2>Labels Example</h2>
```

```
<h1>This is Lable<span class="label label-default">New</span></h1>
<h2>This is Lable<span class="label label-default">New</span></h2>
<h3>This is Lable<span class="label label-default">New</span></h3>
<h4>This is Lable<span class="label label-default">New</span></h4>
<h5>This is Lable<span class="label label-default">New</span></h5>
<h6>This is Lable<span class="label label-default">New</span></h6>
</div>


</body>
</body>
</html>
```
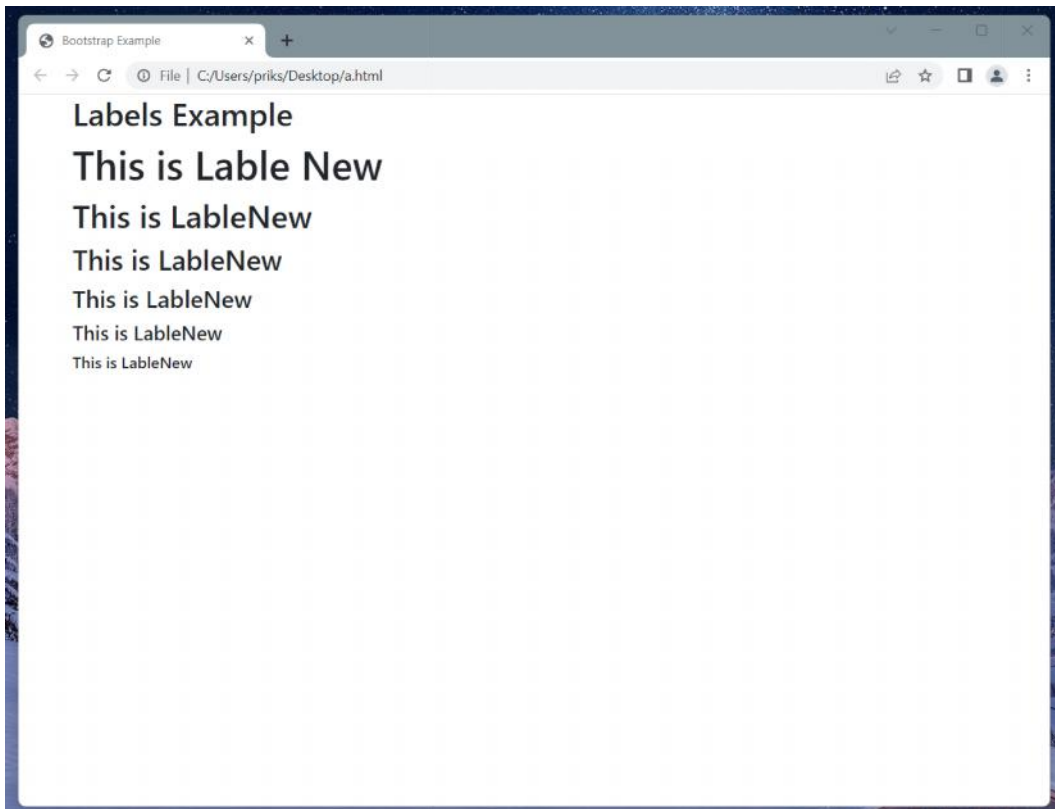
Output

Example

Bootstrap Contextual Label

```
<!DOCTYPE html>
<html lang="en">
<head>
<title>Bootstrap Contextual Label</title>
<meta charset="utf-8">
```

```
<meta name="viewport" content="width=device-width, initial-scale=1">
<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.6/css/bootstrap.min.css">

</head>
<body>

<div class="container">
<h2>Contextual Label Classes</h2>
<span class="label label-default">Default Label</span>
<span class="label label-primary">Primary Label</span>
<span class="label label-success">Success Label</span>
<span class="label label-info">Info Label</span>
<span class="label label-warning">Warning Label</span>
<span class="label label-danger">Danger Label</span>
</div>

<script src="https://ajax.googleapis.com/ajax/libs/jquery/1.12.0/jquery.min.js"></script>
<script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.6/js/bootstrap.min.js"></script>

