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# Blasting Off

with Bootstrap



# Lift Off

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Level 1, Section 1

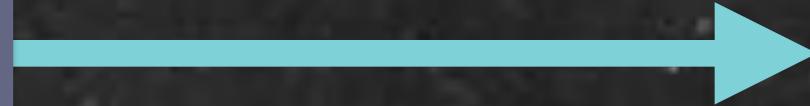


# So You Want To Build a Website...

---

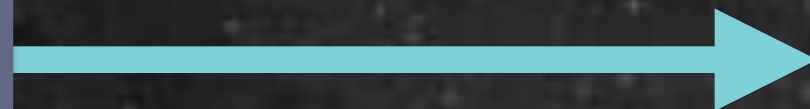
An attractive, functioning website requires basic knowledge of structure, style, and behavior.

**HTML**



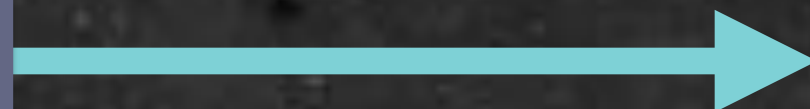
**Page Structure**

**CSS**



**Element Styling**

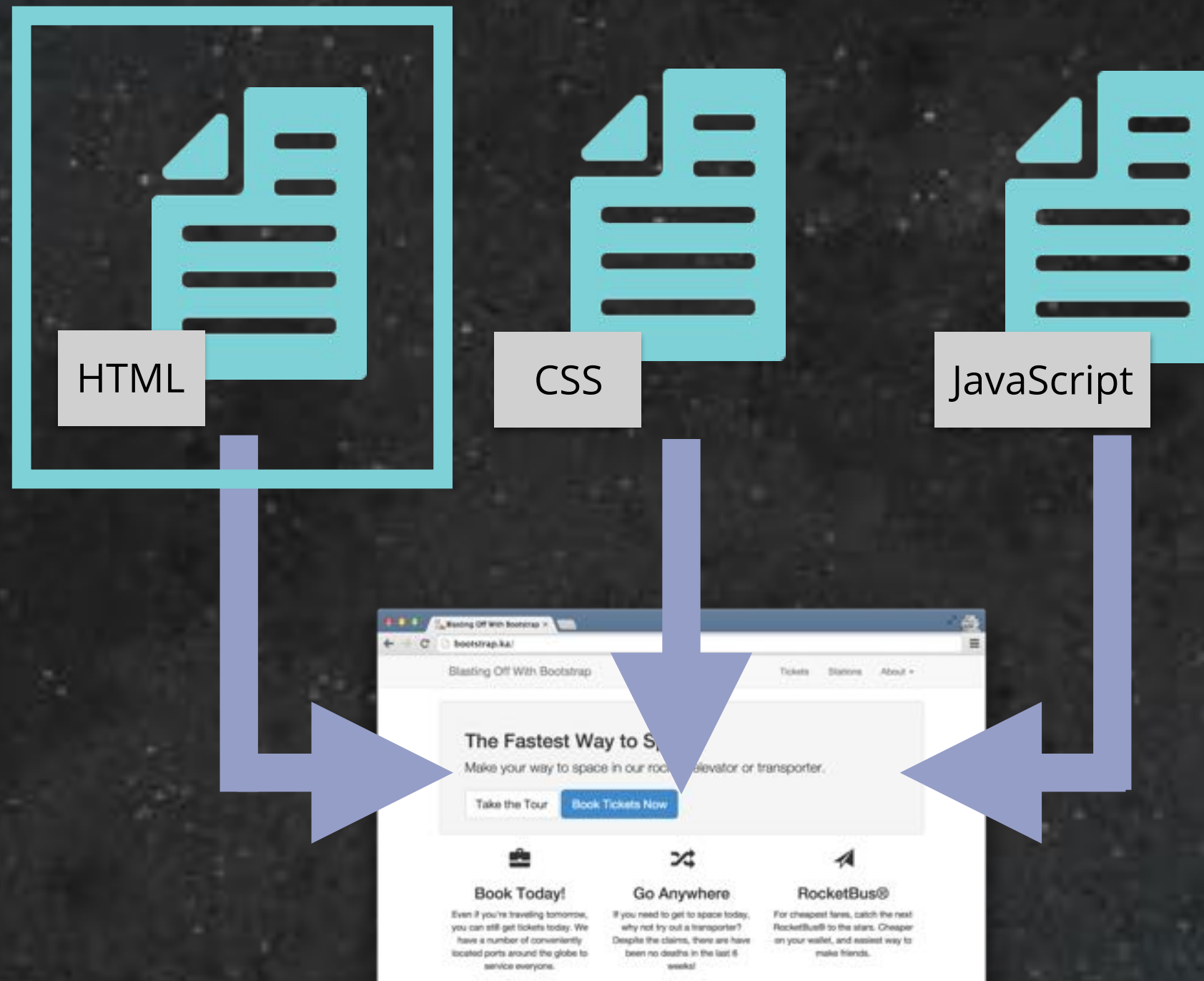
**JavaScript**



**Page Behavior**

# Website Development Follows Some Typical Patterns

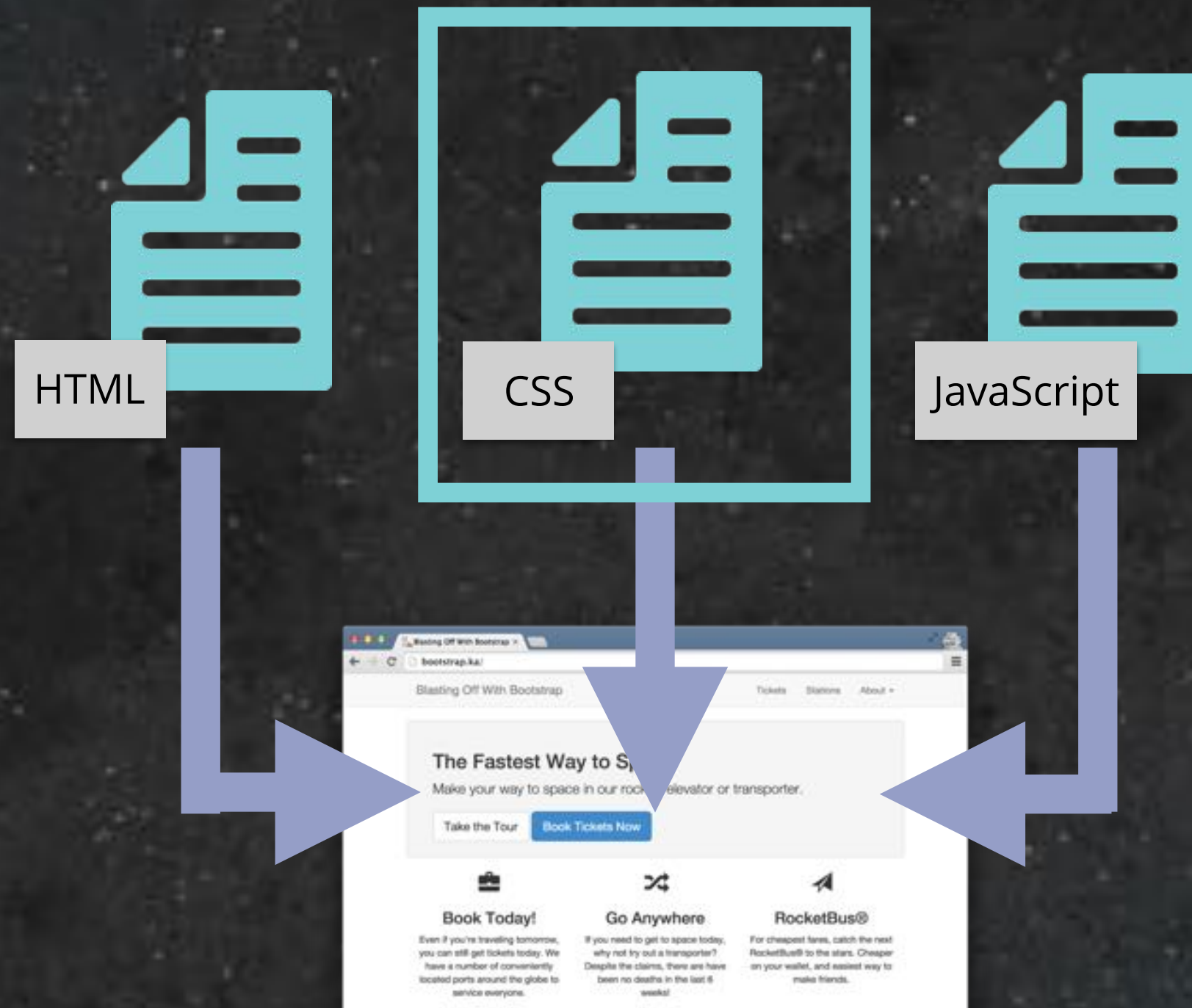
Writing HTML, CSS, and JavaScript repeatedly will reveal just how much work a good website can require.





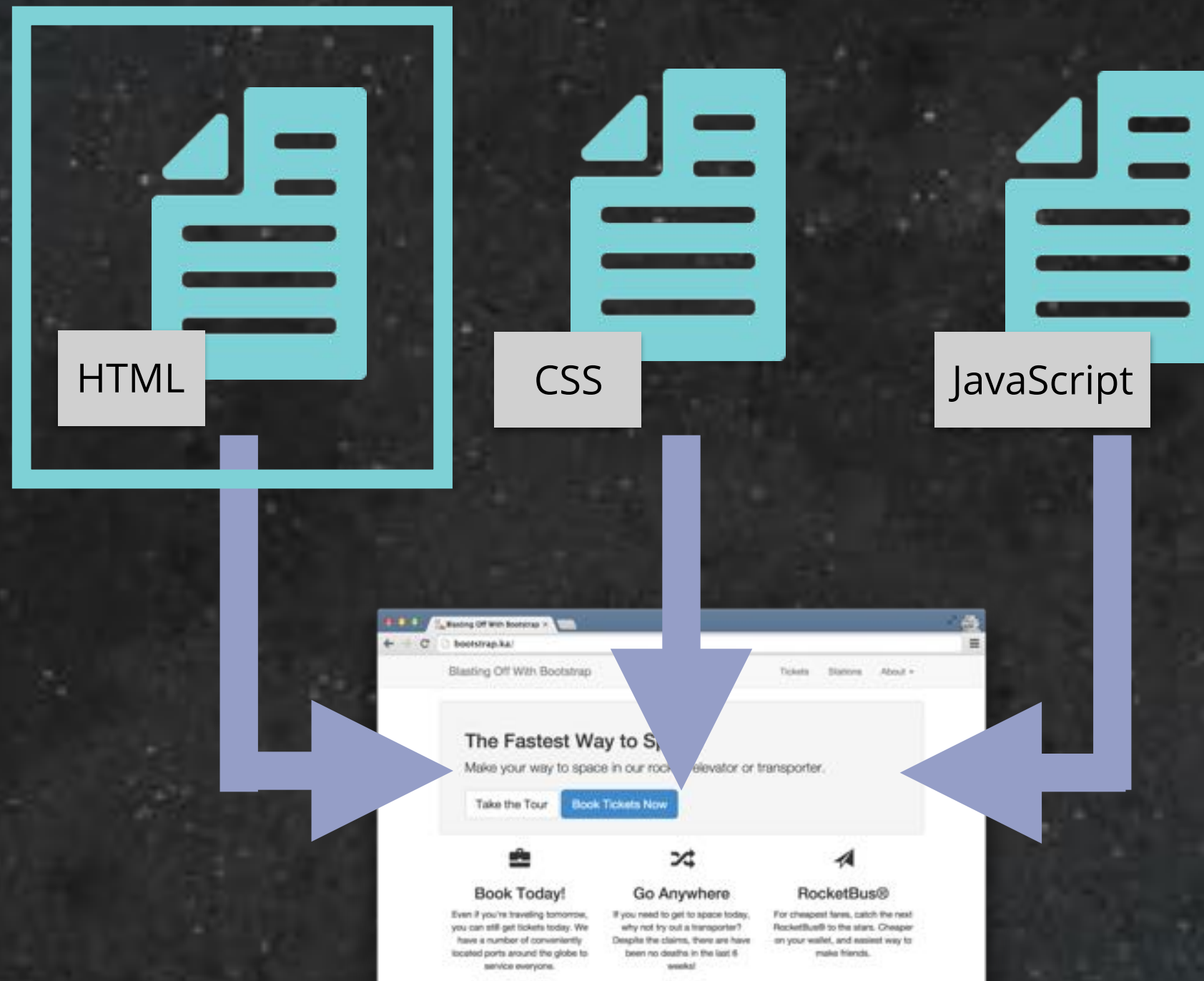
# Website Development Follows Some Typical Patterns

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# Website Development Follows Some Typical Patterns

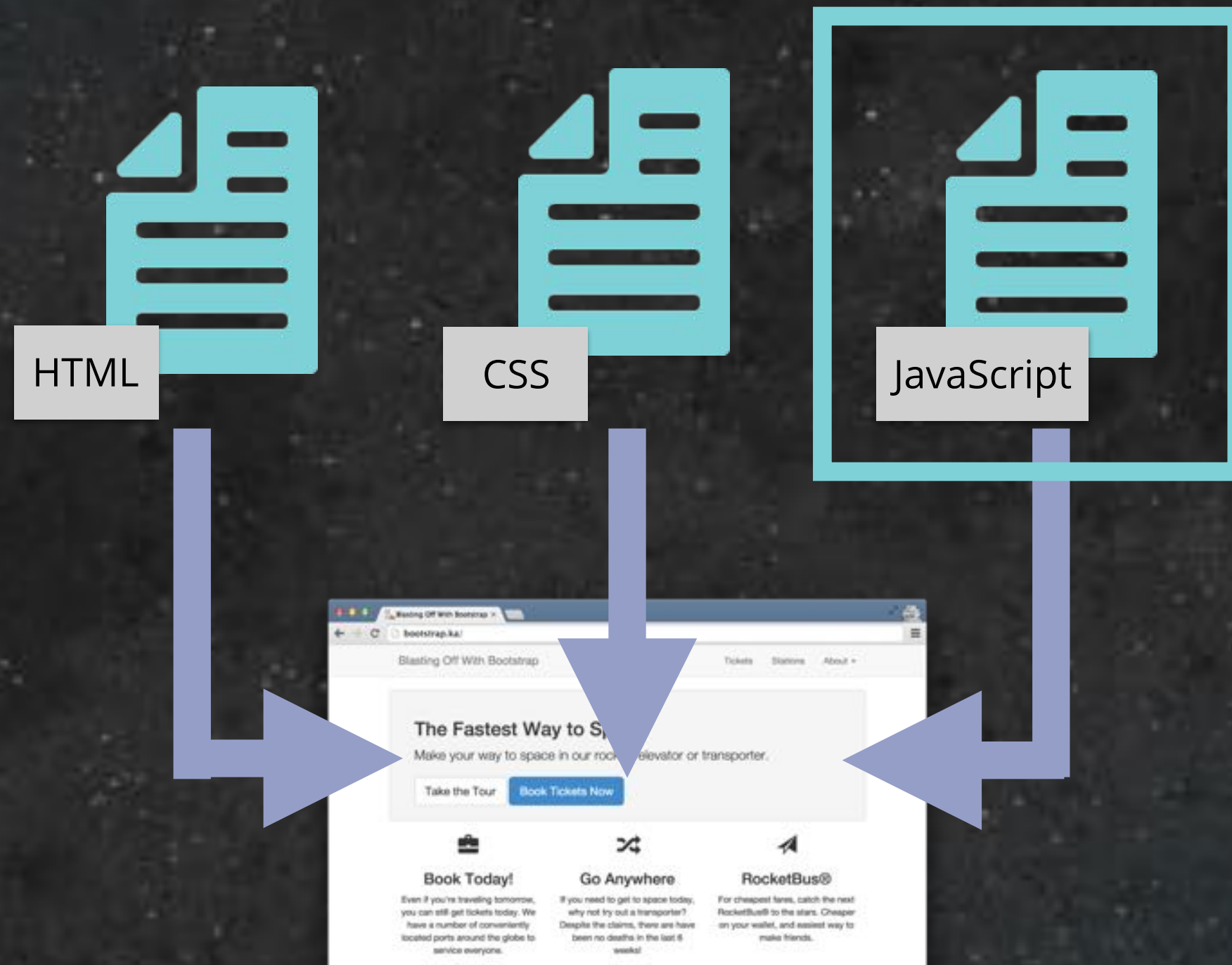
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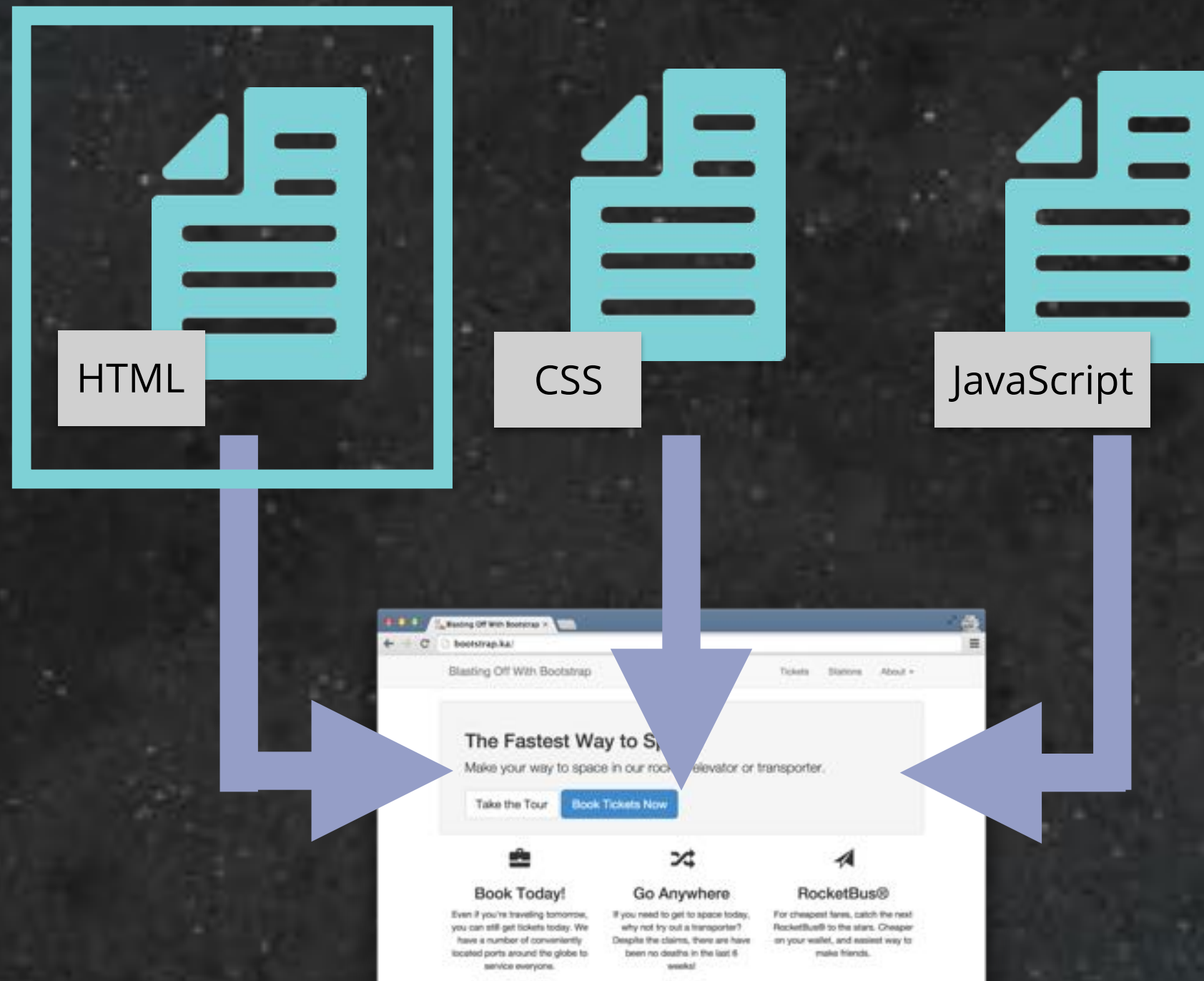
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# Website Development Follows Some Typical Patterns

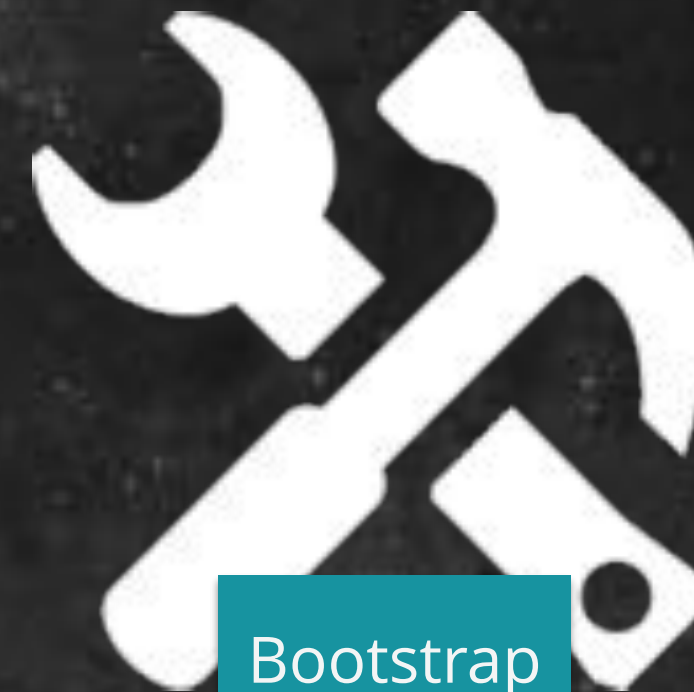
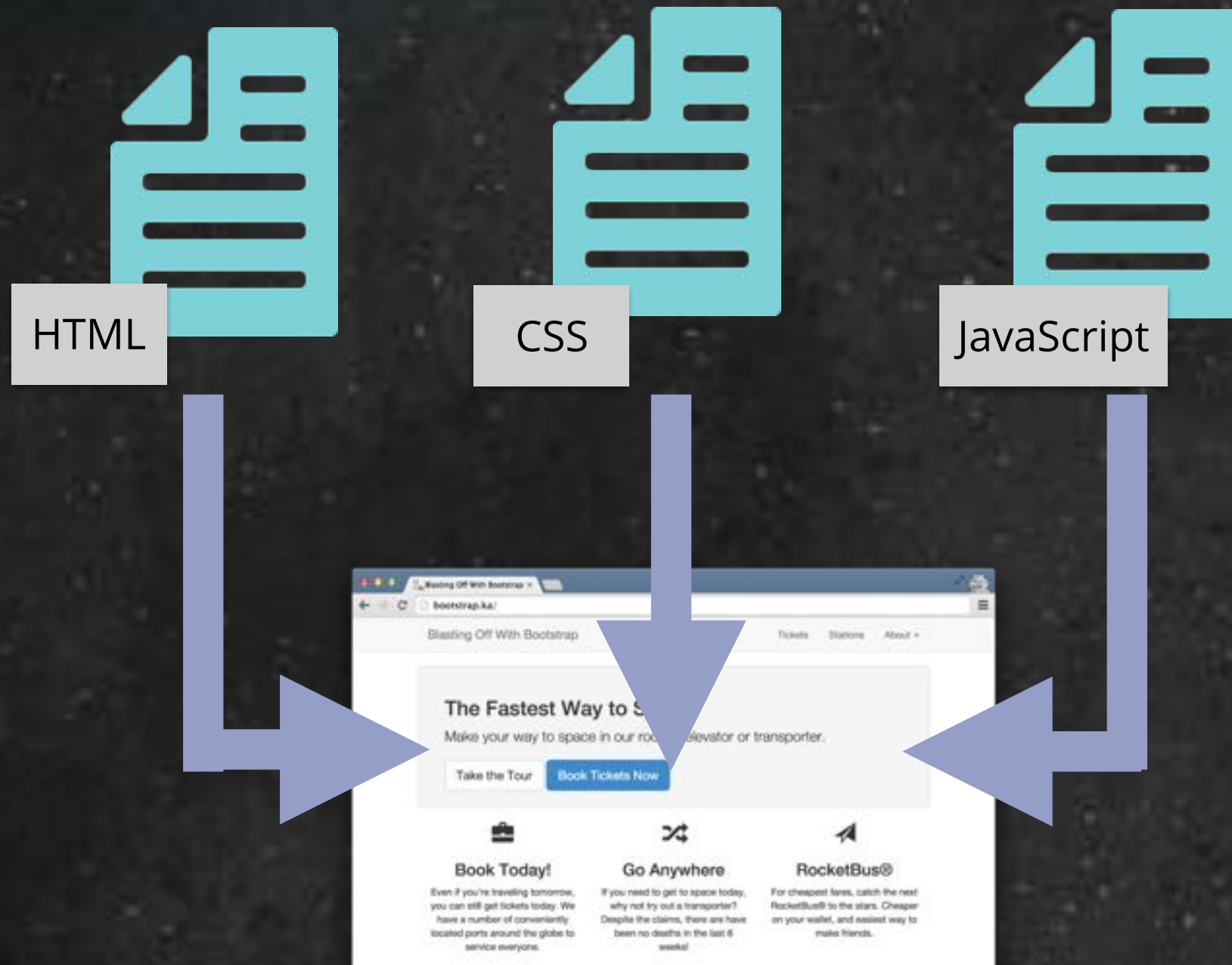
Writing HTML, CSS, and JavaScript repeatedly will reveal just how much work a good website can require.





