

# Bootstrap Navigation

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# Navbar

LINK 1 LINK 2 LINK 3 LINK 4 LINK 5



0302-precoded-navbar-start.html

```
7
8  <!-- Bootstrap CSS -->
9  <link rel="stylesheet"
10 <!-->
11 <!-->
```

10 <!-->

```
11 <title>Bootstrap Precoded Navbar</title>
```



LINK1 LINK2 LINK3 LINK4 LINK5

Navbar

0303-handcoding-navbar-start.html (0303-start) — Brackets

```
Working Files
0303-han
0303-start
.DS_Store
0303-handc
▶ img
27 ▼ <nav class="navbar navbar-expand-lg navbar-dark fixed-top" id="mainNav">
28 ▼   <div class="container">
29     <a class="navbar-brand js-scroll-trigger" href="#top">Navbar</a>
30     <button class="navbar-toggler navbar-toggler-right" type="button" data-toggle="collapse" data-
target="#navbarResponsive" aria-controls="navbarResponsive" aria-expanded="false" aria-
label="Toggle Navigation">Menu <i class="fa fa-bars"></i></button>
31 ▼   <div class="collapse navbar-collapse" id="navbarResponsive">
32 ▼     <ul class="navbar-nav text-uppercase ml-auto" >
33       <li class="nav-item"><a class="nav-link js-scroll-trigger" href="#link1">Link1</a></li>
34       <li class="nav-item"><a class="nav-link js-scroll-trigger" href="#link2">Link2</a></li>
35       <li class="nav-item"><a class="nav-link js-scroll-trigger" href="#link3">Link3</a></li>
36       <li class="nav-item"><a class="nav-link js-scroll-trigger" href="#link4">Link4</a></li>
37       <li class="nav-item"><a class="nav-link js-scroll-trigger" href="#link5">Link5</a></li>
38     </ul>
```

Brackets File Edit Find View Navigate Emmet Window Debug Help

0304-aria-and-data-definitions.html (0304-start) — Brackets

```
20         background-size: cover;
21         width: 100vw;
22         height: 100vh;
23     }
24     </style>
25   </head>
26   <body id="top">
27     <nav class="navbar navbar-expand-lg navbar-dark fixed-top" id="mainNav">
28       <div class="container">
29         <a class="navbar-brand js-scroll-trigger" href="#top">Navbar</a>
30         <button class="navbar-toggler navbar-toggler-right" type="button" data-
31           toggle="collapse" data-target="#navbarResponsive" aria-controls="navbarResponsive"
32           aria-expanded="false" aria-label="Toggle Navigation">Menu <i class="fa fa-bars"></i>
33         </button>
34         <div class="collapse navbar-collapse" id="navbarResponsive">
35           <ul class="navbar-nav text-uppercase ml-auto" >
36             <li class="nav-item"><a class="nav-link js-scroll-trigger"
37               href="#link1">Link1</a></li>
38             <li class="nav-item"><a class="nav-link js-scroll-trigger"
39               href="#link2">Link2</a></li>
40             <li class="nav-item"><a class="nav-link js-scroll-trigger"
41               href="#link3">Link3</a></li>
42             <li class="nav-item"><a class="nav-link js-scroll-trigger"
43               href="#link4">Link4</a></li>
44             <li class="nav-item"><a class="nav-link js-scroll-trigger"
45               href="#link5">Link5</a></li>
46           </ul>
47         </div>
48       </div>
49     </nav>
50     <header class="masthead">
```

Line 32, Column 60 — 54 Lines

INS UTF-8 ▾ HTML ▾ Spaces: 4



```
avbar-expand-lg navbar-dark fixed-top" id="mainNav">
ainer">
vbar-brand js-scroll-trigger" href="#top">Navbar</a>
s="navbar-toggler navbar-toggler-right" type="button" data-
apse" data-target="#navbarResponsive" aria-
vbarResponsive" aria-expanded="false" aria-label="Toggle
Menu <i class="fa fa-bars"></i></button>
collapse navbar-collapse" id="navbarResponsive">
s="navbar-nav text-uppercase ml-auto" >

li class="navbar-item dropdown">
<a class="nav-link dropdown-toggle" href="#" 
id="navDropdown" role="button" data-toggle="dropdown"
aria-haspopup="true" aria-expanded="false">Dropdown</a>
<div class="dropdown-menu" aria-labelledby="navDropdown">
```

INS    UTF-8 ▾    HTML ▾    ○    Spaces: 4

Working Files



• 0306-Other Navigation.html

0306-start ▾

.DS\_Store

0306-Other Navigation.html

▶ img

```
56 ▼      <div class="container">
57          <div class="intro-text"></div>
58      </div>
59  </header>
60
61 ▼      <div class="container m-5">
62
63 ▼          <ul class="nav nav-pills nav-fill">
64 ▼              <li class="nav-item dropdown">
65                  <a href="#" class="nav-link dropdown-toggle" data-
66                      toggle="dropdown">Hearts Dropdown</a>
66 ▼ <div class="dropdown-menu">
67      <a href="" class="dropdown-item">The Queen</a>
68      <a href="" class="dropdown-item">The King</a>
```

Other Navigation

← → ⌛ ① 127.0.0.1:55910/0306-Other%20Navigation.html#



Navbar

DROPDOWN ▾ LINK1 LINK2 LINK3 LINK4 LINK5

 The Queen  
The King  
The Jack

Hearts Dropdown ▾

Alice

The Hatter

Dormouse

March Hare

Dinah

```
16      background-image: url('img/header-bg.jpg');
17      background-repeat: no-repeat;
18      background-attachment: scroll;
19      background-position: center center;
20      background-size: cover;
21      width: 100vw;
22      height: 100vh;
23  }
24  
```

</style>

```
25  
```

</head>

```
26 ▼ <body id="top">
27 ▼ <nav class="navbar navbar-expand-lg navbar-dark fixed-top bg-primary" id="mainNav">
28 ▼   <div class="container">
29     <a class="navbar-brand js-scroll-trigger" href="#top">Navbar</a>
30     <button class="navbar-toggler navbar-toggler-right" type="button" data-toggle="collapse" data-
31       target="#navbarResponsive" aria-controls="navbarResponsive" aria-expanded="false" aria-label="Toggle
Navigation">Menu <i class="fa fa-bars"></i></button>
31 ▼   <div class="collapse navbar-collapse" id="navbarResponsive">
```

