



Blasting Off

with Bootstrap



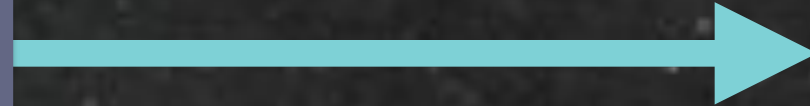
Lift Off

Level 1, Section 1

So You Want To Build a Website...

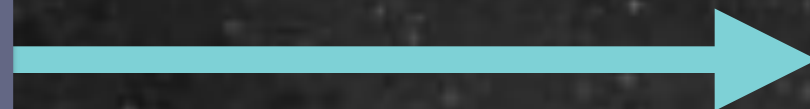
An attractive, functioning website requires basic knowledge of structure, style, and behavior.

HTML



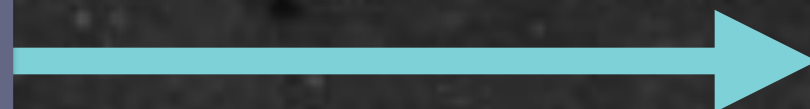
Page Structure

CSS



Element Styling

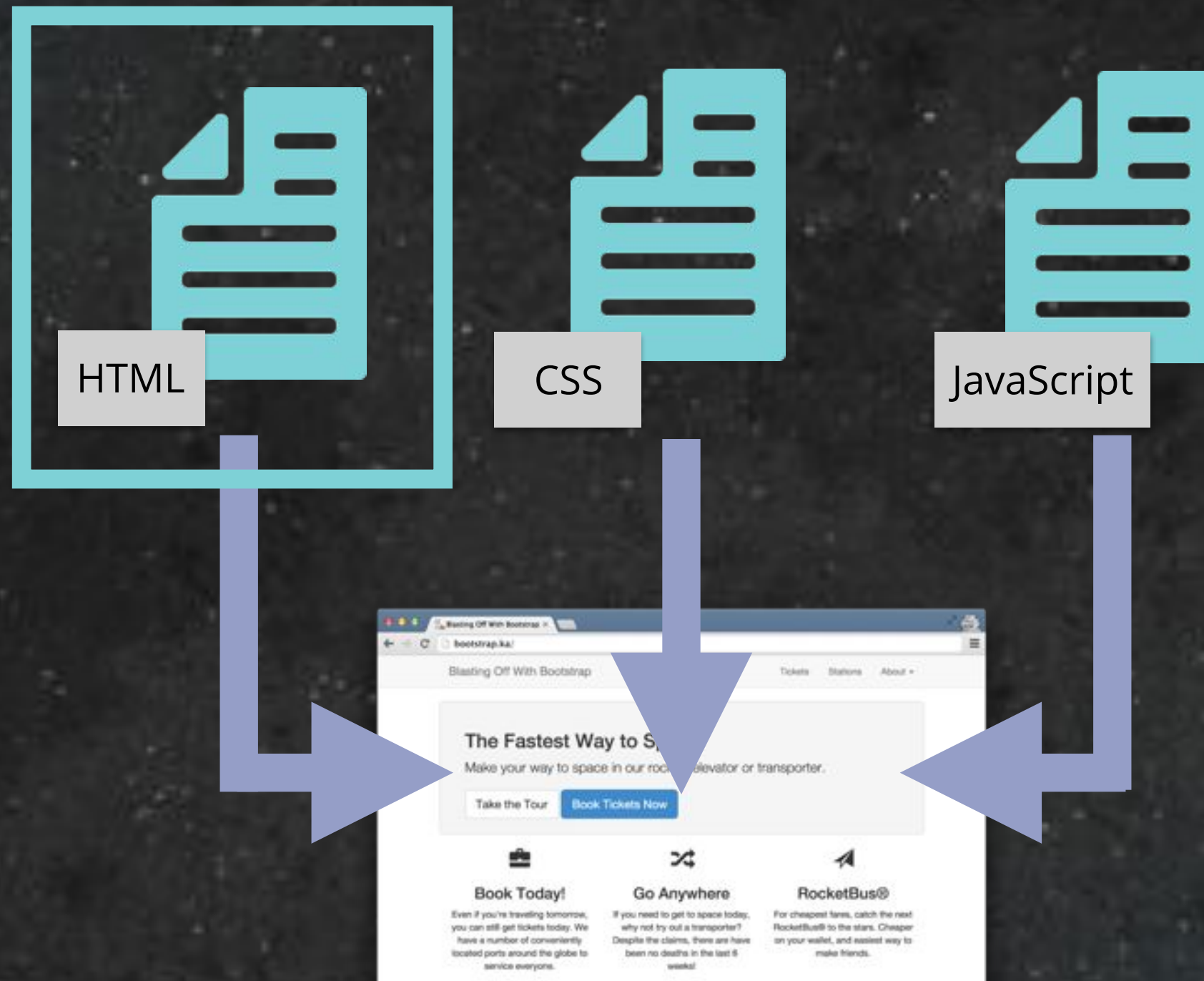
JavaScript



Page Behavior

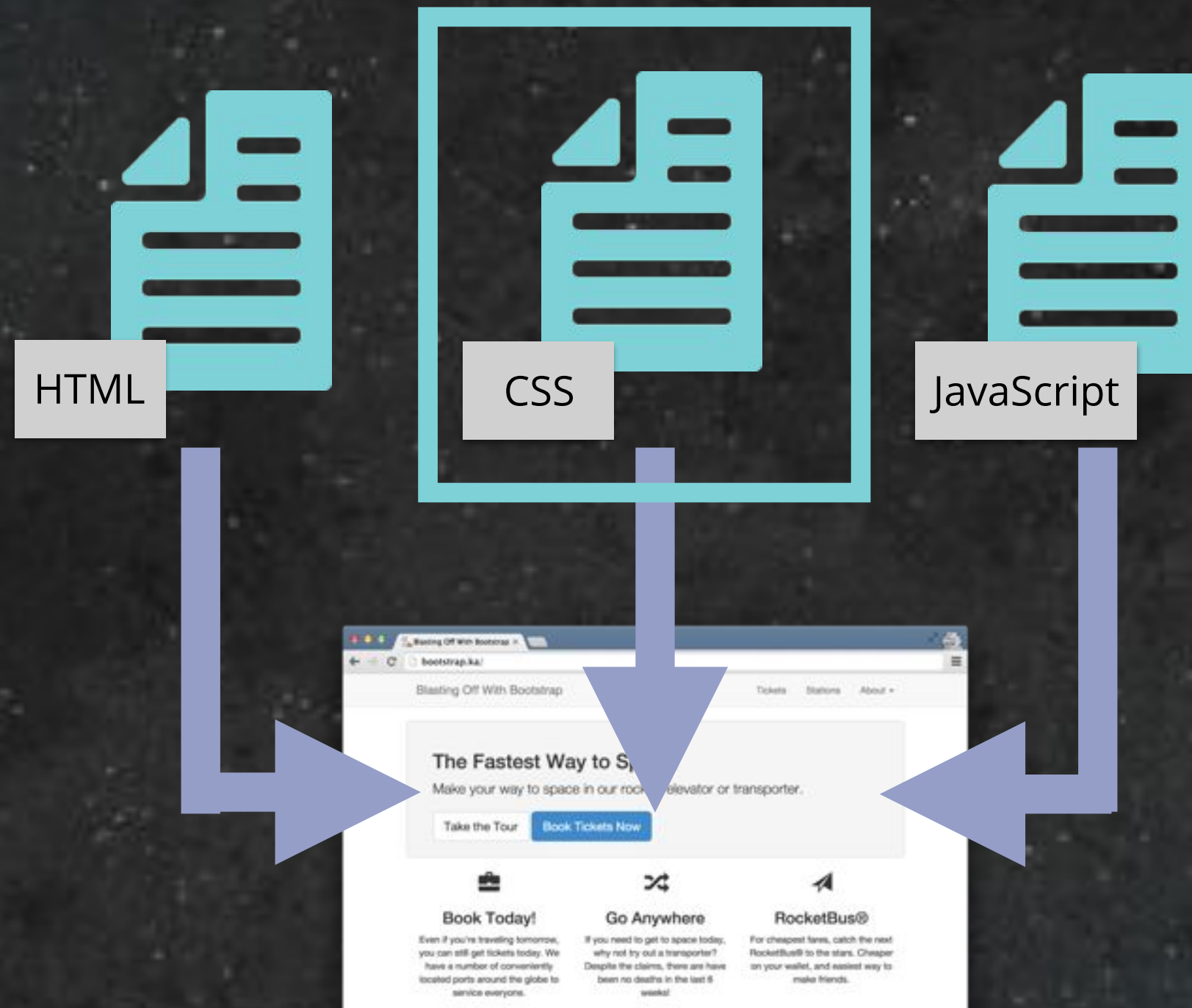
Website Development Follows Some Typical Patterns

Writing HTML, CSS, and JavaScript repeatedly will reveal just how much work a good website can require.