# Frameworks Can Make Our Site-Building Life Much Easier

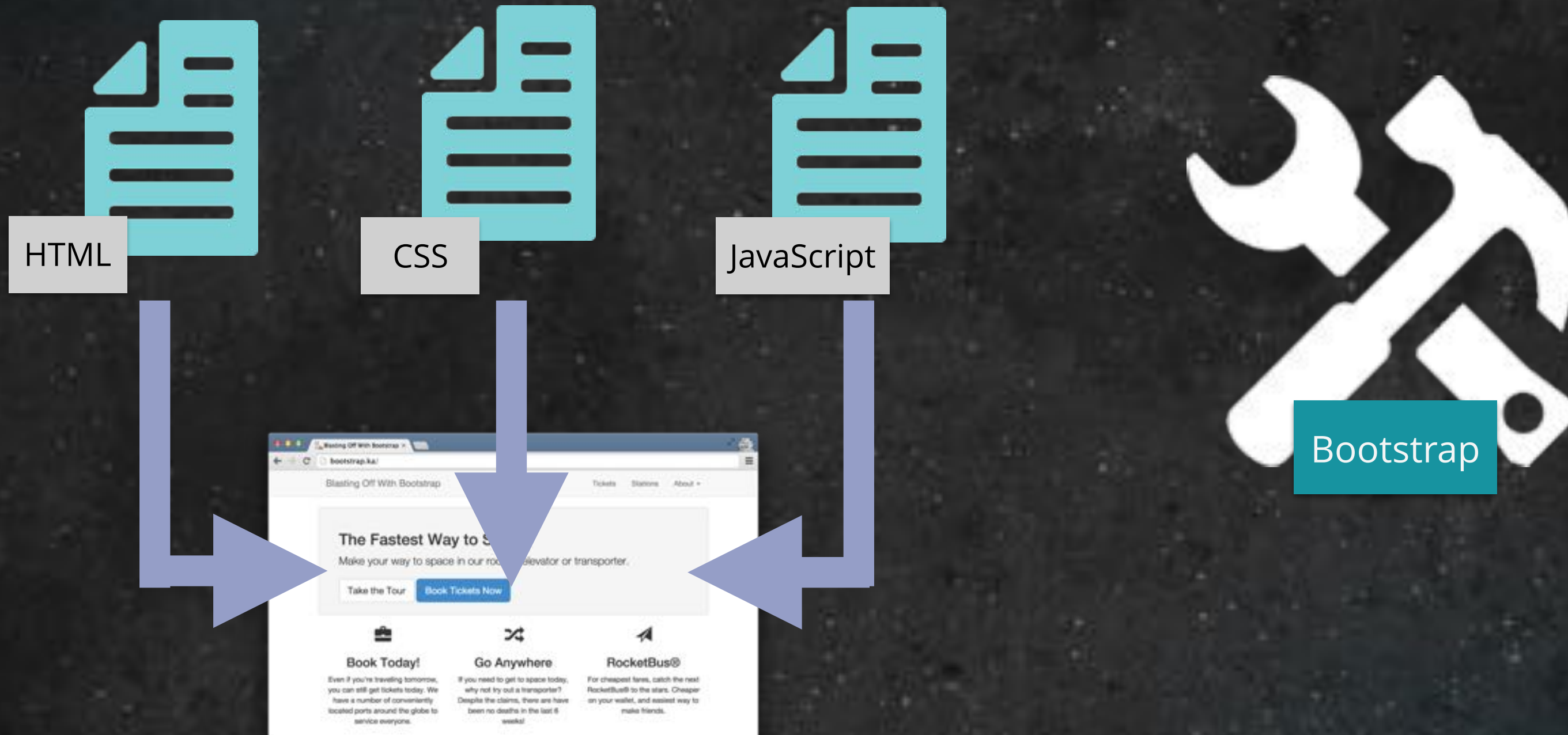
A framework is a downloadable library of tools that assist with adding style and functionality to your website.



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

# What Will Bootstrap Do For Us?

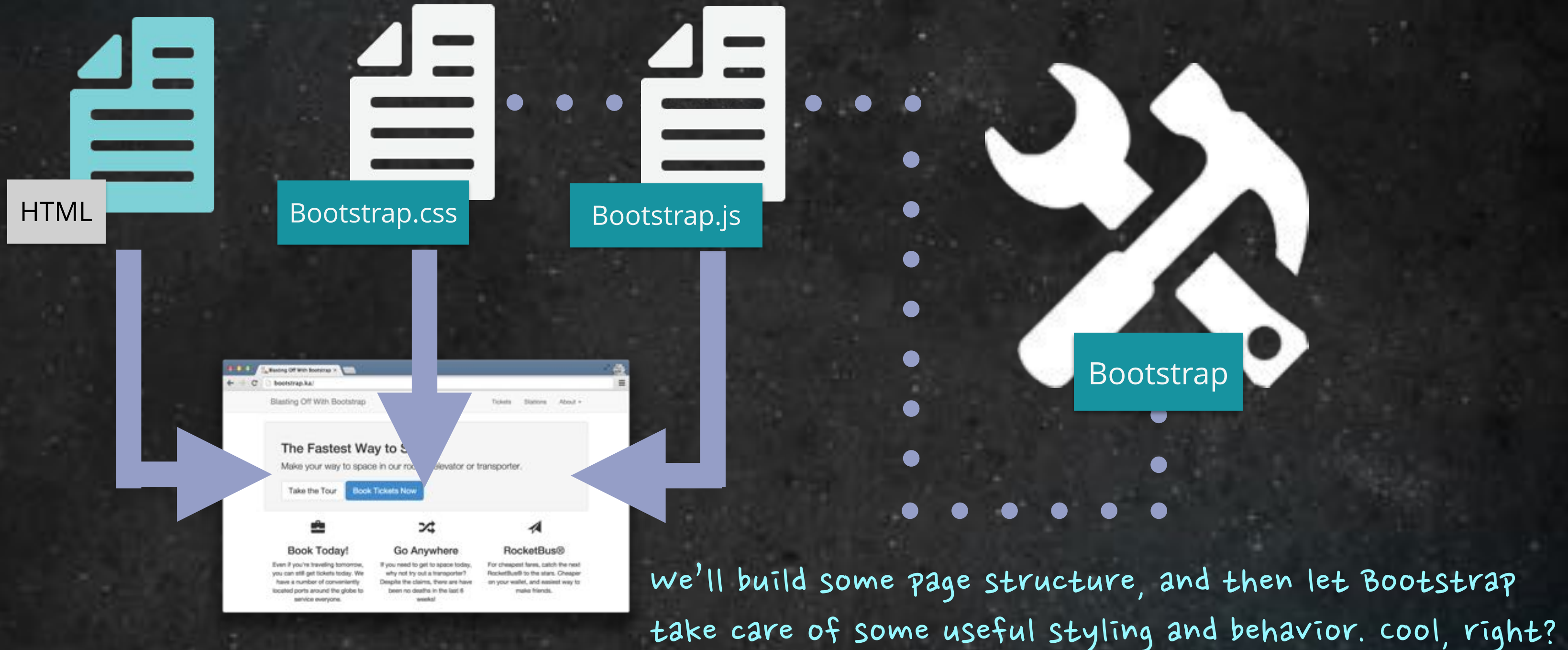
Bootstrap lets us skip writing CSS and JavaScript when starting out. We focus instead on HTML.





# What Will Bootstrap Do For Us?

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



# What to Expect From Bootstrap

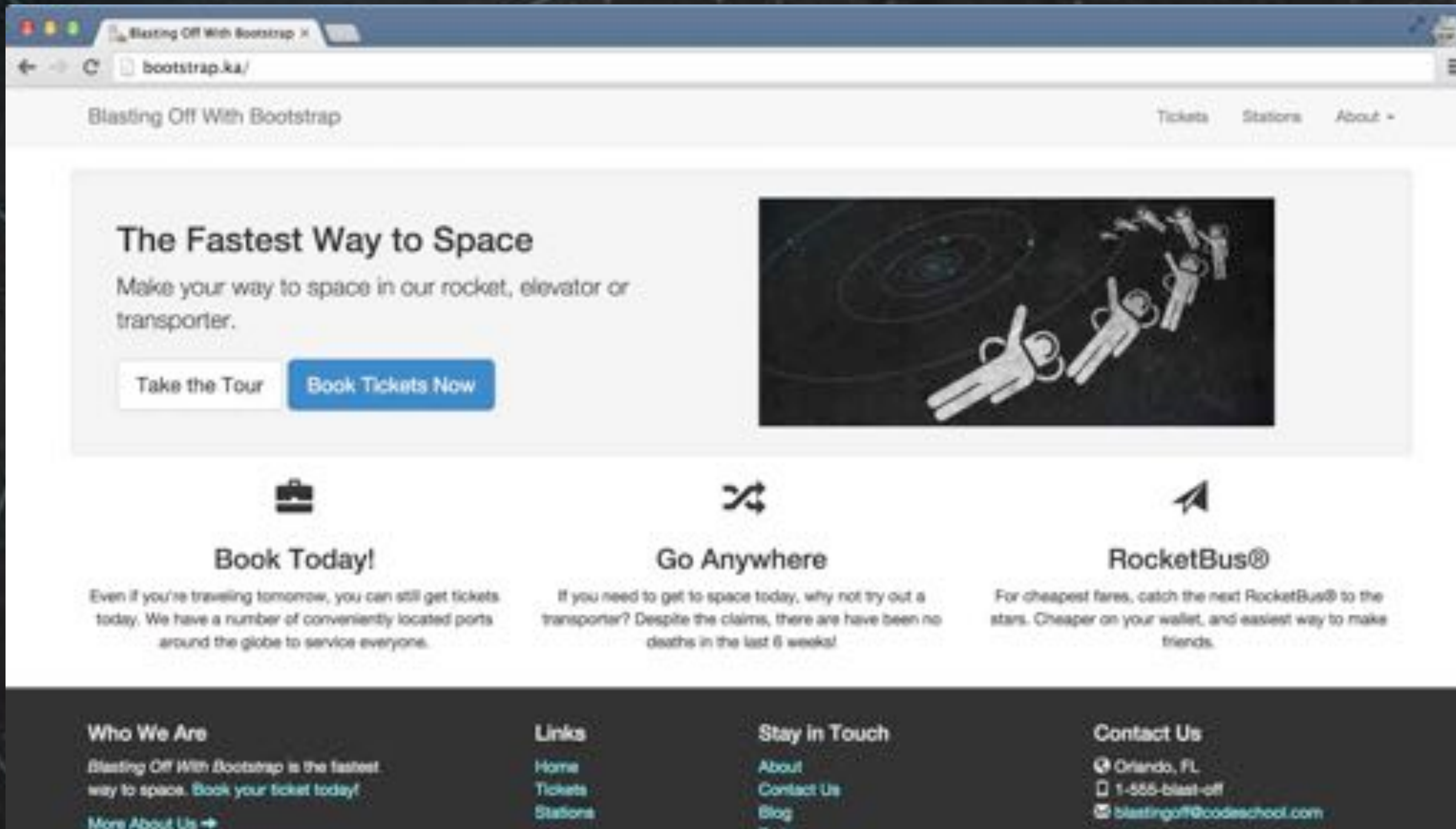
Let's take a look at some great examples of the magic that Bootstrap can make very quickly.





# 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?

---

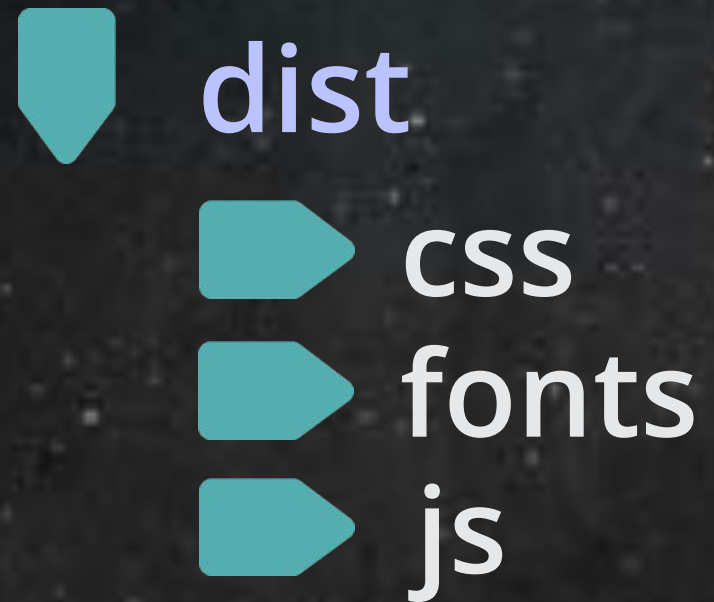
Let's take a quick at Bootstrap's file structure to get a broad awareness of what we're using.

► dist

# What Does The Framework Consist Of?

---

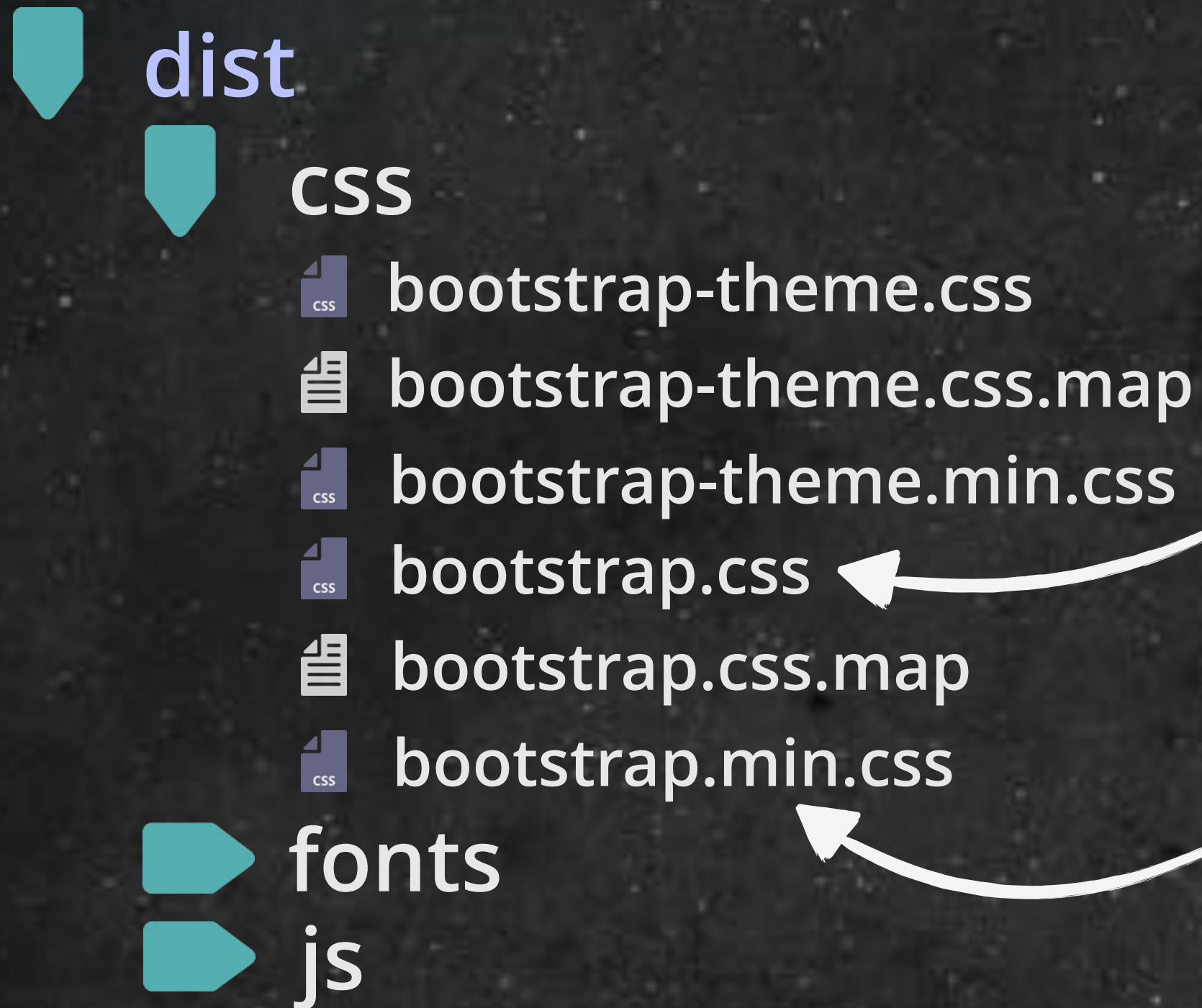
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# What Does The Framework Consist Of?

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



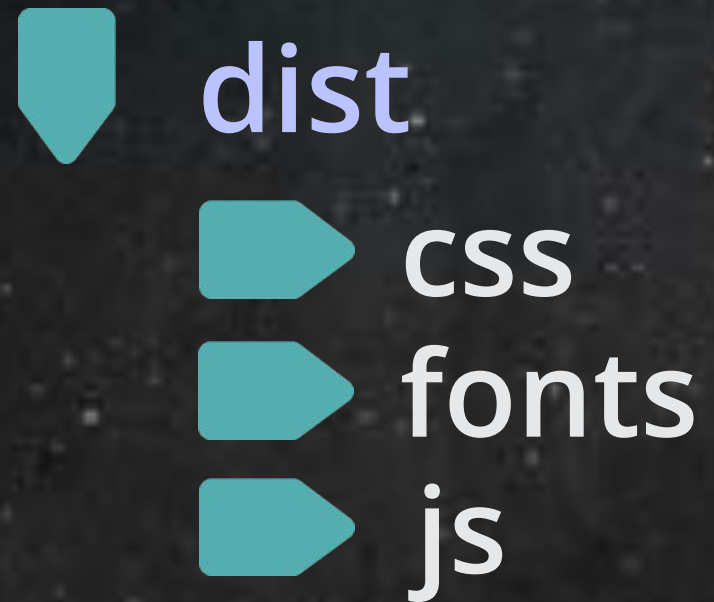
This is the main `bootstrap.css` file we'll use in our HTML pages. It will save us from needing to write a bunch of CSS.

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

# 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.





# 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

 CSS

 fonts

 glyphsicons-halflings-regular.eot

 glyphsicons-halflings-regular.svg

 glyphsicons-halflings-regular.ttf

 glyphsicons-halflings-regular.woff

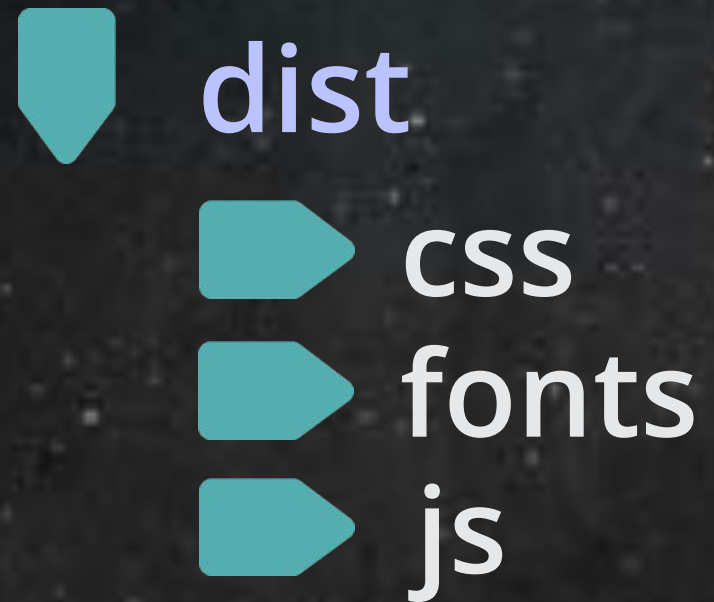
 js

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

# What Does The Framework Consist Of?

---

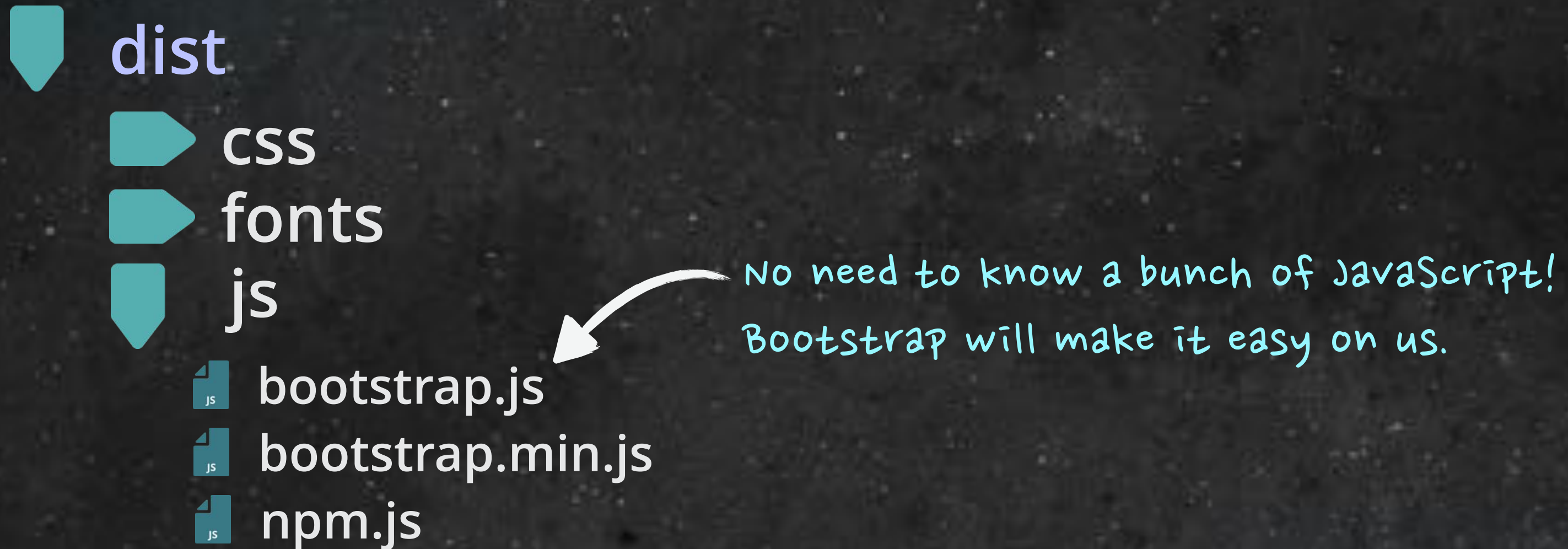
Let's take a quick at Bootstrap's file structure to get a broad awareness of what we're using.





# What Does The Framework Consist Of?

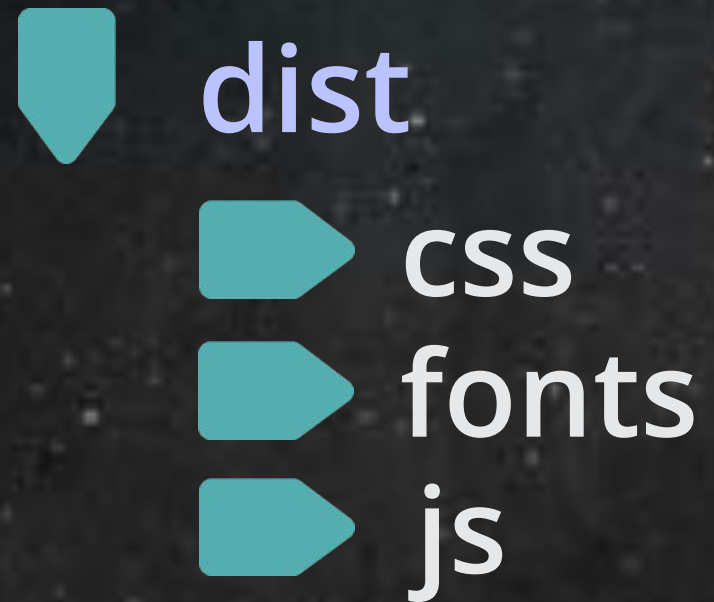
Let's take a quick at Bootstrap's file structure to get a broad awareness of what we're using.