Line 27, Column 69 — 89 Lines

INS UTF-8 ▾ HTML ▾ Spaces: 4

Navbar

DROPDOWN ▾ LINK1 LINK2 LINK3 LINK4 LINK5



```
23      }
24    </style>
```

Navbar Search Box

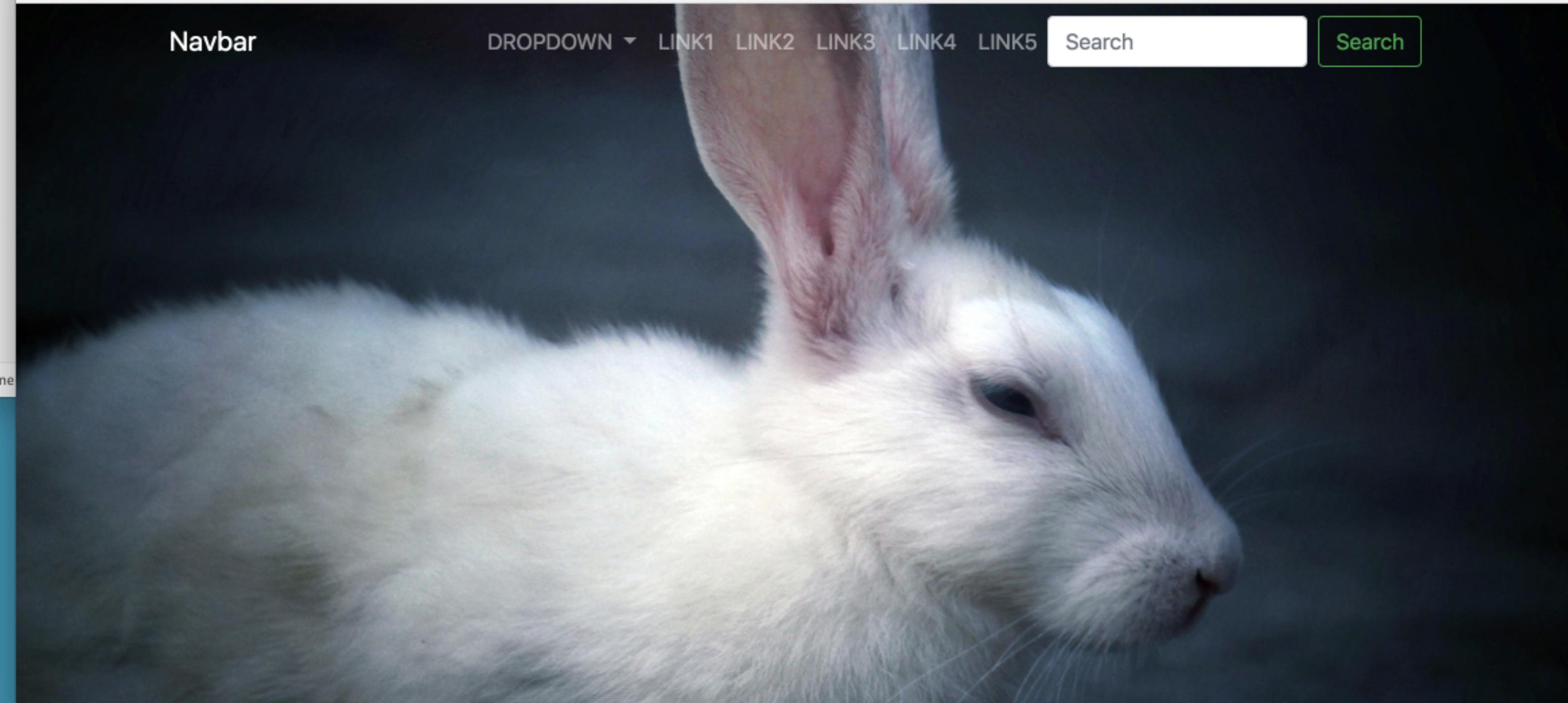
← → C ① 127.0.0.1:58500/0308-search-box.html

Navbar

DROPDOWN ▾ LINK1 LINK2 LINK3 LINK4 LINK5

Search

Search



Working Files



```
53      </div>
54  </nav>
55  <header class="masthead">
56  <div class="container">
57    <div class="intro-text"></div>
58  </div>
59  </header>
60
61  <div class="container m-5">
62
63  <nav aria-label="breadcrumb">
64  <ol class="breadcrumb">
65    <li class="breadcrumb-item"><a href="#">Home</a></li>
66    <li class="breadcrumb-item"><a href="#">Alice in Wonderland</a></li>
67    <li class="breadcrumb-item"><a href="#">All Chapters</a></li>
68    <li class="breadcrumb-item active" aria-current="page">Chapter 7: A Mad
        Tea-Party</li>
69  </ol>
70</div>
```

Line 69, Column 19 — 81 Lines

INS UTF-8 ▾ HTML ▾ ○ Spaces: 4

```
64 <nav aria-label="Chapter Links">
65   <ul class="pagination pagination-lg">
66     <li class="page-item disabled">
67       <a class="page-link" href="#" aria-label="Previous">
68         <span aria-hidden="true">&laquo;</span>
69         <span class="sr-only">Previous</span>
70       </a>
71     </li>
72     <li class="page-item active"><a class="page-link" href="#">1</a></li>
73     <li class="page-item"><a class="page-link" href="#">2</a></li>
74     <li class="page-item"><a class="page-link" href="#">3</a></li>
75     <li class="page-item">
76       <a class="page-link" href="#" aria-label="Next">
77         <span aria-hidden="true">&raquo;</span>
78         <span class="sr-only">Next</span>
79       </a>
80     </li>
81   </ul>
```

Line 65, Column 52 — 100 Lines

INS UTF-8 ▾ HTML ▾ ○ Spaces: 4

## Chapters



Working File

```
43 ▼      #mainNav .navbar-nav .nav-item .nav-link{  
44          padding: 1.1em 1em !important;  
45      }  
46 ▼      #mainNav .navbar-shrink{  
47          padding-top:0;  
48          padding-bottom: 0;  
49          background-color: black;  
50      }  
51 ▼      #mainNav .navbar-shrink .navbar-brand{  
52          font-size: 1.25em;  
53          padding: 12px 0;  
54      }  
55      }  
56      </style>  
57  </head>  
58 ▼  <body id="top">  
59 ▼  <nav class="navbar navbar-expand-lg navbar-dark fixed-top" id="mainNav">  
60      <a href="#" class="navbar-brand" data-bbox="10 10 100 100">Brackets
```

Line 56, Column 13 — 103 Lines

INS UTF-8 ▾ HTML ▾ Spaces: 4

## Navbar

DROPDOWN ▾ LINK1 LINK2 LINK3 LINK4 LINK5



# WAI-ARIA

*Web Accessibility Initiative - Accessible Rich Internet Applications*

*-MDN Web Docs*

# ARIA

*Accessible Rich Internet Applications* is a set of attributes that define ways to make Web content and Web applications (especially those developed with Ajax, JavaScript and more recent web technologies like Bootstrap) more accessible to people with disabilities.