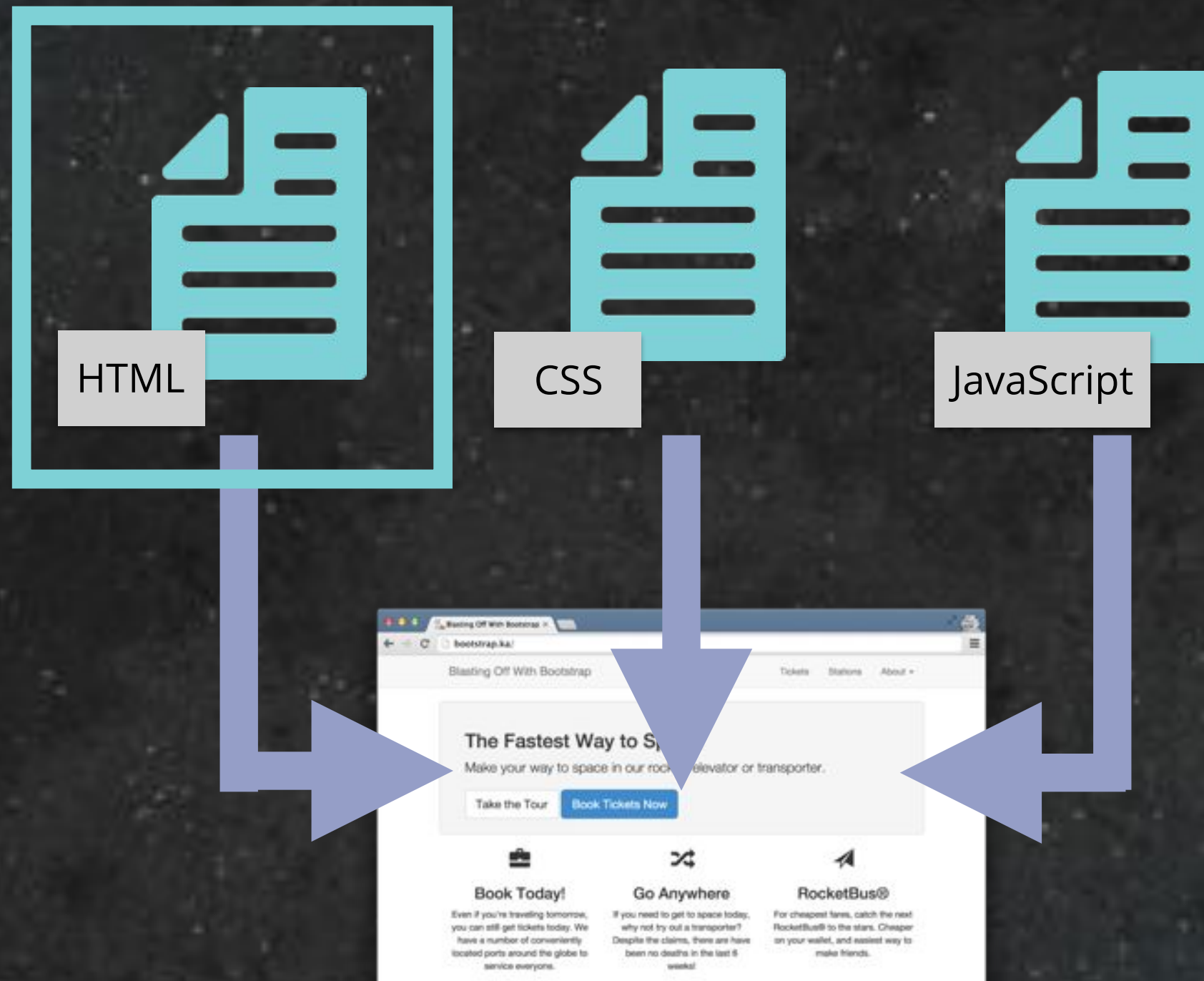
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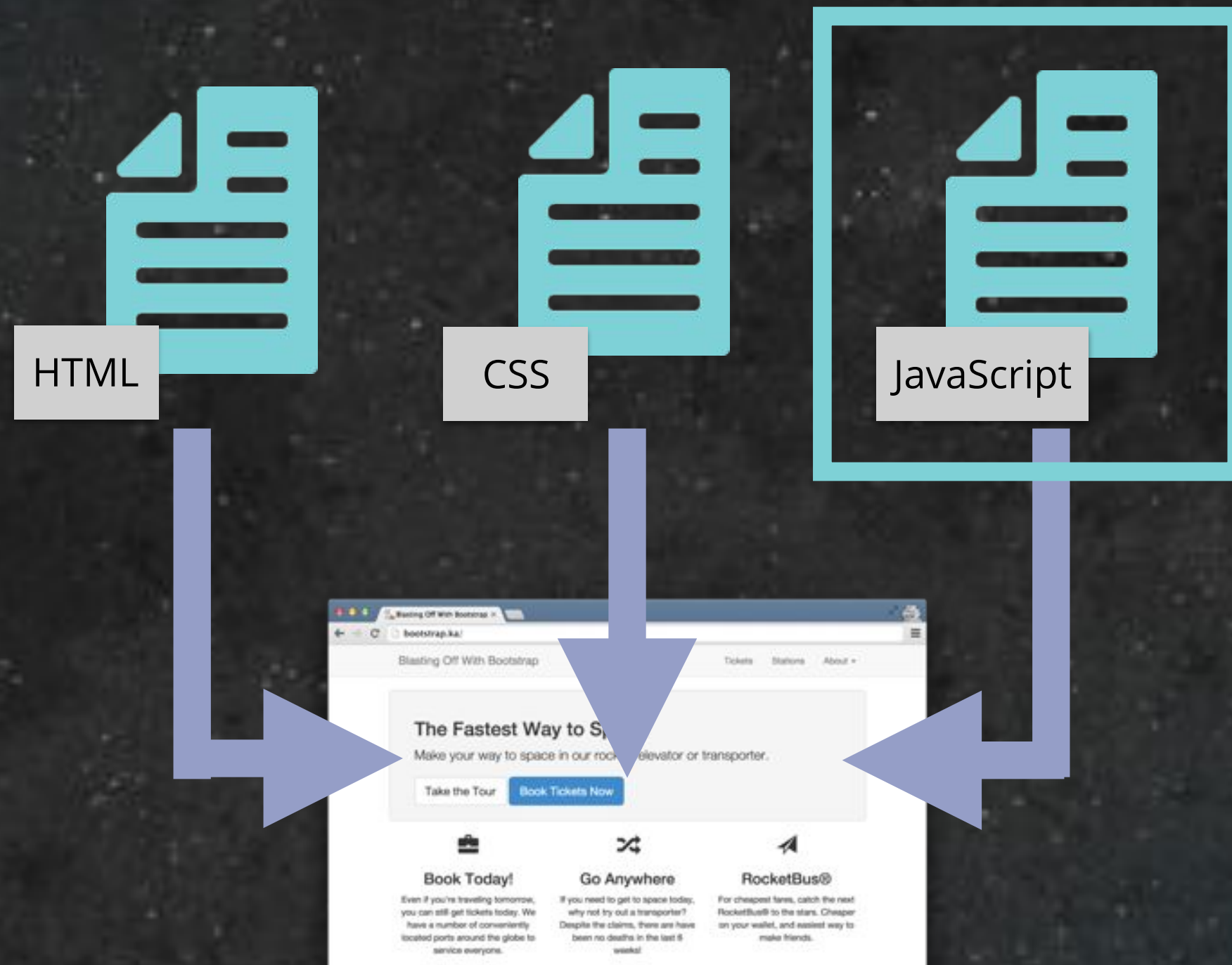
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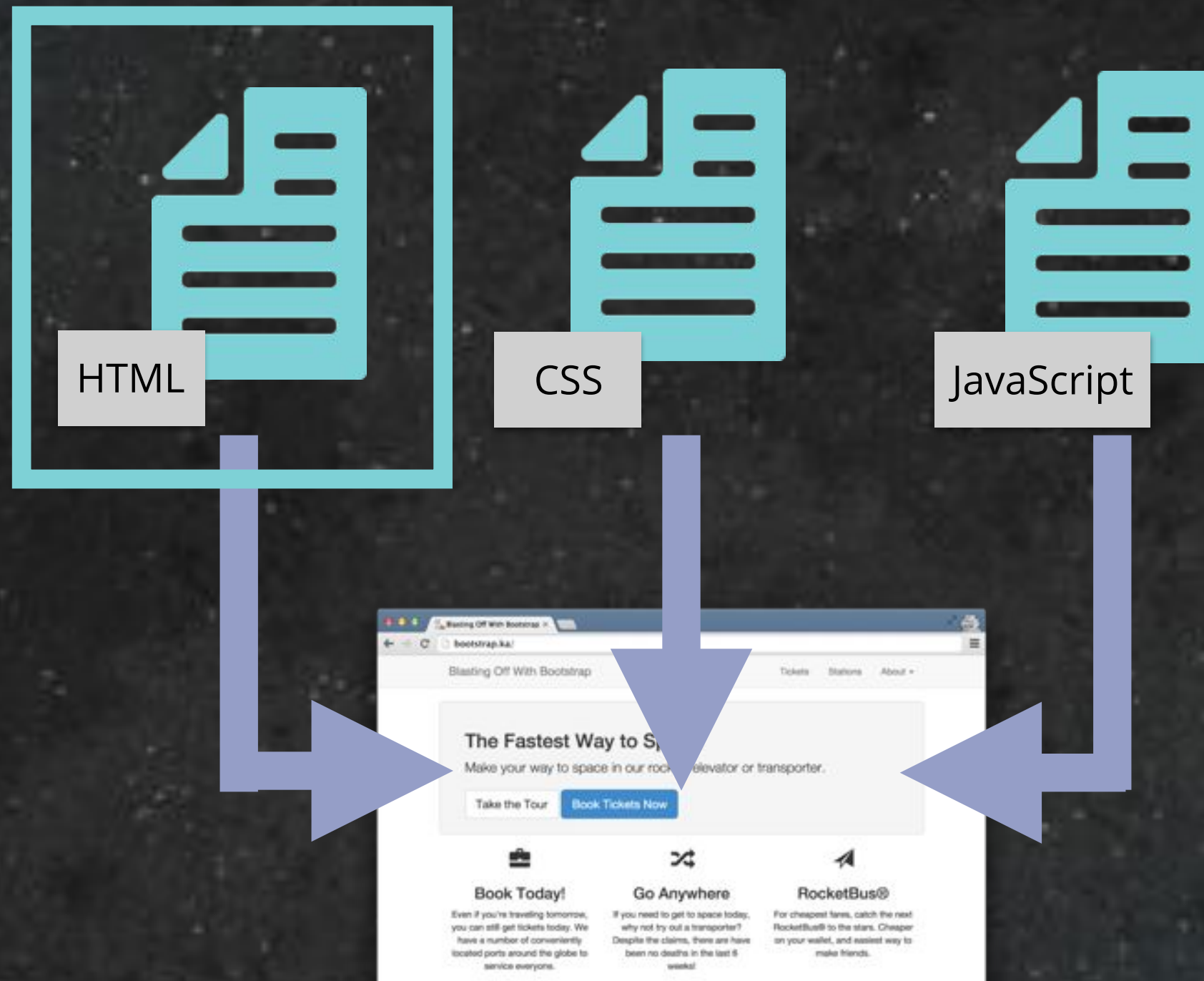
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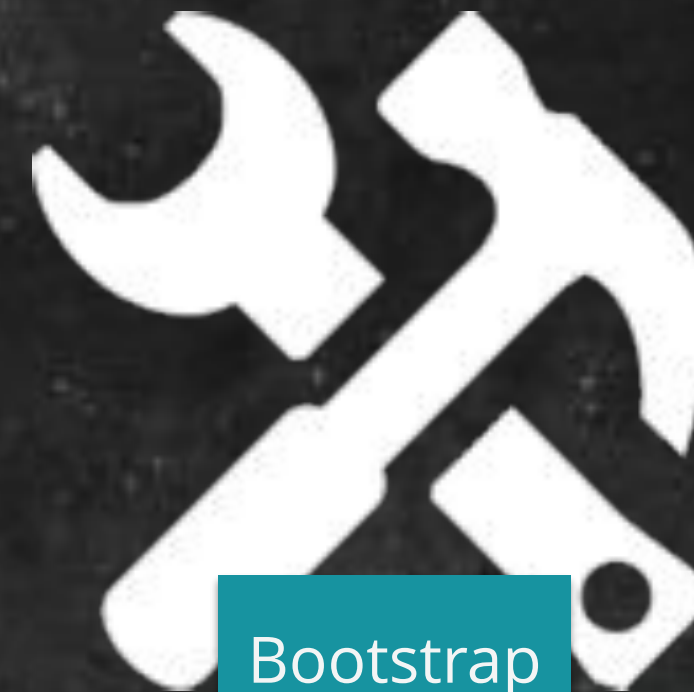
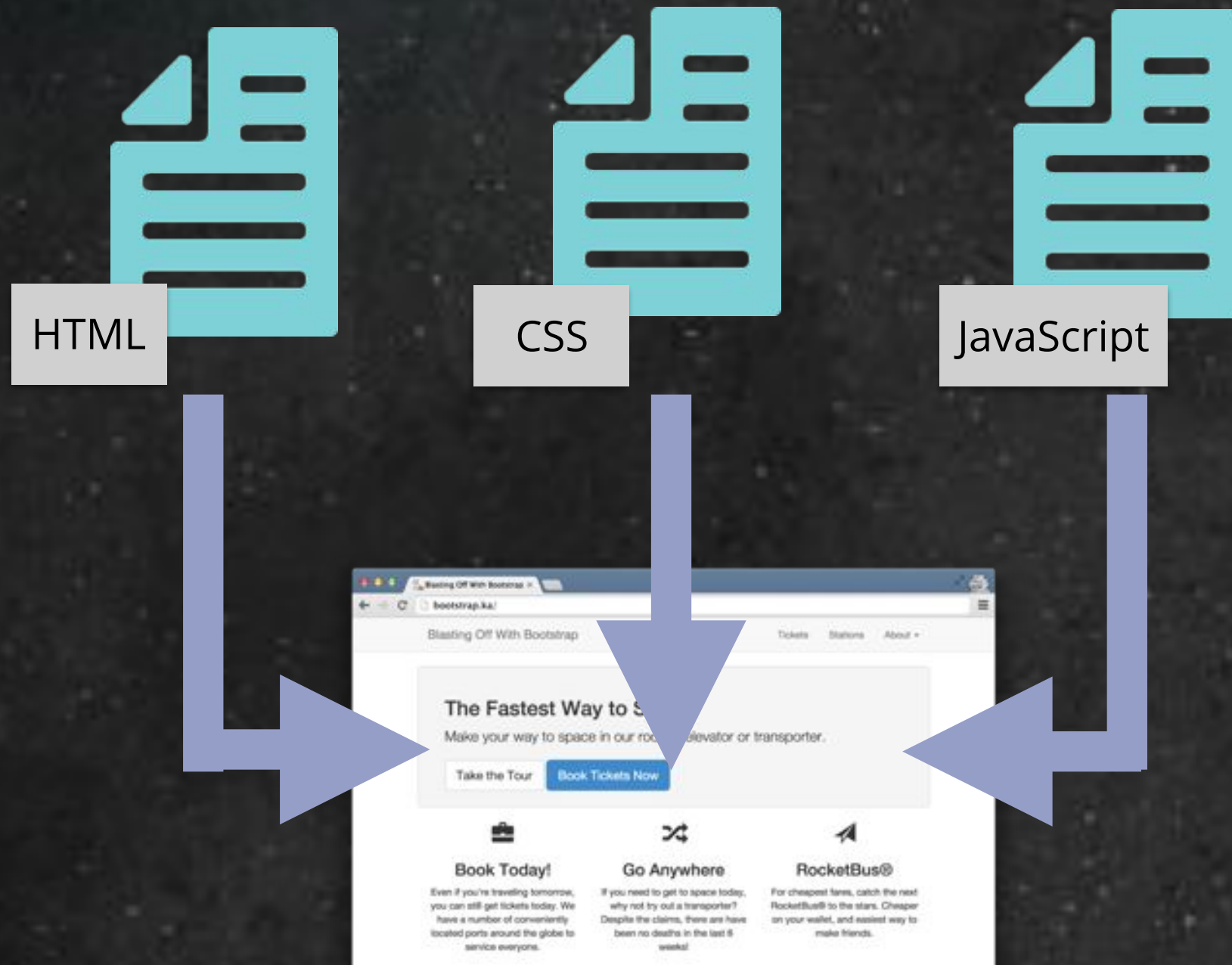
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Frameworks Can Make Our Site-Building Life Much Easier