# What Does The Framework Consist Of?

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





# 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.



# 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>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

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>
      <h3>Book Today!</h3>
      <p>
        <h3>Go Anywhere</h3>
        <p>
          <h3>RocketBus&reg;</h3>
          <p>
            </p>
          </p>
        </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>

    <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>
```

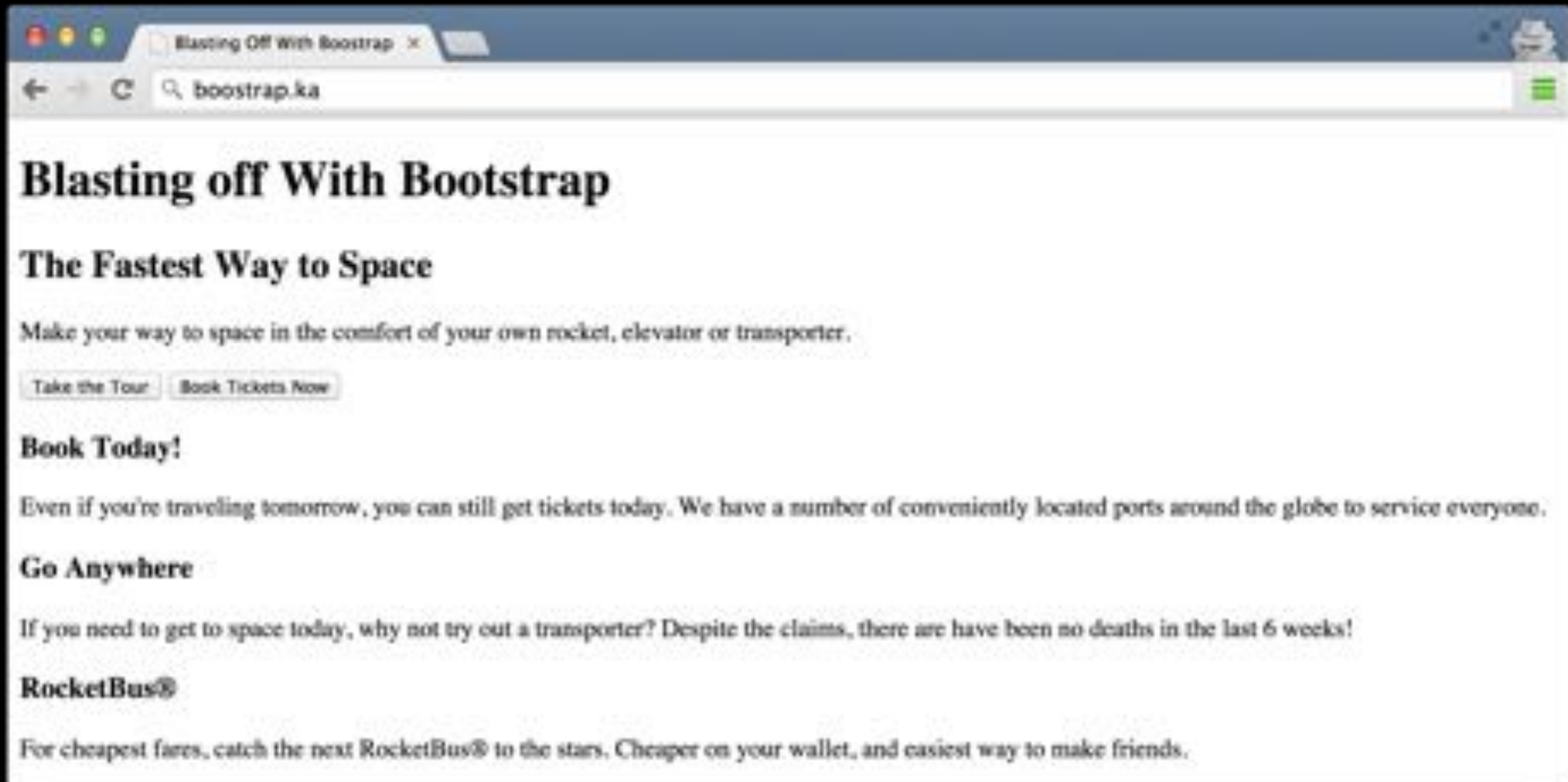
To finish our content, we'll add a couple buttons for a user to engage with under our h2 and its paragraph.

```
    <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>
```



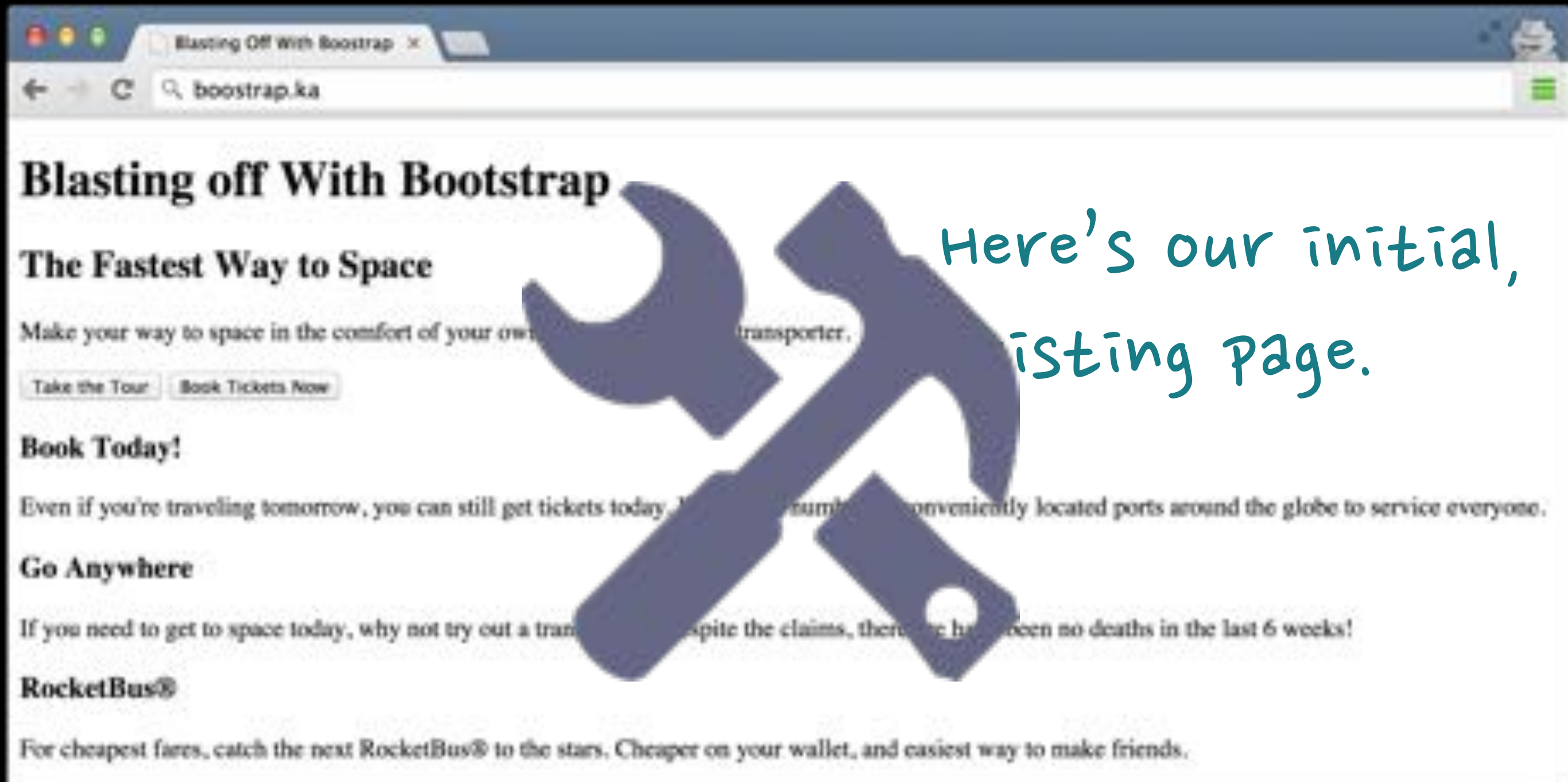
dist/index.html

HTML



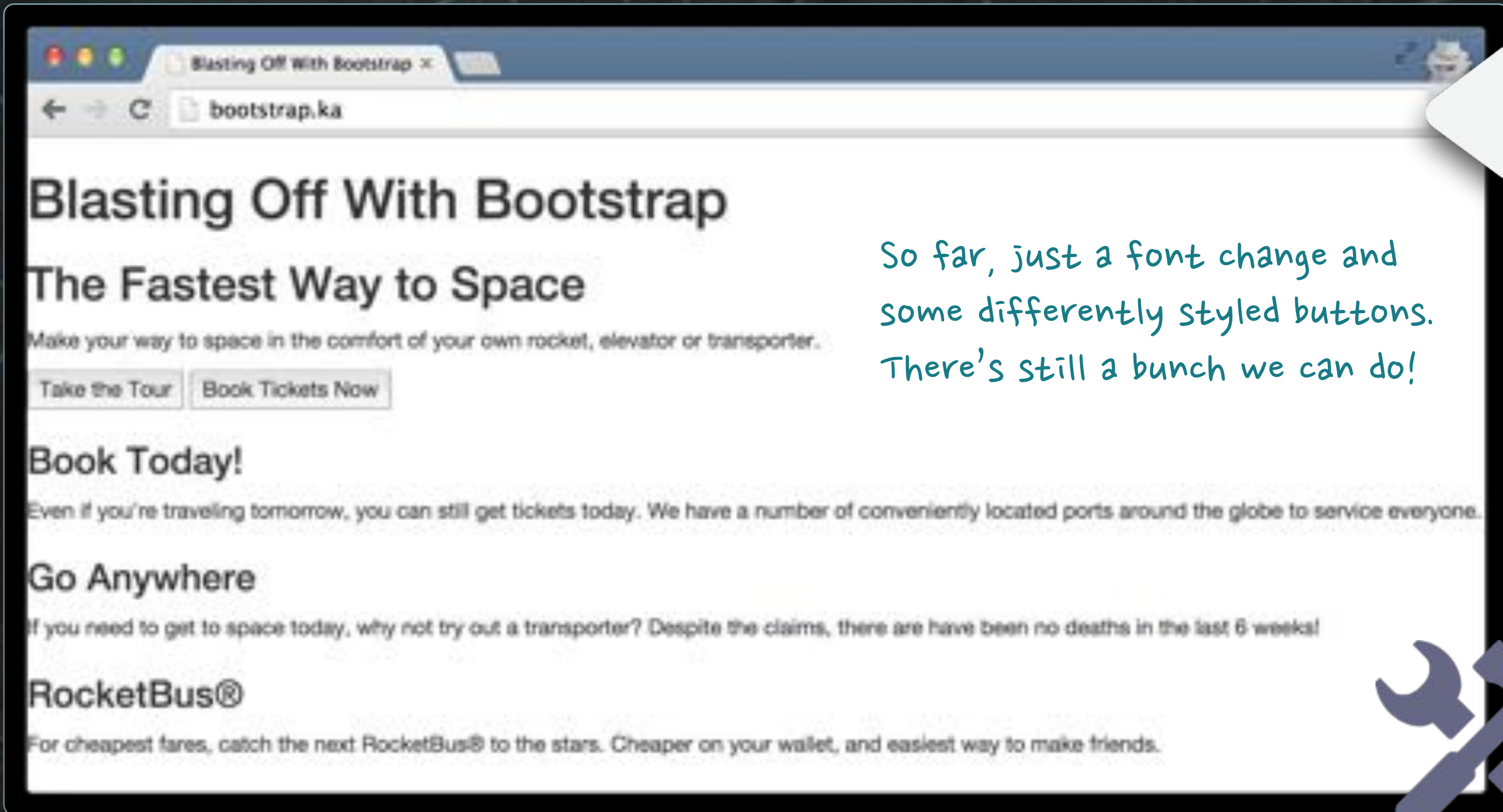
# The Effects of Adding Bootstrap

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.



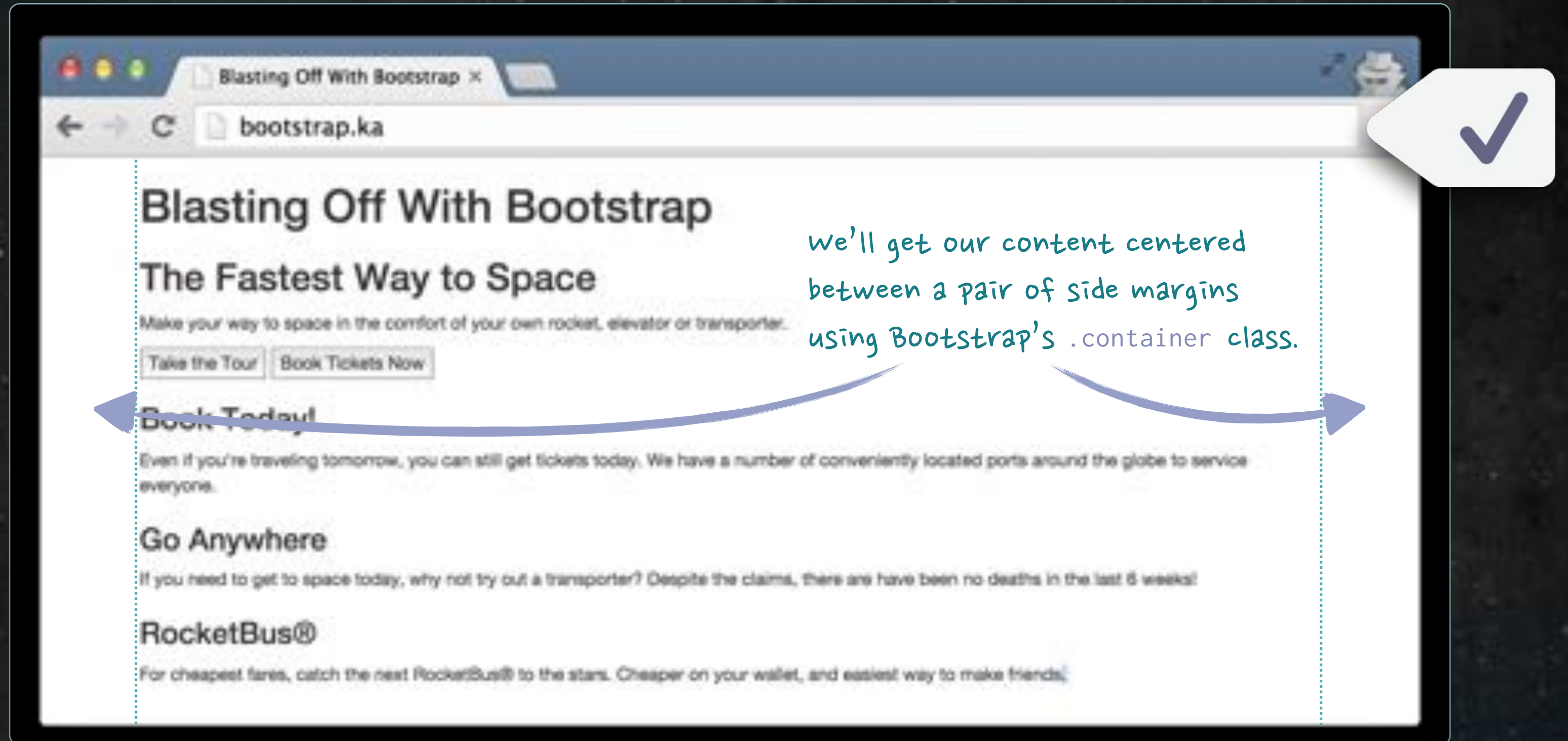
So far, just a font change and some differently styled buttons. There's still a bunch we can do!





# 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 screenshot shows a web browser window with the title 'Blasting Off With Bootstrap' and the URL 'bootstrap.ka'. The page content includes a main heading 'Blasting Off With Bootstrap', a subheading '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>
```

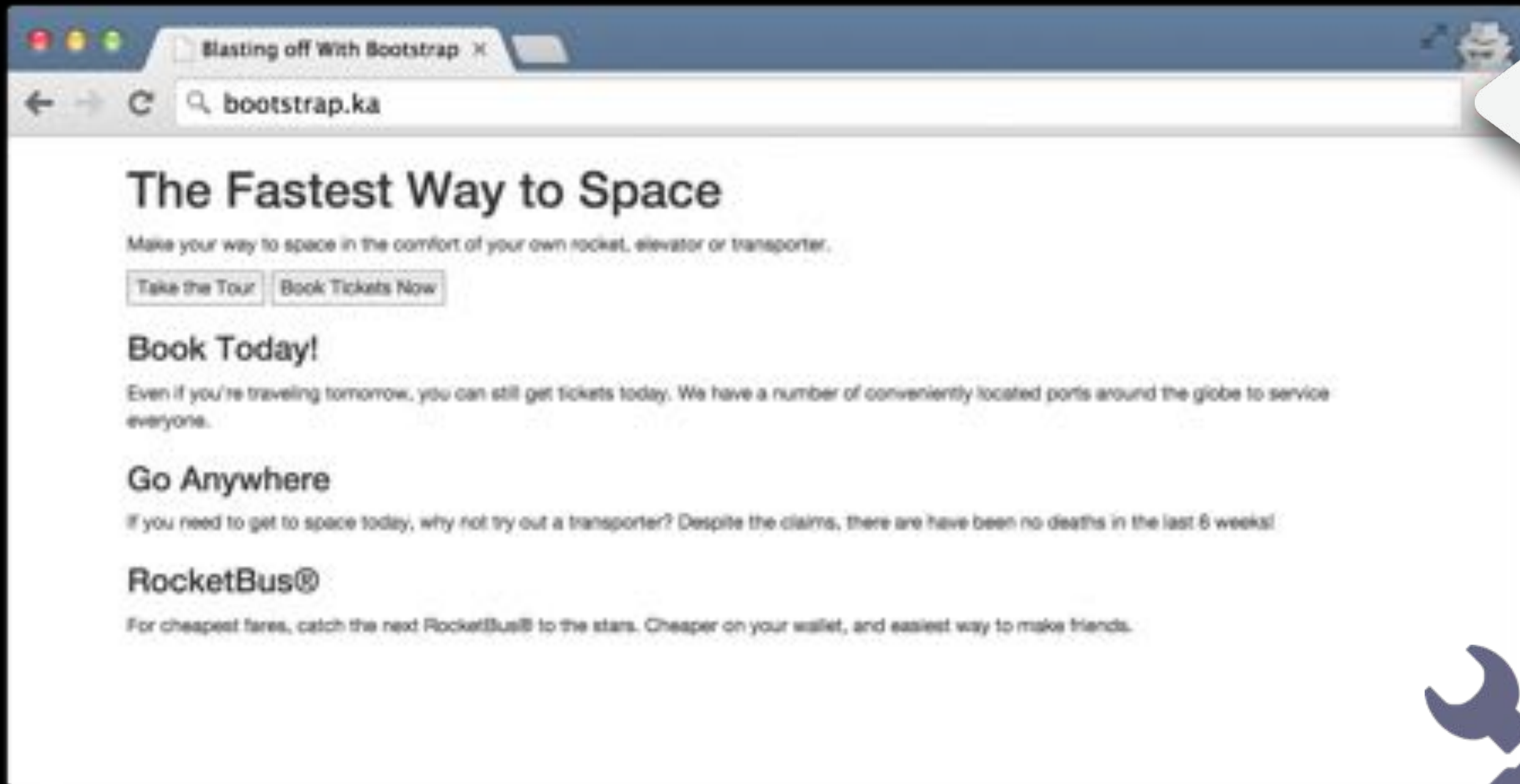
Adding a `.container` class creates a fixed width element that responds to the current size of the browser window.





# The container Class

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

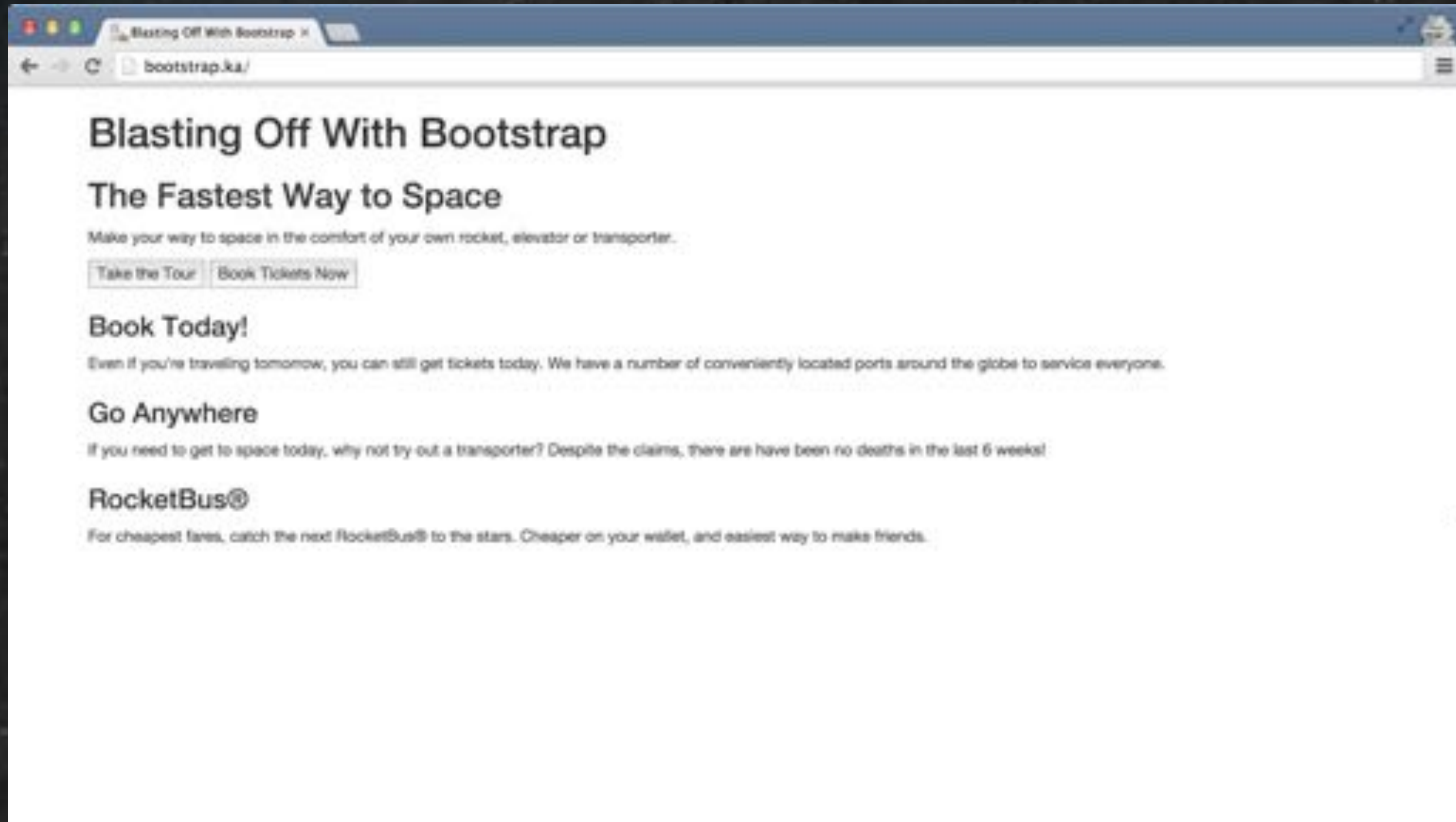


This will take up the entire page with smart padding if ever viewed on a tablet or phone!



