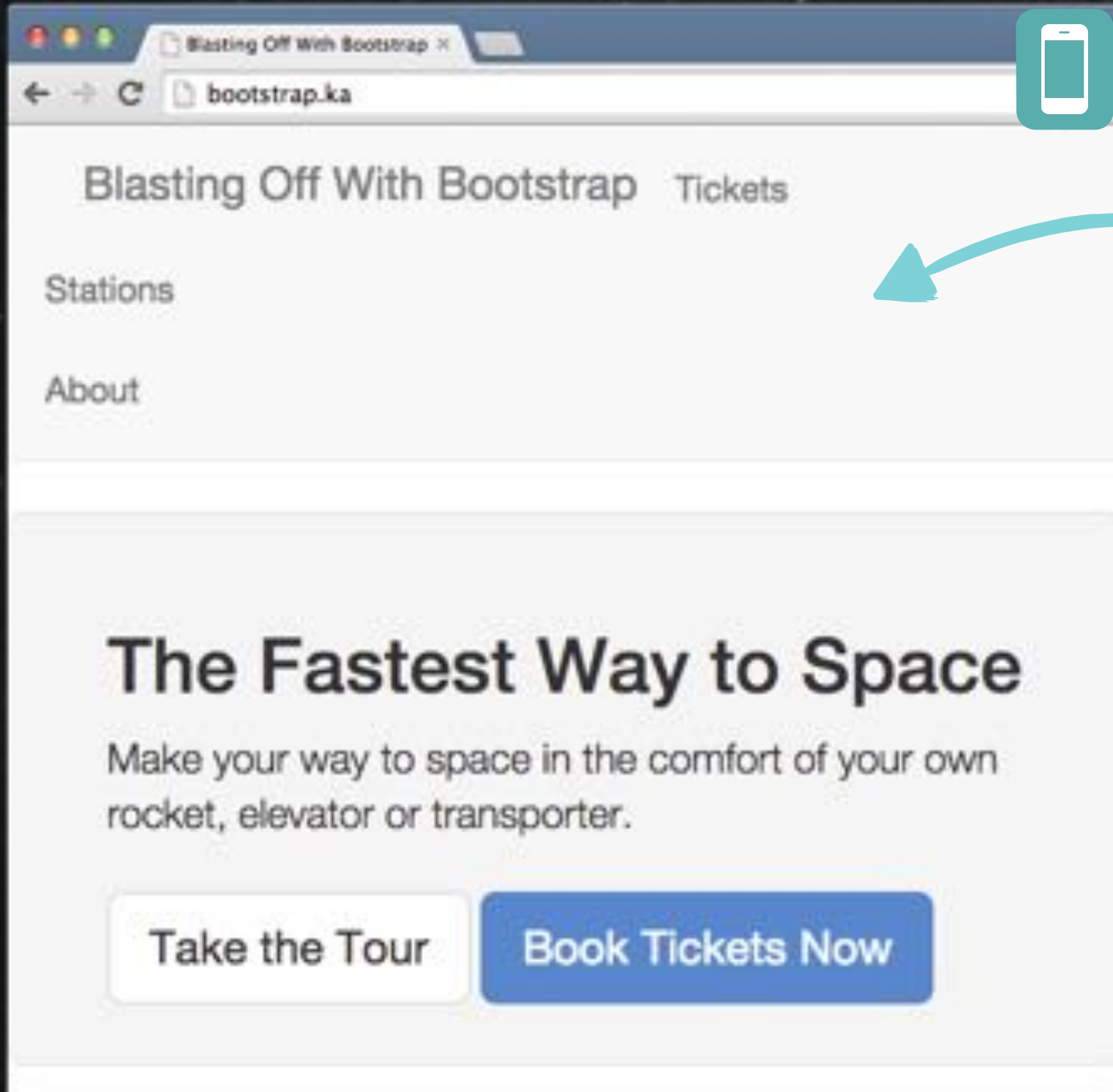# Blasting Off

with Bootstrap

JavaScript Components

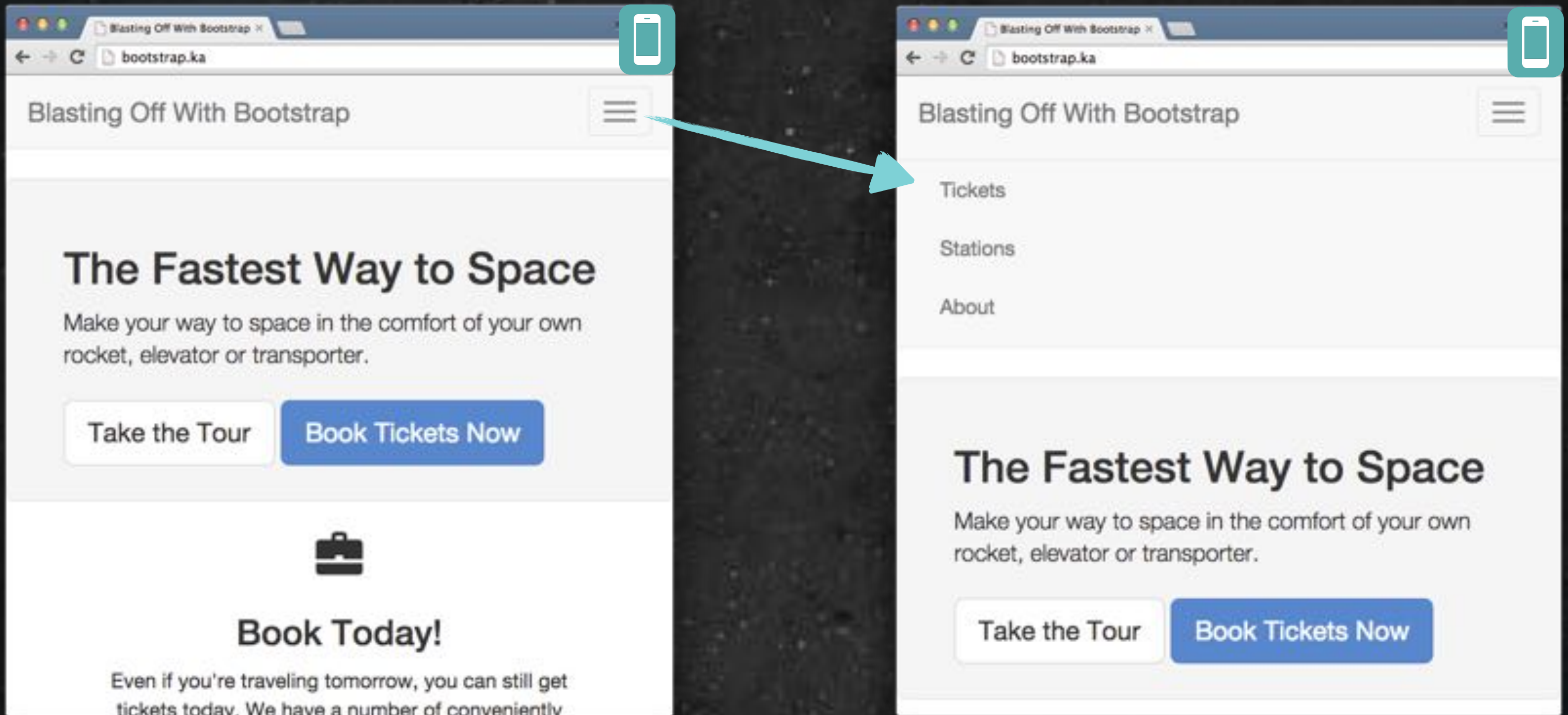Level 5, Section 1

Navigation in Extra Small Mode

Our navigation looks really bad in extra small mode...

Maybe we should have it collapsable? Only show it when someone wants it?
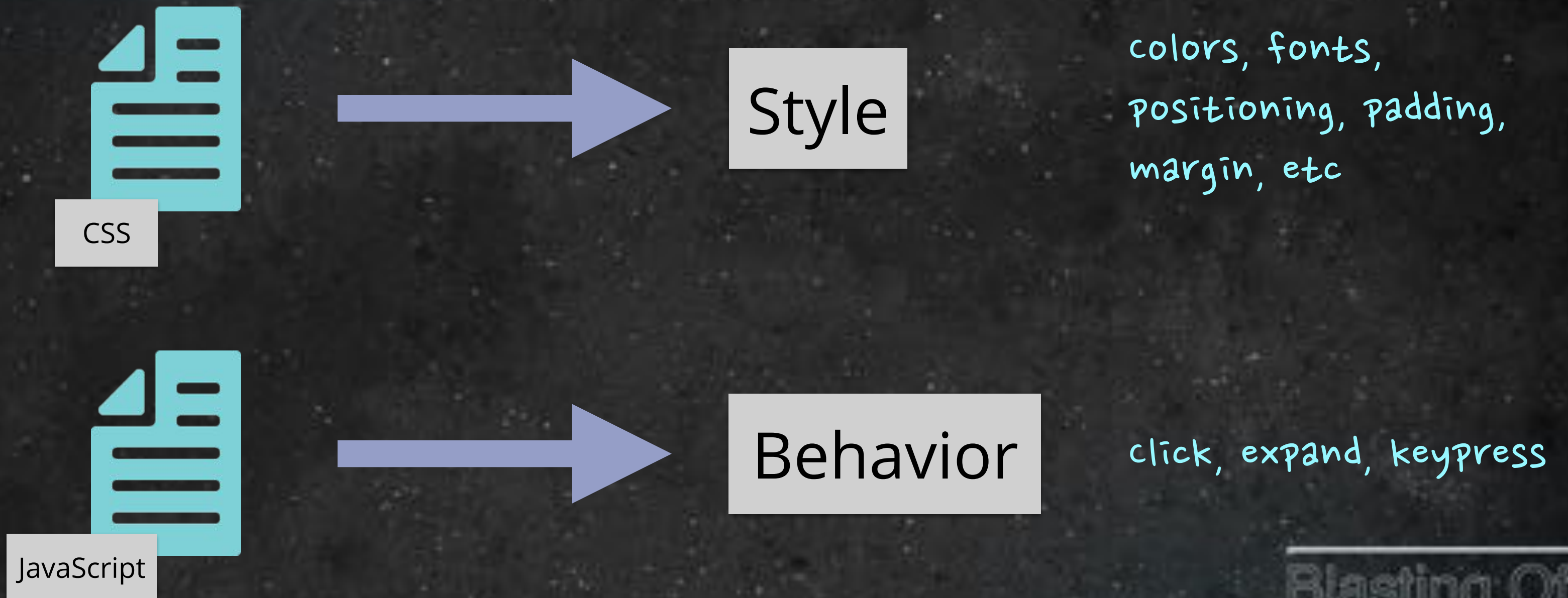
Expandable Navigation

This is what we'll be building. In extra small mode, we'll show a navigation toggle.

CSS vs JavaScript Refresher

CSS is for styling the page, JavaScript is for adding behavior to the page.