—MDN Web Docs

## DATA- (whatever)

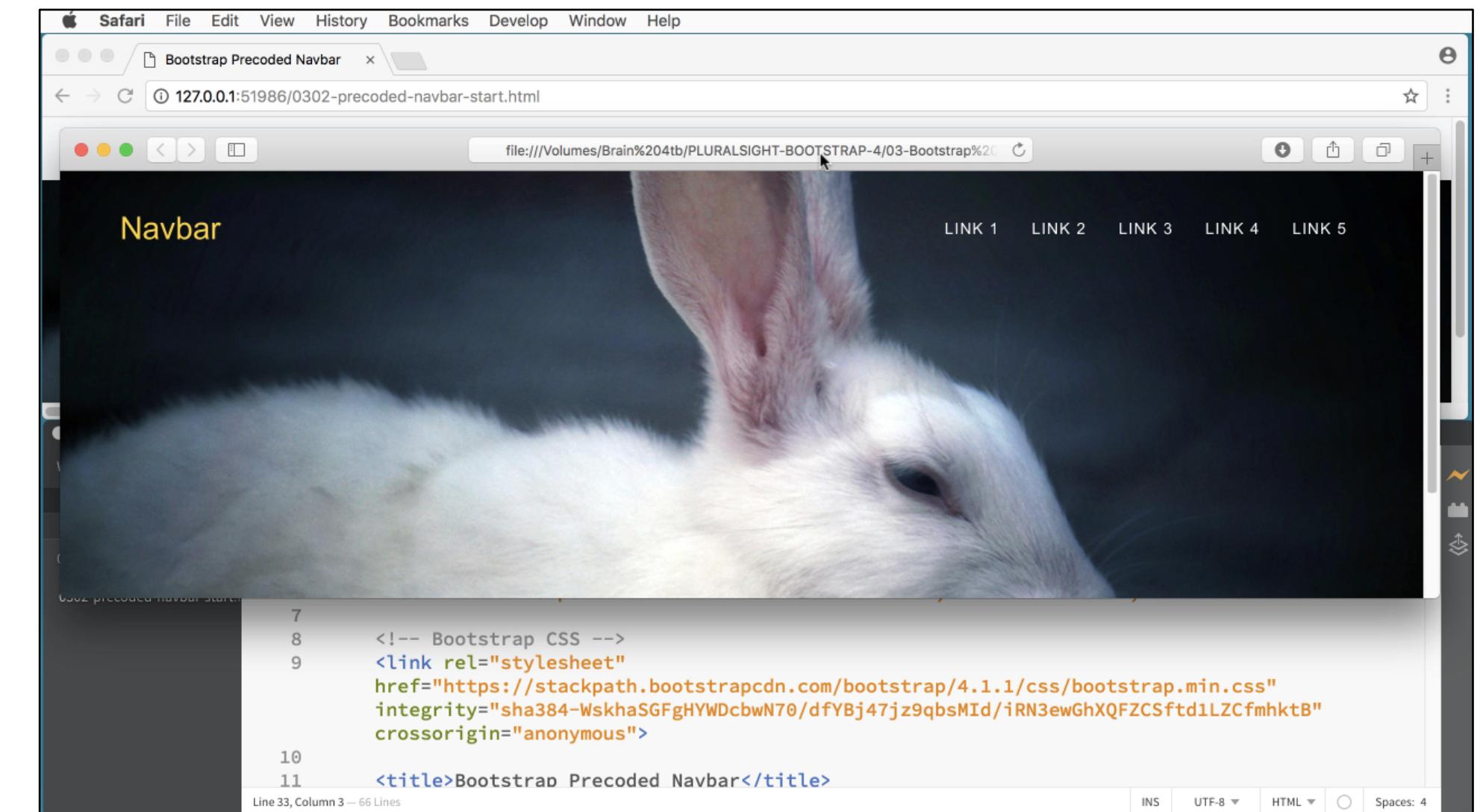
Data-\* attributes allow us to store extra information on standard, semantic HTML elements without other hacks such as non-standard attributes, extra properties on DOM, or Node.setUserData().

*—MDN Web Docs*

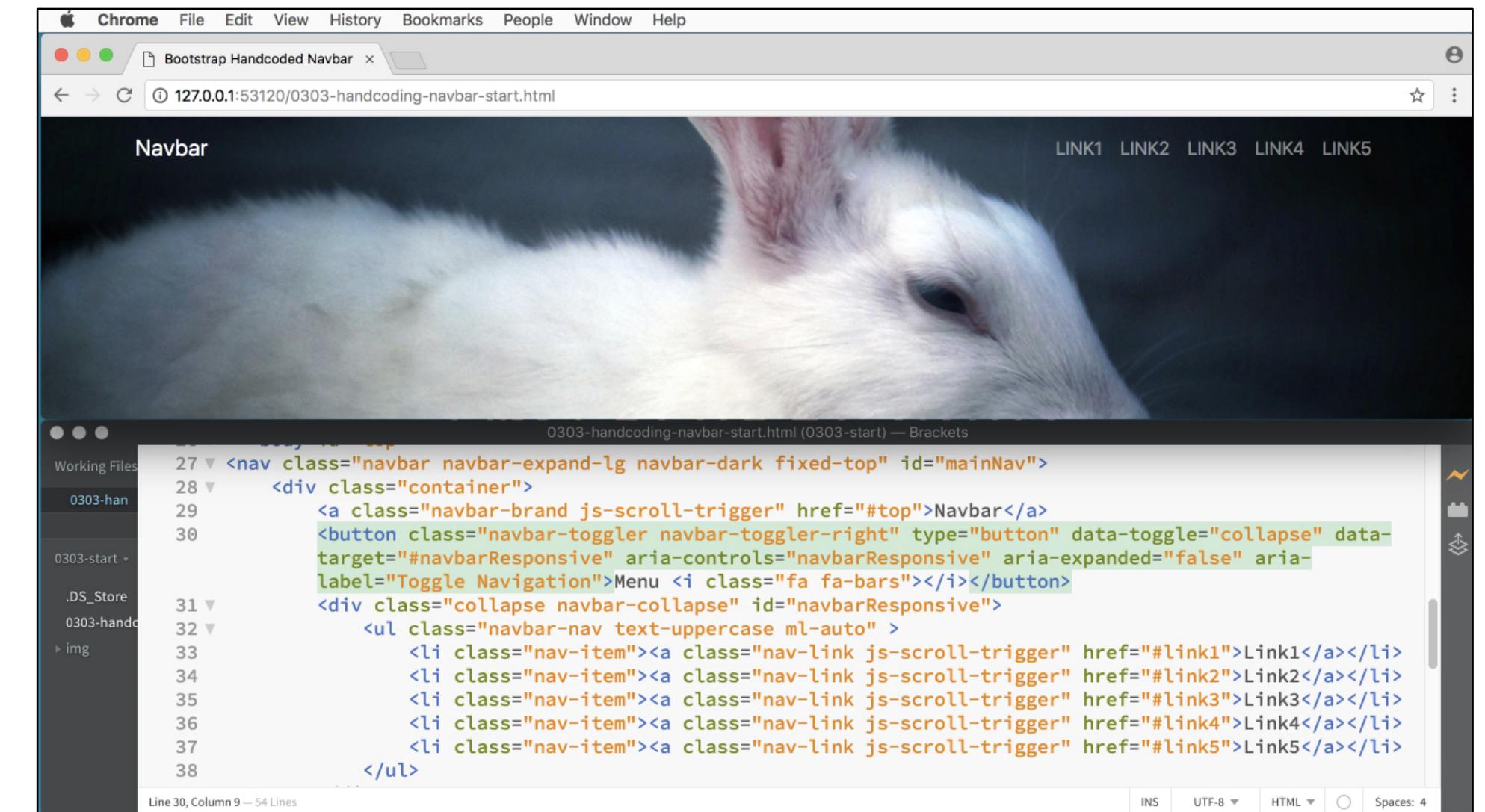
Let's get started.