# 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

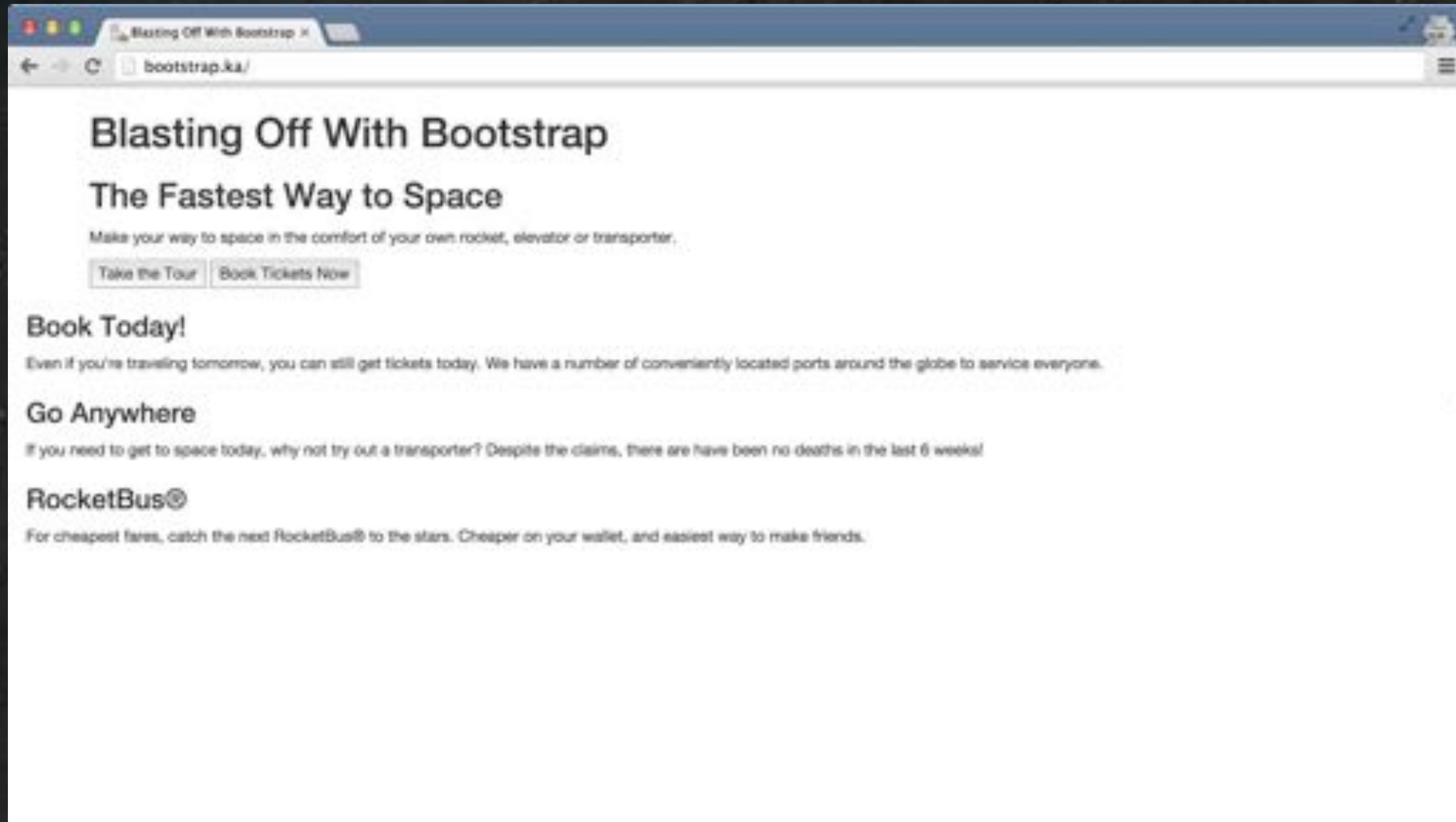
```
<body>
  <div class='container'>
    <h1>Blasting Off With Bootstrap</h1>
    <h2>The Fastest Way to Space</h2>
    <button type='button'>Take the Tour</button>
    <button type='button'>Book Tickets Now</button>
  </div>
  <div class='container-fluid'>
    <h3>Book Today!</h3> <p>...</p>
    <h3>Go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





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# Blasting Off

with Bootstrap



# Thinking In Grids

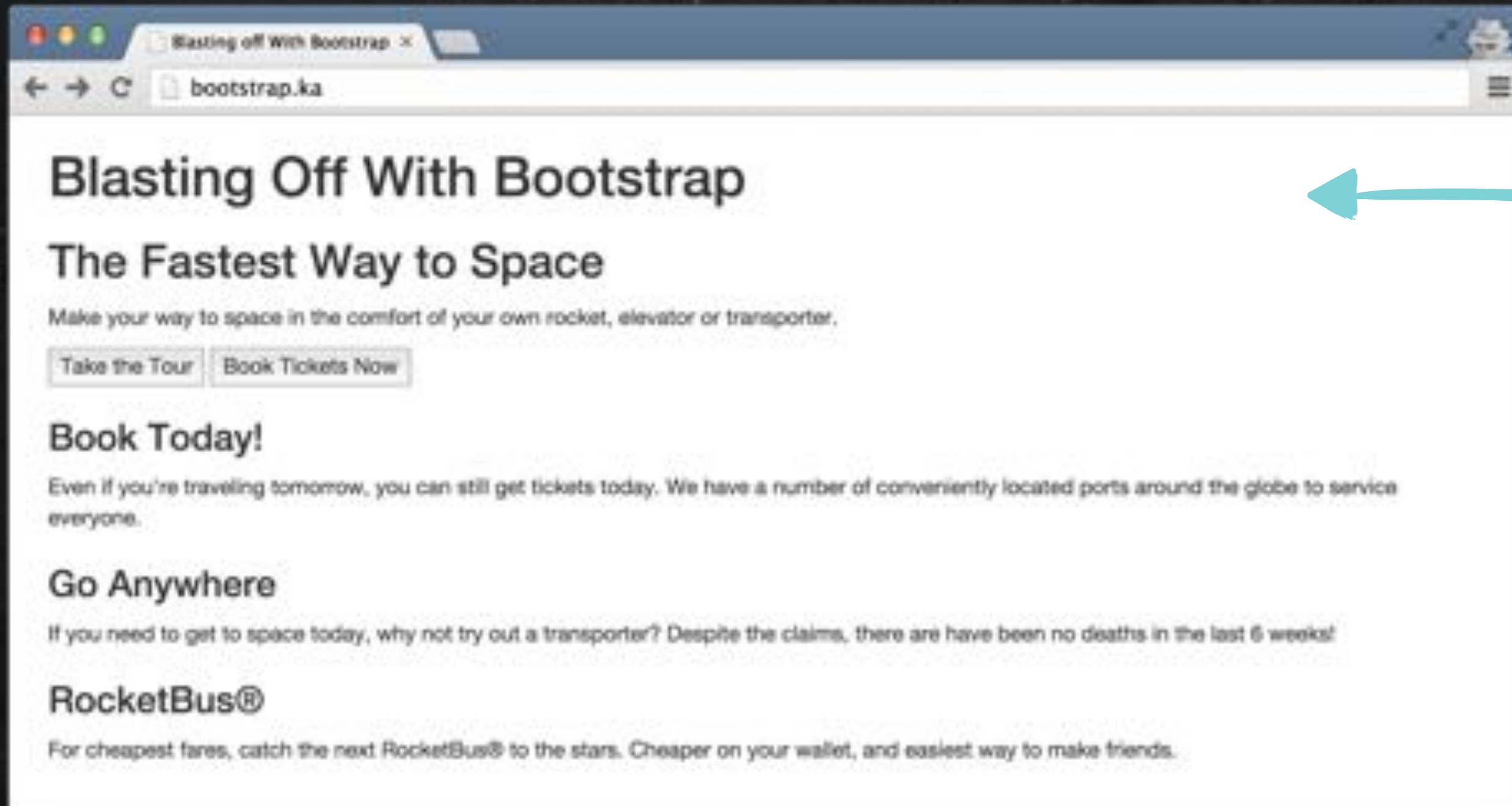
---

Level 2, Section 1



# Our Site Wrapped in a .container

So far we've learned how a `.container` class helps structure our content.

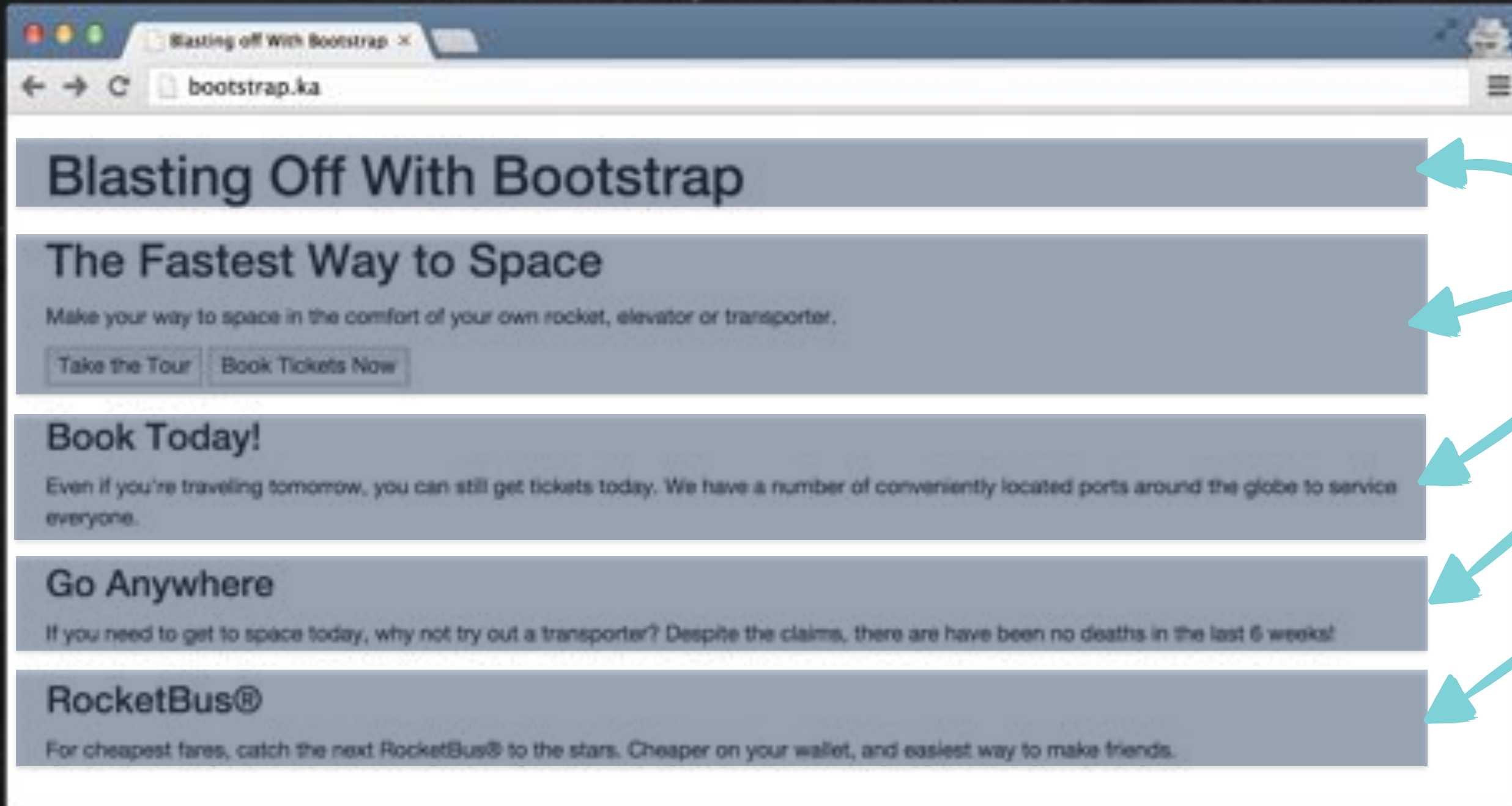


Our site is very vertical. How do we use more of the page?



# Site Structure: Rows

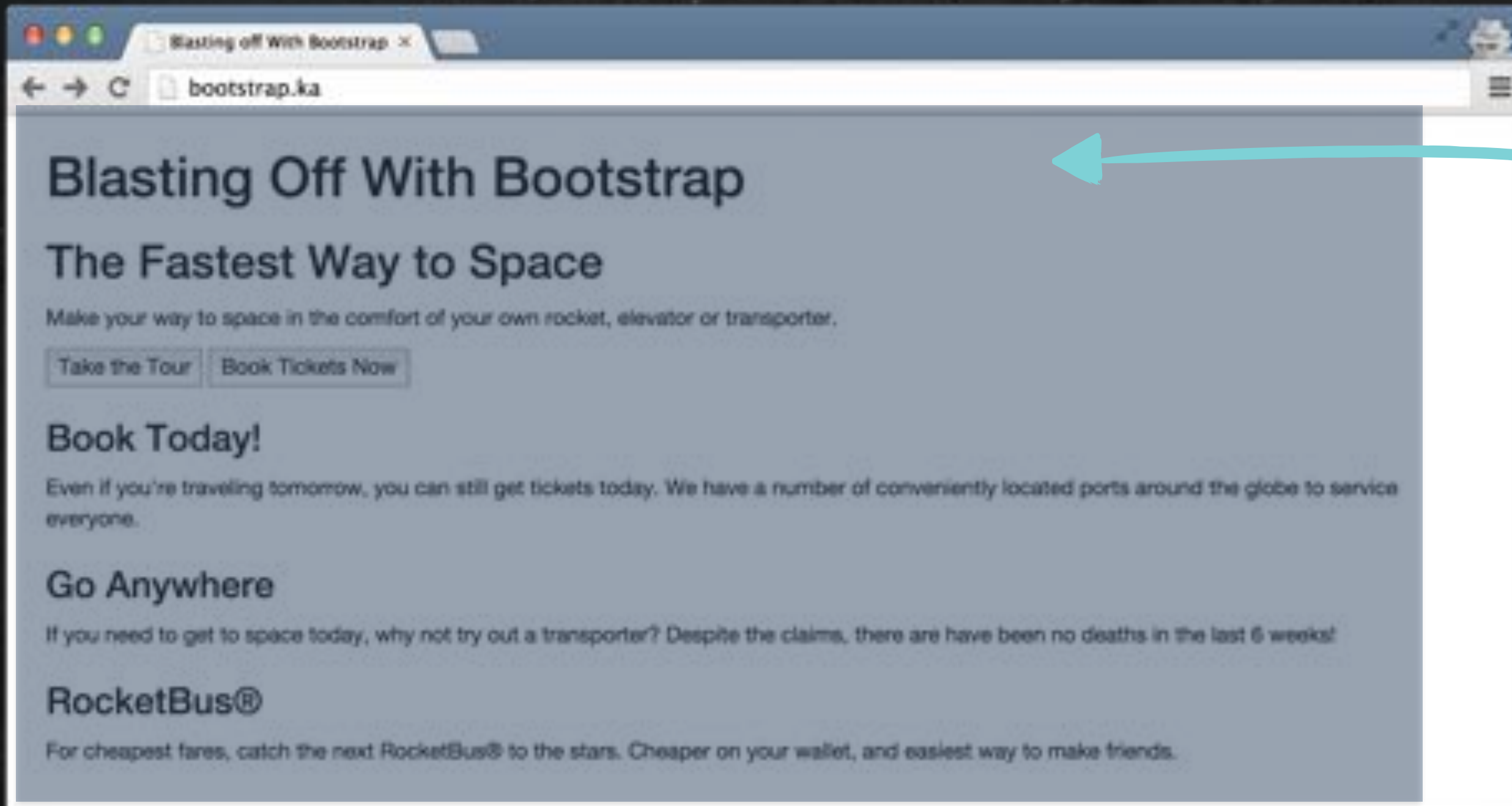
Rows are horizontal groupings of data



our site has 5  
rows of data

# Site Structure: Columns

Columns are vertical groupings of data

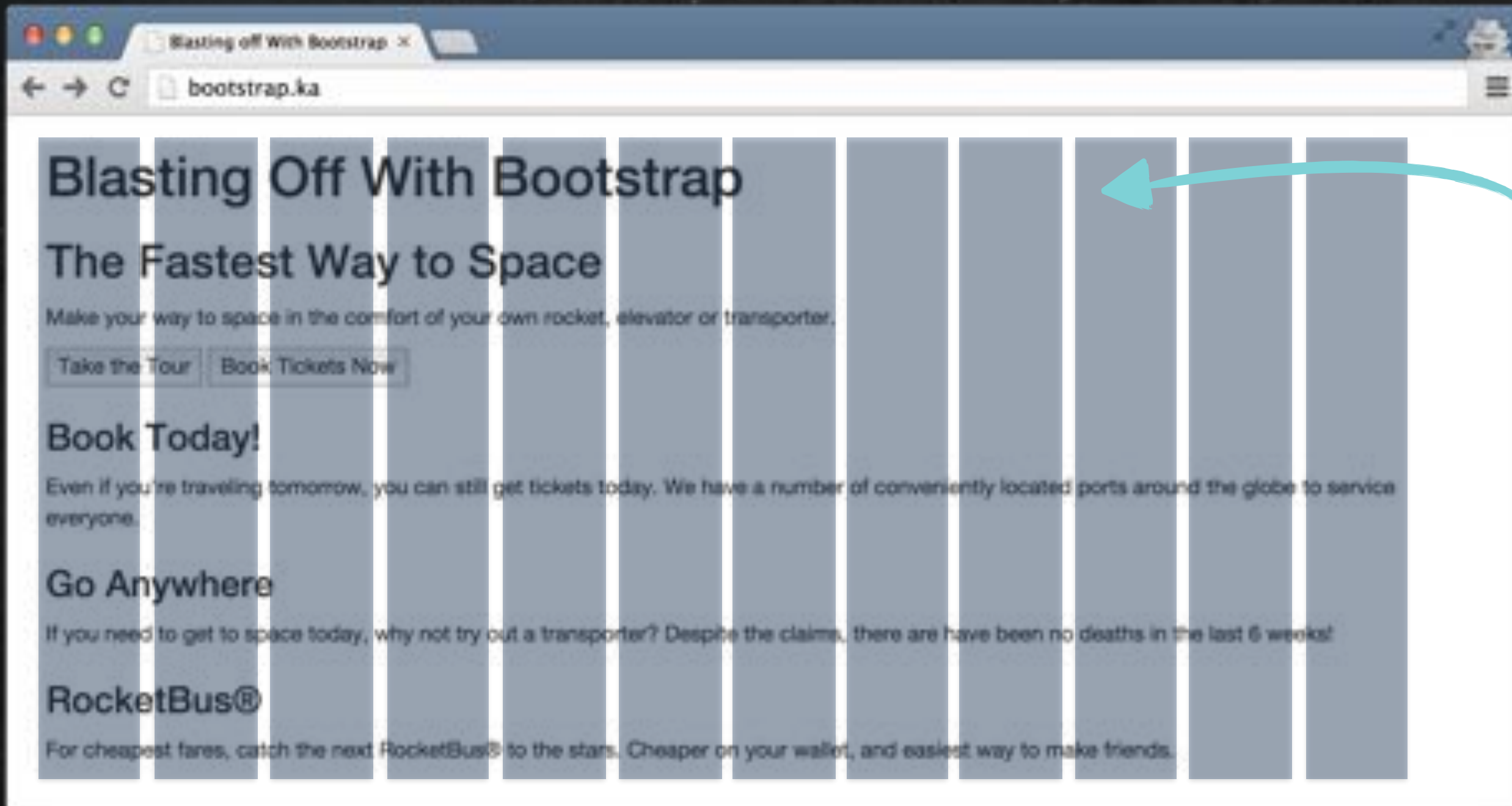


our site has  
one conceptual  
column right  
now



# Multiple Columns

Bootstrap gives us 12 columns to work with if we need them



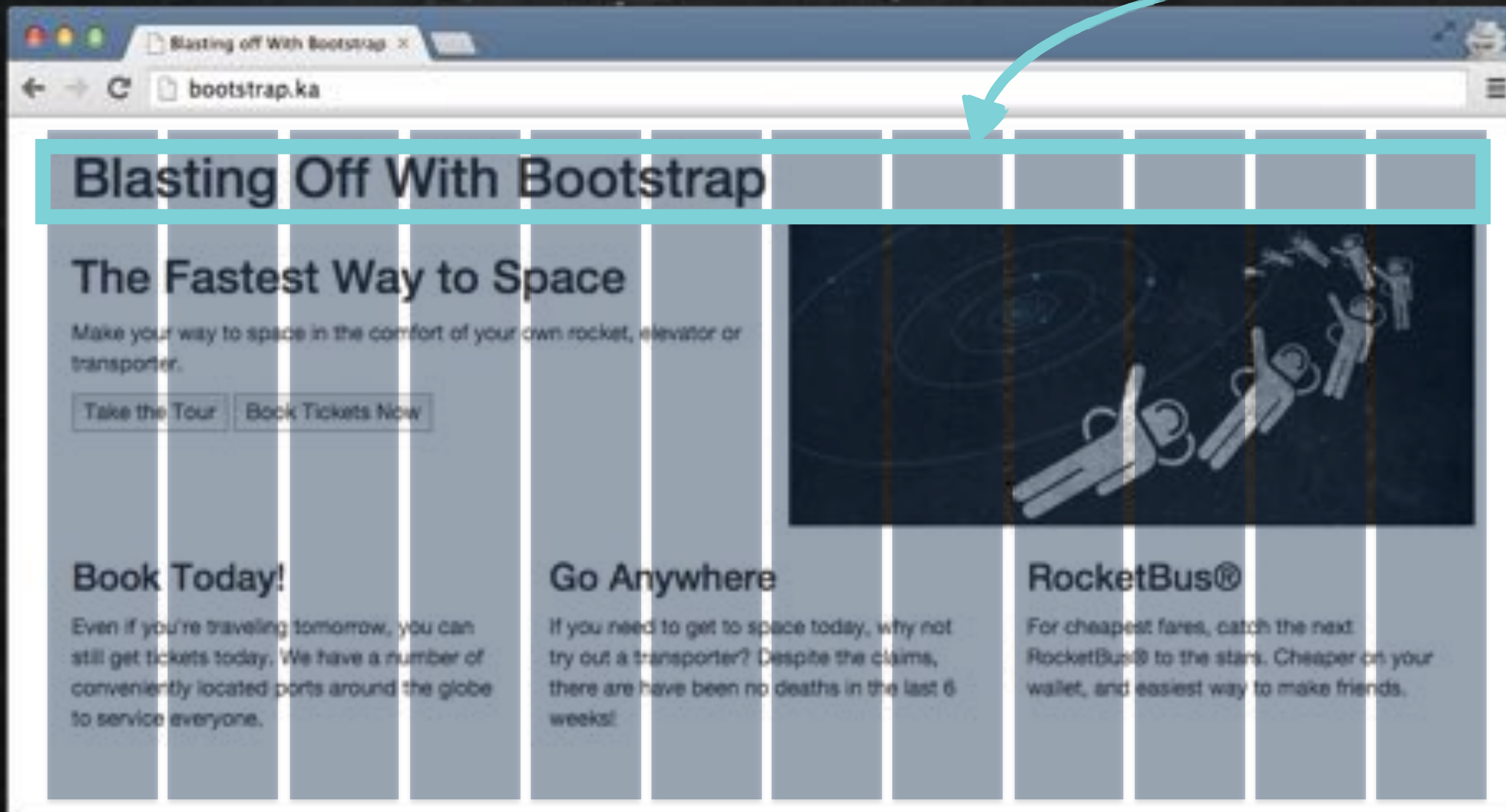
We can use  
all or some  
columns.  
We're using  
all



# Our Header in a Grid

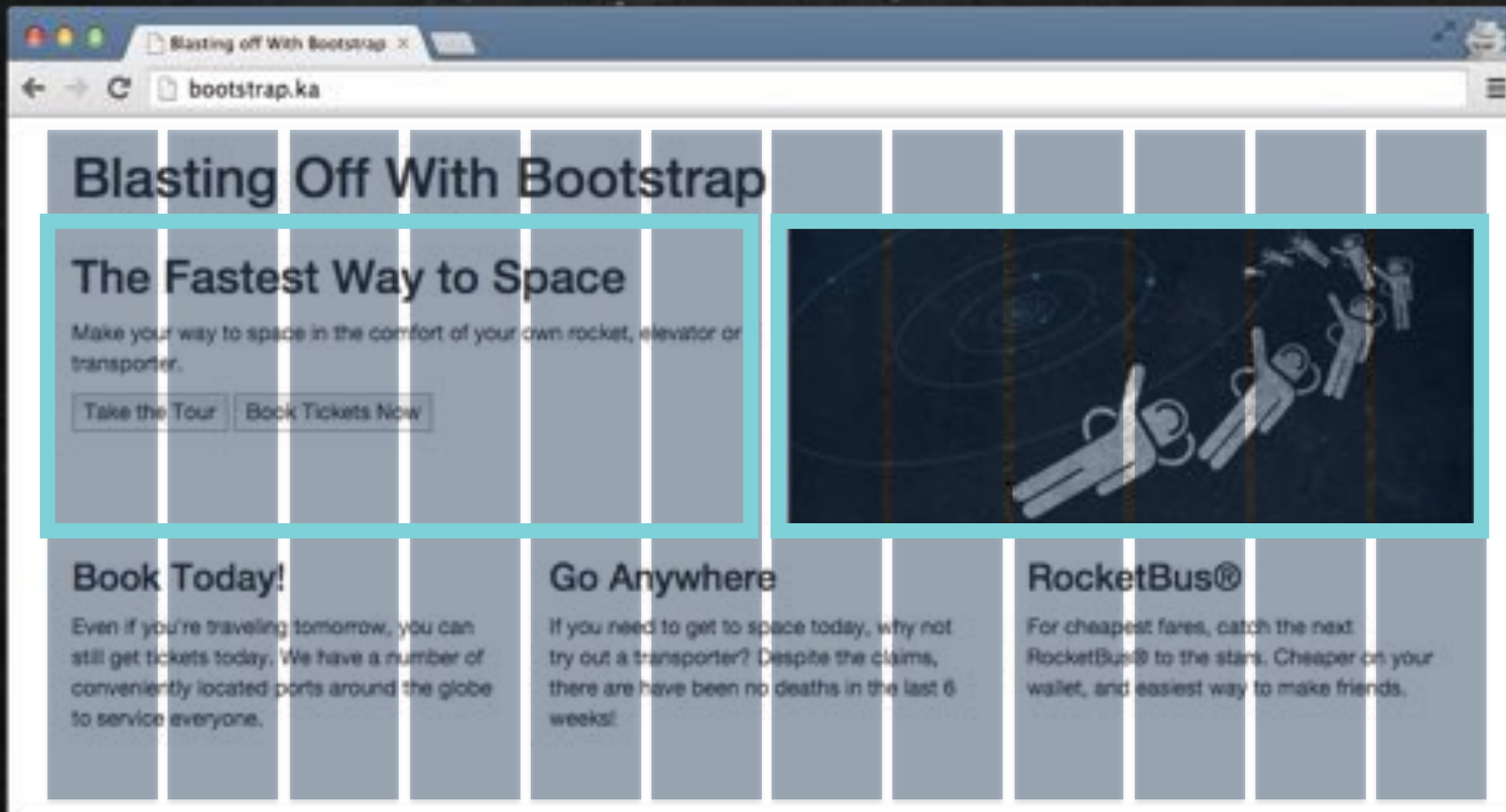
Elements can span all columns in our grid

Title spans 12 columns



# Taking Up Half the Page

With 12 columns, you can use 6 to take up half the page

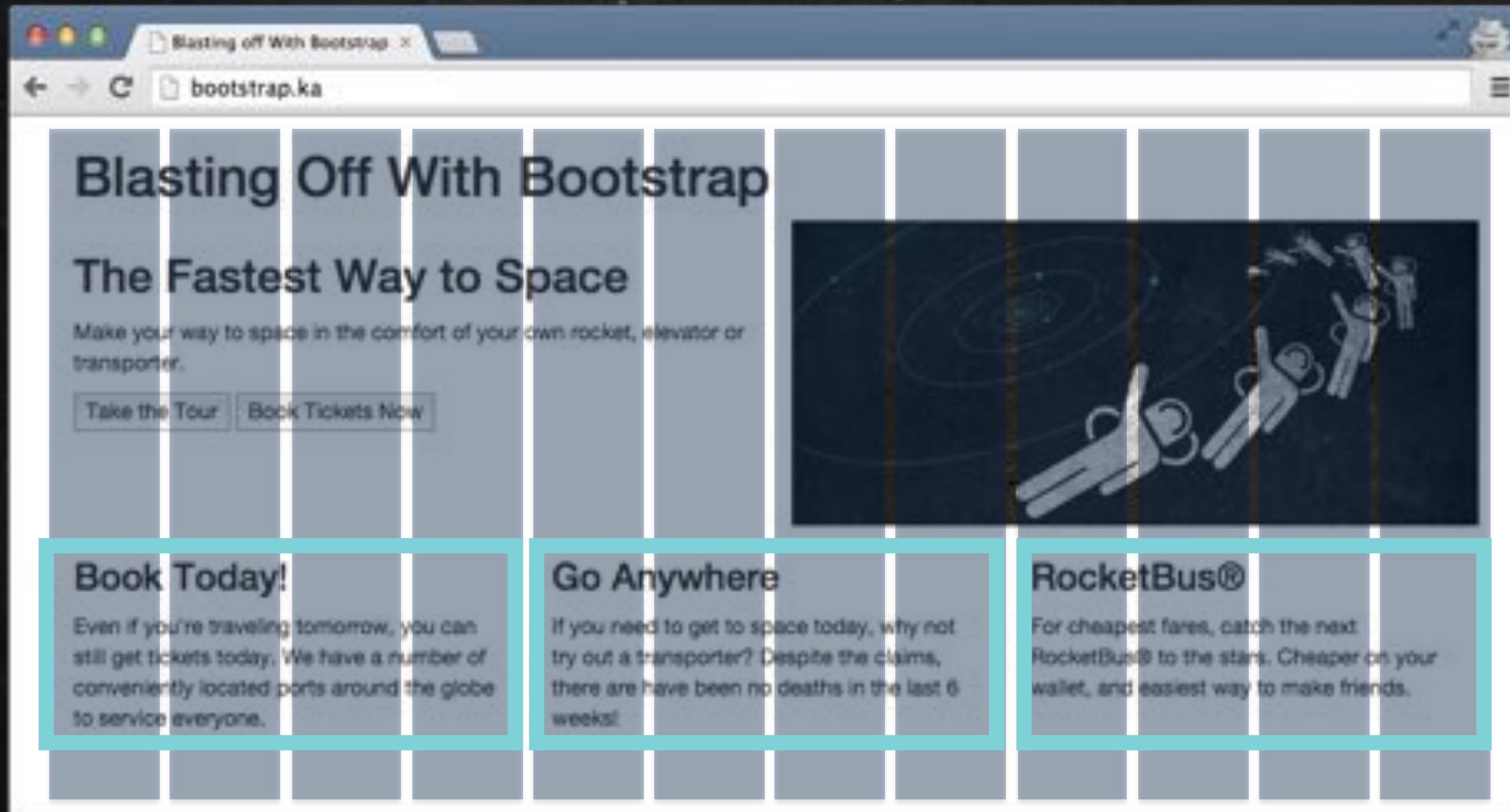


Lead & Image  
both span 6  
columns



# Getting Even Smaller

You probably won't ever need 12 individual columns, but 4 is common enough



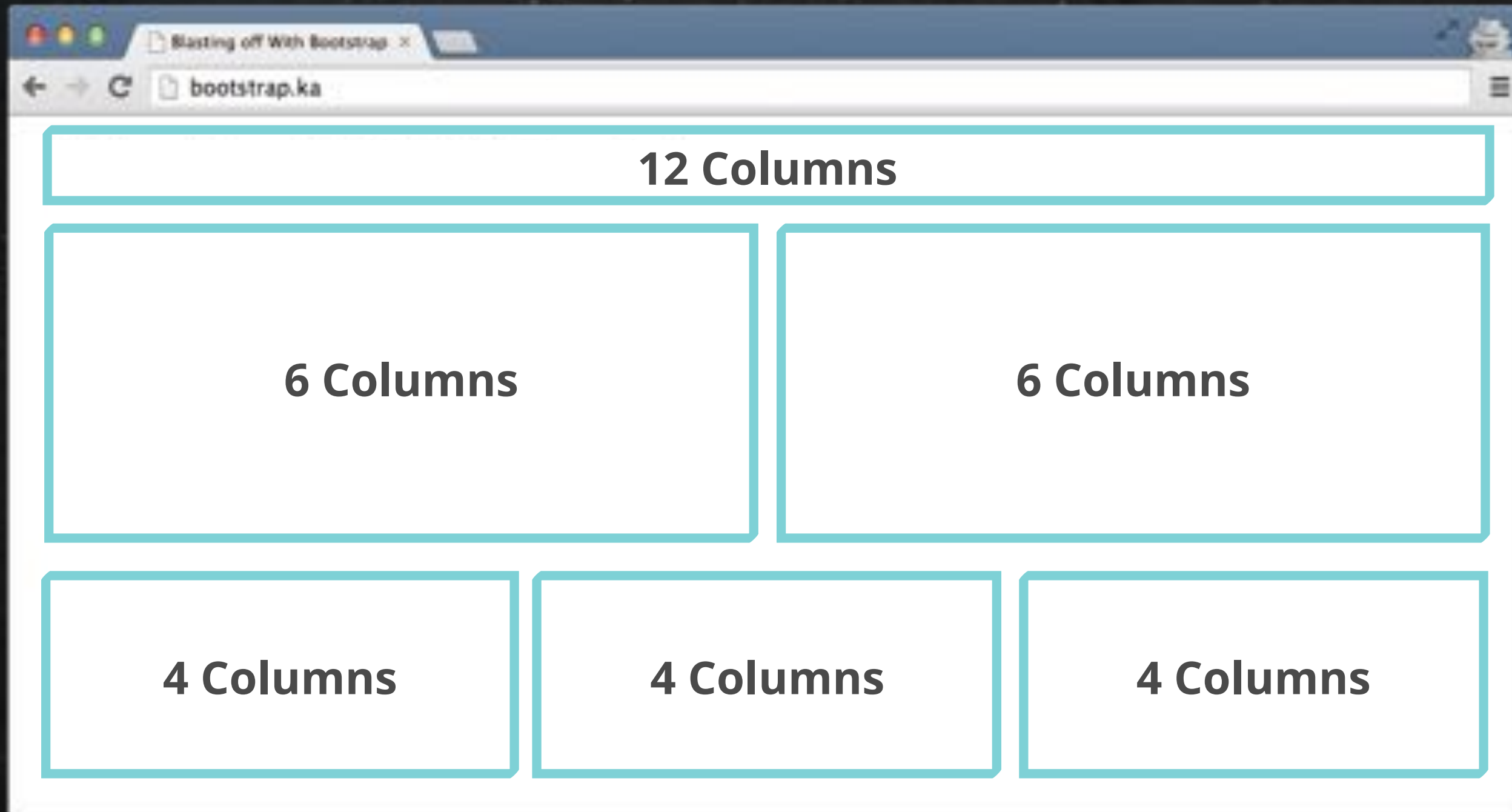
Features each  
span 4 columns





# Wire framing our Grid Design

Wire framing is a great way to visualize and plan out our page.

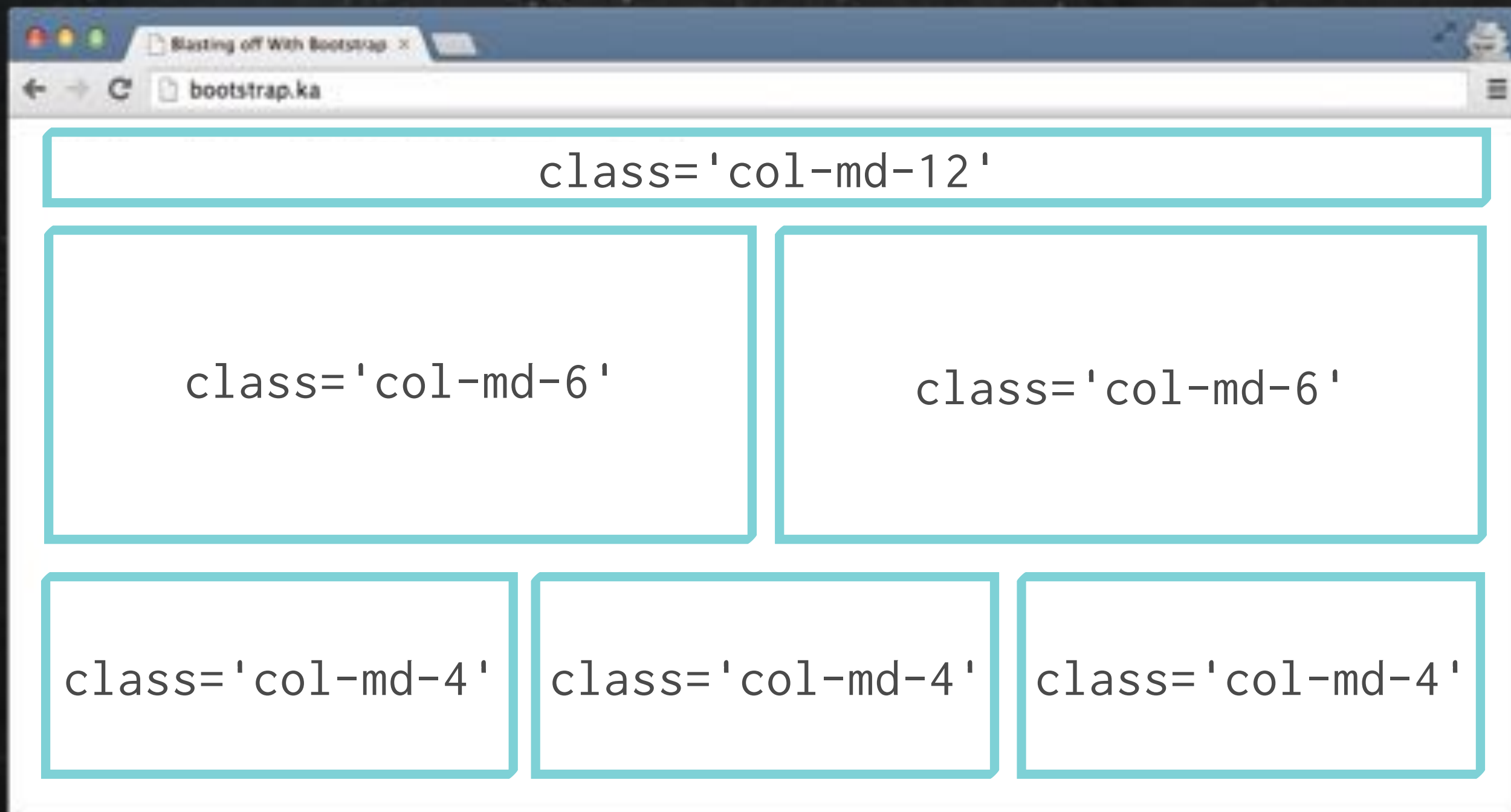


columns add up  
to 12 per row



# Bootstrap Medium Screen Grid Design

Bootstrap uses `.col-md-*` classes for denoting the number of columns



columns still  
add up to 12

# Adding Grids to Our HTML

---

Here's part of our content from level one that we'll convert to grids

index.html