CSS → Style

colors, fonts, positioning, padding, margin, etc

JavaScript → Behavior

click, expand, keypress

Our Existing Navigation

Here's the navigation we've build so far. It has a `.navbar` with a `.container` inside of it.

index.html

```html
<div class='navbar navbar-default navbar-static-top'>
  <div class='container'>
    <a href='/' class='navbar-brand'>...</a>

    <ul class='nav navbar-nav navbar-right'>...</ul>
  </div>
</div>
```
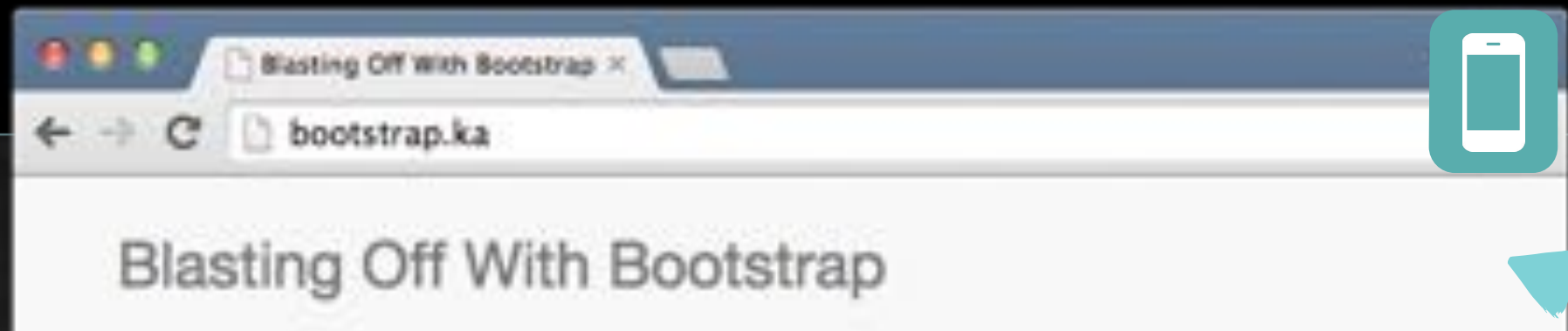
The `.nav` element is what we want to make collapsable.