# Summary

# Summary



# Summary



Chrome File Edit View History Bookmarks People Window Help

Bootstrap Handcoded Navbar

127.0.0.1:53120/0303-handcoding-navbar-start.html

Navbar

LINK1 LINK2 LINK3 LINK4 LINK5

0303-handcoding-navbar-start.html (0303-start) — Brackets

Working Files

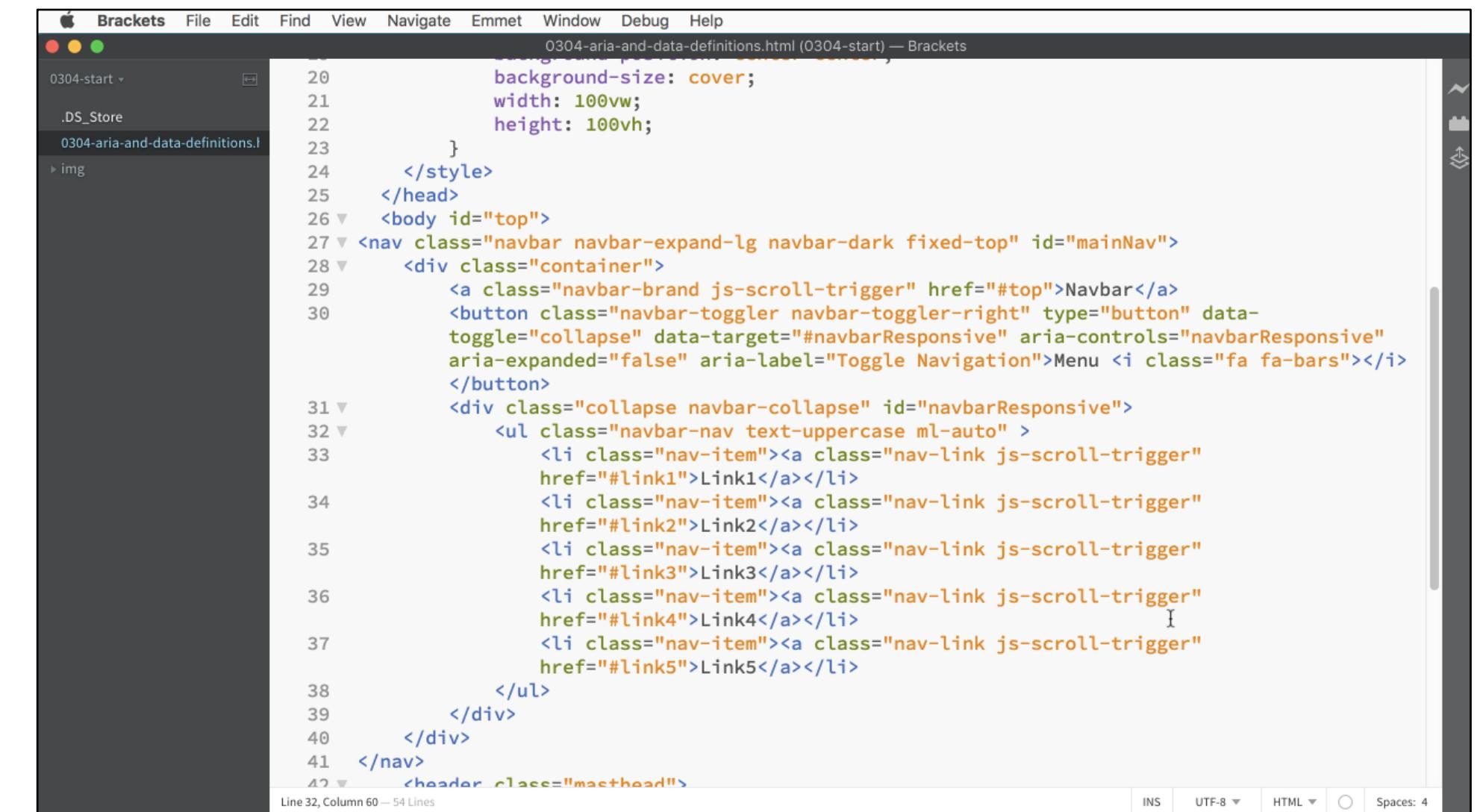
- 0303-han
- 0303-start
- .DS\_Store
- 0303-handco
- img

```
27 <nav class="navbar navbar-expand-lg navbar-dark fixed-top" id="mainNav">
28   <div class="container">
29     <a class="navbar-brand js-scroll-trigger" href="#top">Navbar</a>
30     <button class="navbar-toggler navbar-toggler-right" type="button" data-toggle="collapse" data-
target="#navbarResponsive" aria-controls="navbarResponsive" aria-expanded="false" aria-
label="Toggle Navigation">Menu <i class="fa fa-bars"></i></button>
31     <div class="collapse navbar-collapse" id="navbarResponsive">
32       <ul class="navbar-nav text-uppercase ml-auto" >
33         <li class="nav-item"><a class="nav-link js-scroll-trigger" href="#link1">Link1</a></li>
34         <li class="nav-item"><a class="nav-link js-scroll-trigger" href="#link2">Link2</a></li>
35         <li class="nav-item"><a class="nav-link js-scroll-trigger" href="#link3">Link3</a></li>
36         <li class="nav-item"><a class="nav-link js-scroll-trigger" href="#link4">Link4</a></li>
37         <li class="nav-item"><a class="nav-link js-scroll-trigger" href="#link5">Link5</a></li>
38       </ul>
```