```
<div class='container'>
  <h1>Blasting Off With Bootstrap</h1>

  <h2>The Fastest Way to Space</h2>
  <p>Make your way to space...</p>
  <button type='button'>Take the Tour</button>
  <button type='button'>Book Tickets Now</button>
  <img src='images/blast.png' alt='Blasting Off' />
  ...
</div>
```



# Using 12 Columns for our Title

Use a class of `.col-md-12` to wrap areas of your page you want to take up the entire width.

index.html

```
<div class='container'>
  <div class='col-md-12'>
    <h1>Blasting Off With Bootstrap</h1>
  </div>
  ...
</div>
```

our header takes up all 12 columns



**Blasting Off With Bootstrap**

# Lead Grid Using 6 Columns

Determine the number of columns you want, then pick the correct Bootstrap class for it.

index.html

```
<div class='container'>
  <div class='col-md-12'>...</div>
  <h2>The Fastest Way to Space</h2>
  <p>Make your way to space...</p>
  <button type='button'>Take the Tour</button>
  <button type='button'>Book Tickets Now</button>
  <img src='images/blast.png' alt='Blasting Off' />
  ...
</div>
```

out h2, lead text and buttons  
will take up 6 columns

our image will take up another 6 columns

# Lead Grid Using .col-md-6

Use a class of `.col-md-6` to contain an element to 6 columns, or half the page.

index.html

```
<div class='container'>
  <div class='col-md-12'>...
    <div class='col-md-6'>
      <h2>The Fastest Way to Space</h2>
      <p>Make your way to space...</p> ...
    </div>
    <div class='col-md-6'>
      <img src='images/blast.png' alt='Blasting Off' />
    </div>
  </div>
```

## The Fastest Way to Space

Make your way to space in the comfort of your own rocket, elevator or transporter.

Take the Tour

Book Tickets Now



These columns  
appear side by side




# Feature Grid Using 4 Columns

Using one-third of the page, or 4 columns. 4 columns \* 3 elements = 12 columns total.

index.html

```
<div class='container'>...  
  <h3>Book Today!</h3>  
  <p>Even if you're traveling...</p>  
  
  <h3>Go Anywhere</h3>  
  <p>If you need to get to space today...</p>  
  
  <h3>RocketBus<reg></h3>  
  <p>For cheapest fares, catch the...</p>  
</div>
```

Let's make each feature  
take up 4 columns.



# Feature Grid Using .col-md-4

The next featured item will be immediately to the right.

index.html

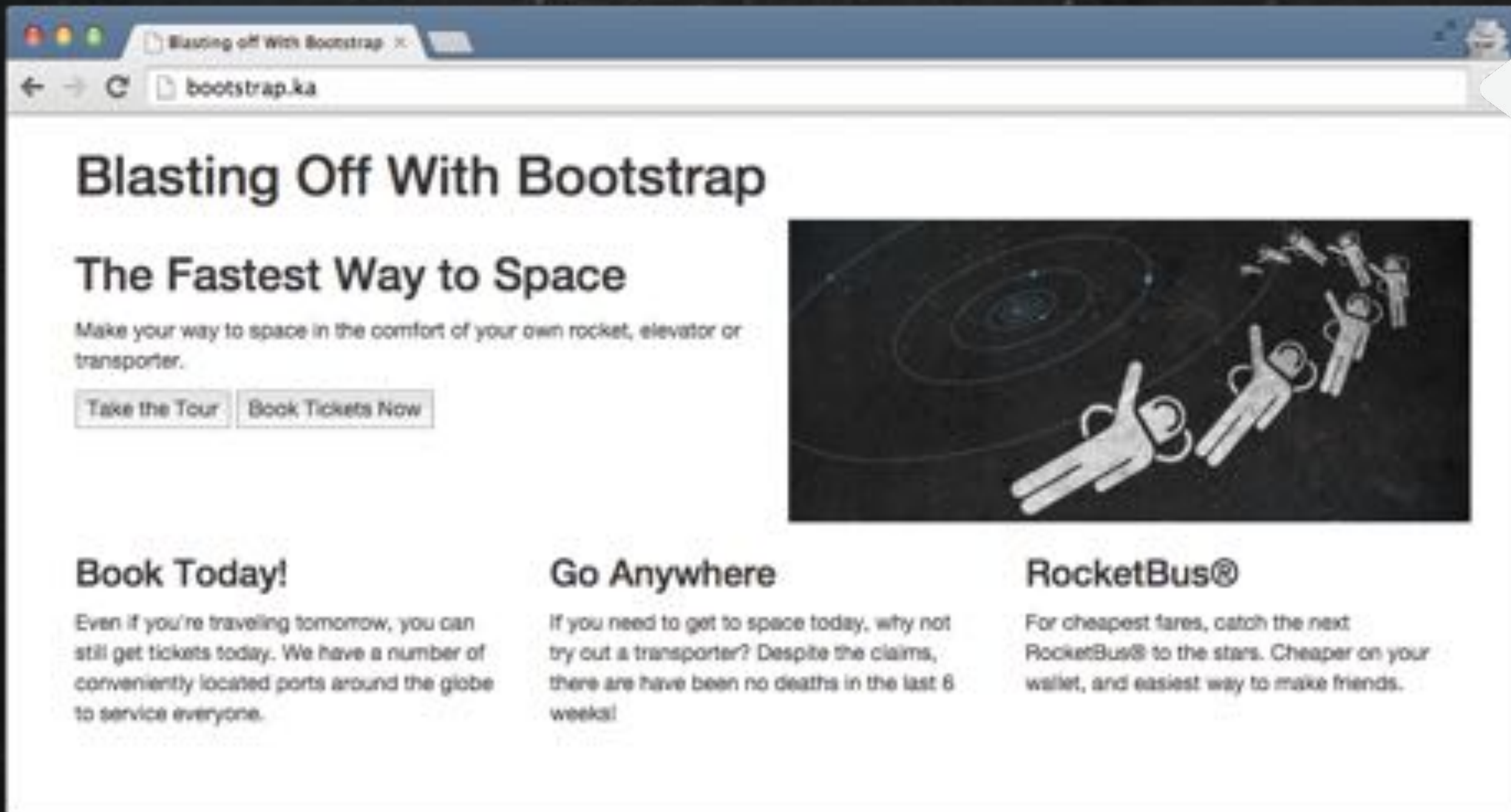
Each feature will take up 4 columns

```
<div class='container'>...  
  <div class='col-md-4'>  
    <h3>Book Today!</h3> <p>Even if you're traveling...</p>  
  </div>  
  <div class='col-md-4'>  
    <h3>Go Anywhere</h3> <p>If you need to get to space today...</p>  
  </div>  
  <div class='col-md-4'>  
    <h3>RocketBus<sup>®</sup></h3> <p>For cheapest fares, catch the...</p>  
  </div>  
</div>
```



# Column Preview

Our page is starting to take shape!





# Grid Refactoring

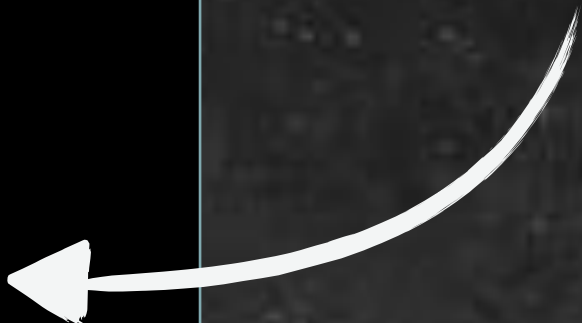
It's difficult to know when a new row starts without doing math.

index.html

```
<div class='container'>
  <div class='col-md-12'>...</div>
  <div class='col-md-6'>...</div>
  <div class='col-md-6'>...</div>
  <div class='col-md-4'>...</div>
  <div class='col-md-4'>...</div>
  <div class='col-md-4'>...</div>
</div>
```

HTML

we're grouping by column, but  
what about by row?



# Adding Rows using .row

The number of columns in each row adds up to 12.

```
<div class='container'>
  <div class='row'>
    <div class='col-md-12'></div>
  </div>
  <div class='row'>
    <div class='col-md-6'></div>
    <div class='col-md-6'></div>
  </div>
  <div class='row'>
    <div class='col-md-4'></div>
    <div class='col-md-4'></div>
    <div class='col-md-4'></div>
  </div>
</div>
```

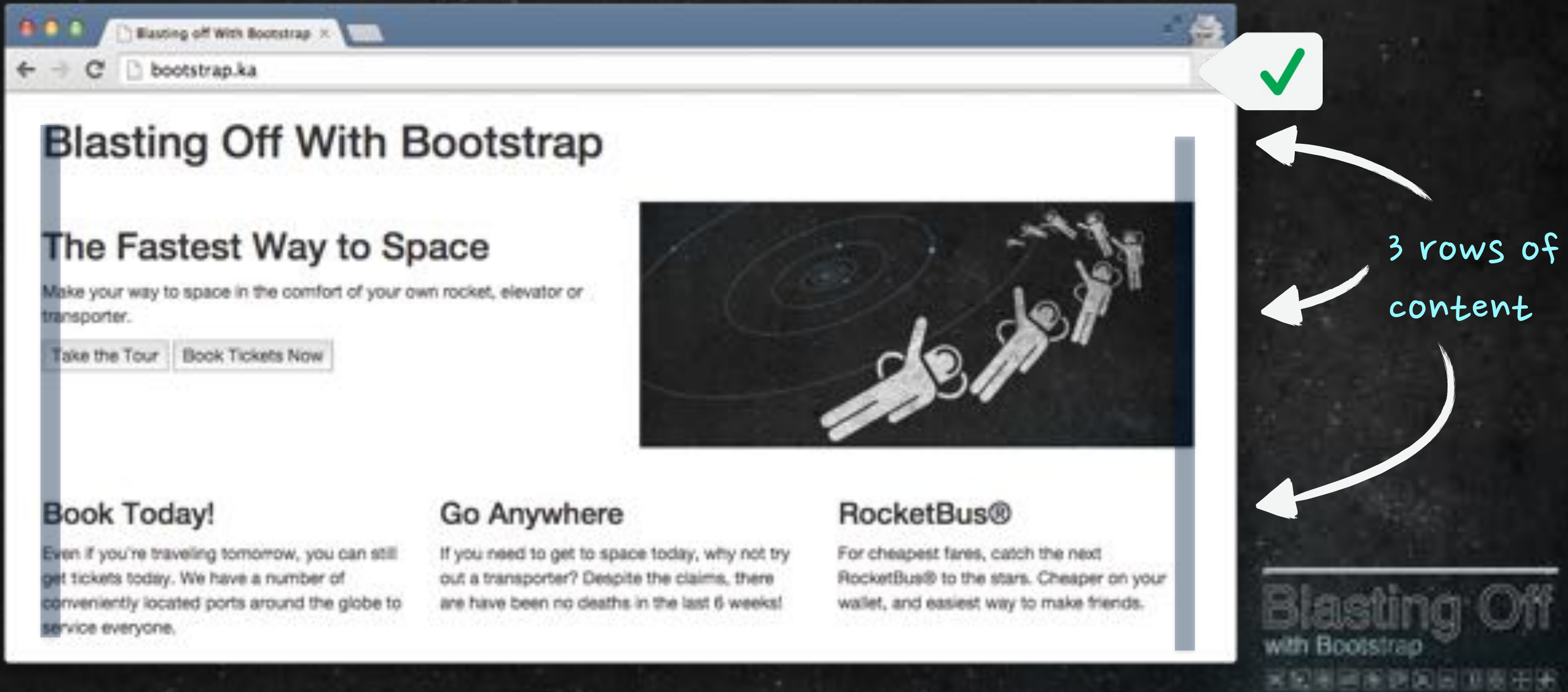


using .row makes our code  
a lot easier to read.



# Row Preview

Our page looks almost the same, but it's actually using 15px more of the screen with rows



The screenshot shows a web browser window with the address bar displaying "bootstrap.kk". The page title is "Blasting Off With Bootstrap". The main content area features a large image of people in space, with a green checkmark icon above it. A curved arrow points from the text "3 rows of content" to the main content area.

**Blasting Off With Bootstrap**

**The Fastest Way to Space**

Make your way to space in the comfort of your own rocket, elevator or transporter.

[Take the Tour](#) [Book Tickets Now](#)

**Book Today!**

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.

**Go Anywhere**

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!

**RocketBus®**

For cheapest fares, catch the next RocketBus® to the stars. Cheaper on your wallet, and easiest way to make friends.

**Blasting Off with Bootstrap**



# Adding too Many Columns

What should happen if you include more than 12 columns in a row?

index.html