A framework is a downloadable library of tools that assist with adding style and functionality to your website.

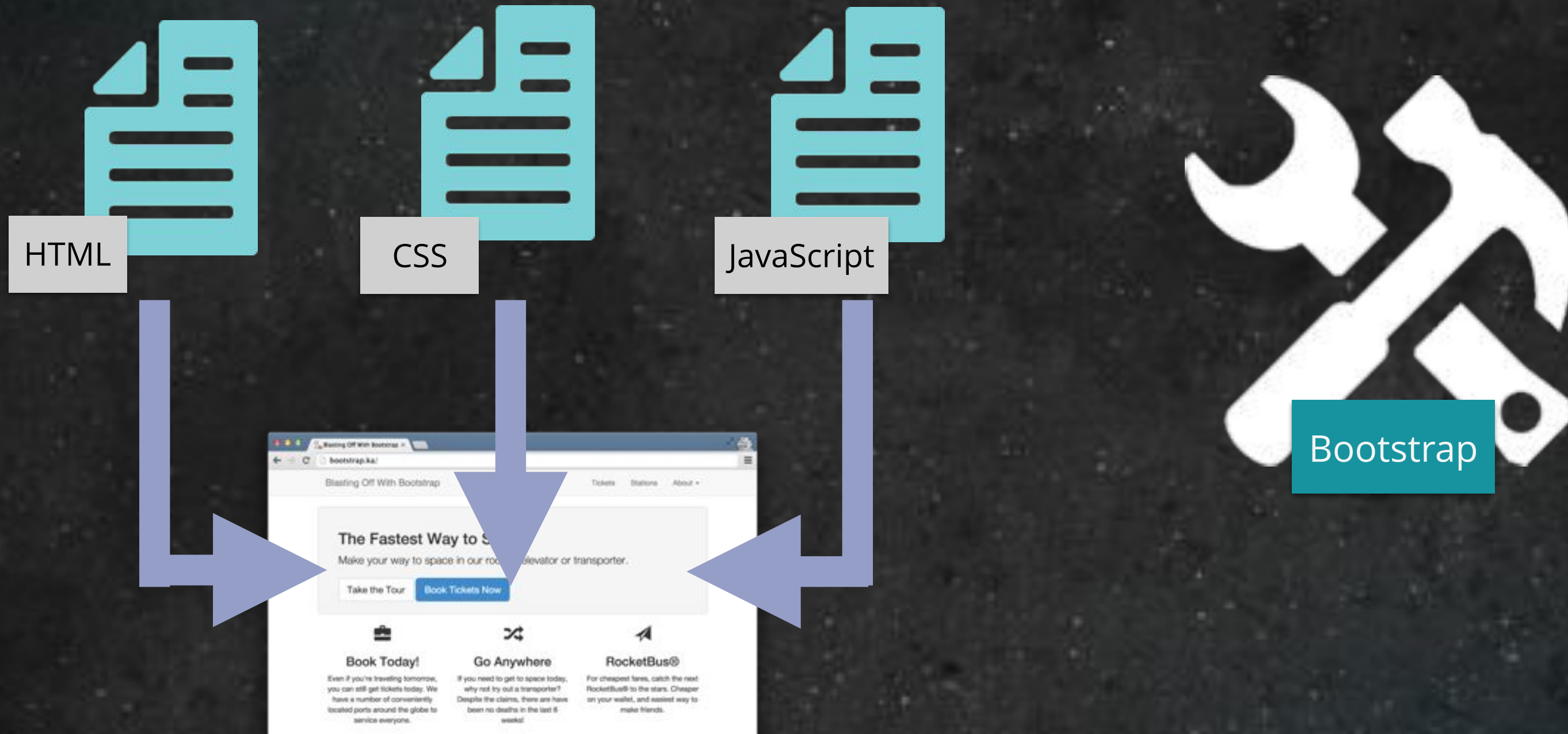


Bootstrap

Bootstrap is the most popular framework for quickly styling and organizing your website.

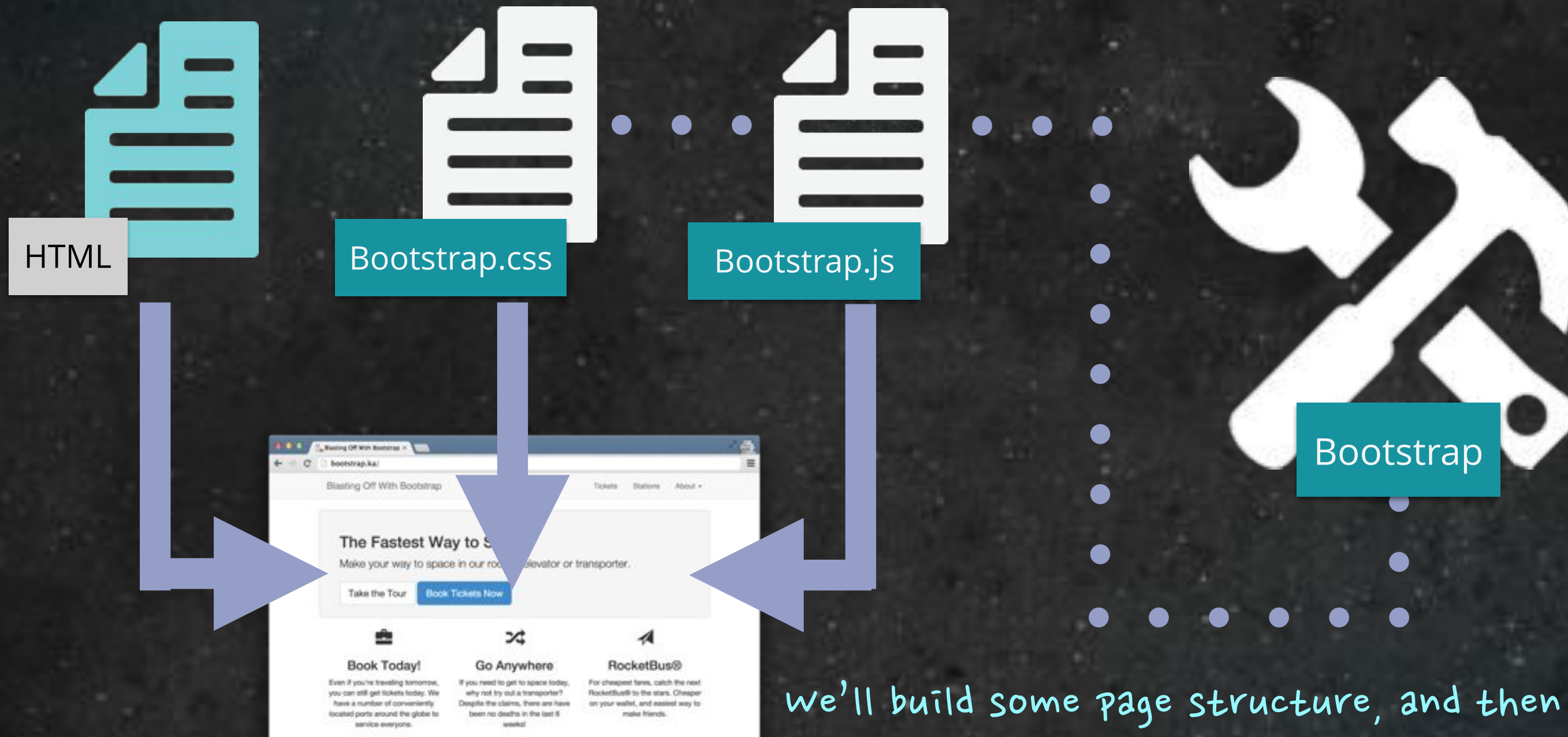
What Will Bootstrap Do For Us?