Collapsing Our Navigation

Adding the `.collapse` class will hide an element in all resolutions thanks to the collapse plugin.

index.html

```
<ul class='nav navbar-nav navbar-right collapse'>
  ...
</ul>
```
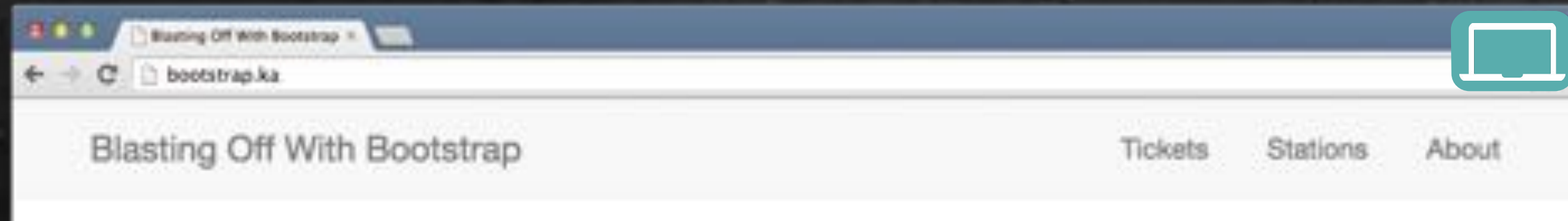
Our navigation is hidden in all screen sizes!

How do we only hide it only in extra small mode?

Showing Our Navigation For Larger Screens

The .navbar-collapse class will only hide the nav in extra small mode.

index.html

```
<ul class='nav navbar-nav navbar-right collapse navbar-collapse'>
  ...
</ul>
```

Our navigation shows up for small screens and above, but is hidden in extra small mode.

Toggling Navigation

We'll add a button that will make our navigation links visible only when the user desires it.

index.html

This is where our button will be

```
<div class='navbar navbar-default navbar-static-top'>
  <div class='container'>
    <a href='index.html' class='navbar-brand'>...</a>

    <button type='button'>Toggle navigation</button>


    <ul class='nav navbar-nav navbar-right
        collapse navbar-collapse'>...</ul>
  </div>
</div>
```

Toggle navigation

Blasting Off With Bootstrap

Screen Reader Only Text

Our visually impaired users won't know what our button does by its icon, but adding text helps.

index.html

```
<button type='button'>
  <span class='sr-only'>Toggle navigation</span>
</button>
```

The Toggle navigation text won't be shown for most visitors.

Blasting Off With Bootstrap

Still need to add some positioning and additional styles to our button.

Screen Reader Only Text

Our visually impaired users won't know what our button does by its icon, but adding text helps.

index.html

```
<button type='button'>
  <span class='sr-only'>Toggle navigation</span>
</button>
```

Blasting Off With Bootstrap

Still need to add some positioning and additional styles to our button.

Navigation Toggles

index.html

Navigation toggles float to the right

```html
<button type='button' class='navbar-toggle'>
  <span class='sr-only'>Toggle navigation</span>
</button>
```

Blasting Off With Bootstrap

Other ways of floating elements in Bootstrap

Getting closer! We just need some kind of icon in there. Oh, and behavior when its clicked.

```
.pull-right
```

```
.pull-left
```