```
<div class='container'>
  <div class='row'>
    <div class='col-md-4'></div>
    <div class='col-md-5'></div>
    <div class='col-md-4'></div>
  </div>
</div>
```

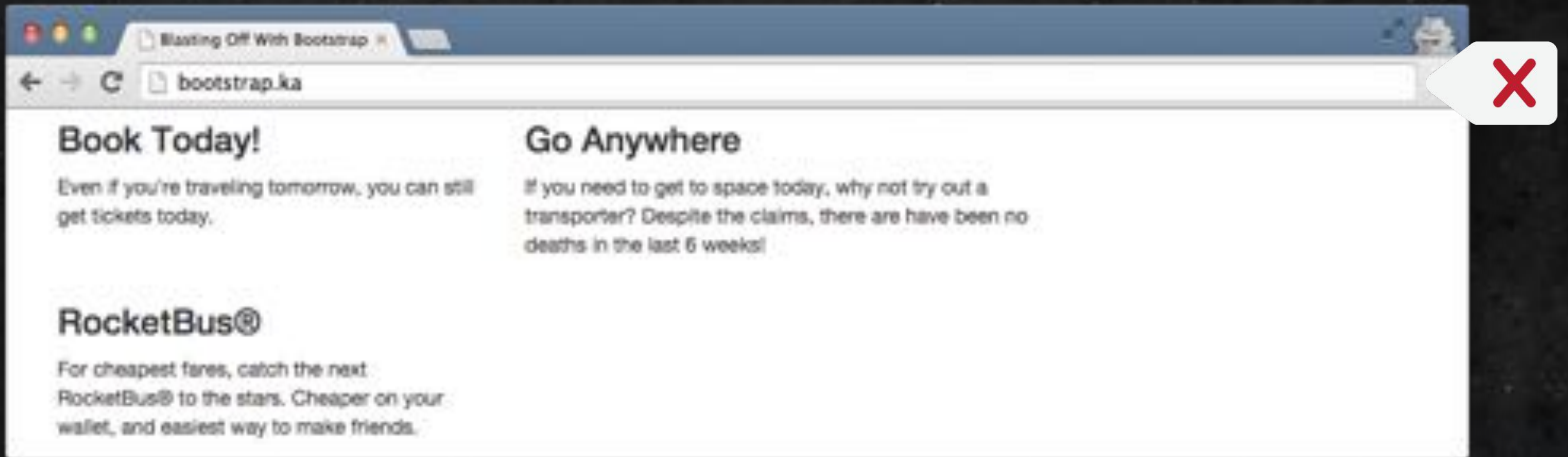


what would this look  
like in a browser?



# Multiple Rows

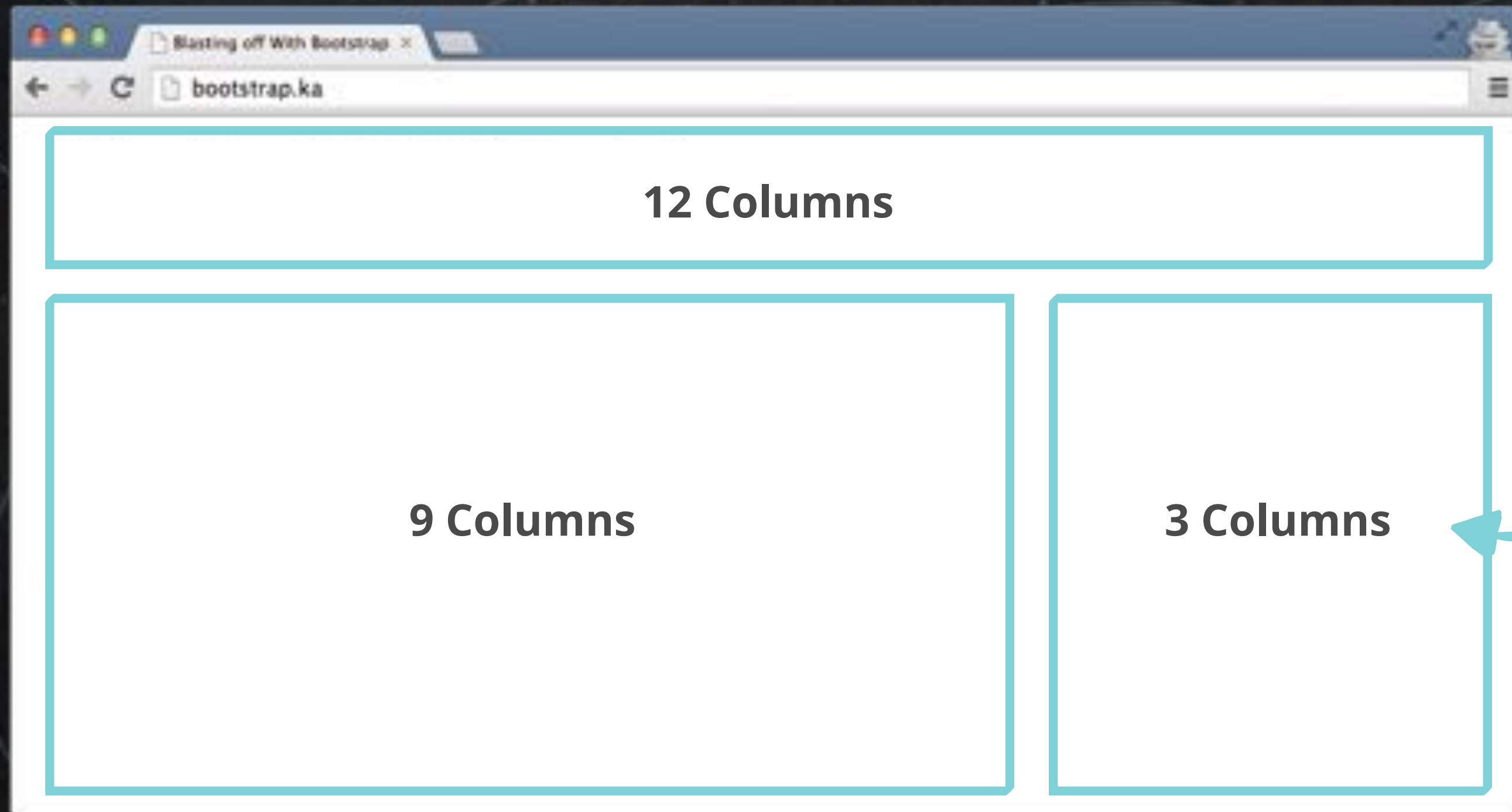
Our last featured item doesn't have enough space and moves onto its own row



Same thing that happened  
before we started using `.row`

# Designing With Grids

A popular proportion for sites with grids is 9 columns + 3 columns



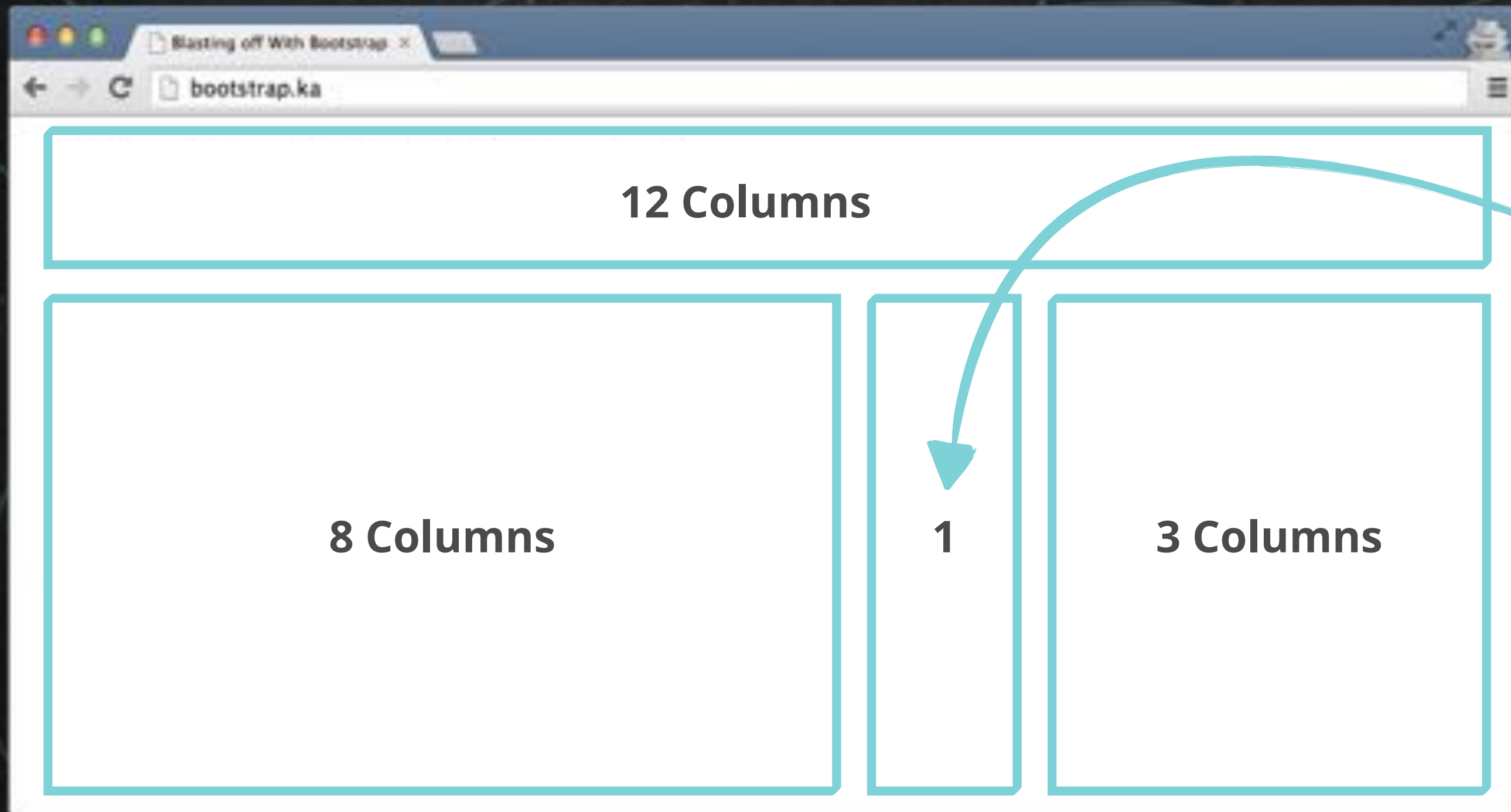
9/3 is good for  
blogs with  
sidebars





# Letting Columns Breathe with Blanks

Adding a bit of space between columns can help them appear less cluttered



How could we  
create a column  
of padding?

# Empty Columns

Don't create empty columns. Bootstrap has a better way!

index.html

```
<div class='container'>
  <div class='row'>
    <div class='col-md-12'></div>
  </div>
  <div class='row'>
    <div class='col-md-8'></div>
    <div class='col-md-1'></div>
    <div class='col-md-3'></div>
  </div>
</section>
```



You could create an empty column, but there is a better way.



# Empty Columns Using an Offset

The `.col-md-offset-*` class is used to add left padding for a given number of columns.

index.html

```
<div class='container'>
  <div class='row'>
    <div class='col-md-12'></div>
  </div>
  <div class='row'>
    <div class='col-md-8'></div>
    <div class='col-md-3 col-md-offset-1'></div>
  </div>
</section>
```



This \* could  
be 0-12

col-md-offset-\*



Adds a column of padding to the left of the sidebar



# Blog Example

An example blog from the Bootstrap website using this technique



8 columns for content

1 column offset

3 columns for the sidebar

# Thinking In Grids

---

Level 2, Section 1





---

# Blasting Off

with Bootstrap





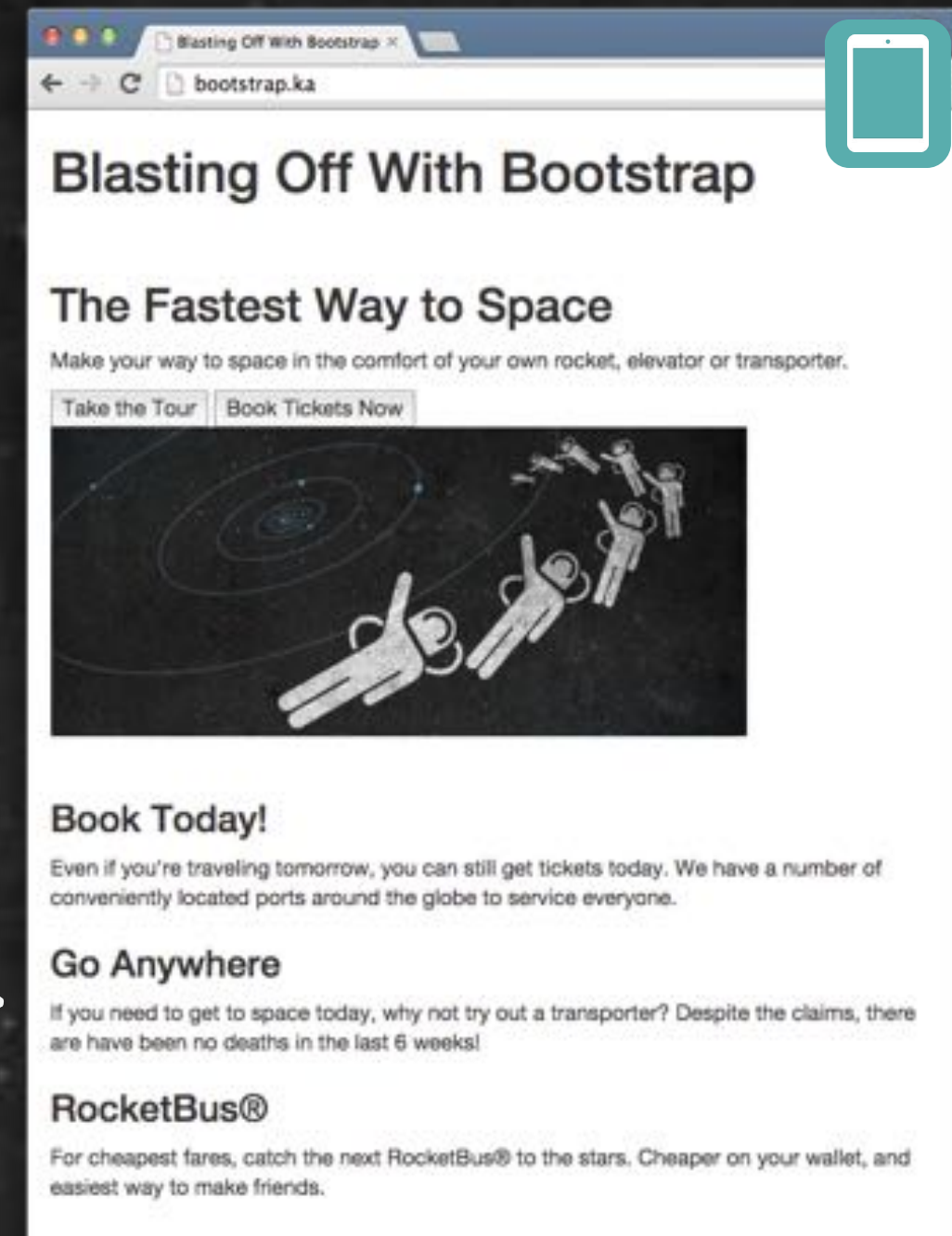
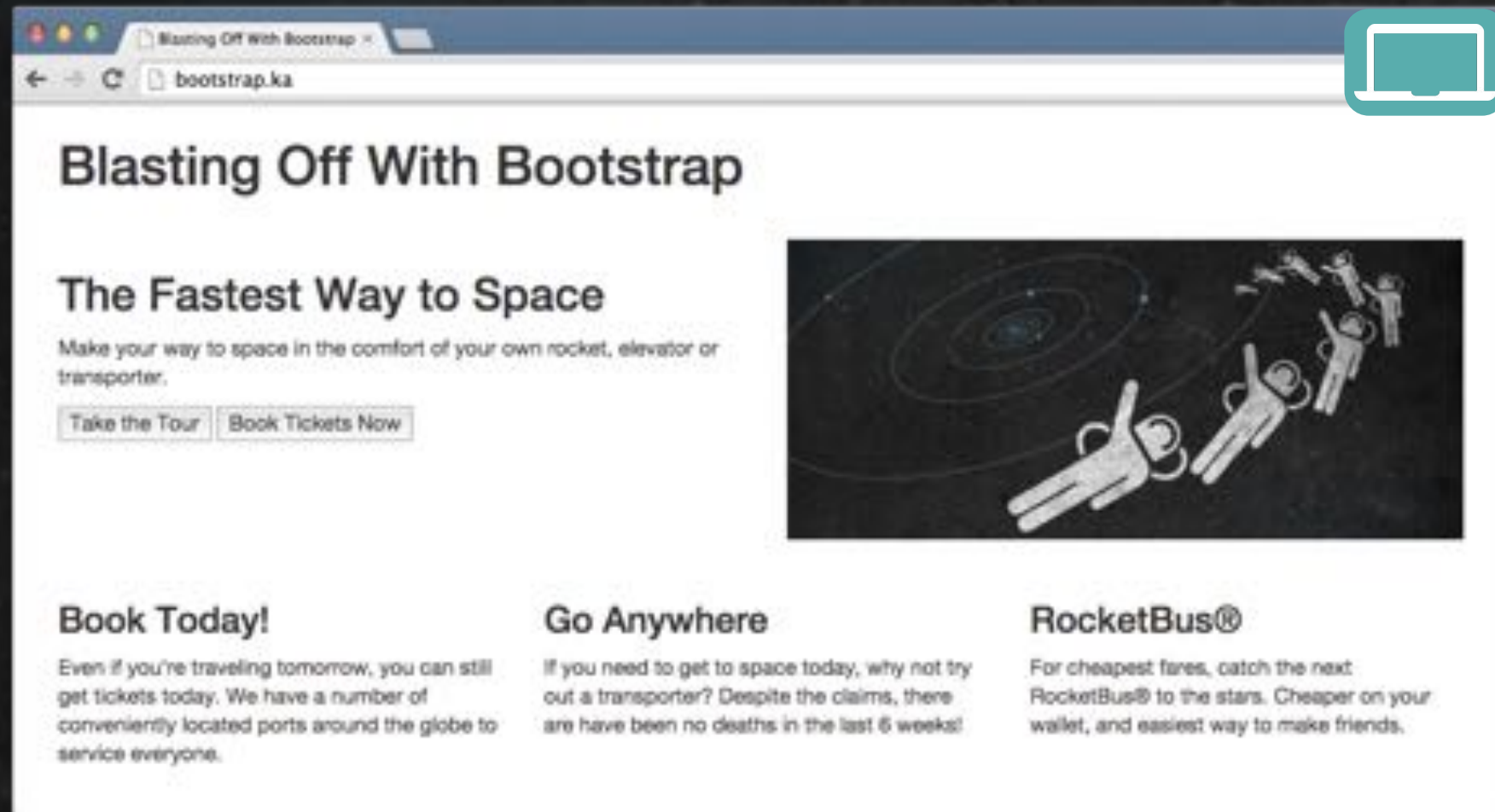
# Responsive Gridding

---

Level 2, Section 2

# Our Website So Far

It looks great on our desktop's screen, but if we view it on a phone, our columns are gone!



None of our columns are  
applied for screens below 992px.



# Our Goal Mobile Layout

Hide big image in  
smaller resolutions



Put Book Today  
on its own row




This icon means  
we're seeing the  
same styling as  
on a phone



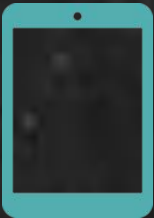

# Medium Screen Size

A good starting point for your design. Looks good on laptops and desktops.

	Grid Size	Grid Class	Offset Class	Screen Size
	Medium	.col-md-*	.col-md-offset-*	992px+

# Designing for Smaller Screens

The “small” grid size is used for smaller resolutions, often tablets or compact laptop screens.

	Grid Size	Grid Class	Offset Class	Screen Size
	Small	.col-sm-*	.col-sm-offset-*	768px+
	Medium	.col-md-*	.col-md-offset-*	992px+

# Our Current Features

Our columns only work with a resolution of 992px and up.

index.html

```
<div class='row'>
  <div class='col-md-4'>
    <h3>Book Today!</h3>...
  </div>
  <div class='col-md-4'>
    <h3>Go Anywhere</h3>...
  </div>
  <div class='col-md-4'>
    <h3>RocketBus&reg;</h3>...
  </div>
</div>
```



Each feature shows up on a different row on smaller screens.

HTML



# Adding Grids for Smaller Resolutions

Our featured items will have the same grid sizes in small and medium mode.

index.html

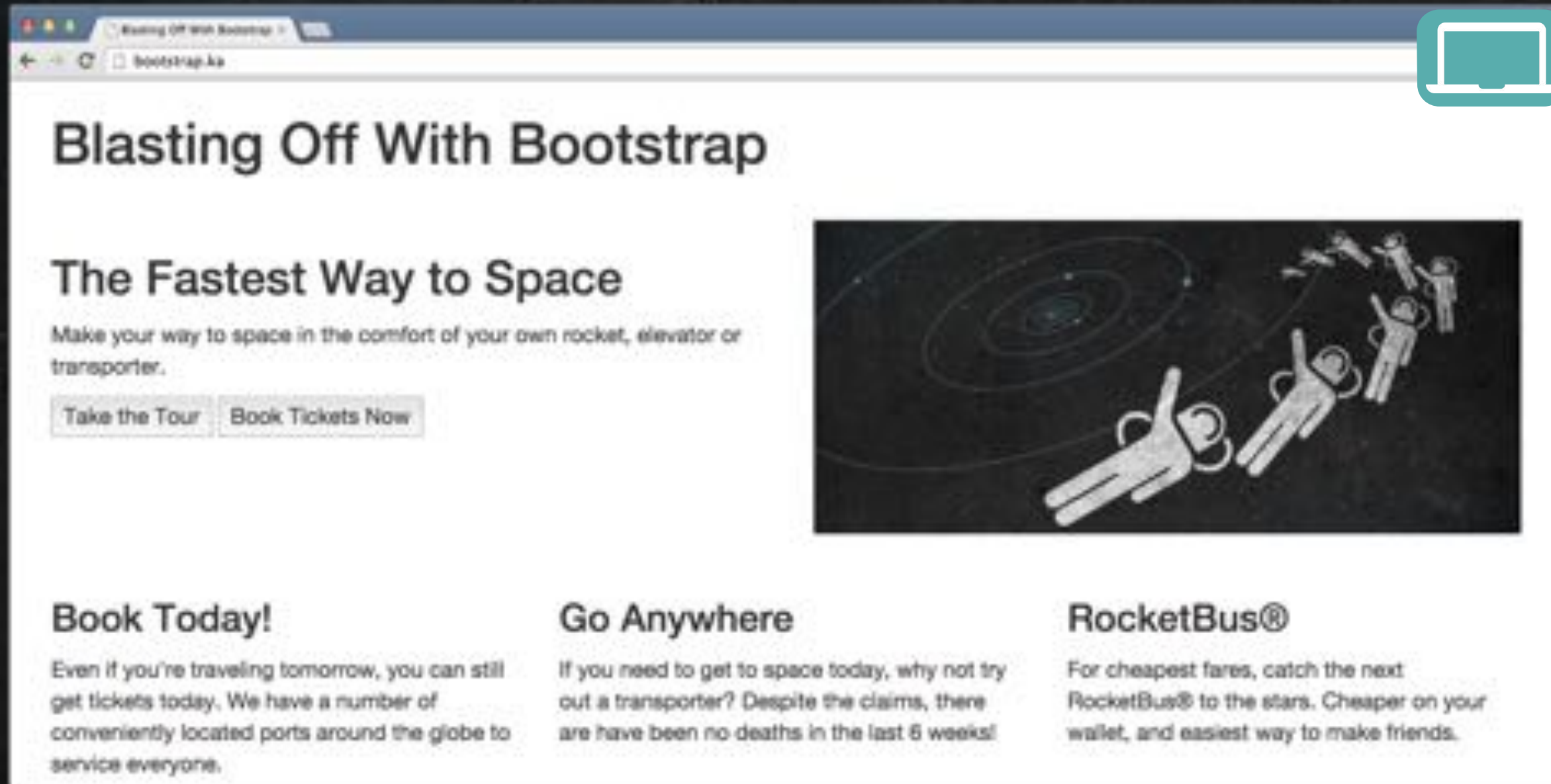
```
<div class='row'>
  <div class='col-sm-4'>
    <h3>Book Today!</h3>...
  </div>
  <div class='col-sm-4'>
    <h3>Go Anywhere</h3>...
  </div>
  <div class='col-sm-4'>
    <h3>RocketBus&reg;</h3>...
  </div>
</div>
```



These will work in  
768px and higher



# Feature Columns in Medium Sized Screens

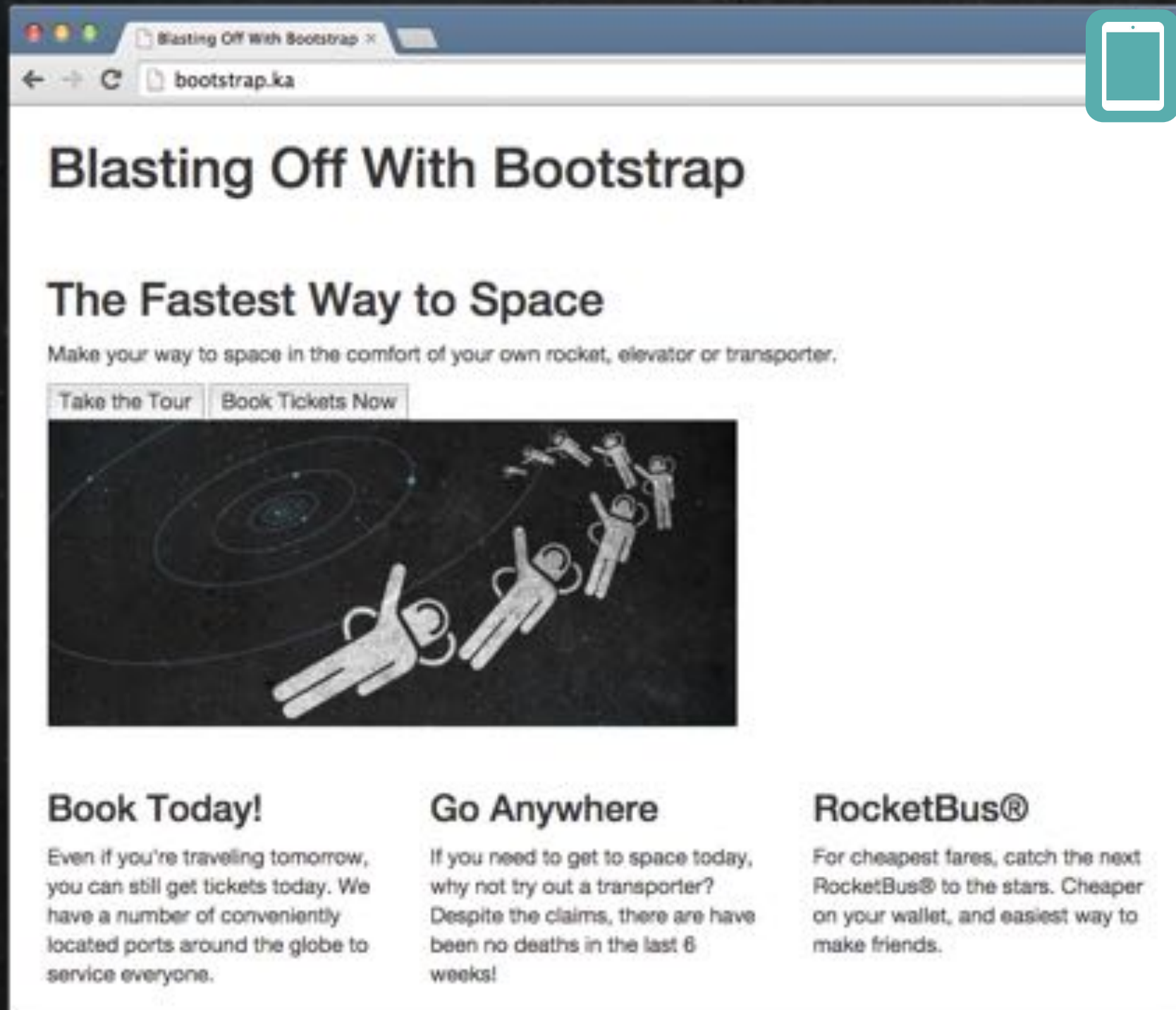


viewing the page  
in "medium" mode

Features are still spanning 4 columns each



# Feature Columns in Small Sized Screens



viewing this page  
on a tablet.

our features each span  
4 columns in "small"  
mode and above.



# Extra Small Mode


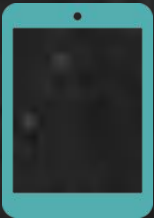



What about below 768px?  
Here's our phone view,  
called "extra small" mode.

We've lost our columns again!  
Let's look into how to use a  
bit more space.

# Extra Small Browser Sizes

Great for specifying the minimum width for elements. Also the layout used on many phones.

	Grid Size	Grid Class	Offset Class	Screen Size
	Extra Small	.col-xs-*	.col-xs-offset-*	0px+
	Small	.col-sm-*	.col-sm-offset-*	768px+
	Medium	.col-md-*	.col-md-offset-*	992px+



# Adding Grids for Extra Small Screens

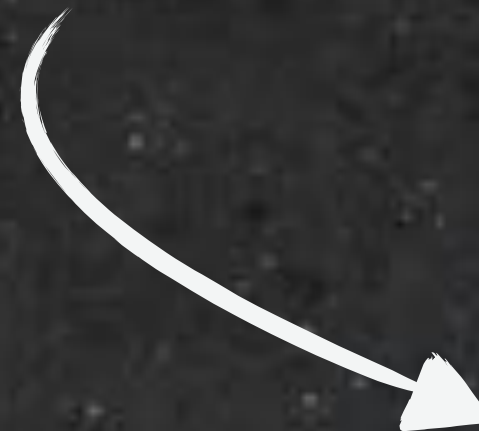
We could use the extra small grids, but there's a better way.

index.html