Bootstrap lets us skip writing CSS and JavaScript when starting out. We focus instead on HTML.



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we'll build some page structure, and then let Bootstrap take care of some useful styling and behavior. cool, right?

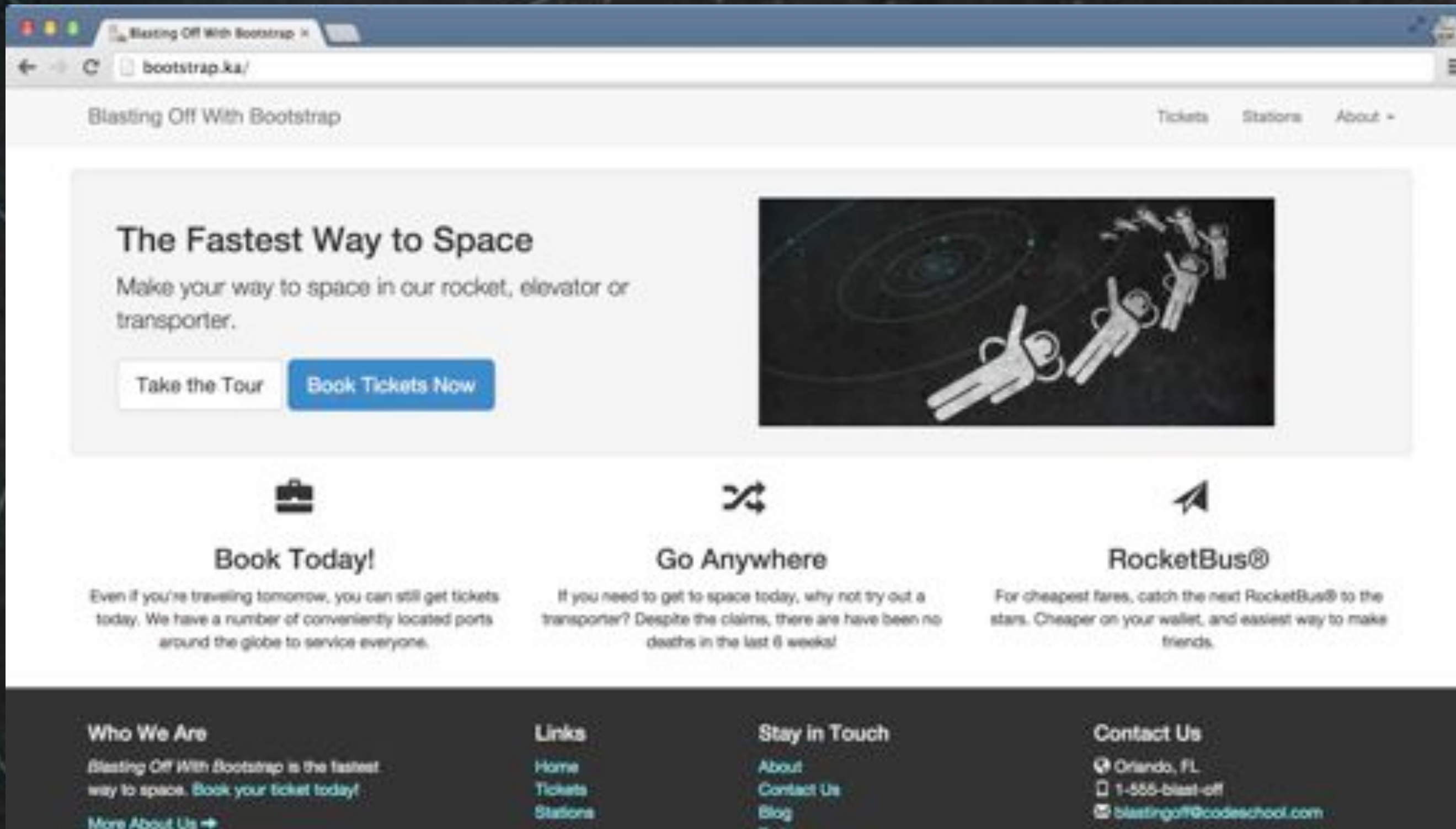
What to Expect From Bootstrap

Let's take a look at some great examples of the magic that Bootstrap can make very quickly.



What to Expect From Bootstrap

Here's the goal for our end product at the end of this course.



How To Get A Hold of Bootstrap

There are three ways to get access to the framework, and we'll focus on one in particular.

<http://go.codeschool.com/bootstrap-download>

Download

Bootstrap (currently v3.3.0) has a few easy ways to quickly get started, each one appealing to a different skill level and use case. Read through to see what suits your particular needs.

Bootstrap

Compiled and minified CSS, JavaScript, and fonts. No docs or original source files are included.

Download Bootstrap

Source code

Source Less, JavaScript, and font files, along with our docs. **Requires a Less compiler and some setup.**

Download source

Sass

Bootstrap ported from Less to Sass for easy inclusion in Rails, Compass, or Sass-only projects.

Download Sass

If you already know Less or Sass, you can give this one a shot, too.

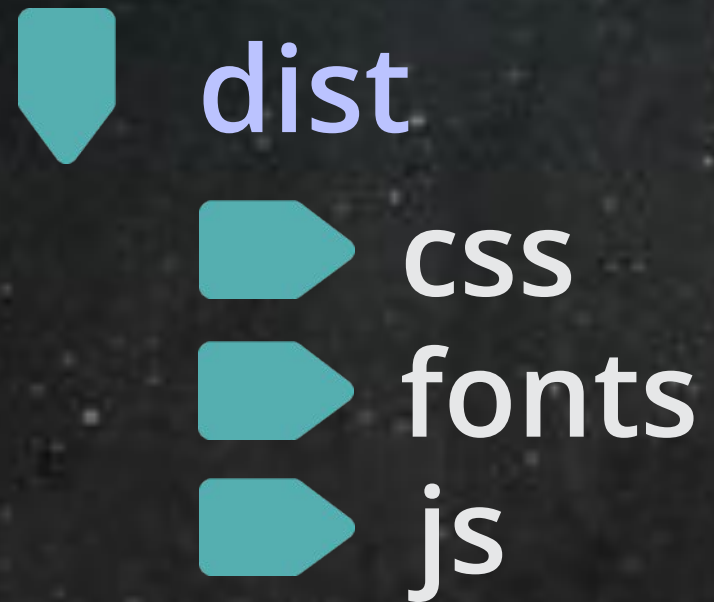
What Does The Framework Consist Of?

Let's take a quick at Bootstrap's file structure to get a broad awareness of what we're using.

► dist

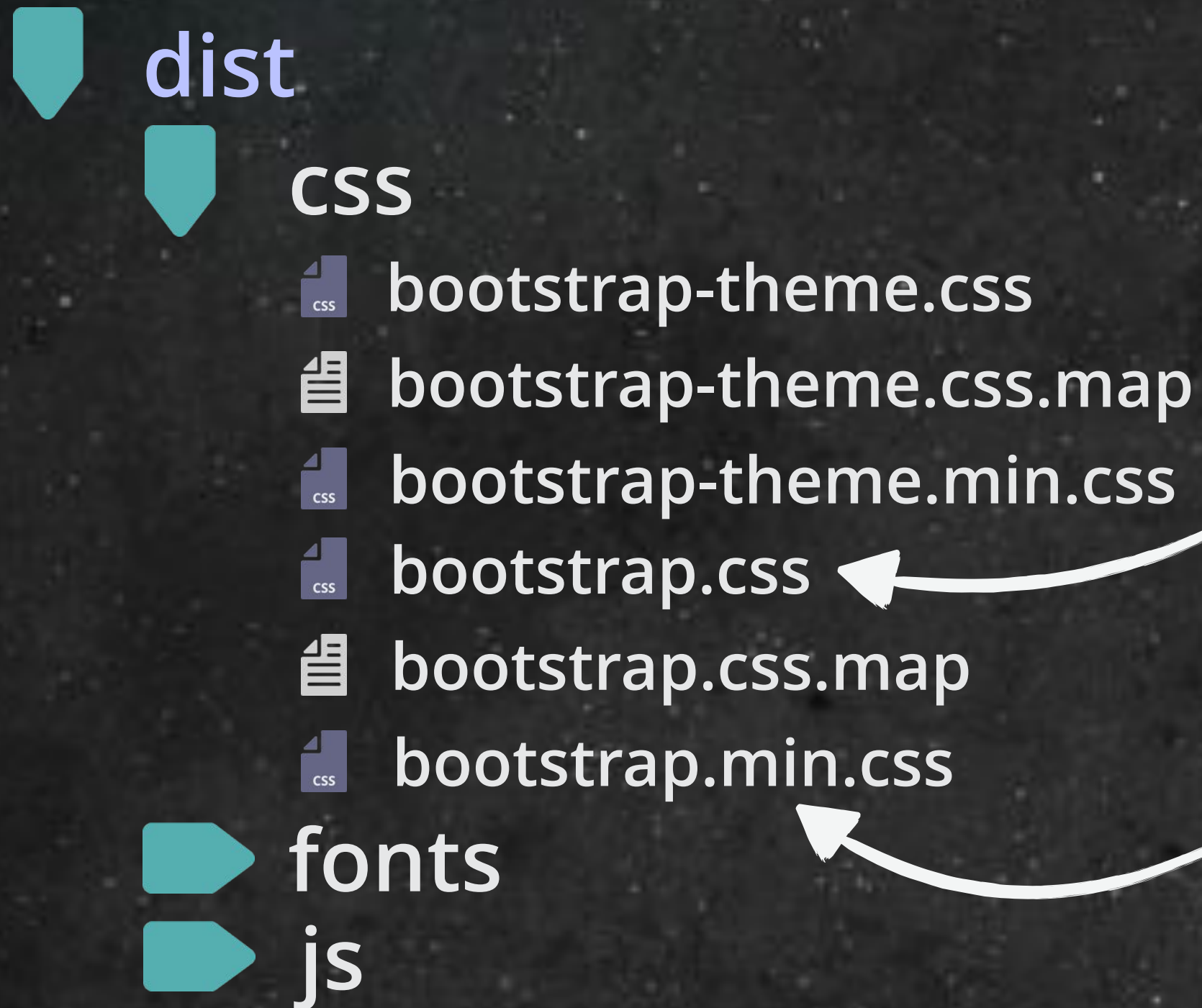
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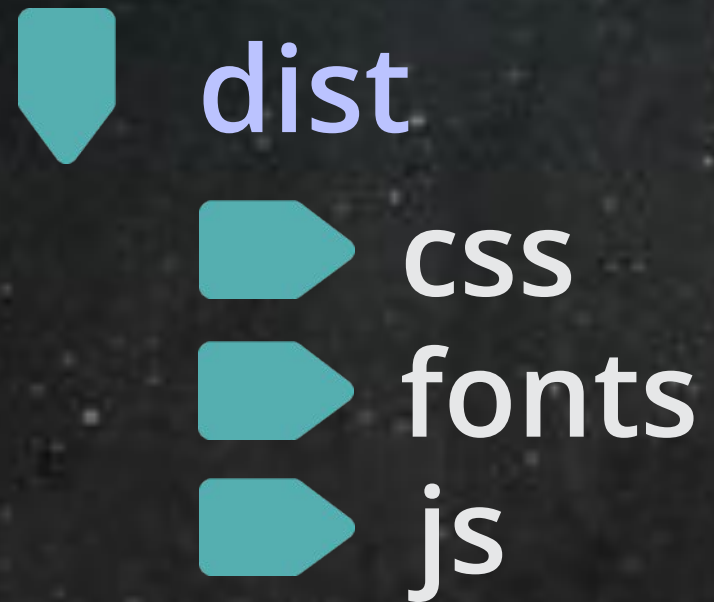


This is the main **bootstrap.css** file we'll use in our HTML pages. It will save us from needing to write a bunch of CSS.