</body>
</html>
```
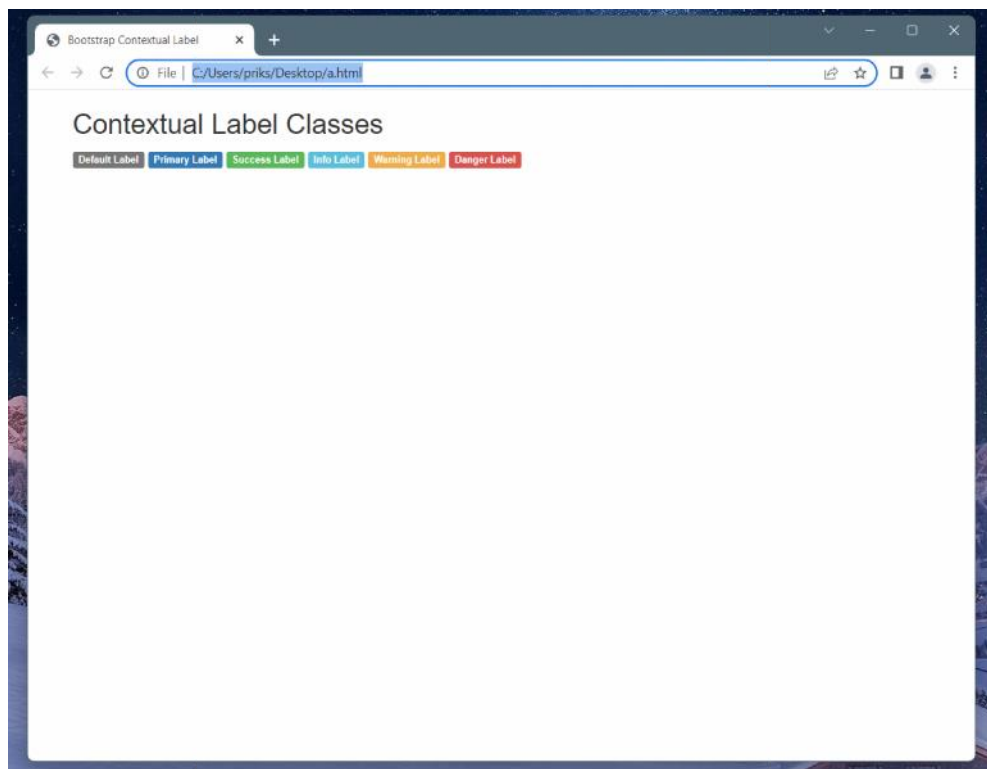
Bootstrap Badges are numerical indicators used to show how many items are associated with a specific link. Badges are used to highlight new or unread items.

The class .badge within the <span> element is used to create badges.

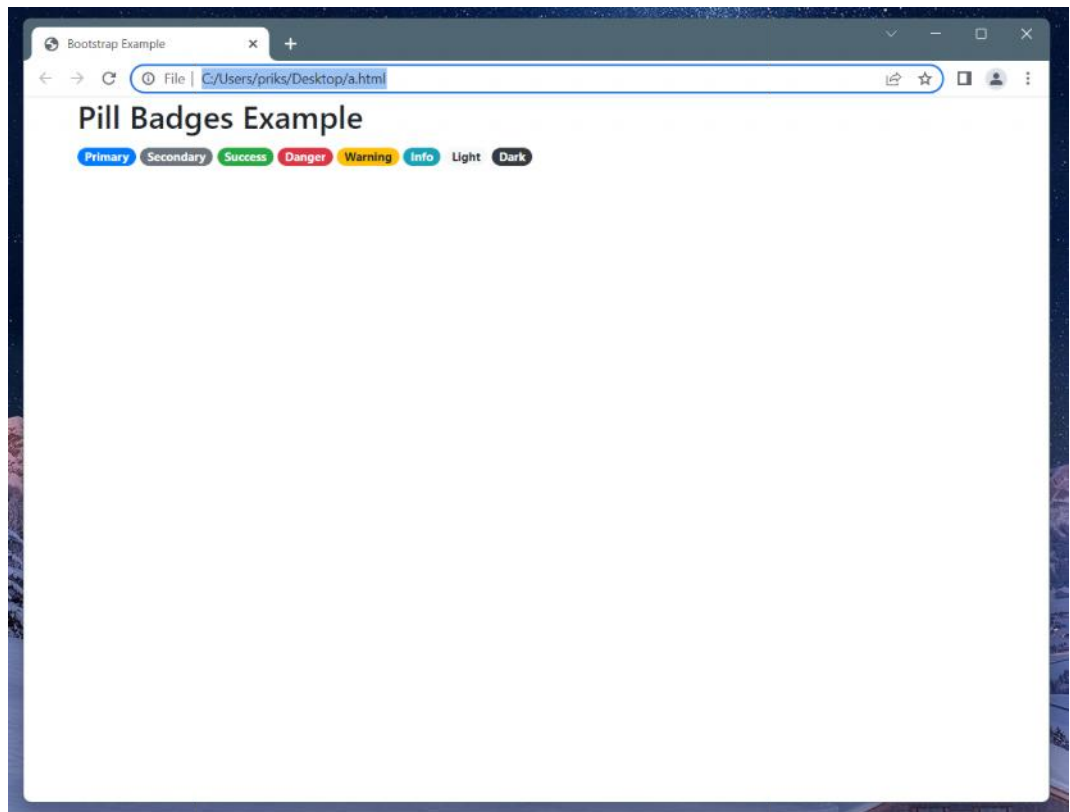Pill badges are used to make the badges more round. Use the class .badge-pill class to add pill badges.

Example

Pill Badges Example