Line 30, Column 9 — 54 Lines

INS UTF-8 HTML Spaces: 4

# Summary

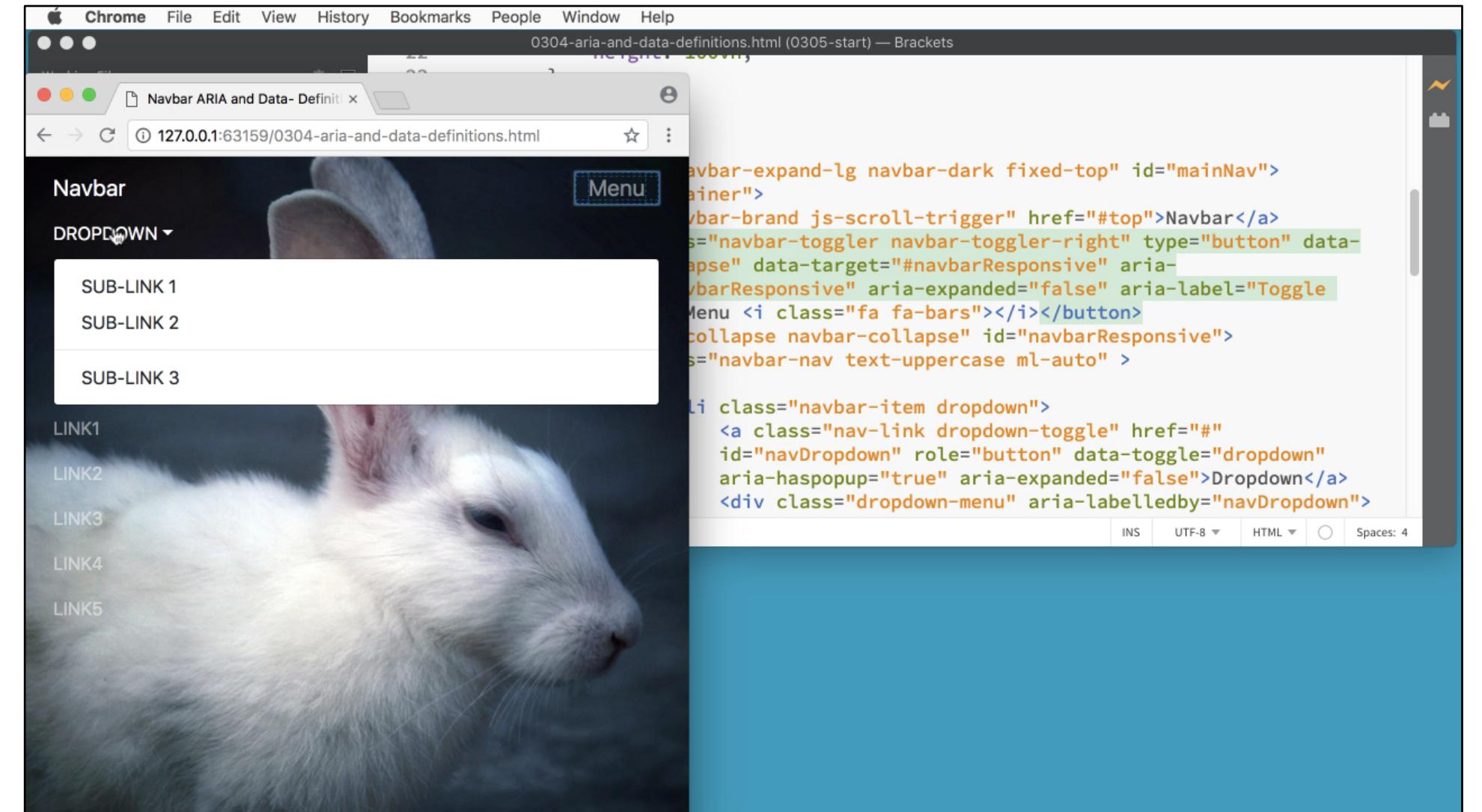


The screenshot shows the Brackets IDE interface with a file named "0304-aria-and-data-definitions.html" open. The code in the editor is as follows:

```
Brackets File Edit Find View Navigate Emmet Window Debug Help
0304-aria-and-data-definitions.html (0304-start) — Brackets
0304-start .DS_Store 0304-aria-and-data-definitions.html img
20     background-size: cover;
21     width: 100vw;
22     height: 100vh;
23   }
24   </style>
25 </head>
26 <body id="top">
27 <nav class="navbar navbar-expand-lg navbar-dark fixed-top" id="mainNav">
28   <div class="container">
29     <a class="navbar-brand js-scroll-trigger" href="#top">Navbar</a>
30     <button class="navbar-toggler navbar-toggler-right" type="button" data-
31       toggle="collapse" data-target="#navbarResponsive" aria-controls="navbarResponsive"
32       aria-expanded="false" aria-label="Toggle Navigation">Menu <i class="fa fa-bars"></i>
33   </button>
34   <div class="collapse navbar-collapse" id="navbarResponsive">
35     <ul class="navbar-nav text-uppercase ml-auto" >
36       <li class="nav-item"><a class="nav-link js-scroll-trigger"
37         href="#link1">Link1</a></li>
38       <li class="nav-item"><a class="nav-link js-scroll-trigger"
39         href="#link2">Link2</a></li>
40       <li class="nav-item"><a class="nav-link js-scroll-trigger"
41         href="#link3">Link3</a></li>
42       <li class="nav-item"><a class="nav-link js-scroll-trigger"
43         href="#link4">Link4</a></li>
44       <li class="nav-item"><a class="nav-link js-scroll-trigger"
45         href="#link5">Link5</a></li>
46     </ul>
47   </div>
48 </div>
49 </nav>
50 <header class="masthead">
```

The code defines a responsive navigation bar with a background image, a central container, and five menu items. The menu items are triggered by a scroll-triggered JavaScript function.

# Summary



The screenshot displays a web application interface within a Brackets code editor. The browser window shows a navigation bar with a logo, a dropdown menu labeled "DROPDOWN", and several links. The code editor on the right shows the generated HTML and CSS code.

```
navbar-expand-lg navbar-dark fixed-top" id="mainNav">
  <!-- Container -->
  <div class="container">
    <!-- Brand -->
    <a href="#" class="navbar-brand js-scroll-trigger" href="#top">Navbar</a>
    <!-- Toggler -->
    <button class="navbar-toggler navbar-toggler-right" type="button" data-toggle="collapse" data-target="#navbarResponsive" aria-expanded="false" aria-label="Toggle Menu" aria-controls="navbarResponsive">
      <i class="fa fa-bars"></i>
    </button>
    <!-- Collapsible Navigation -->
    <div class="collapse navbar-collapse" id="navbarResponsive" style="background-color: #fff; padding: 0; border: 1px solid #333; border-radius: 0; margin-top: -15px;">
      <!-- Nav Links -->
      <ul class="navbar-nav ml-auto">
        <li class="nav-item dropdown">
          <a class="nav-link dropdown-toggle" href="#" id="navDropdown" role="button" data-toggle="dropdown" aria-haspopup="true" aria-expanded="false">Dropdown</a>
          <div class="dropdown-menu" aria-labelledby="navDropdown">
            <!-- Sub-Links -->
            <ul class="list-group">
              <li class="list-group-item">SUB-LINK 1
              <li class="list-group-item">SUB-LINK 2
              <li class="list-group-item">SUB-LINK 3
            </ul>
          </div>
        </li>
      </ul>
      <!-- Other Links -->
      <ul class="list-group">
        <li class="list-group-item">LINK1
        <li class="list-group-item">LINK2
        <li class="list-group-item">LINK3
        <li class="list-group-item">LINK4
        <li class="list-group-item">LINK5
      </ul>
    </div>
  </div>

```

# Summary

The screenshot shows a web browser window with the title "Other Navigation". The address bar displays the URL "127.0.0.1:55910/0306-Other%20Navigation.html#". The page content features a dark header with the word "Navbar" on the left and several links on the right: "DROPDOWN ▾", "LINK1", "LINK2", "LINK3", "LINK4", and "LINK5". A dropdown menu is open under the "DROPDOWN" link, showing three items: "The Queen", "The King", and "The Jack". Below the header, there is a blue button labeled "Hearts Dropdown ▾" and other links: "Alice", "The Hatter", "Dormouse", "March Hare", and "Dinah". The background of the page is a close-up photograph of a white rabbit's face.

0306-Other Navigation.html (0306-start) — Brackets

```
56 ▼ <div class="container">
57   <div class="intro-text"></div>
58 </div>
59 </header>
60
61 ▼ <div class="container m-5">
62
63 ▼   <ul class="nav nav-pills nav-fill">
64 ▼     <li class="nav-item dropdown">
65       <a href="#" class="nav-link dropdown-toggle" data-
          toggle="dropdown">Hearts Dropdown</a>
66 ▼     <div class="dropdown-menu">
67       <a href="" class="dropdown-item">The Queen</a>
68       <a href="" class="dropdown-item">The King</a>
```