The **.min** files are used when the site goes live, but for our development we'll use the non-min ones.

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 dist

 CSS

 fonts

 glyphsicons-halflings-regular.eot

 glyphsicons-halflings-regular.svg

 glyphsicons-halflings-regular.ttf

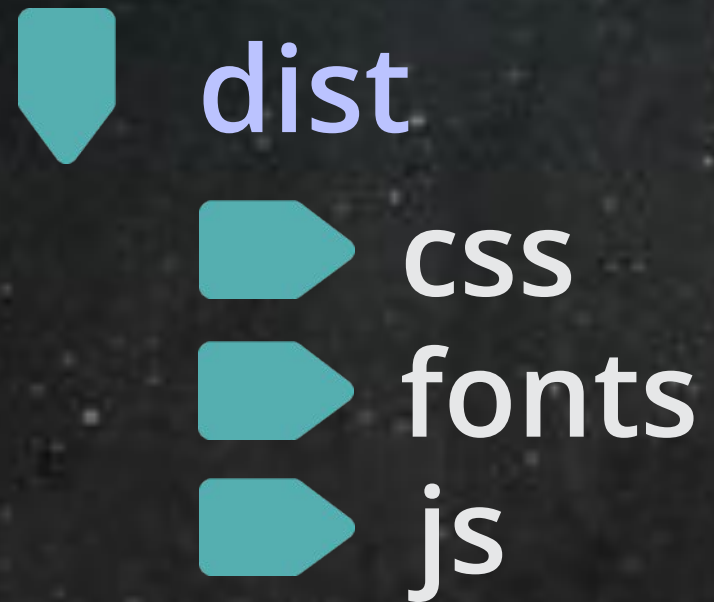
 glyphsicons-halflings-regular.woff

 js

Bootstrap provides
a font that can be
used as icons.
We'll get to this
pretty soon.

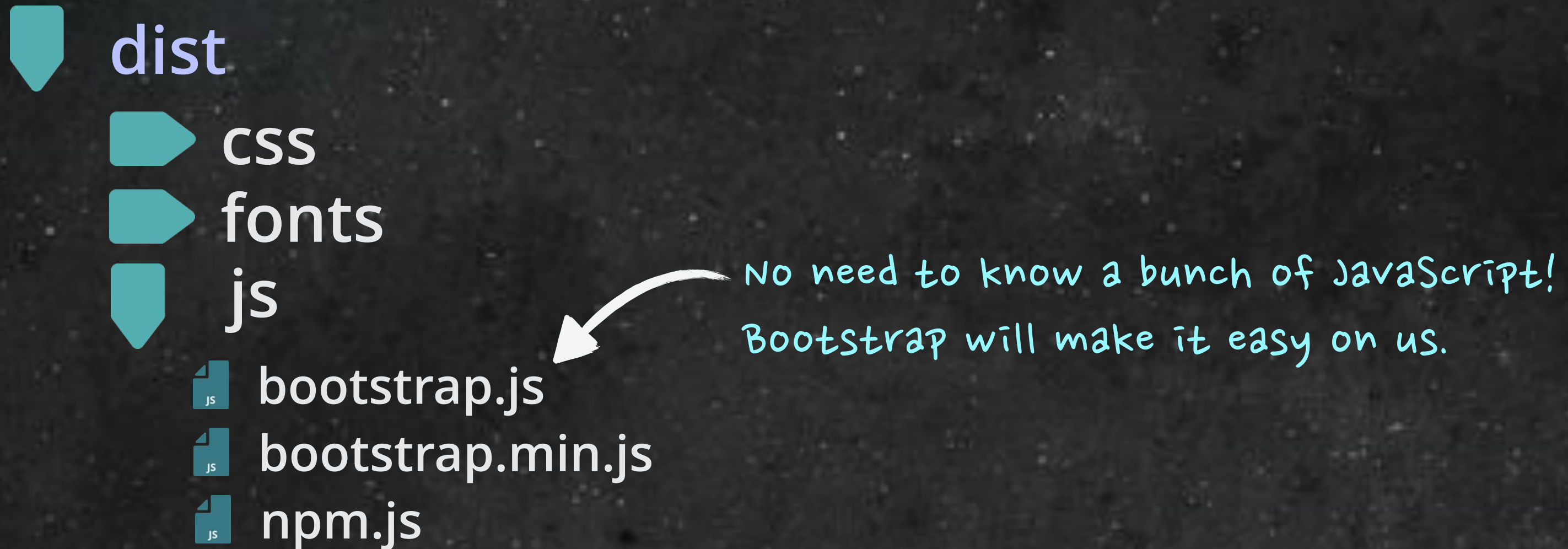
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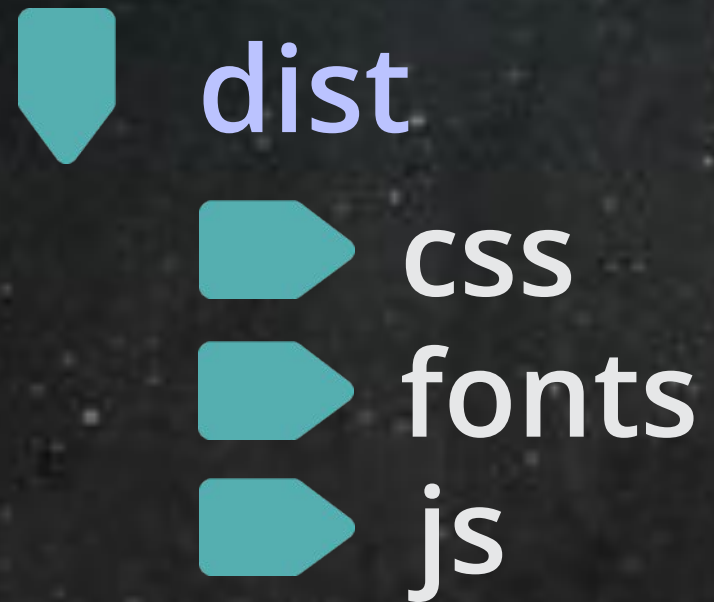
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Getting Started: Creating a Basic HTML File

To get up and running with Bootstrap, we'll need to establish our site's home page with some HTML.

```
<!DOCTYPE html>
```

```
<html lang='en'>
```

```
<head>
```

```
<title>Blasting Off With Bootstrap</title>
```

```
</head>
```

```
</html>
```



First, we'll get setup with a doctype...



...then a basic head tag with a page title.

Getting Started: Creating a Basic HTML File

To get up and running with Bootstrap, we'll need to establish our site's home page with some HTML.

```
<!DOCTYPE html>
<html lang='en'>
  <head>
    <title>Blasting Off With Bootstrap</title>
  </head>
  <body>
    <h1>Blasting Off With Bootstrap</h1>
    <h2>The Fastest Way to Space</h2>

    <h3>Book Today!</h3>

    <h3>Go Anywhere</h3>

    <h3>RocketBus&reg;</h3>

  </body>
</html>
```

Next, we'll make a body, and some organizational headings.

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  <head>
    <title>Blasting Off With Bootstrap</title>
  </head>
  <body>
    <h1>Blasting Off With Bootstrap</h1>
    <h2>The Fastest Way to Space</h2>
    <p>Make your way to space in the comfort of your own rocket, elevator or transporter.</p>

    <h3>Book Today!</h3>
    <p>Even if you're traveling tomorrow, you can still get tickets today. We have a
number of conveniently located ports around the globe to service everyone.</p>
    <h3>Go Anywhere</h3>
    <p>If you need to get to space today, why not try out a transporter? Despite the claims,
there are have been no deaths in the last 6 weeks!</p>
    <h3>RocketBus&reg;</h3>
    <p>For cheapest fares, catch the next RocketBus® to the stars. Cheaper on your wallet,
and easiest way to make friends.</p>

  </body>
</html>
```

Now we'll add some paragraphs
to describe our headings.



Getting Started: Creating a Basic HTML File

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  </head>
  <body>
    <h1>Blasting Off With Bootstrap</h1>
    <h2>The Fastest Way to Space</h2>
    <p>
      <h3>Book Today!</h3>
      <p>
        <h3>Go Anywhere</h3>
        <p>
          <h3>RocketBus&reg;</h3>
          <p>
            </p>
          </p>
        </p>
      </p>
    </body>
  </html>
```


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```
<!DOCTYPE html>
<html lang='en'>
  <head>
    <title>Blasting Off With Bootstrap</title>
  </head>
  <body>
    <h1>Blasting Off With Bootstrap</h1>
    <h2>The Fastest Way to Space</h2><p> . . . </p>