Navigation Toggle Icons
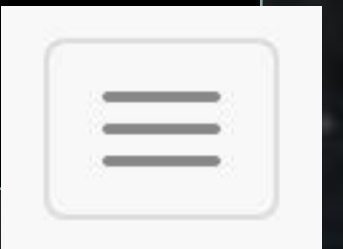
index.html

Glyphicons won't scale correctly in this case.

```html
<button type='button' class='navbar-toggle'>
  <span class='sr-only'>Toggle navigation</span>
  <i class='glyphicon glyphicon-align-justify'></i>
</button>
```
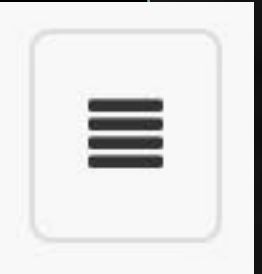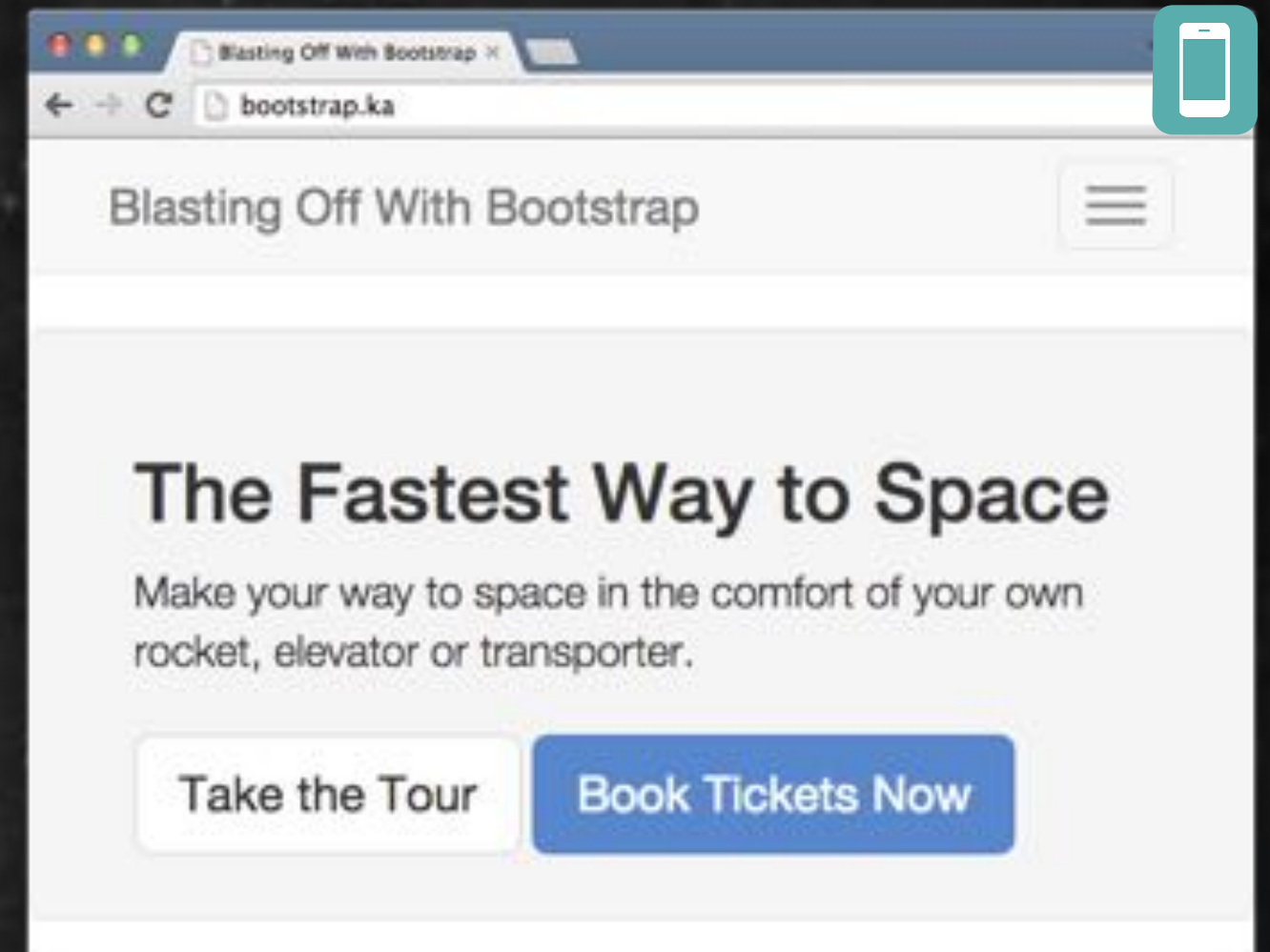
```html
<button type='button' class='navbar-toggle'>
  <span class='sr-only'>Toggle navigation</span>
  <span class='icon-bar'></span>
  <span class='icon-bar'></span>
  <span class='icon-bar'></span>
</button>
```
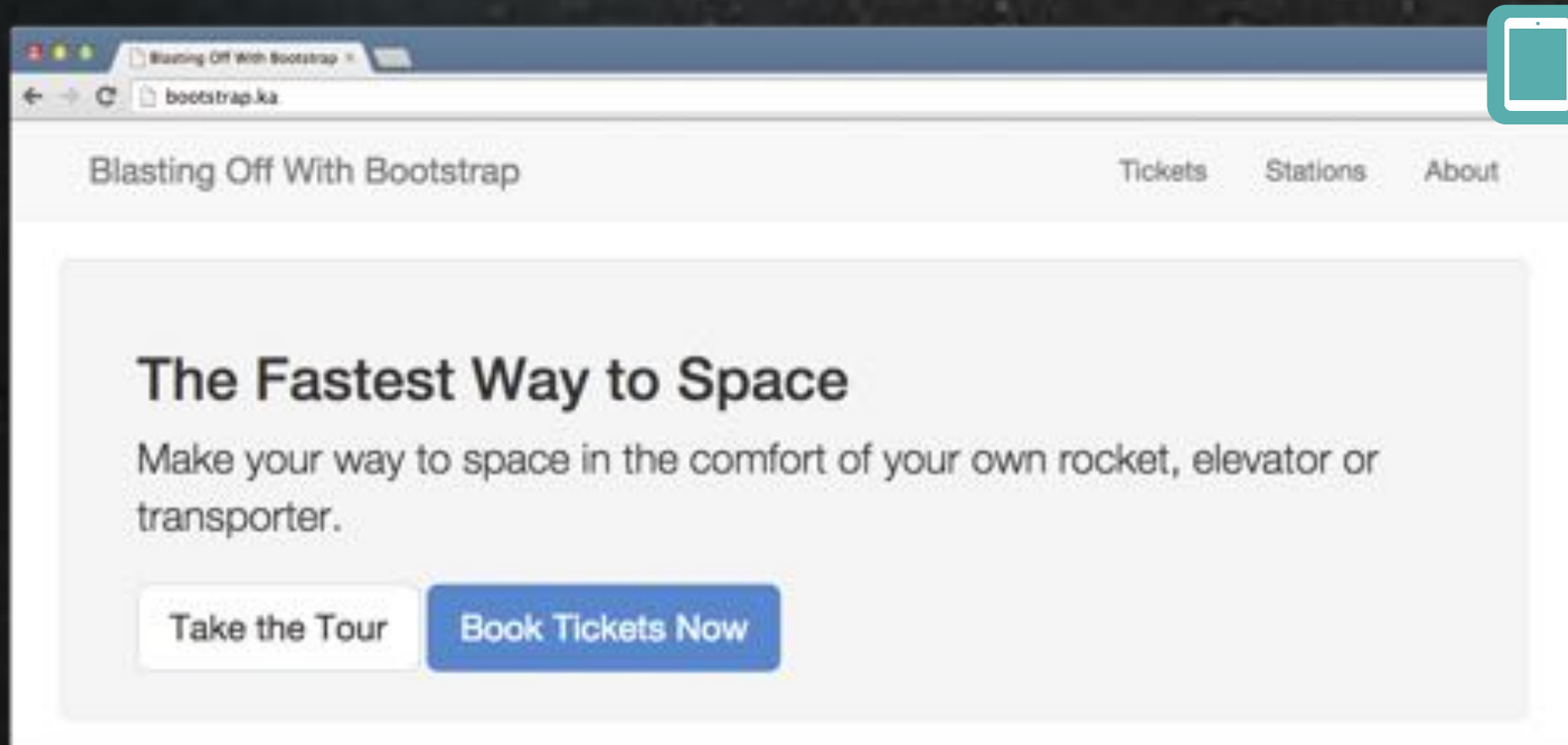
Instead we can use 3 of Bootstraps icon bars

Our Lazy Button

Our button only shows up in extra small mode, and our navigation shows up for anything larger.

Getting there, but we still need to make it do something!