Other Navigation  
127.0.0.1:55910/0306-Other%20Navigation.html#

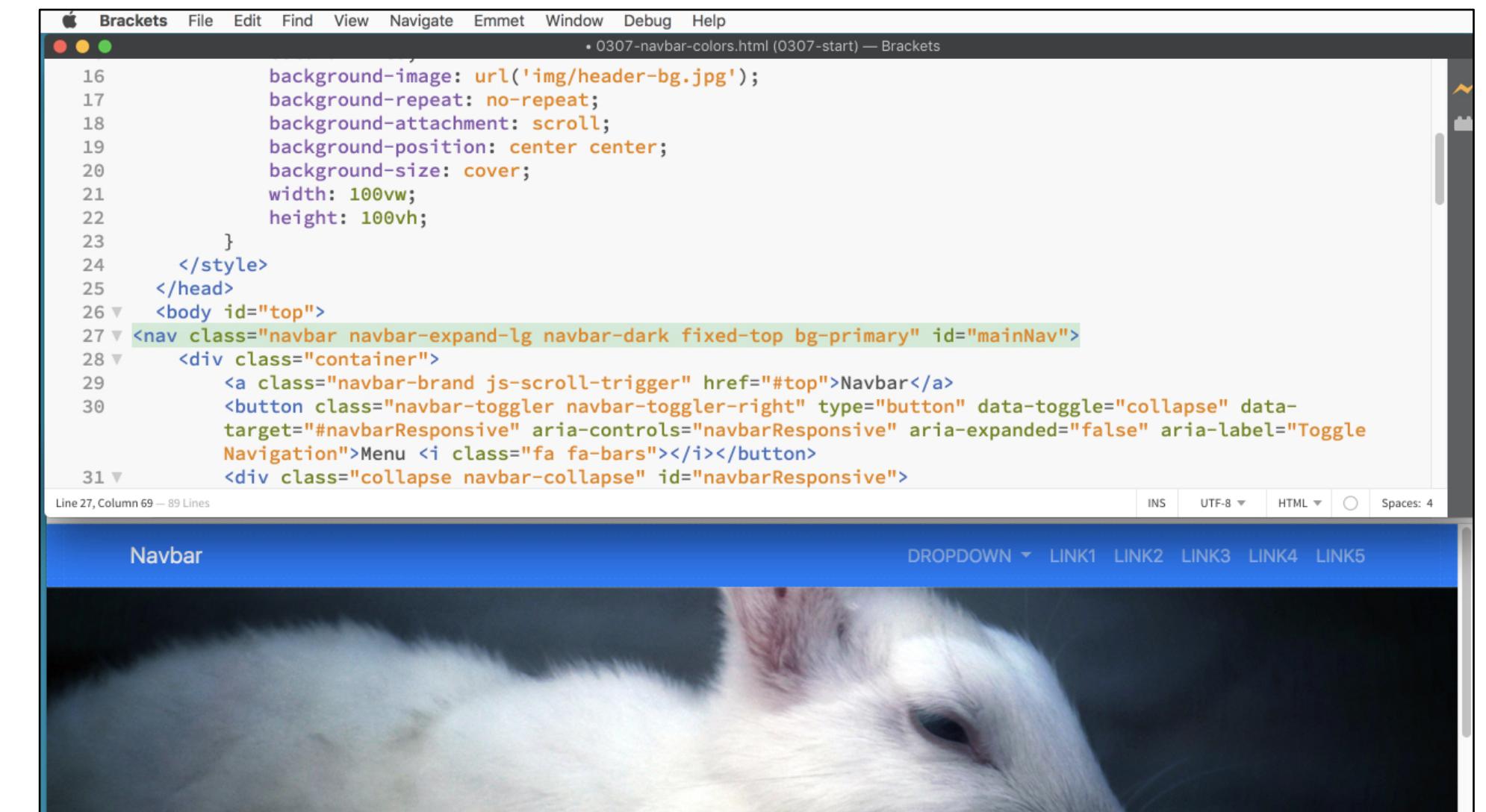
Navbar

DROPDOWN ▾ LINK1 LINK2 LINK3 LINK4 LINK5

The Queen  
The King  
The Jack

Hearts Dropdown ▾ Alice The Hatter Dormouse March Hare Dinah

# Summary

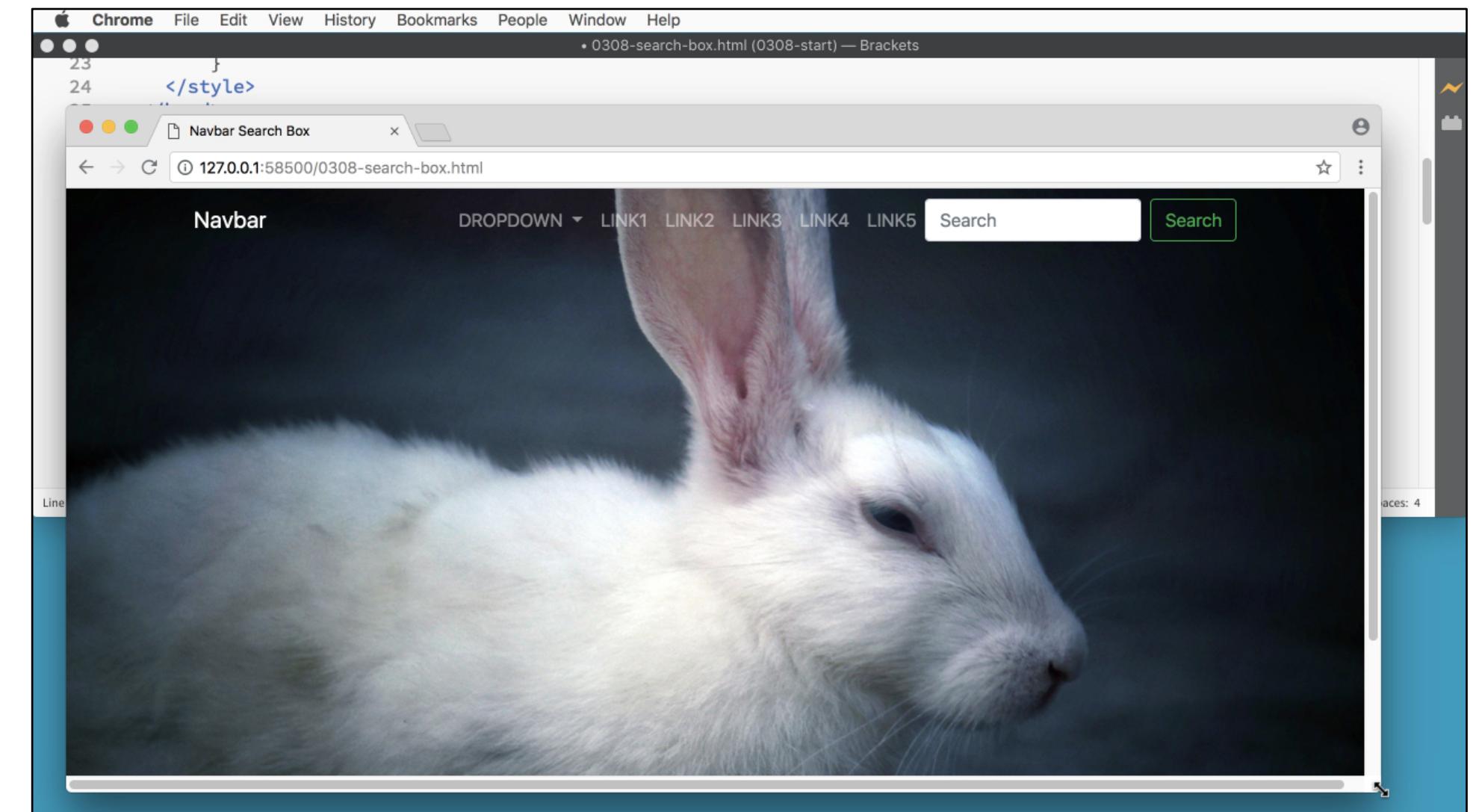


The screenshot shows the Brackets IDE interface. The top bar includes the Brackets logo, file menu (File, Edit, Find, View, Navigate, Emmet, Window, Debug, Help), and a tab for '0307-navbar-colors.html (0307-start) — Brackets'. The main editor area displays the following code:

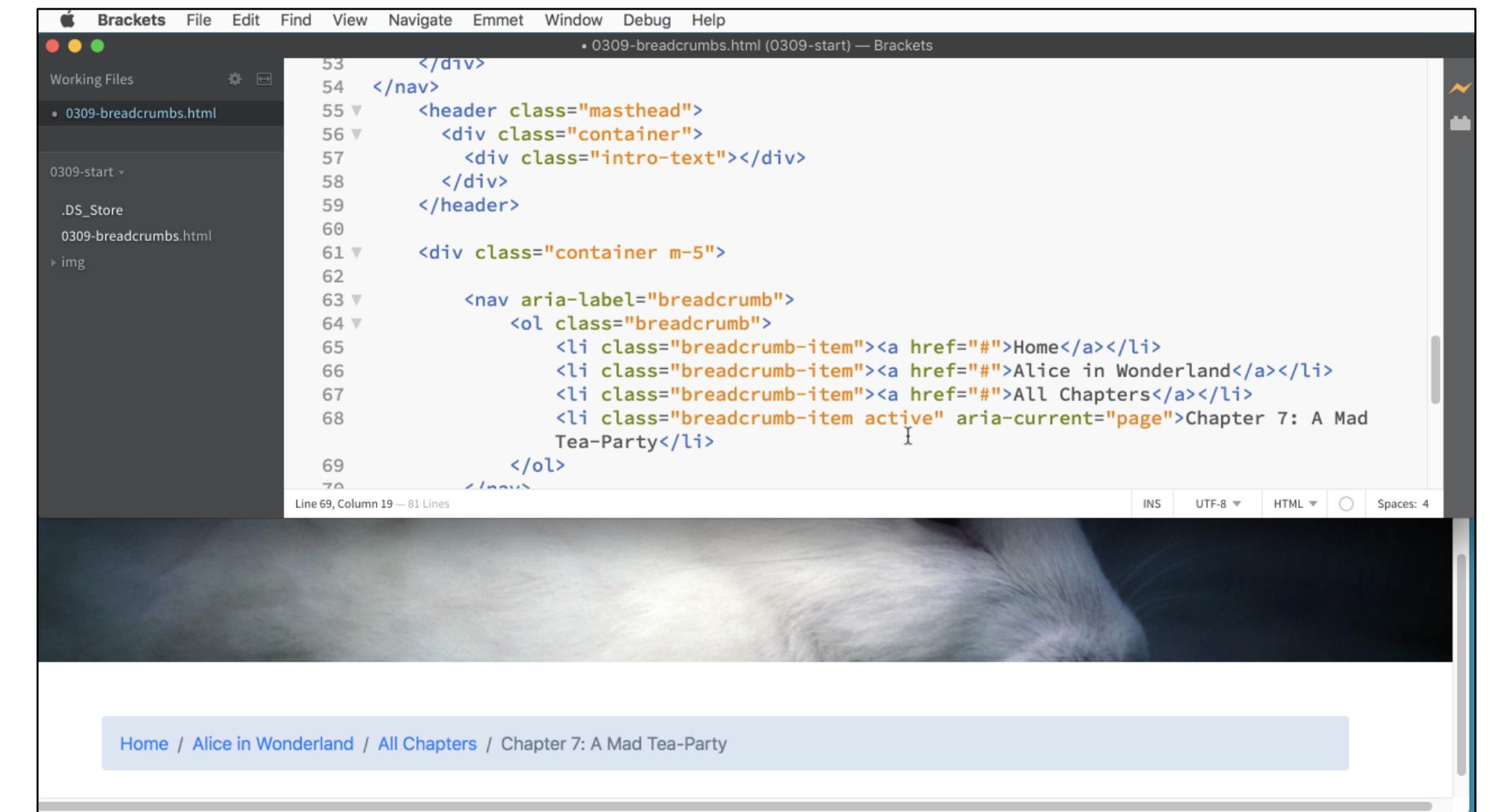
```
16     background-image: url('img/header-bg.jpg');
17     background-repeat: no-repeat;
18     background-attachment: scroll;
19     background-position: center center;
20     background-size: cover;
21     width: 100vw;
22     height: 100vh;
23   }
24 </style>
25 </head>
26 <body id="top">
27 <nav class="navbar navbar-expand-lg navbar-dark fixed-top bg-primary" id="mainNav">
28   <div class="container">
29     <a class="navbar-brand js-scroll-trigger" href="#top">Navbar</a>
30     <button class="navbar-toggler navbar-toggler-right" type="button" data-toggle="collapse" data-
target="#navbarResponsive" aria-controls="navbarResponsive" aria-expanded="false" aria-label="Toggle
Navigation">Menu <i class="fa fa-bars"></i></button>
31     <div class="collapse navbar-collapse" id="navbarResponsive">
```

The code uses Emmet abbreviations like `>` for closing tags and `>>>` for closing and opening tags. The preview window below shows a blue header with the word 'Navbar' and a navigation bar with five links: 'DROPDOWN ▾', 'LINK1', 'LINK2', 'LINK3', 'LINK4', and 'LINK5'. Below the header is a large image of a white rabbit's face.

# Summary



# Summary

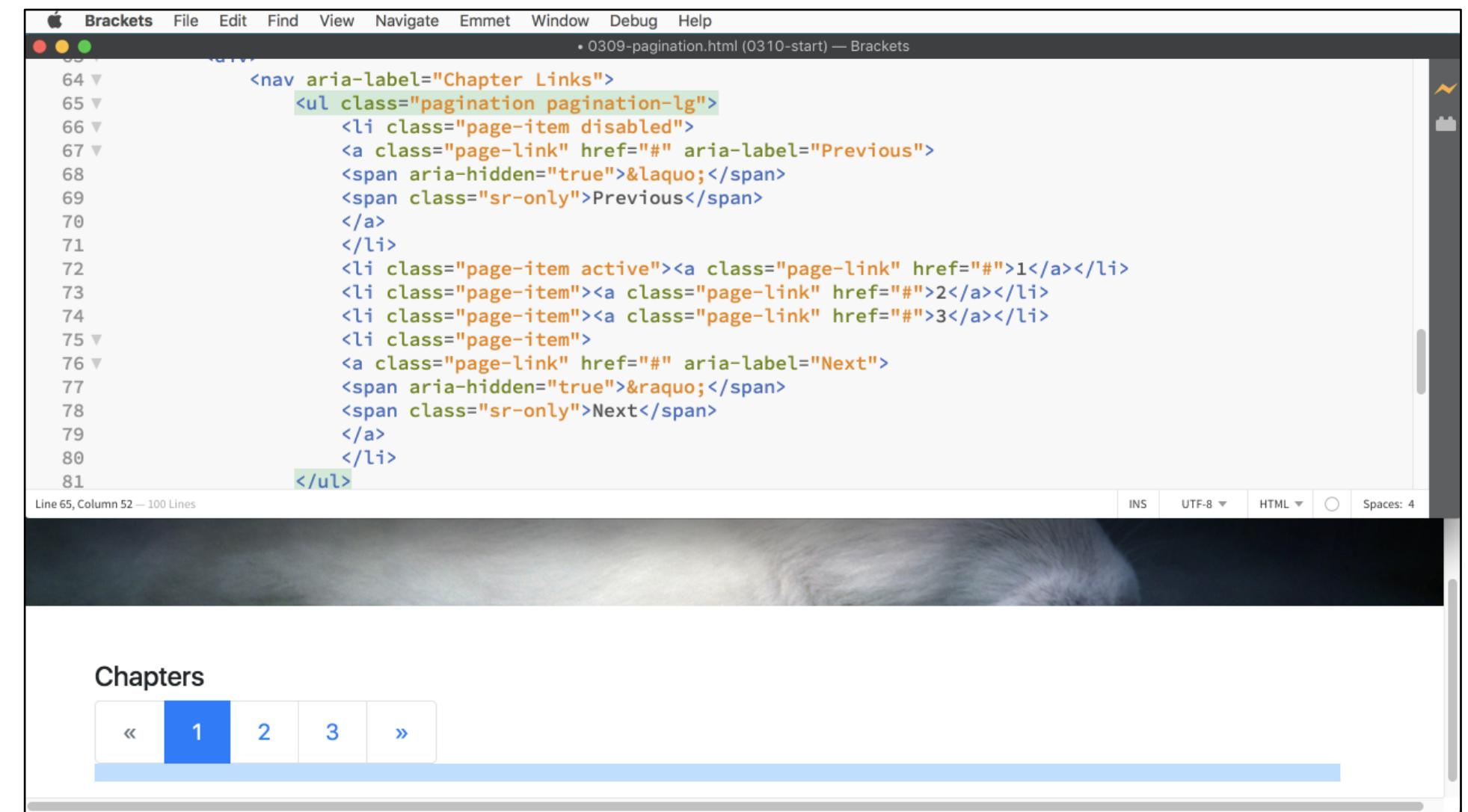


The screenshot shows the Brackets IDE interface with the file `0309-breadcrumbs.html` open. The code displays a breadcrumb navigation structure:

```
53      </div>
54  </nav>
55  <header class="masthead">
56  <div class="container">
57    <div class="intro-text"></div>
58  </div>
59  </header>
60
61  <div class="container m-5">
62
63  <nav aria-label="breadcrumb">
64  <ol class="breadcrumb">
65    <li class="breadcrumb-item"><a href="#">Home</a></li>
66    <li class="breadcrumb-item"><a href="#">Alice in Wonderland</a></li>
67    <li class="breadcrumb-item"><a href="#">All Chapters</a></li>
68    <li class="breadcrumb-item active" aria-current="page">Chapter 7: A Mad
Tea-Party</li>
69  </ol>
70
```