```
<!DOCTYPE html>
<html lang="en">
<head>
<title>Bootstrap Example</title>
<meta charset="utf-8">
<meta name="viewport" content="width=device-width, initial-scale=1">
<link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.1/dist/css/bootstrap.min.css">
<script src="https://cdn.jsdelivr.net/npm/jquery@3.6.0/dist/jquery.slim.min.js"></script>
<script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"></script>
<script src="https://cdn.jsdelivr.net/npm/bootstrap@4.6.1/dist/js/bootstrap.bundle.min.js"></script>
</head>
<body>
<body>
<div class="container">
<h2>Pill Badges Example</h2>
<span class="badge badge-pill badge-primary">Primary</span>
<span class="badge badge-pill badge-secondary">Secondary</span>
<span class="badge badge-pill badge-success">Success</span>
<span class="badge badge-pill badge-danger">Danger</span>
<span class="badge badge-pill badge-warning">Warning</span>
<span class="badge badge-pill badge-info">Info</span>
<span class="badge badge-pill badge-light">Light</span>
<span class="badge badge-pill badge-dark">Dark</span>
</div>

</body>
</body>
</html>
```

Output

6.3   Typography

Typography is one of the latest features of bootstrap. It's especially used for styling and formatting text elements. Using the typography feature of bootstrap, someone can create headings, paragraphs, some other inline elements, and lists. Basically bootstrap uses 1rem (16px) as font size including line-height remains 5. By default, font families used by bootstrap are sans-serif, Arial; it sets how the contents should display on the body, background color on the body, uses font size and line height to create margins, paddings, etc.

Features of Bootstrap Typography

Headings

Code: -

<h1>Bootstrap Heading</h1> displayed in font-size

<h2>Bootstrap Heading</h2> displayed in font-size

<h3>Bootstrap Heading</h3> displayed in font-size

Responsive Headings

Responsive headings are one of the best things one can design using typography. These are the elements in which text gets adjusted automatically by using class responsive as per device size. So one can easily see the same text in an appropriate way on different devices.

Just add class responsive in your header tag as follows:

        <h5 class="h5-responsive"> Responsive Header</h5>

<small>

This tag is used to create lighter, smaller, secondary text in your heading. By default, it sets to 85% of the size of the parent heading.

<h5>Example heading <small>secondary text</small></h5>

<mark>

This tag is used to highlight text.

<h2>Bootstrap Typography</h2>

<p>This is used to <mark>highlight</mark> text.</p>

<abbr>

This tag is used to mark an abbreviation. Abbreviations have a default underline and gain a help cursor to provide additional context on hover and to users of assistive technologies.

<p>There are so many countries in the world.<abbr>India</abbr>is the best country</p>

<del>

Indicates deleted text

<p>This tag is used to show ~~deleted text~~.</p>

<blockquote>

<h1>Blockquotes</h1>

<p>The blockquote element is used to present content from another source:</p>

<blockquote>

<p>Very little is needed to make a happy life; it is all within yourself, in your way of thinking.Life is like playing a violin in public and learning the instrument as one goes on. </p></blockquote>

<dl>

This tag is used to display a description list.

<p>The dl element indicates a description list:</p>

<dl>

<dt>Bread</dt>

<dd>- White</dd>

<dd>- Brown</dd>

<dt>Cold Drinks</dt>

<dd>- Pepsi</dd>

</dl>

<code>

<p>The following HTML elements: <code>span</code>, <code>section</code>, and <code>div</code> defines a section in a document.</p>

Contextual Colors

This is nothing but a different class that is used to convey meaning using different colors. It's having different classes like .text-muted, .text-info, .text-primary, .text-success, .text-warning , .text-danger.

Example