Adding Interactivity to Our Button

Lay out the problem you want to solve in english to better understand the interaction.
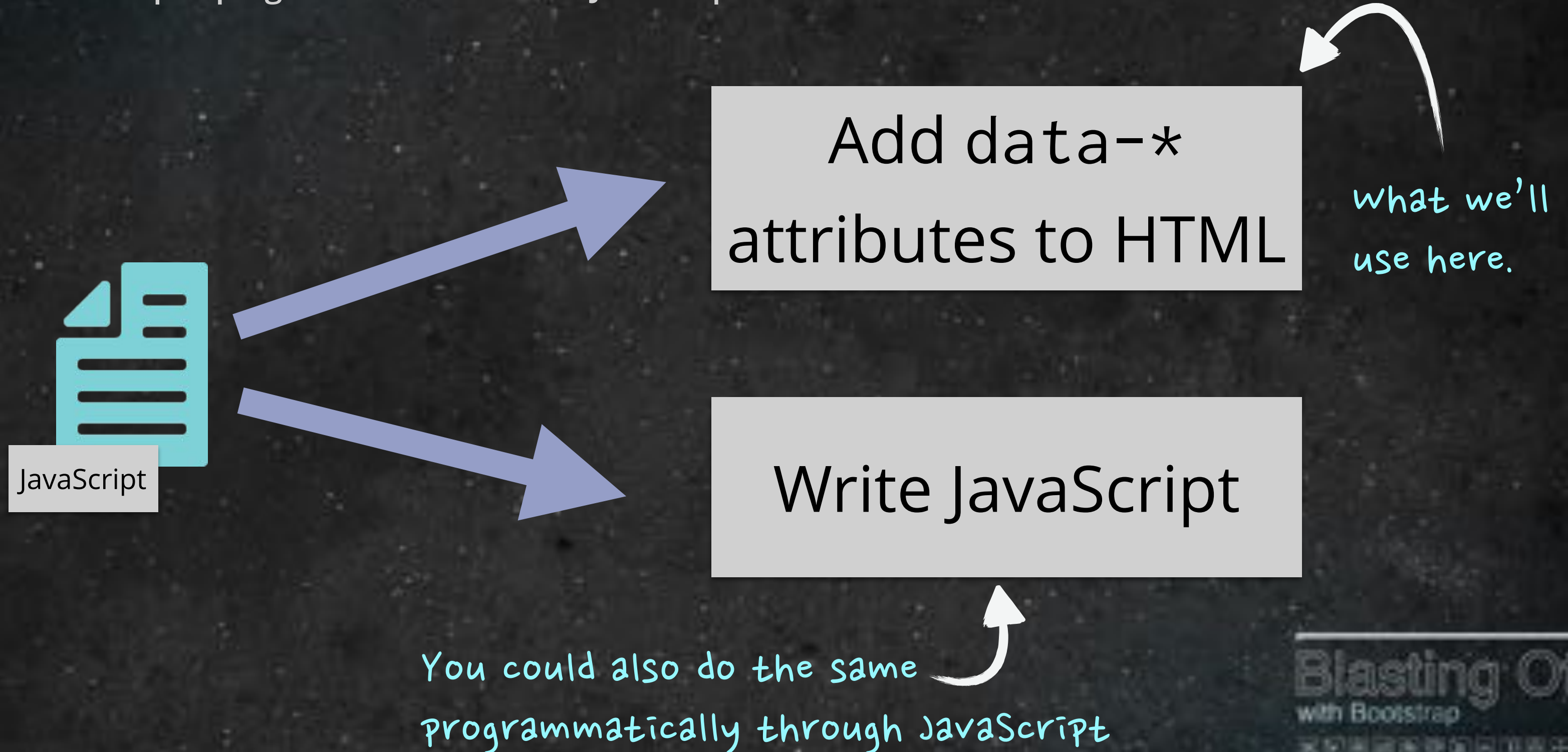
index.html

When we click on this button...

```
<button type='button' class='navbar-toggle'>...</button>

<ul class='nav navbar-nav navbar-right collapse
   navbar-collapse'>
```

.. the .collapse class should be removed from the navigation.

How to use Bootstrap JavaScript Plugins

The Collapse plugin is included in the JavaScript file we added earlier.

JavaScript

Add data-* attributes to HTML

what we'll use here.