    <h3>Book Today!</h3><p> . . . </p>

    <h3>Go Anywhere</h3><p> . . . </p>

    <h3>RocketBus&reg;</h3><p> . . . </p>

  </body>
</html>
```

Getting Started: Creating a Basic HTML File

To get up and running with Bootstrap, we'll need to establish our site's home page with some HTML.

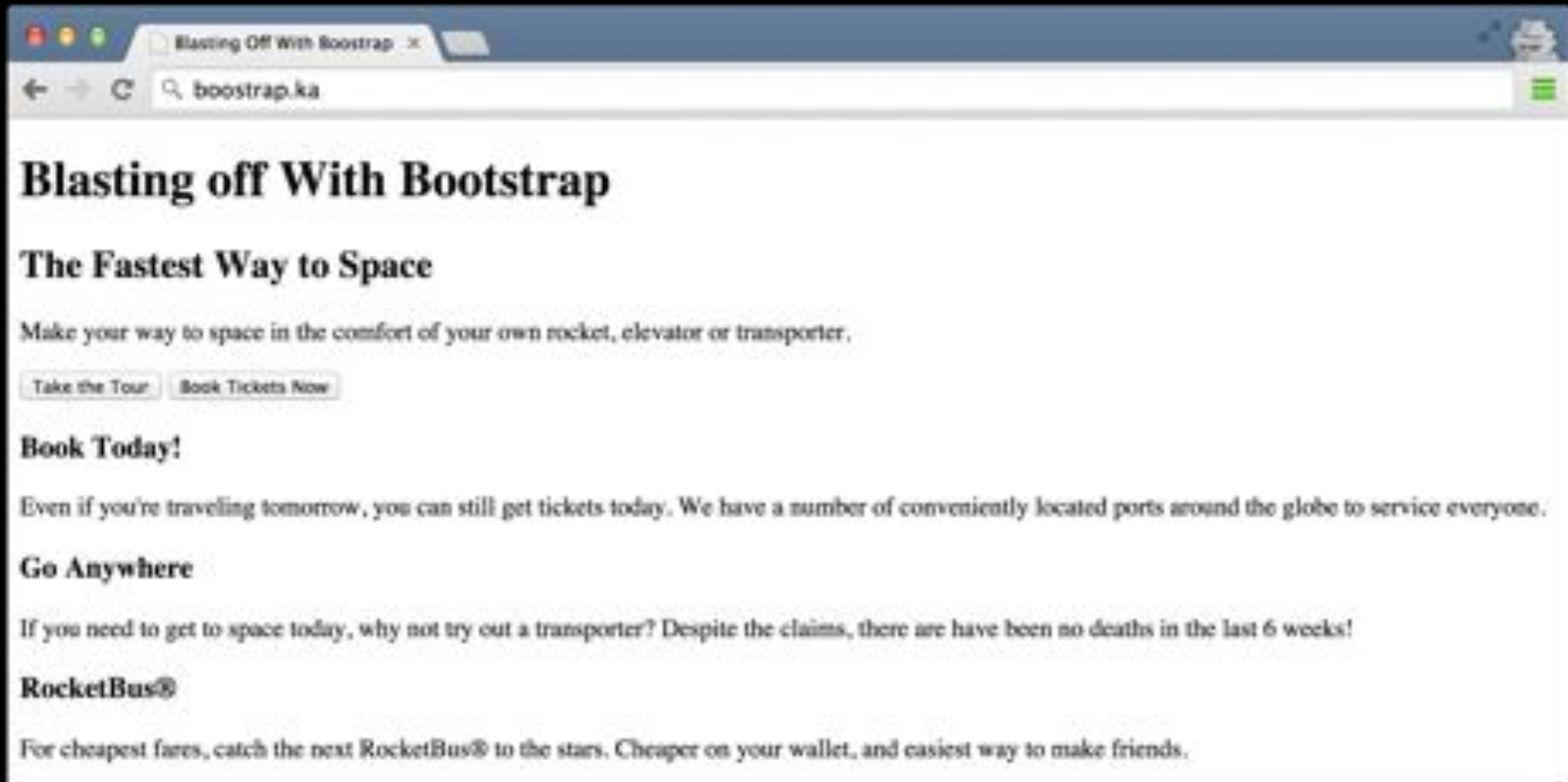
```
<!DOCTYPE html>
<html lang='en'>
  <head>
    <title>Blasting Off With Bootstrap</title>
  </head>
  <body>
    <h1>Blasting Off With Bootstrap</h1>
    <h2>The Fastest Way to Space</h2><p> . . . </p>
    <button type='button'>Take the Tour</button>
    <button type='button'>Book Tickets Now</button>
```

To finish our content, we'll add a couple buttons for a user to engage with under our h2 and its paragraph.

```
    <h3>Book Today!</h3><p> . . . </p>
    <h3>Go Anywhere</h3><p> . . . </p>
    <h3>RocketBus&reg;</h3><p> . . . </p>
  </body>
</html>
```


Viewing Our Page Before Using Bootstrap

Here's a view of our basic HTML without any of the magic of Bootstrap.



Adding the Bootstrap Framework

To get Bootstrap acting on our content, we'll need to import a few extra items on our page.

```
<!DOCTYPE html>
<html lang='en'>
  <head>
    <title>Blasting Off With Bootstrap</title>
    <link href='css/bootstrap.css' rel='stylesheet'>
  </head>
  <body>
    . . .

  </body>
</html>
```

We'll first need to include the Bootstrap library by using a relative path.



dist/index.html

HTML

Adding the Bootstrap Framework

To get Bootstrap acting on our content, we'll need to import a few extra items on our page.

```
<!DOCTYPE html>
<html lang='en'>
  <head>
    <title>Blasting Off With Bootstrap</title>
    <link href='css/bootstrap.css' rel='stylesheet'>
  </head>
  <body>
```

...

we'll also include jQuery
because Bootstrap needs it to
do a bunch of cool things.

```
<script src='https://ajax.googleapis.com/ajax/libs/jquery/1.11.1/jquery.min.js'></script>
```

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



dist/index.html

HTML

Adding the Bootstrap Framework

To get Bootstrap acting on our content, we'll need to import a few extra items on our page.

```
<!DOCTYPE html>
<html lang='en'>
  <head>
    <title>Blasting Off With Bootstrap</title>
    <link href='css/bootstrap.css' rel='stylesheet'>
  </head>
  <body>
```

...

Additionally, here's the
Bootstrap JavaScript library...
we'll explore this later.