<p>Use the contextual classes to provide "meaning through colors":</p>

<p class="text-muted">This text is muted.</p>

<p class="text-primary">This text is important.</p>

<p class="text-success">This text indicates success.</p>

<p class="text-info">This text represents some information.</p>

<p class="text-warning">This text represents a warning.</p>

<p class="text-danger">This text represents danger.</p>

Summary

- Most of web designers prefer to use bootstrap typography for a better look and feel of text format.
- Bootstrap Typography is customized in a simple manner to present attractively to the end-user.
- Bootstrap uses Helvetica Neue, Helvetica, Arial, and sans-serif in its default font stack.
- Using the typography feature of Bootstrap you can create headings, paragraphs, lists and other inline elements.

Keywords

Navbar : A navigation bar (or navigation system) is a section of a graphical user interface intended to aid visitors in accessing information. Navigation bars are implemented in file browsers, web browsers and as a design element of some web sites.

Breadcrumb Navigation : Breadcrumbs are a secondary navigation aid that helps users easily understand the relation between their location on a page (like a product page) and higher level pages (a category page, for instance).

Pagination : Bootstrap pagination is a component used to indicate the existence of a series of related content across multiple pages and enables navigation across them.

Self Assessment

1. The advantage of pages in paging is
A. no logical relation with program
B. no need of entire segment of task in physical memory
C. reduction of memory requirement for task
D. all of the mentioned

2. The size of the pages in the paging scheme is
A. Variable
B. Fixed
C. both variable and fixed
D. none

3. Bootstrap's grid system allows up to _____ columns across the page.

A. 12

B. 13

C. 14

D. 11

4. How many Container class are there in Bootstrap?

A. 1

B. 2

C. 3

D. 4

5. Which class is used for creating pagination?

A. Page

B. Pager

C. Pagination

D. Link-pagination

6. Bootstrap is a free front-end framework.

A. True

B. False

7. Documentation and examples for showing _____ to indicate a series of related content exists across multiple pages.

A. Pagination

B. Margin

C. Table

D. List

8. Use. disabled for links that appear un-clickable and .active to indicate the current page.

A. True

B. False

9. Add .pagination-lg or .pagination-sm for additional sizes large and small respectively.

A. True

B. False

10. _____ modifier class to make badges more rounded.

A. .badge-pill

B. .bag

C. .lable-lg

D. .badges

11. Which of the following is not part of the responsive heading?

A. <small>

B. <mark>

C. <del>

D. <nav>

12. _____ is especially used for styling and formatting text elements.

A. Typography

B. Navigation

C. Pagination

D. Lists

13. Headings and responsive headings both are the features of typography.

A. True

B. False

14. The class _____ is used to display the labels.

A. .class

B. .lable

C. .nav

D. .heading

15. Pagination is a _____ of pages that are connected and have similar content.

A. Sequence

B. Matter

C. Class

D. Stack

Answers for Self Assessment

l.	D	2.	B	3.	A	4.	B	5.	C
6.	A	7.	A	8.	A	9.	A	10.	A
11.	D	12.	A	13.	A	14.	B	15.	A

Review Questions

1. What do you mean by labels and badges in bootstrap? Explain with a suitable example.
2. How is pagination done using bootstrap? Comment.
3. Explain the following with a suitable example.
    i. Badges
    ii. Pagination
4. Why do we need pagination on the website? Comment.
5. Explain the difference between label and badges.

Further Readings

Bootstrap by Example, Silvio MoratoLearning Bootstrap 4, Matt Lambart

Bootstrap in 24 Hours, By SamsJump Start Bootstrap,

Web Links

https://getbootstrap.com/docs/4.1/layout/overview/

https://getbootstrap.com/docs/4.1/layout/grid/