Write JavaScript

You could also do the same programmatically through JavaScript

Blasting Off
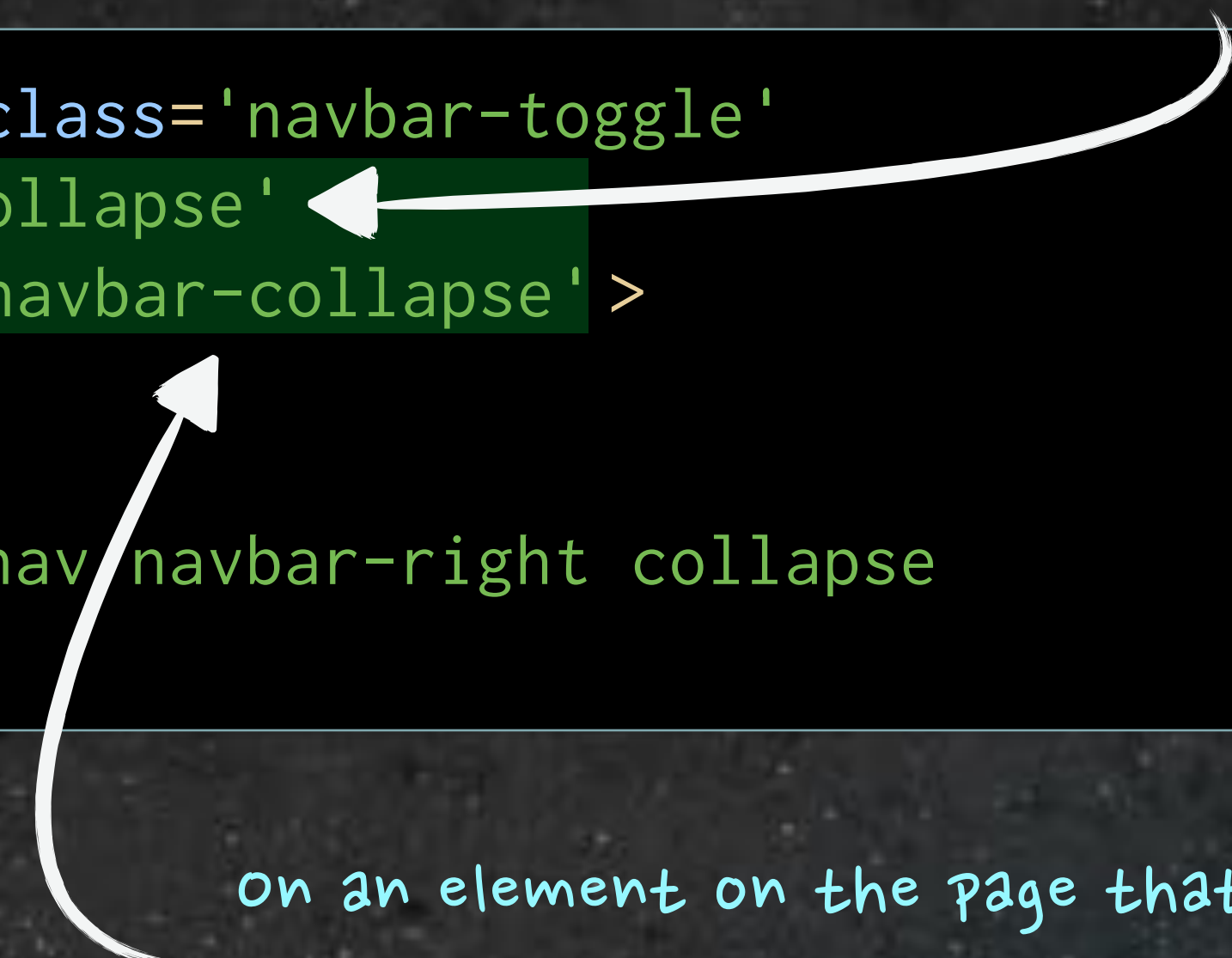with Bootstrap

Using the Collapse JavaScript Plugin

By adding additional data- attributes, Bootstrap will add new behavior to our page when it loads.
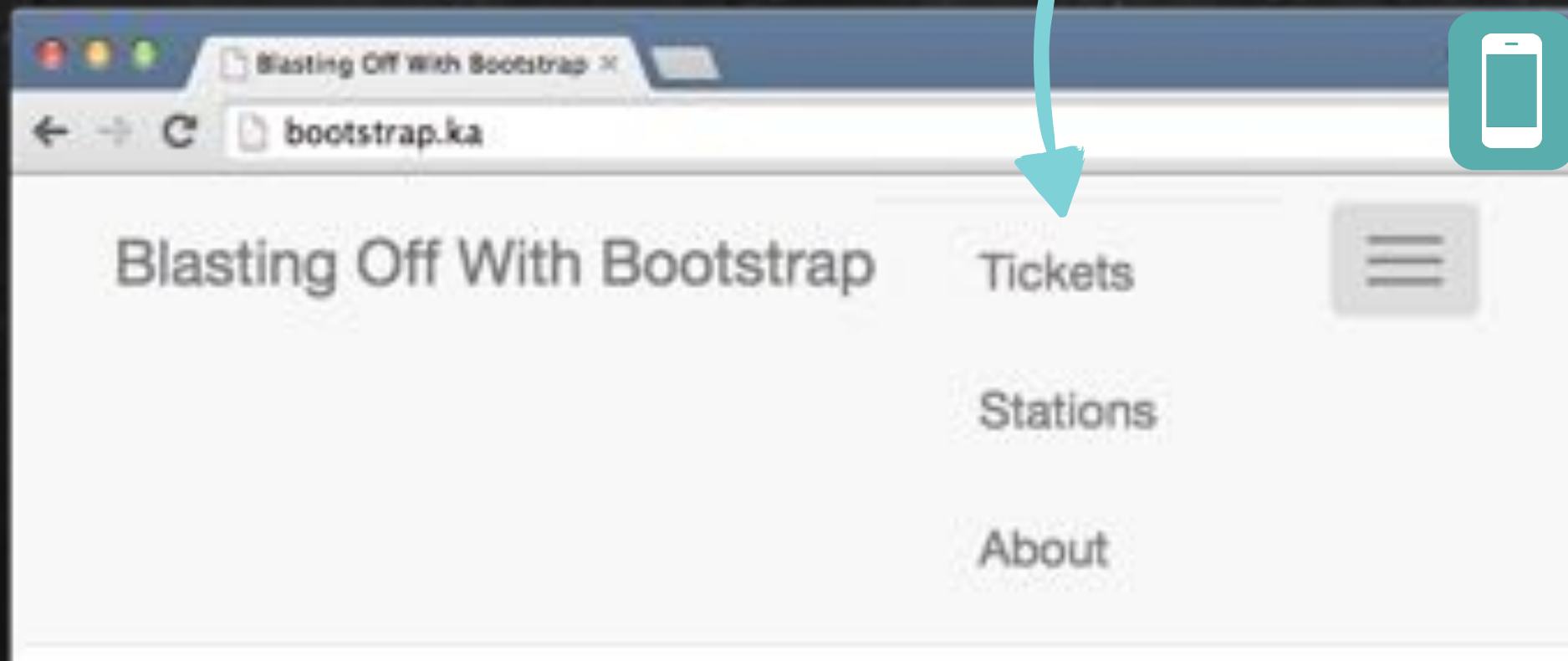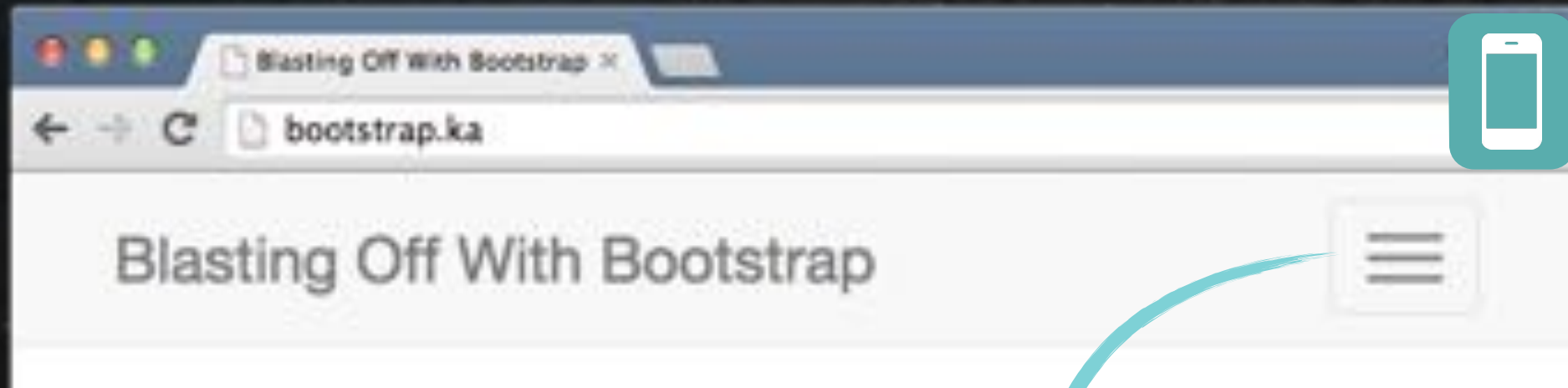
index.html