```
<div class='row'>
  <div class='col-xs-4'>
    <h3>Book Today!</h3>...
  </div>
  <div class='col-xs-4'>
    <h3>Go Anywhere</h3>...
  </div>
  <div class='col-xs-4'>
    <h3>RocketBus<sup>®</sup></h3>...
  </div>
</div>
```



Looks a bit cramped. We can do better!

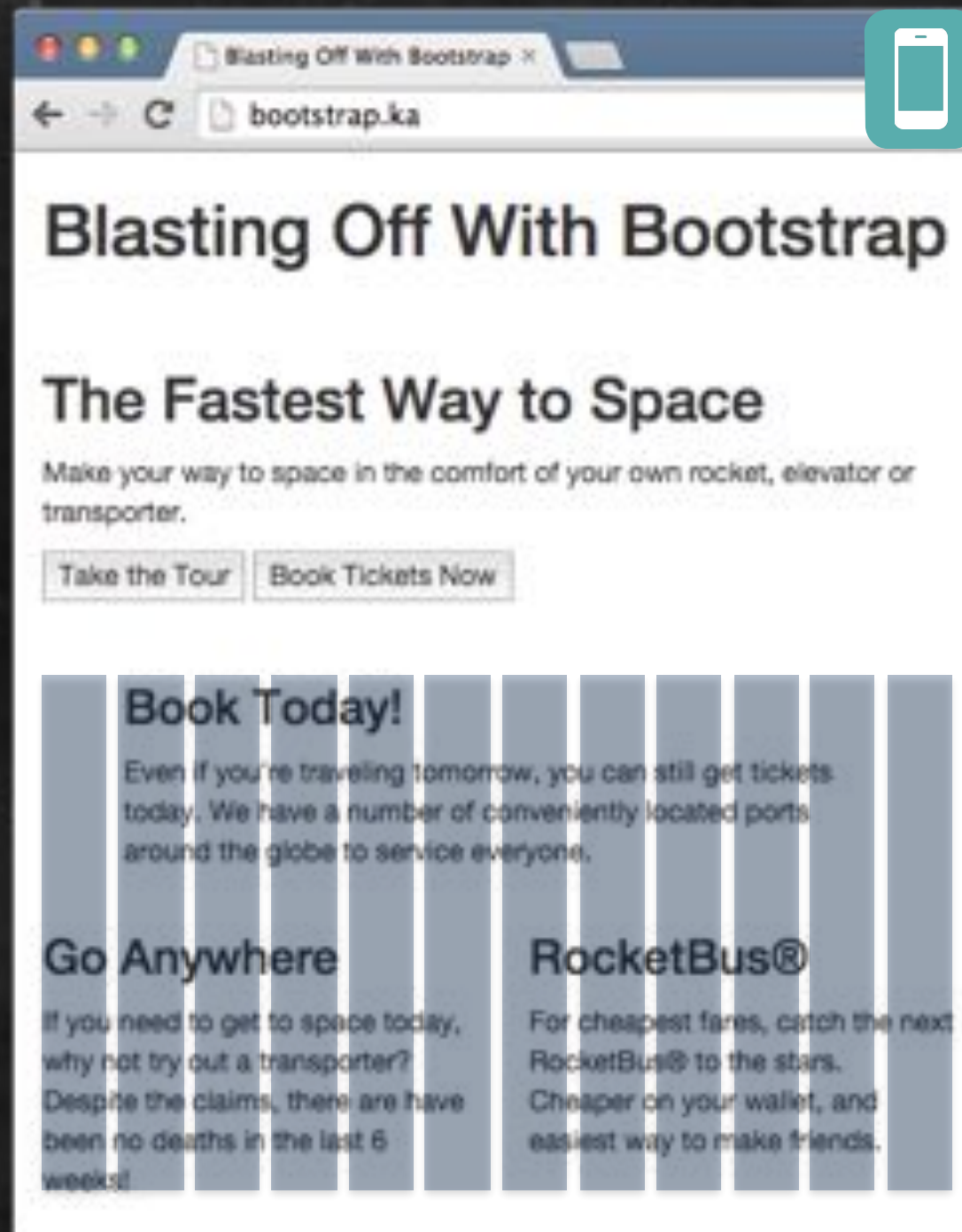




# Reviving our Goal Layout

We can plan out how many columns each of our elements will use prior to jumping into the code.

“Book Today” will use 10 columns.



Our other features will each use 6 columns.

It'll have an offset on the left and right.

# Features in Extra Small Screens

index.html

```
<div class='row'>
  <div class='col-sm-4 col-xs-12'>
    <h3>Book Today!</h3>
  </div>
  <div class='col-sm-4 col-xs-6'>
    <h3>Go Anywhere</h3>
  </div>
  <div class='col-sm-4 col-xs-6'>
    <h3>RocketBus&reg;</h3>
  </div>
</div>
```

"Book Today" will take up all 12 columns



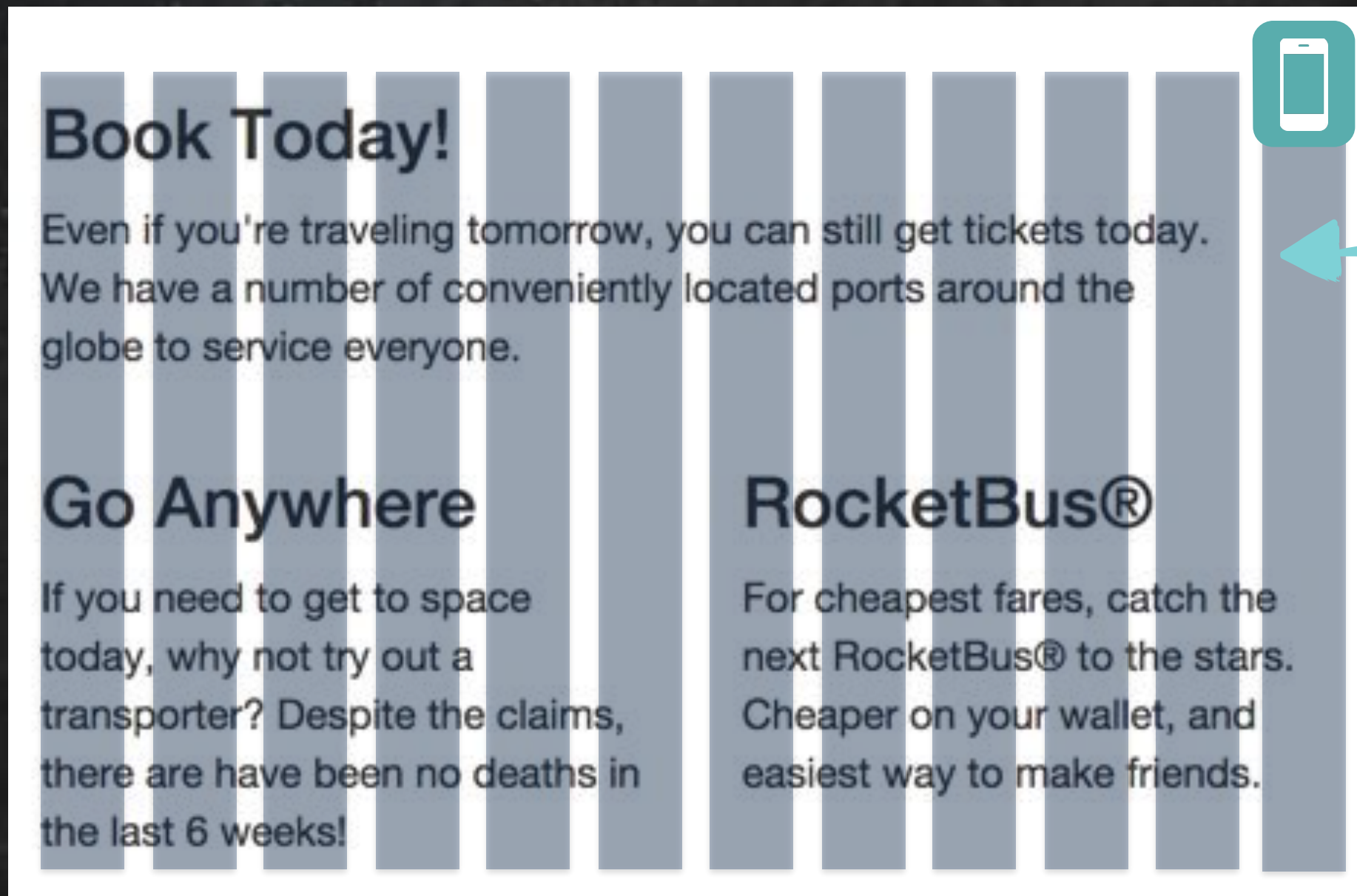
The other two features will take up 6 columns, and be below "Book Today".





# Extra Small Feature Layout

Using our new extra small classes, our features section is taking shape.



what this looks  
like on a phone

We still need to add an  
offset to "Book Today".



# Centering Features for Extra Small Screens

This will center this column giving it a column of spacing on each side

use the middle 10 columns

```
<div class='row'>
  <div class='col-sm-4 col-xs-10 col-xs-offset-1'>
    <h3>Book Today!</h3>
  </div>
  <div class='col-sm-4 col-xs-6'>
    <h3>Go Anywhere</h3>
  </div>
  <div class='col-sm-4 col-xs-6'>
    <h3>RocketBus&reg;</h3>
  </div>
</div>
```

The order of  
the classes  
doesn't matter.

# “Book Today” On Extra Small Screens

---

“Go Anywhere” started on a new row because it needed 6 columns and only 1 was available.

## Book Today!

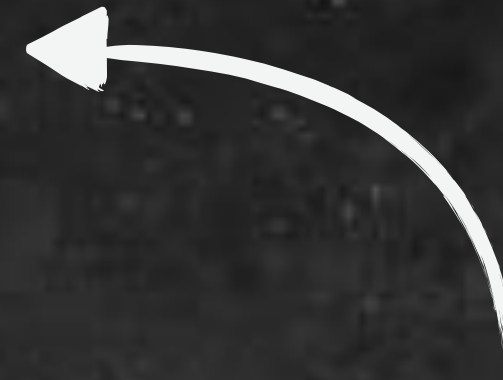

Even if you're traveling tomorrow, you can still get tickets today. We have a number of conveniently located ports around the globe to service everyone.

## Go Anywhere

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!

## RocketBus®

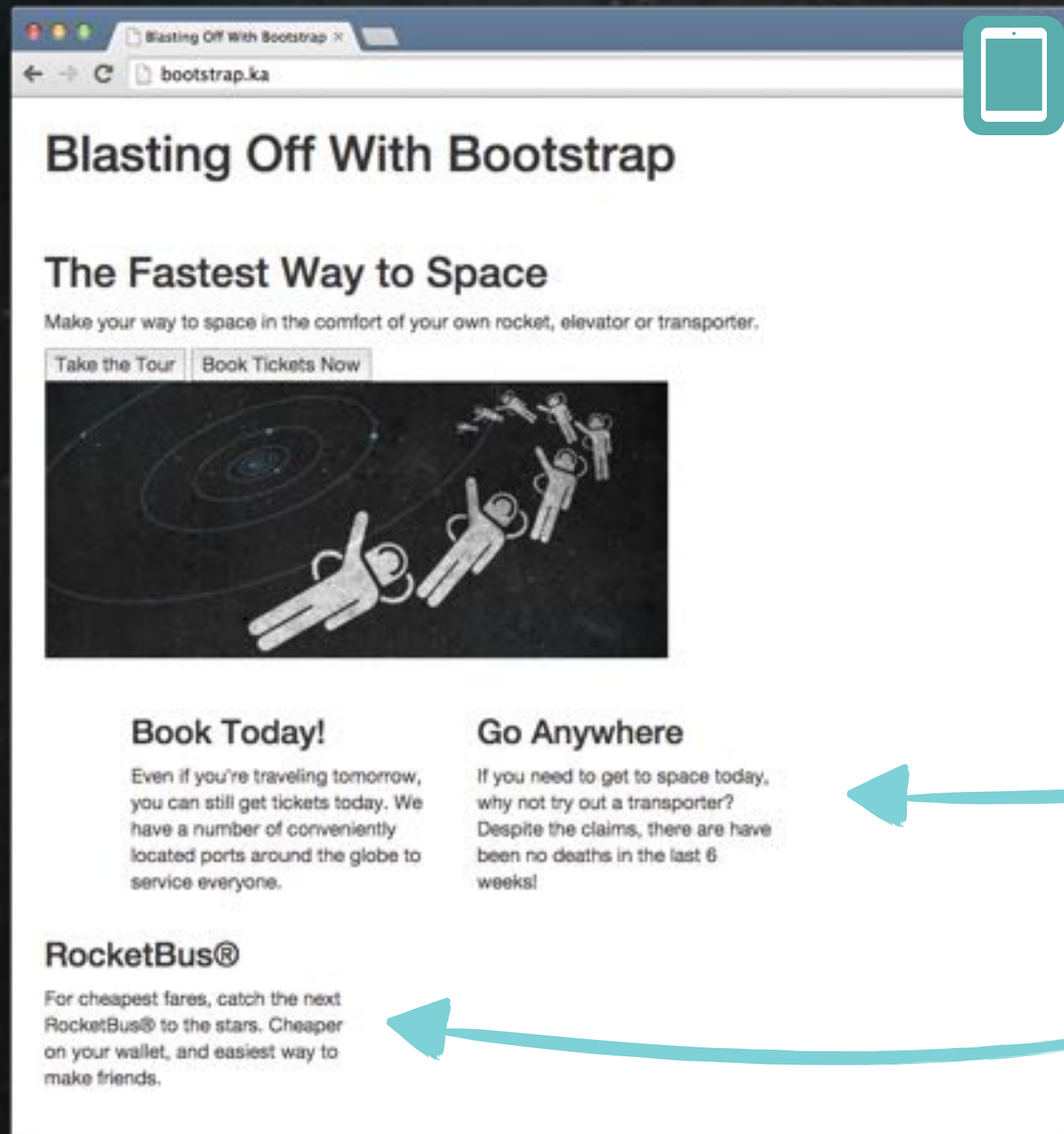
For cheapest fares, catch the next RocketBus® to the stars. Cheaper on your wallet, and easiest way to make friends.



“Book Today” stands out  
on extra small screens.



# Overriding Offsets for Small Screens



Our `.col-xs-offset-1` is being applied to "small" and "medium" resolutions as well.

Since we're using 9 columns in the first horizontal space, the overflowing element is moved to the next row.



# Removing the Offset for Small Screens

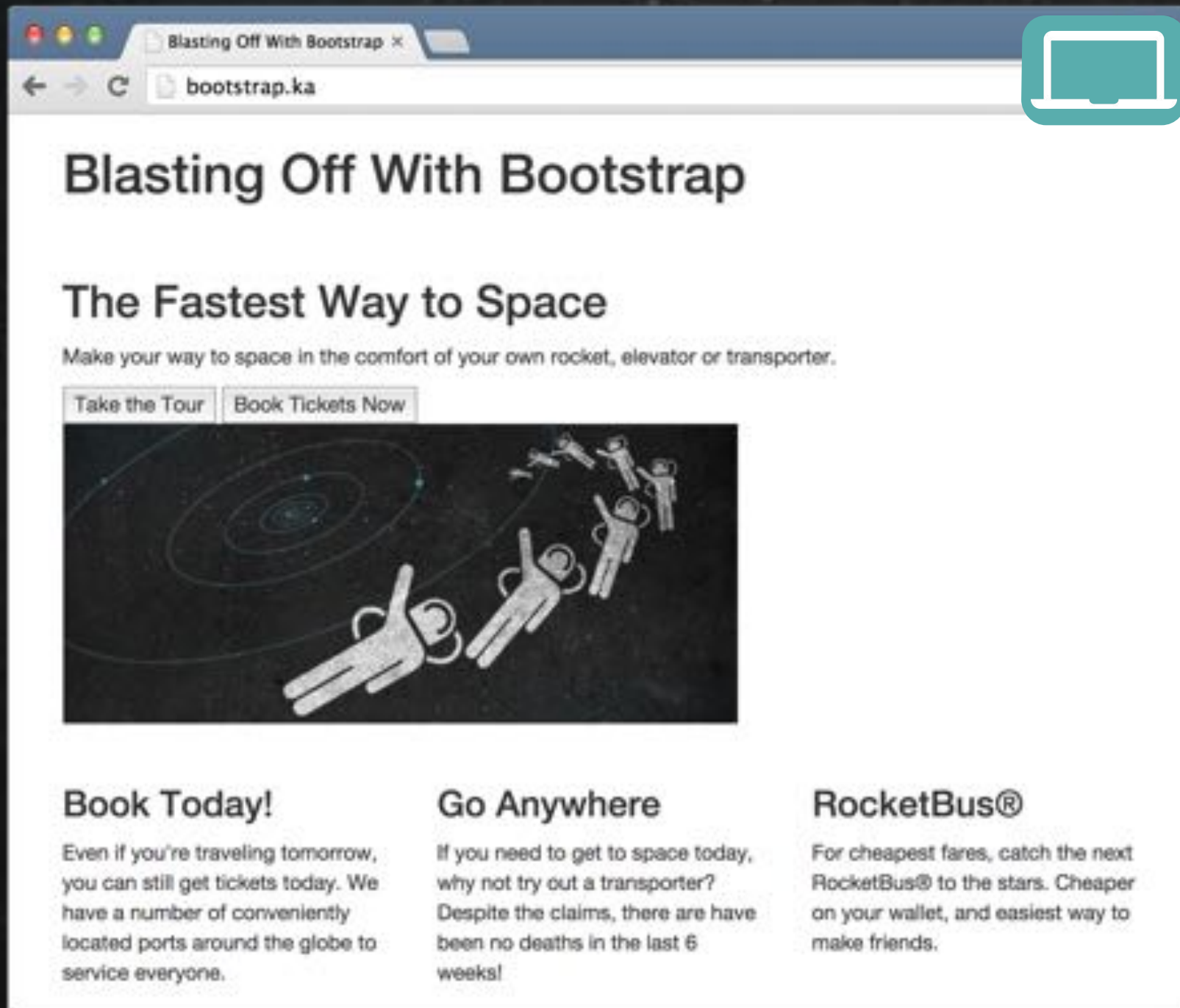
index.html

```
<div class='row'>
  <div class='col-sm-4 col-xs-10 col-xs-offset-1
    col-sm-offset-0'>
    <h3>Book Today!</h3>
  </div>
  <div class='col-md-3 col-sm-4 col-xs-6'>
    <h3>Go Anywhere</h3>
  </div>
  <div class='col-md-3 col-sm-4 col-xs-6'>
    <h3>RocketBus&reg;</h3>
  </div>
</div>
```

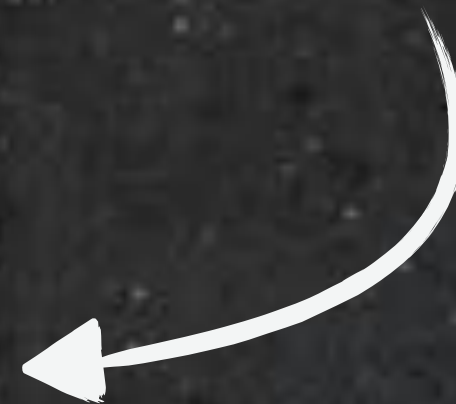
Remove the offset  
in "small" mode  
and above

# Removing Offsets

This will center this column giving it a column of spacing on each side





No offset before the  
first feature except  
in extra small mode



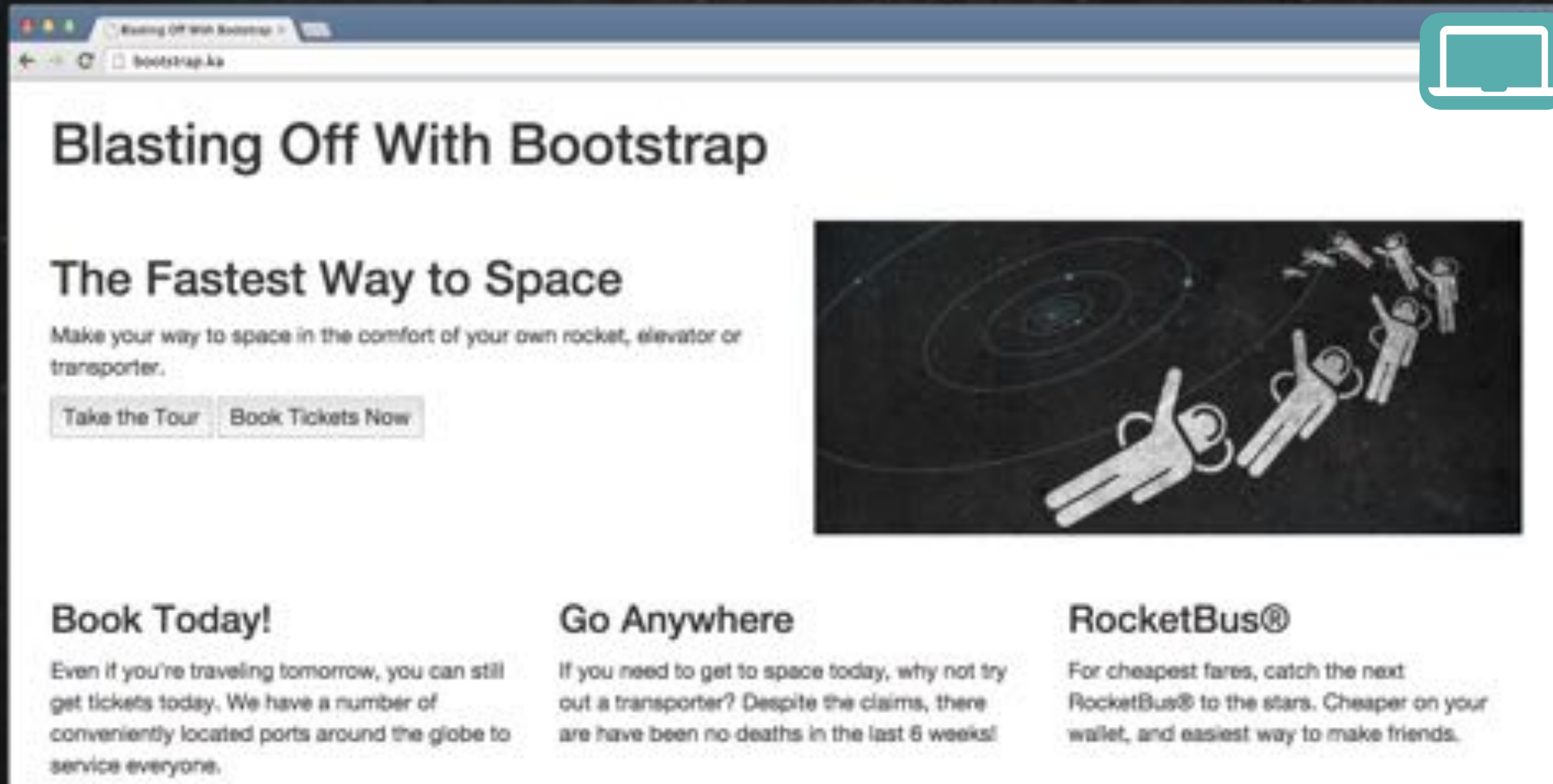
# Very Large Screens

Great for monitors with a lot of space. Not used as often as other grid sizes.

	Grid Size	Grid Class	Offset Class	Screen Size
	Extra Small	.col-xs-*	.col-xs-offset-*	0px+
	Small	.col-sm-*	.col-sm-offset-*	768px+
	Medium	.col-md-*	.col-md-offset-*	992px+
	Large	.col-lg-*	.col-lg-offset-*	1200px+



# Hiding Columns



we should only show this image for "medium" and "large" resolutions.

# Hiding Elements using .hidden-\*

We can hide elements in specific screen sizes

Hide this element for small  
and extra small resolutions

index.html