```
    <script src='https://ajax.googleapis.com/ajax/libs/jquery/1.11.1/jquery.min.js'></script>
    <script src='js/bootstrap.js'></script>
  </body>
</html>
```

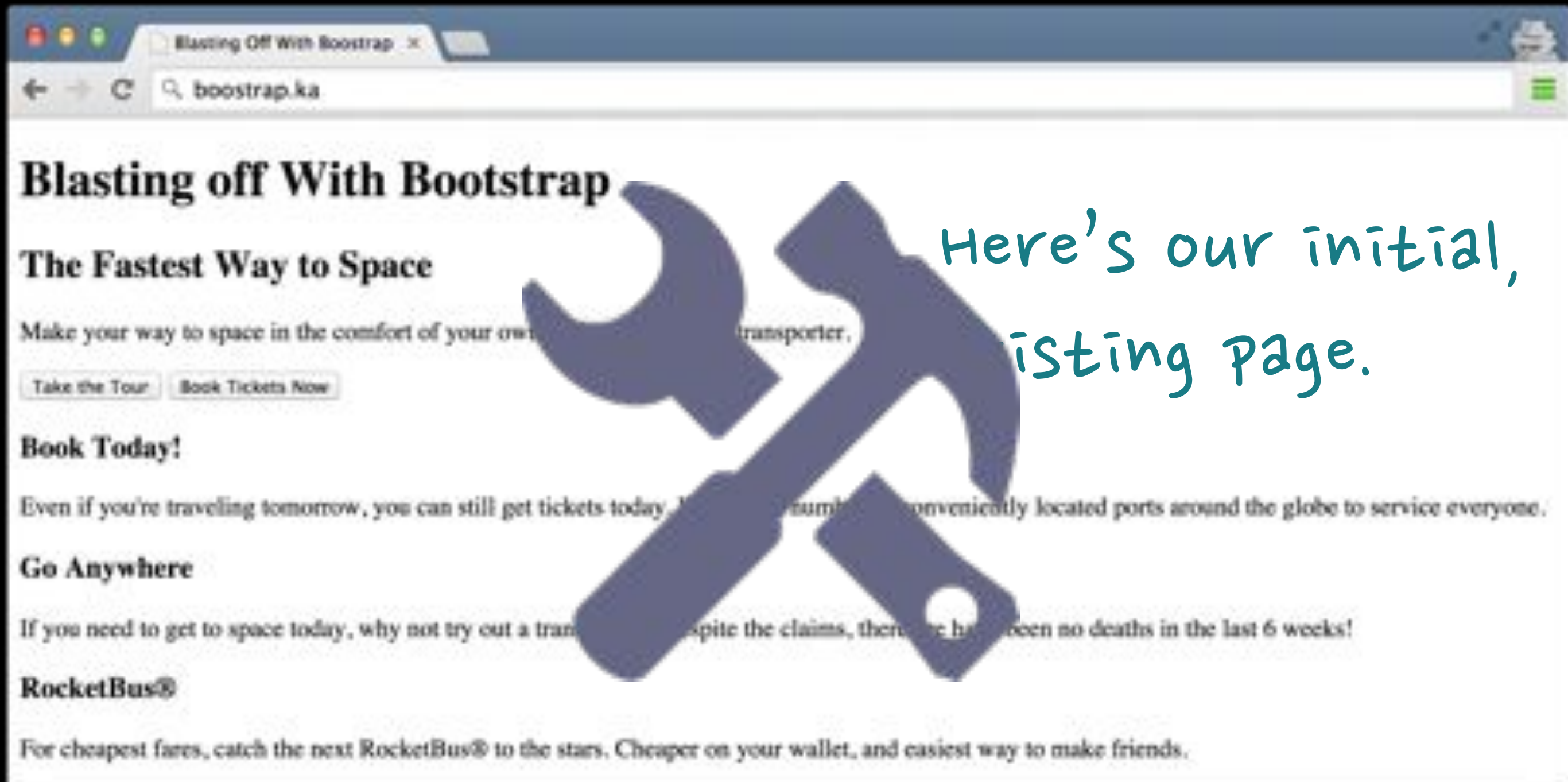


dist/index.html

HTML

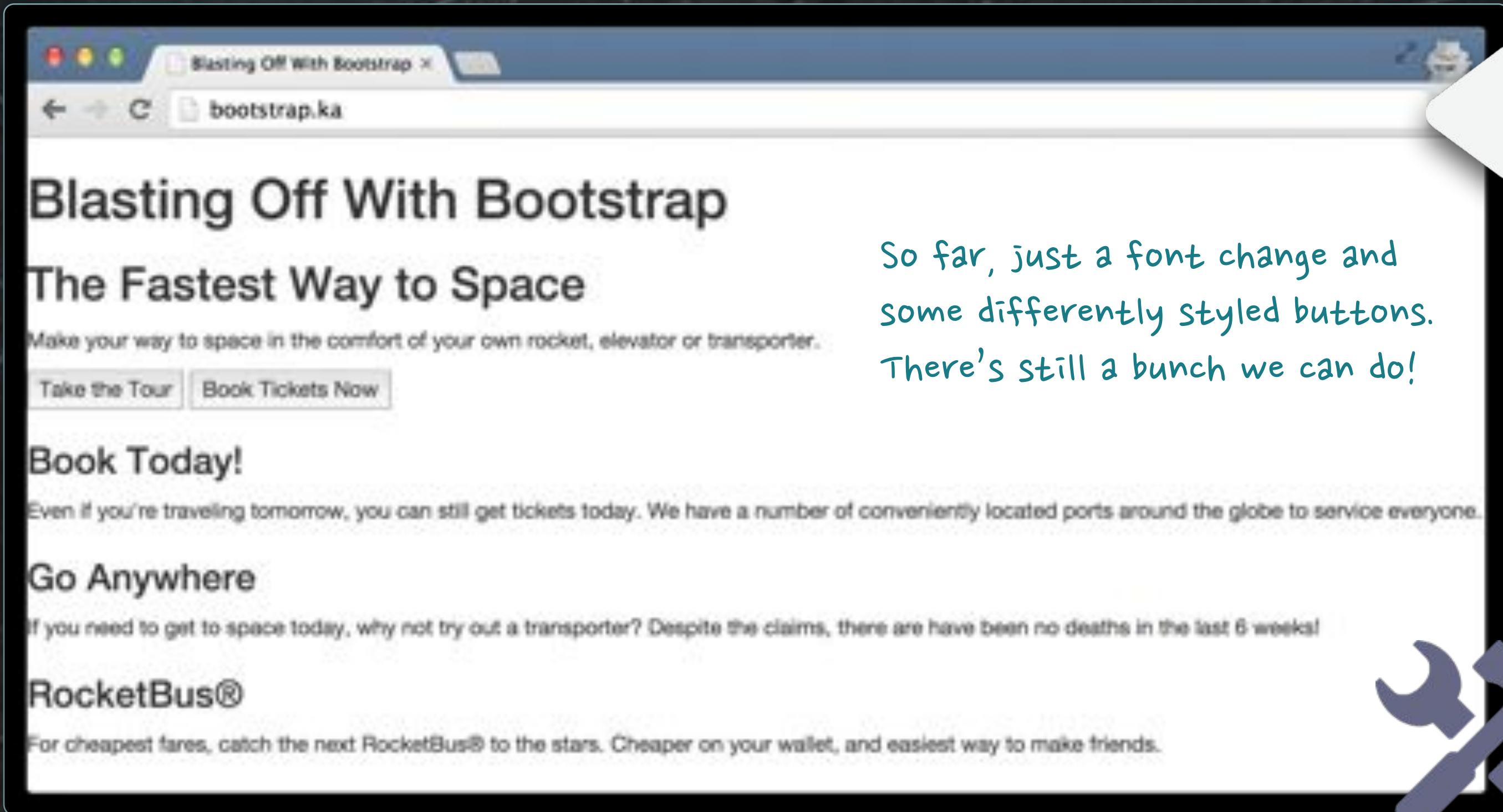
The Effects of Adding Bootstrap

Let's check out what Bootstrap will do to our existing HTML page.



The Effects of Adding Bootstrap

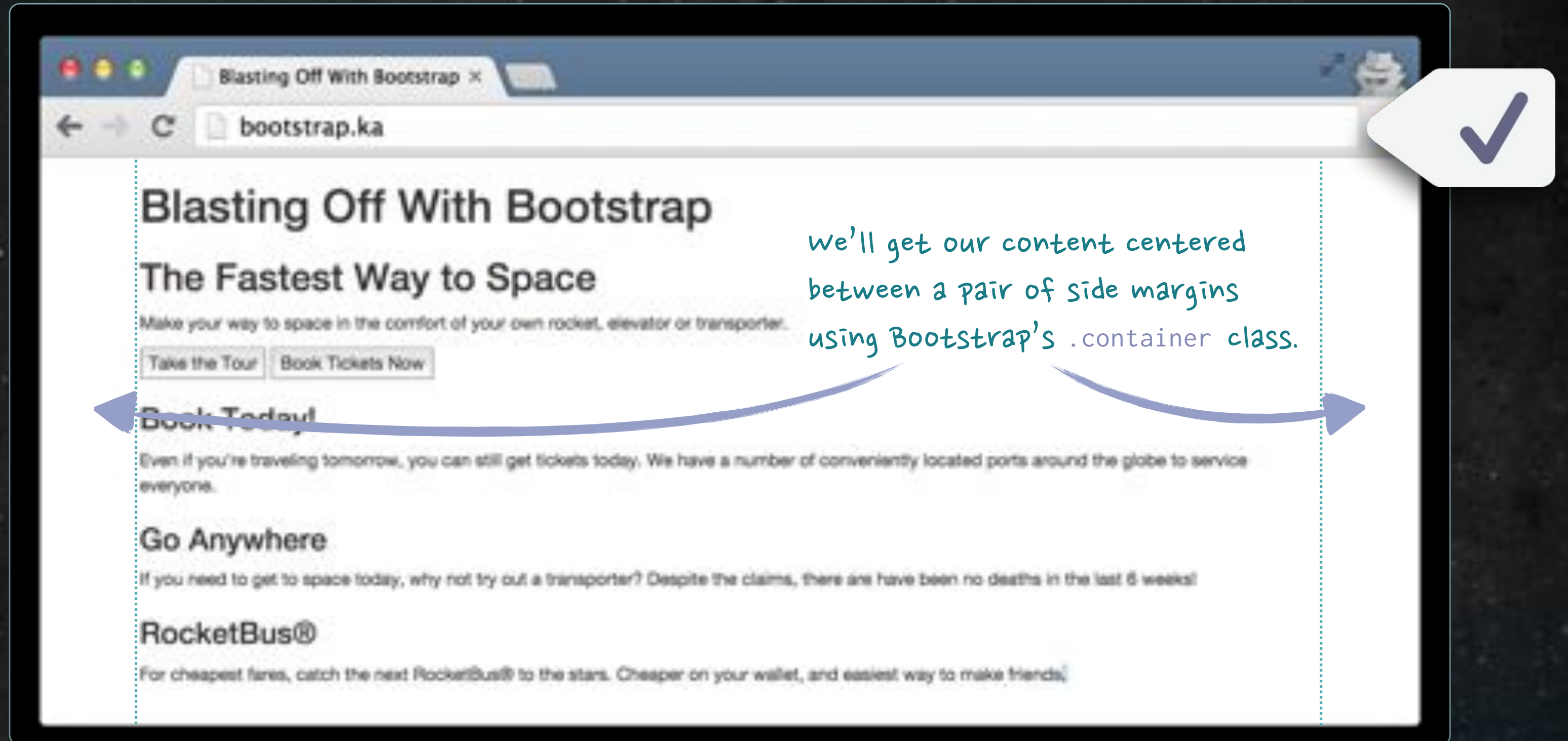
Let's check out what Bootstrap will do to our existing HTML page.



So far, just a font change and some differently styled buttons. There's still a bunch we can do!

Our Visual Goal For This Level

We'll be using classes to improve our HTML visually, but without writing a single line of CSS.



The image shows a web browser window with the address bar displaying 'bootstrap.ka'. The page content includes a title 'Blasting Off With Bootstrap', a subtitle 'The Fastest Way to Space', a paragraph 'Make your way to space in the comfort of your own rocket, elevator or transporter.', two buttons 'Take the Tour' and 'Book Tickets Now', a section 'Book Today!', a paragraph 'Even if you're traveling tomorrow, you can still get tickets today. We have a number of conveniently located ports around the globe to service everyone.', a section 'Go Anywhere', a paragraph 'If you need to get to space today, why not try out a transporter? Despite the claims, there are have been no deaths in the last 6 weeks!', a section 'RocketBus®', and a paragraph 'For cheapest fares, catch the next RocketBus® to the stars. Cheaper on your wallet, and easiest way to make friends,'.

we'll get our content centered between a pair of side margins using Bootstrap's `.container` class.

Annotations include a large blue arrow pointing from the text to the content area, and a checkmark icon in the top right corner.

The container Class

Bootstrap's container class will responsively add margins, center, and wrap our content.

index.html

```
<body>

  <h1>Blasting Off With Bootstrap</h1>
  <h2>The Fastest Way to Space</h2>
  <button type='button'>Take the Tour</button>
  <button type='button'>Book Tickets Now</button>
  <h3>Book Today!</h3> <p>...</p>
  <h3>Go Anywhere</h3> <p>...</p>
  <h3>RocketBus&reg;</h3> <p>...</p>