Toggle the existence of the .collapse class...

```html
<button type='button' class='navbar-toggle'
        data-toggle='collapse'
        data-target='.navbar-collapse'>
</button>

<ul class='nav navbar-nav navbar-right collapse
    navbar-collapse'>
```

On an element on the page that has the class .navbar-collapse.

Working Collapsible Navigation

It's toggling the class, but it doesn't look quite right yet. Let's make the links bigger.

Our Existing Navigation Rows

The same way we grouped rows, we'll group the parts of our navigation.

index.html

```html
<div class='navbar navbar-default navbar-static-top'>
  <div class='container'>
    <a href='index.html' class='navbar-brand'>...</a>
    <button type='button' ...>... </button>


    <ul class='nav ...'></ul>
  </div>
</div>
```

The link and the button will be one row

Each navigation link will be its own row

Navigation Header

We can think of the homepage link and the button as one "row" and the nav as another one.

index.html

```
<div class='navbar navbar-default navbar-static-top'>
   <div class='container'>
     <div class='navbar-header'>
       <a href='index.html' class='navbar-brand'>...</a>
       <button type='button' ...>...</button>
     </div>

     <ul class='nav ...'>...</ul>
   </div>
</div>
```
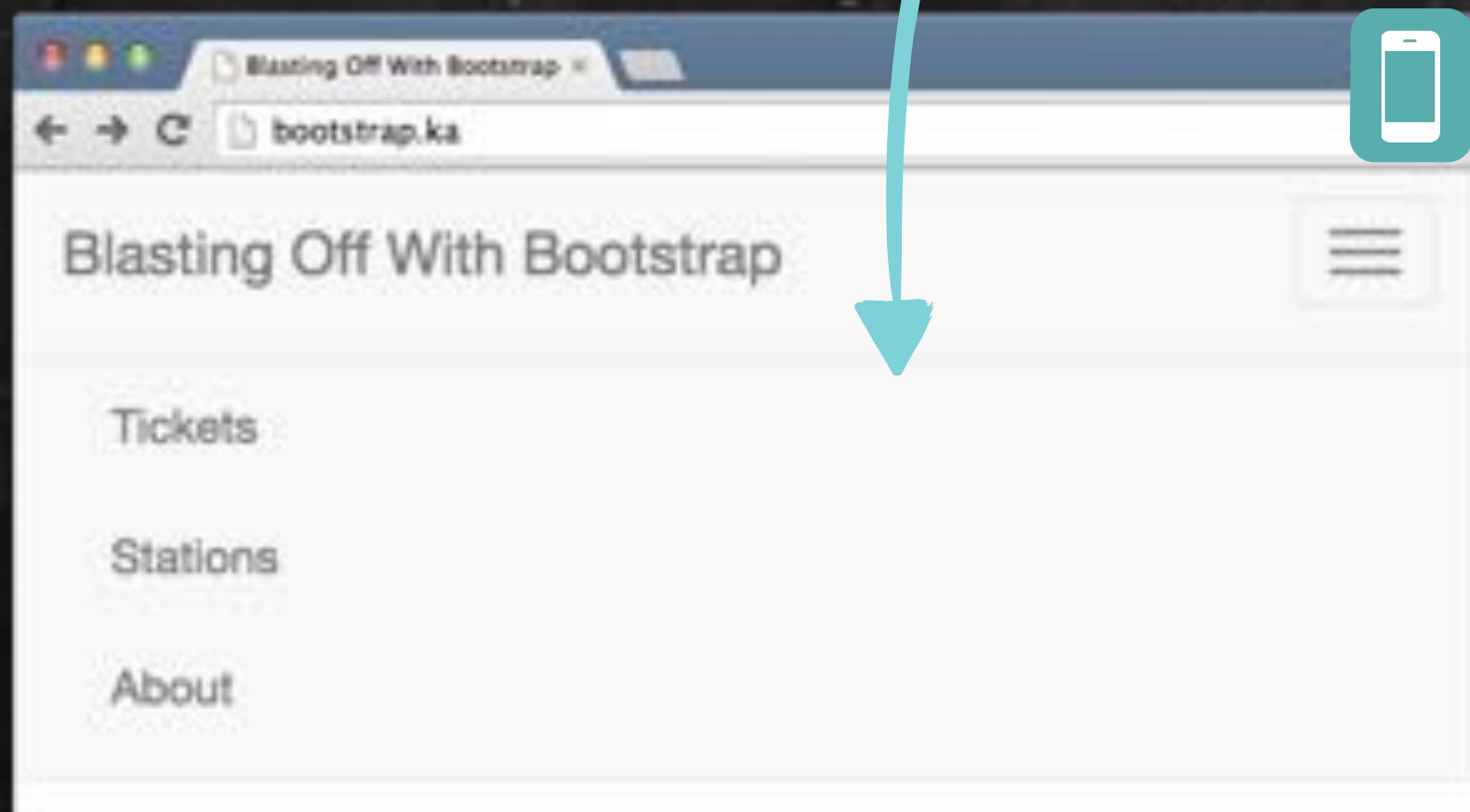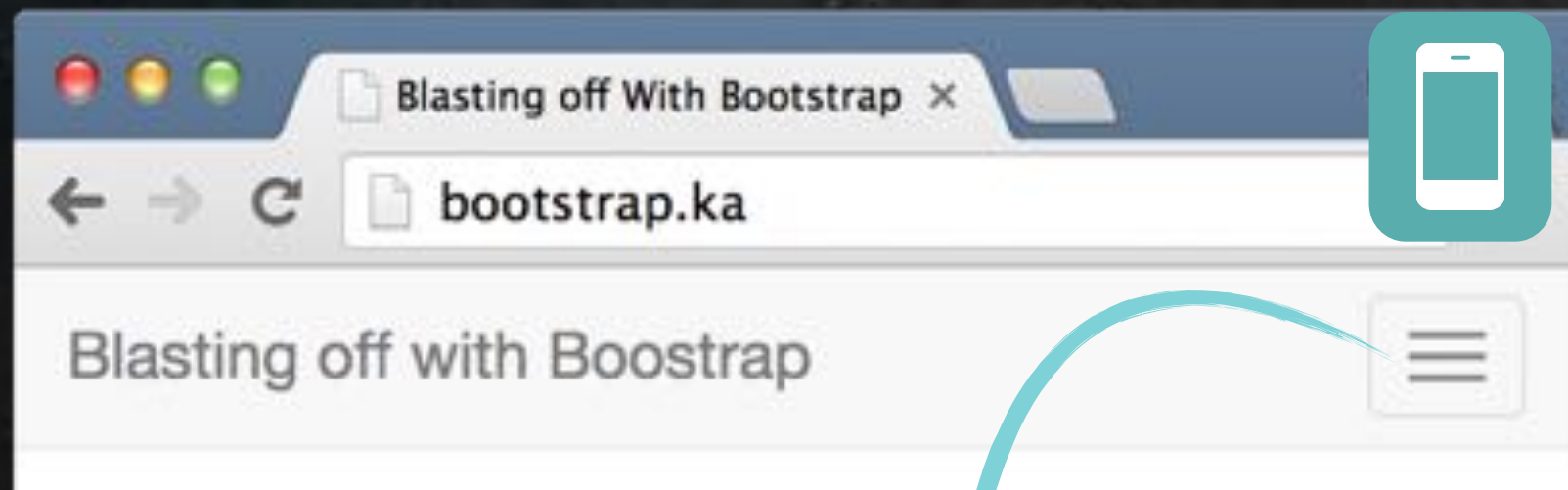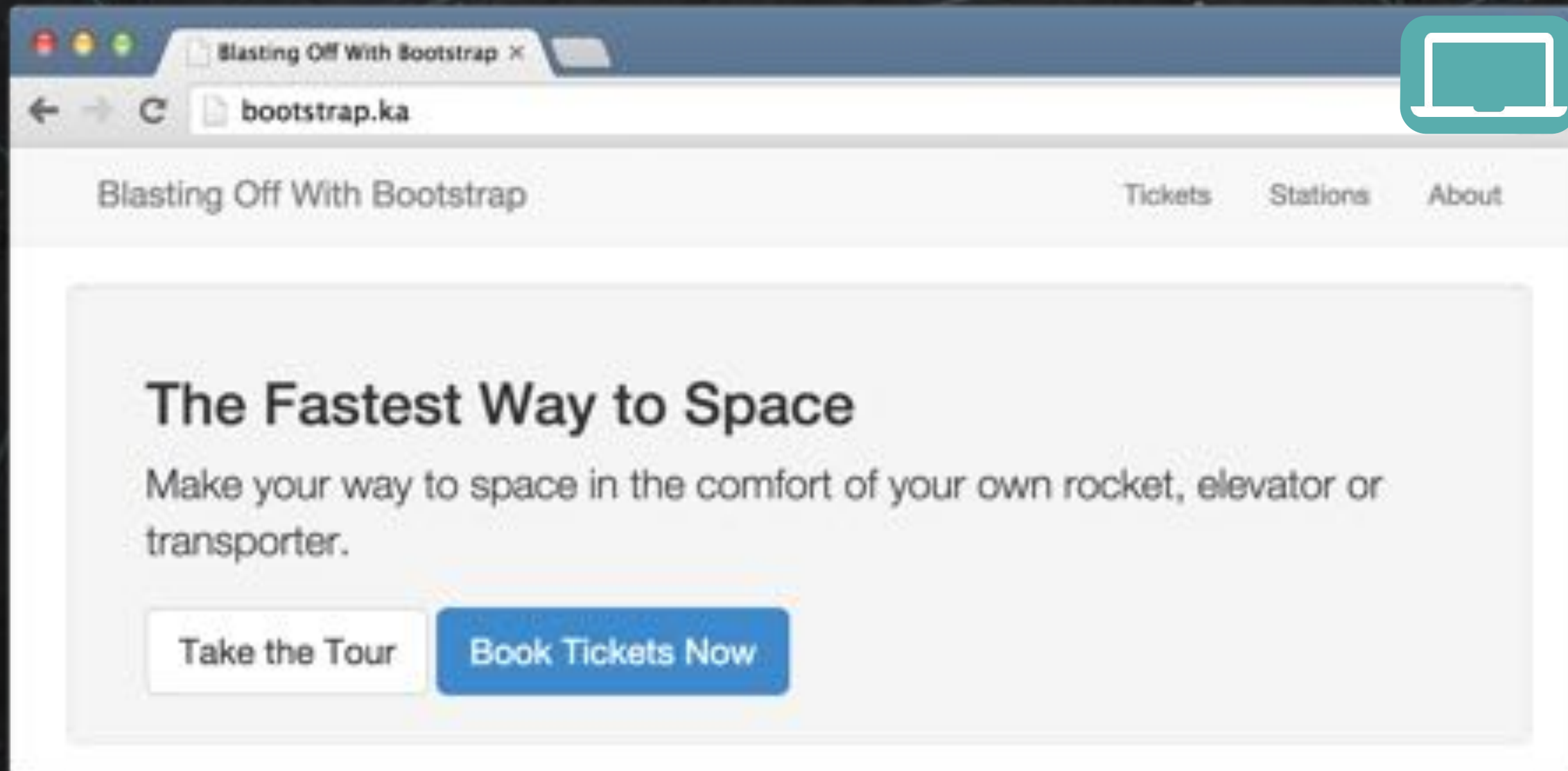
Will take up the entire row for extra small screens, but only part in larger

Our Toggleable Navigation

Our navigation links now each have their own row for extra small screens!

Our Navigation In Larger Modes

The navigation is only collapsed in extra small mode.

Our navigation looks the same in small mode and above

JavaScript Components

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Blasting Off
with Bootstrap