The code is color-coded for syntax highlighting, and the interface includes a sidebar with file navigation and a status bar at the bottom.

# Summary



The screenshot shows the Brackets IDE interface. The top bar includes the Brackets logo, window controls, and a menu bar with File, Edit, Find, View, Navigate, Emmet, Window, Debug, and Help. A tab at the top right indicates the file is 0309-pagination.html (0310-start) in Brackets.

The code editor displays the following HTML and CSS for a navigation menu:

```
Brackets 0309-pagination.html (0310-start) — Brackets
Line 65, Column 52 — 100 Lines
64 <nav aria-label="Chapter Links">
65   <ul class="pagination pagination-lg">
66     <li class="page-item disabled">
67       <a class="page-link" href="#" aria-label="Previous">
68         <span aria-hidden="true">&laquo;</span>
69         <span class="sr-only">Previous</span>
70       </a>
71     </li>
72     <li class="page-item active"><a class="page-link" href="#">1</a></li>
73     <li class="page-item"><a class="page-link" href="#">2</a></li>
74     <li class="page-item"><a class="page-link" href="#">3</a></li>
75     <li class="page-item">
76       <a class="page-link" href="#" aria-label="Next">
77         <span aria-hidden="true">&raquo;</span>
78         <span class="sr-only">Next</span>
79       </a>
80     </li>
81   </ul>
```

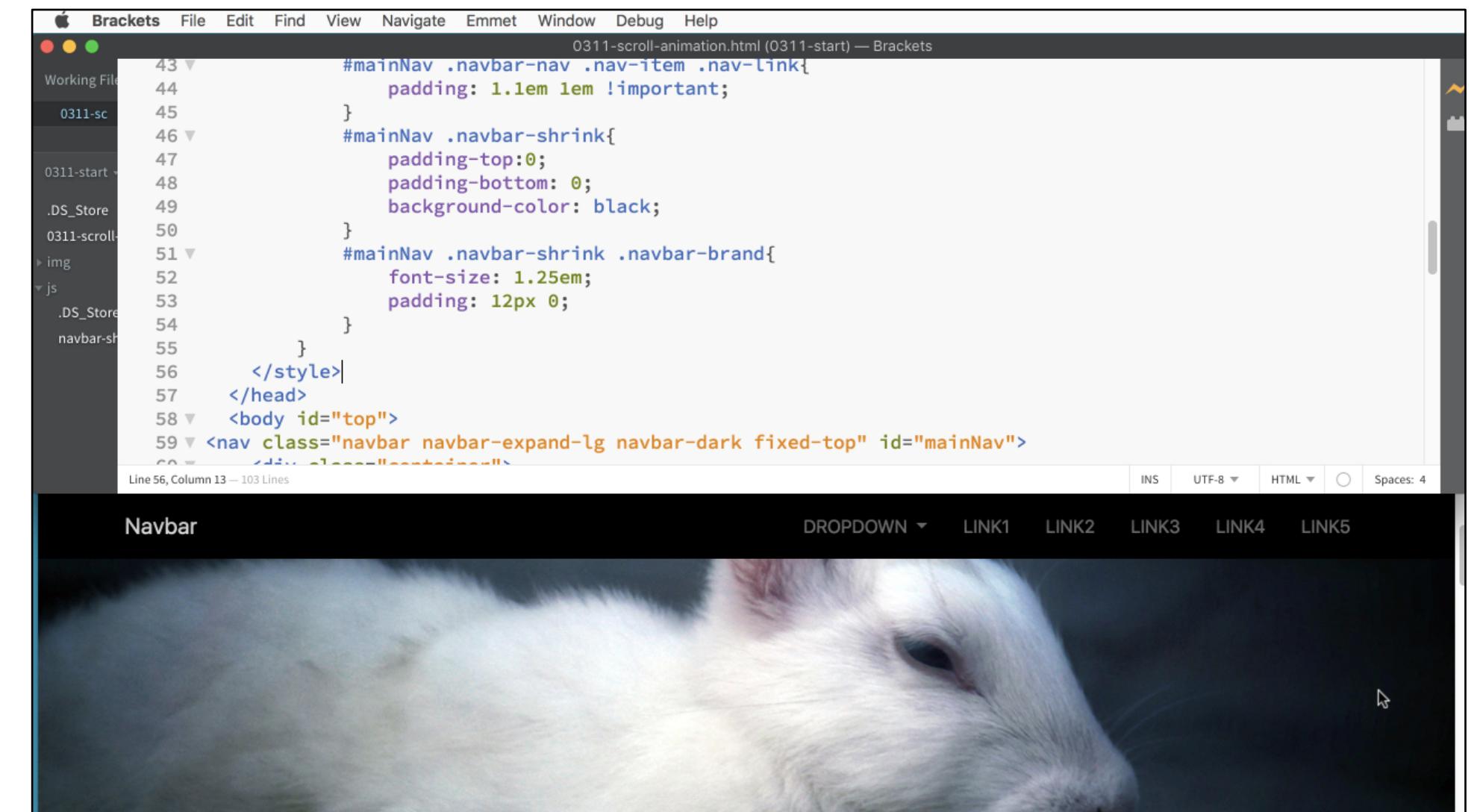
The status bar at the bottom shows "Line 65, Column 52 — 100 Lines". The bottom right corner of the code editor shows the file's preview, which is a dark, blurry image of a cat's face.

Below the code editor, there is a "Chapters" section with a navigation bar:

Chapters

« 1 2 3 »

# Summary



The screenshot shows the Brackets IDE interface. The top half displays a file named "0311-scroll-animation.html" with the following code:

```
Brackets File Edit Find View Navigate Emmet Window Debug Help
0311-scroll-animation.html (0311-start) — Brackets
Working File: 0311-scroll-animation.html
43     #mainNav .navbar-nav .nav-item .nav-link{
44         padding: 1.1em 1em !important;
45     }
46     #mainNav .navbar-shrink{
47         padding-top:0;
48         padding-bottom: 0;
49         background-color: black;
50     }
51     #mainNav .navbar-shrink .navbar-brand{
52         font-size: 1.25em;
53         padding: 12px 0;
54     }
55 }
56 </style>
57 </head>
58 <body id="top">
59 <nav class="navbar navbar-expand-lg navbar-dark fixed-top" id="mainNav">
60     <!-- Nav Bar -->
```

The bottom half shows a preview of the website. The navigation bar is visible at the top, featuring a dark background and a white fox's face as the brand element. Below the bar, the main content area displays a close-up image of the fox's face.