</body>
```

Here's all of our visible page content within our body tag.



The container Class

Bootstrap's `container` class will responsively add margins, center, and wrap our content.

index.html

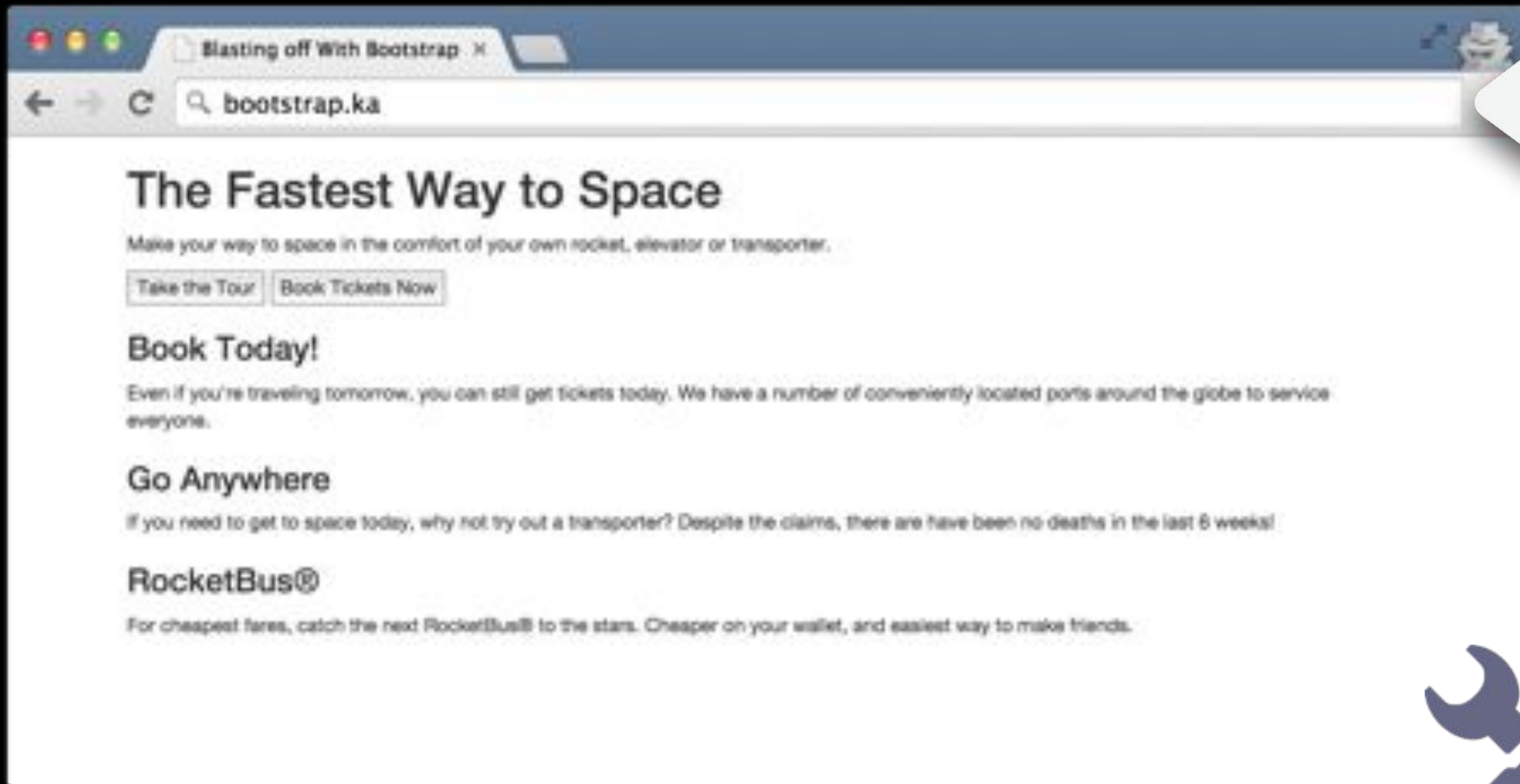
```
<body>
  <div class='container'>
    <h1>Blasting Off With Bootstrap</h1>
    <h2>The Fastest Way to Space</h2>
    <button type='button'>Take the Tour</button>
    <button type='button'>Book Tickets Now</button>
    <h3>Book Today!</h3> <p>...</p>
    <h3>Go Anywhere</h3> <p>...</p>
    <h3>RocketBus&reg;</h3> <p>...</p>
  </div>
</body>
```

Adding a `.container` class creates a fixed width element that responds to the current size of the browser window.



The container Class

Bootstrap's container class will responsively add margins, center, and wrap our content.

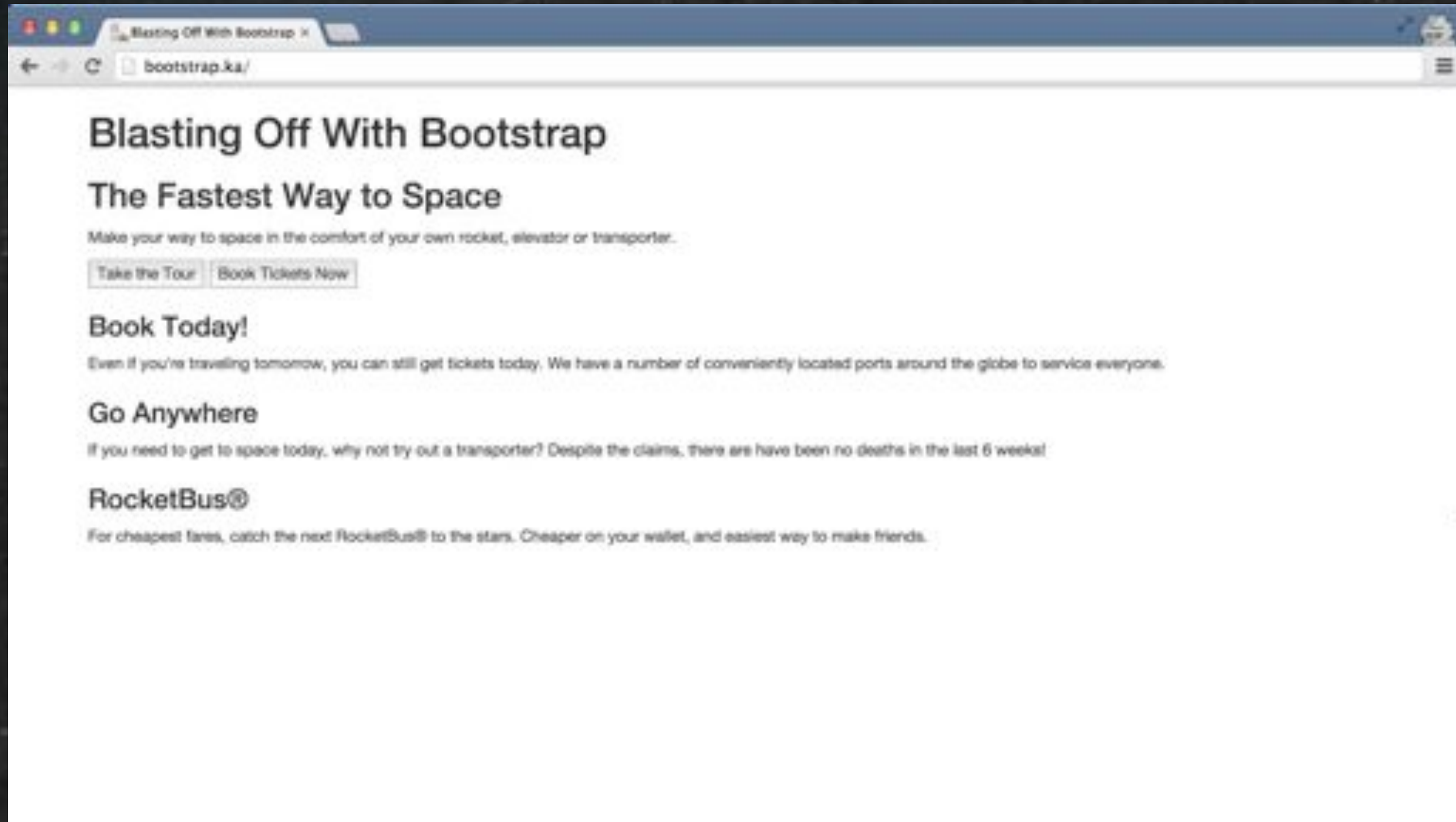


This will take up the entire page with smart padding if ever viewed on a tablet or phone!



The container Class

Bootstrap's `container` class will responsively add margins, center, and wrap our content.



The container-fluid Class

Bootstrap's container-fluid class allows for stretching if it is desired on larger screens.

index.html


```
<body>
  <div class='container'>
    <h1>Blasting Off With Bootstrap</h1>
    <h2>The Fastest Way to Space</h2>
    <button type='button'>Take the Tour</button>
    <button type='button'>Book Tickets Now</button>
    <h3>Book Today!</h3> <p>...</p>
    <h3>Go Anywhere</h3> <p>...</p>
    <h3>RocketBus&reg;</h3> <p>...</p>
  </div>
</body>
```


The container-fluid Class

Bootstrap's container-fluid class allows for stretching if it is desired on larger screens.

index.html

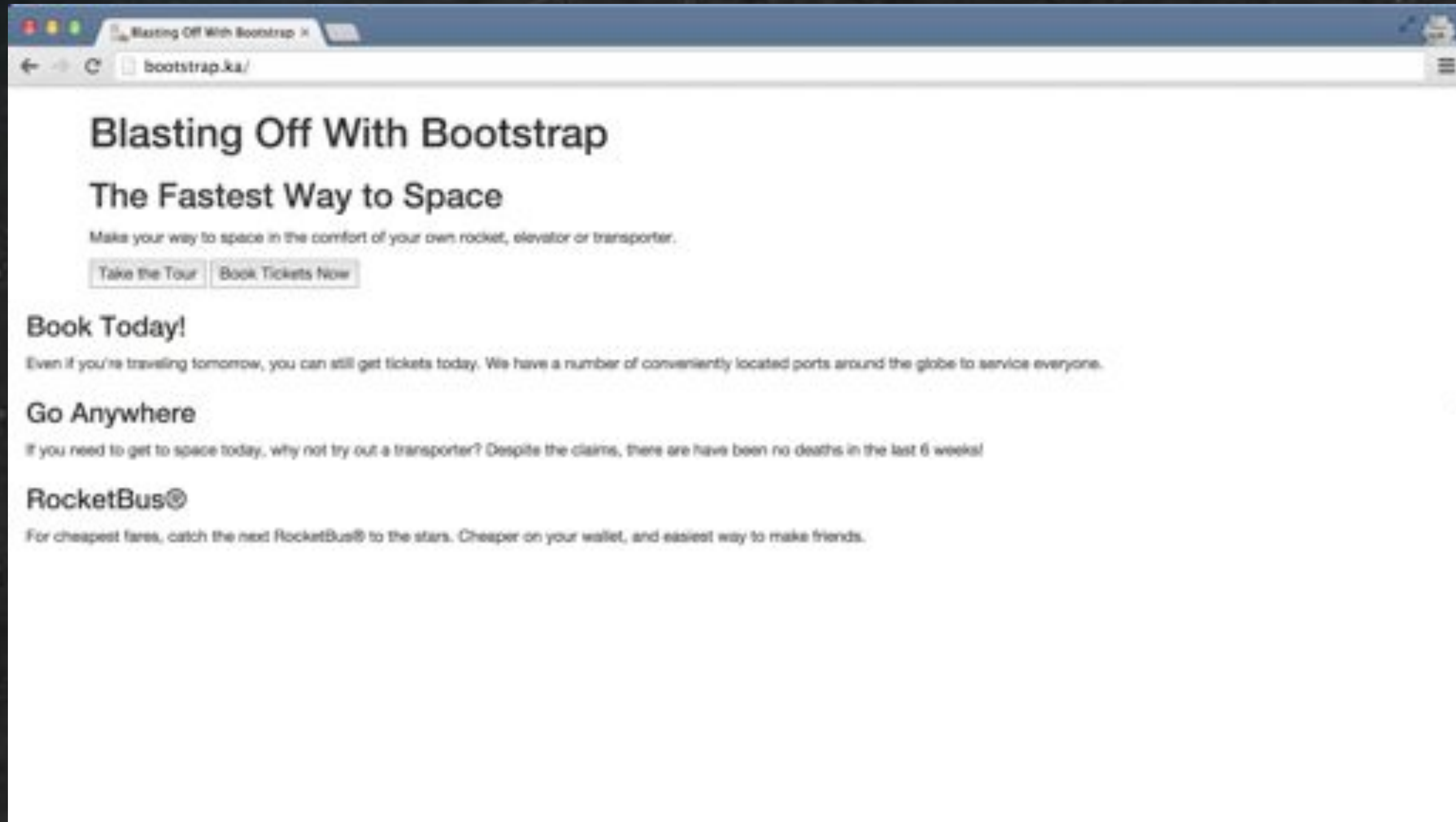
```
<body>
  <div class='container'>
    <h1>Blasting Off With Bootstrap</h1>
    <h2>The Fastest Way to Space</h2>
    <button type='button'>Take the Tour</button>
    <button type='button'>Book Tickets Now</button>
  </div>
  <div class='container-fluid'>
    <h3>Book Today!</h3> <p>...</p>
    <h3>Go Anywhere</h3> <p>...</p>
    <h3>RocketBus&reg;</h3> <p>...</p>
  </div>
</body>
```



Now our features will get a container that will stretch the entire page. Pretty stylish and useful for adding only one class!

The container-fluid Class

Bootstrap's container-fluid class allows for stretching if it is desired on larger screens.



Lift Off

Level 1, Section 1