```
<div class='row'>
  <div class='col-md-6'>...</div>
  <div class='col-md-6 hidden-sm hidden-xs'>
    <img src='images/blast.png' alt='Blasting Off' />
  </div>
</div>
```

HTML

.hidden-xs

.hidden-md

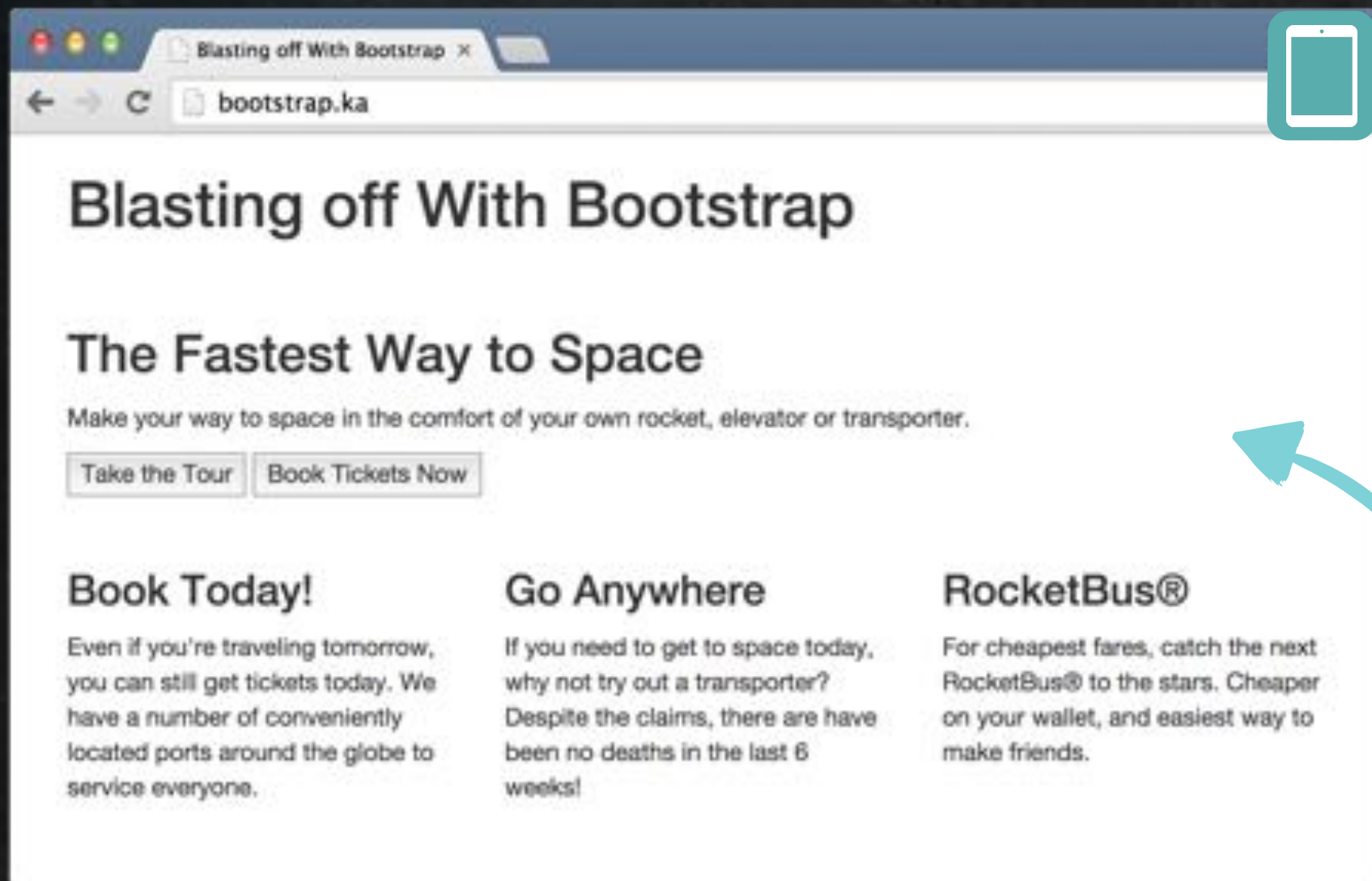
.hidden-sm

.hidden-lg

You can hide elements in  
other screen sizes too



# Hiding Elements using .hidden-\*



The image is hidden for small and extra small resolutions



# Making Elements Visible using .visible-\*

We can specify a screen size for elements to be visible

only show this element in  
medium and large resolutions

index.html

```
<div class='row'>
  <div class='col-md-6'>...</div>
  <div class='col-md-6 visible-md visible-lg'>
    <img src='images/blast.png' alt='Blasting Off' />
  </div>
</div>
```



.visible-xs

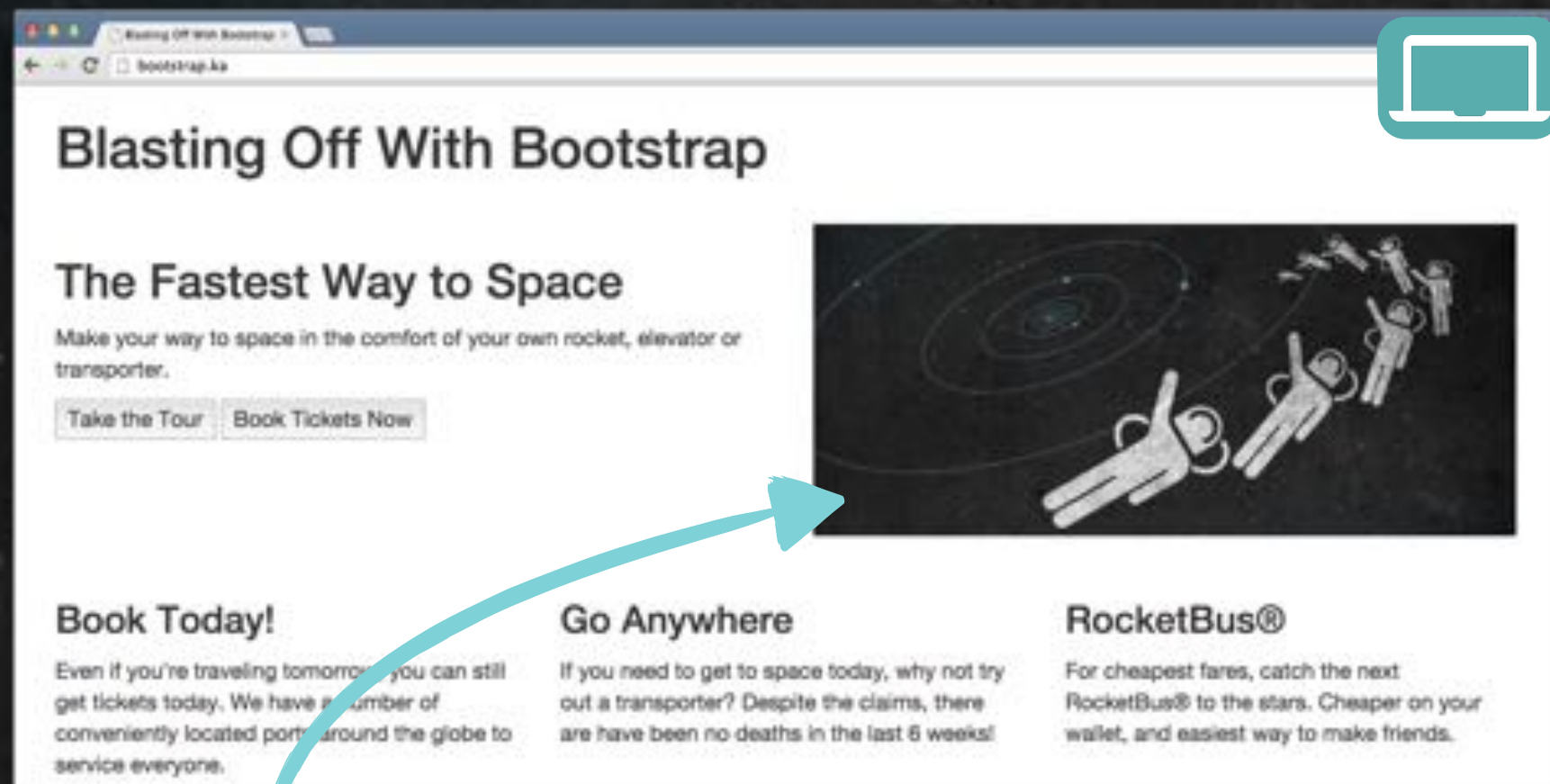
.visible-md

.visible-sm

.visible-lg

You can specify other  
screen sizes too

# Making Elements Visible using `.visible-*`



The element is visible in "medium" and "large" resolutions, but nothing else.





---

# Blasting Off

with Bootstrap





# Typography

# Level 3

# What is Typography?

“The art and technique of arranging type to make written language most appealing” - Wikipedia



Bootstrap has existing styles that changed our font.

bootstrap.css

```
body {  
  font-family: "Helvetica Neue",  
               Helvetica, Arial, sans-serif;  
  font-size: 14px;  
  line-height: 1.42857143;  
  color: #333;  
  background-color: #fff;  
}
```

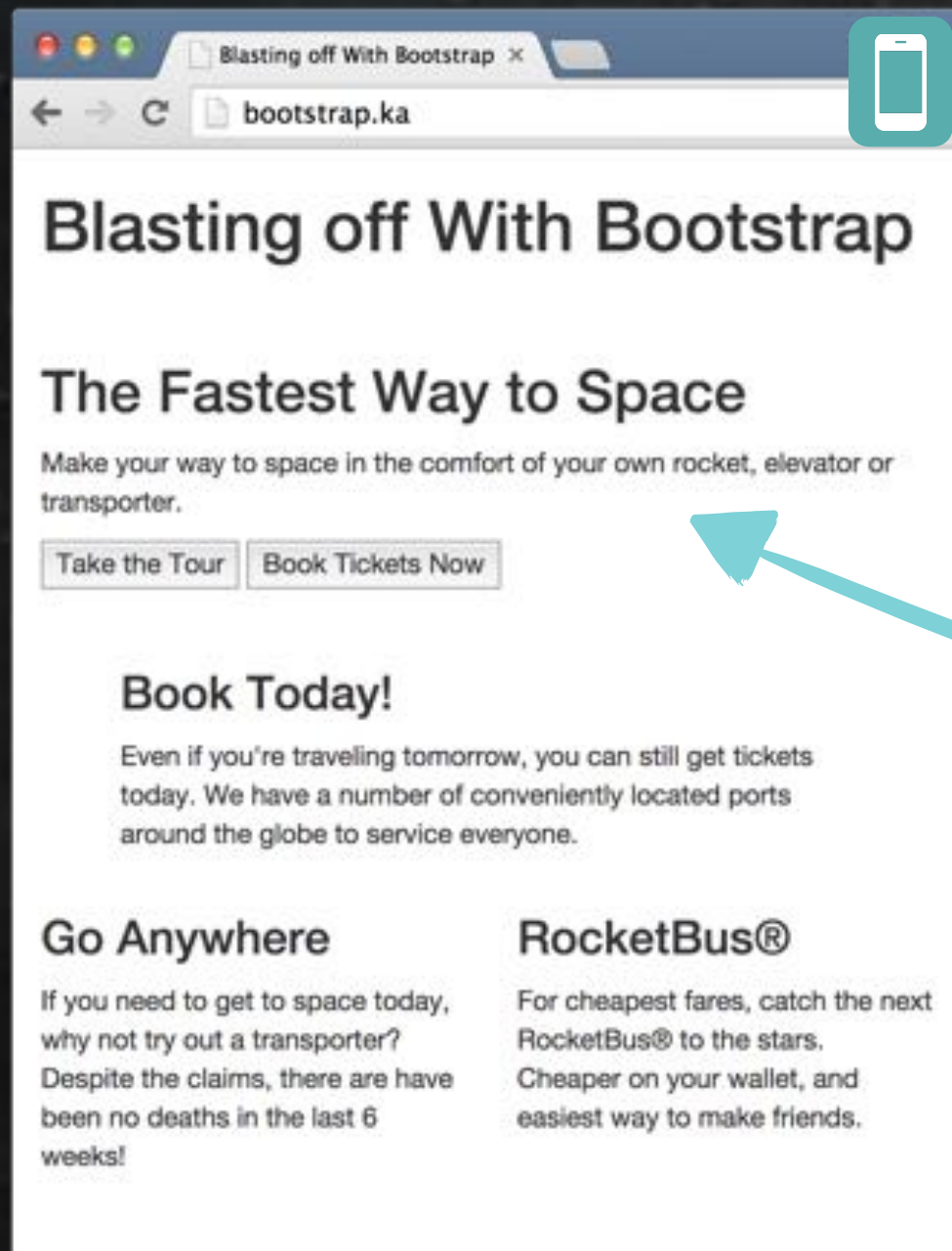
Dark grey  
font color





# Manual Typography for the Lead

Using Bootstraps manual typography to improve your page



How can we make our lead text stand out more?



# Using the .lead Typography Class

---

The lead of the page  
should stand out



index.html

```
<div class='row'>
  <div class='col-md-6'>
    <h2>The Fastest Way to Space</h2>
    <p class='lead'>Make your way to space...</p>
  </div> ...
</div>
```

.lead



Adds importance, margin  
and more for emphasis

# Comparing Our Lead


---

Use `.lead` to make text stand out from the rest of the page.

No `.lead`

Make your way to space in the comfort of your own rocket, elevator or transporter.

Not a huge change,  
but the text stands out!



Using `.lead`

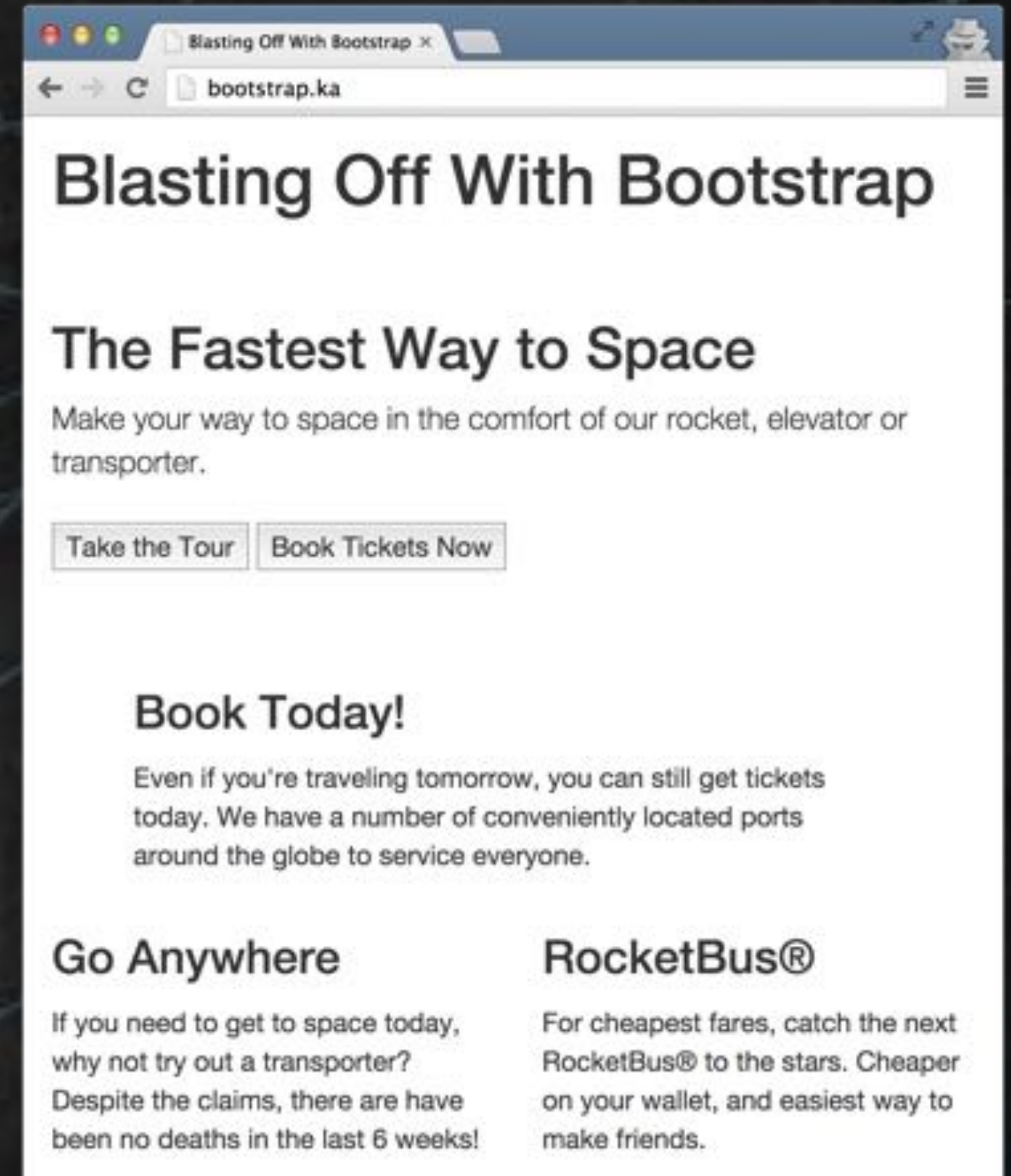
Make your way to space in the comfort of your own rocket, elevator or transporter.



# Centering Text

Bootstrap has a number of alignment classes for text.

Let's center the text  
of our featured items.





# Using the .text-\* Typography Classes

index.html

All text in this row  
will be centered

```
<div class='row text-center'>
  <div class='...'>
    <h3>Book Today!</h3>
    <p>Even if you're traveling tomorrow...</p>
  </div>
  ...
</div>
```

.text-justify

.text-right

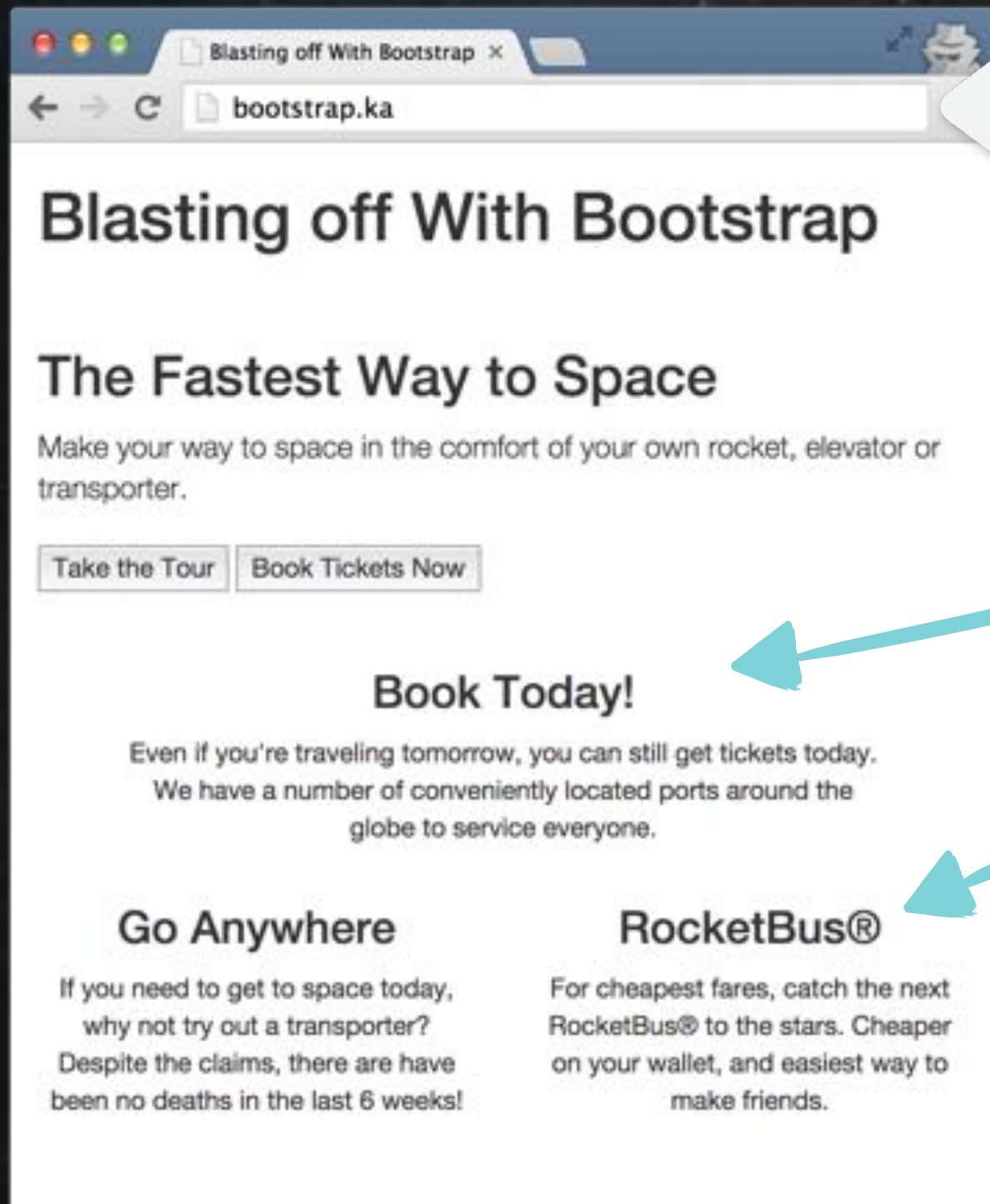
.text-center

.text-nowrap

.text-left

Bootstrap has similar classes  
for different alignments

# Centering Our Features



All text in the row  
is now centered

How cool would it be to  
show icons for our  
featured topics?



# Glyphicons

Bootstrap comes with 200 icons to use, named “glyphicons”.

 dist

 CSS

 fonts

 glyphs-halflings-regular.eot

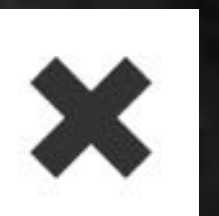
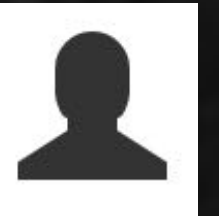
 glyphs-halflings-regular.svg

 glyphs-halflings-regular.ttf

 glyphs-halflings-regular.woff

 js

Remember these files? They  
contain 200 icons!



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

# Using Glyphicons

Icon classes should only be used on elements that contain no text content and have no child elements.

index.html

```
<div class='...'>  
  <i class='glyphicon'></i>  
  <h3>Book Today!</h3>  
  <p>Even if you're traveling...</p>  
</div>
```

Instead of using an `<img>`,  
we'll use an `<i>` for our icon

By itself adding the `.glyphicon`  
class won't show anything. We'll  
need to specify which icon to use.



`i.glyphicon 0px x 0px`



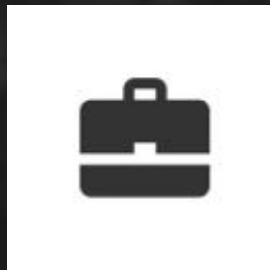
# Adding an Icon

Pick out an icon to use. In this case we'll use the briefcase icon.

index.html

```
<div class='...'>  
  <i class='glyphicon glyphicon-briefcase'></i>  
  <h3>Book Today!</h3>  
  <p>Even if you're traveling...</p>  
</div>
```

The `.glyphicon` class specifies we should use the provided icon font.

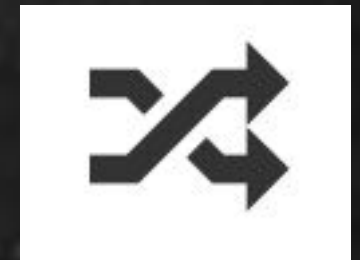


The `.glyphicon-briefcase` class specifies which icon we should use.

# Adding Icons for Other Features

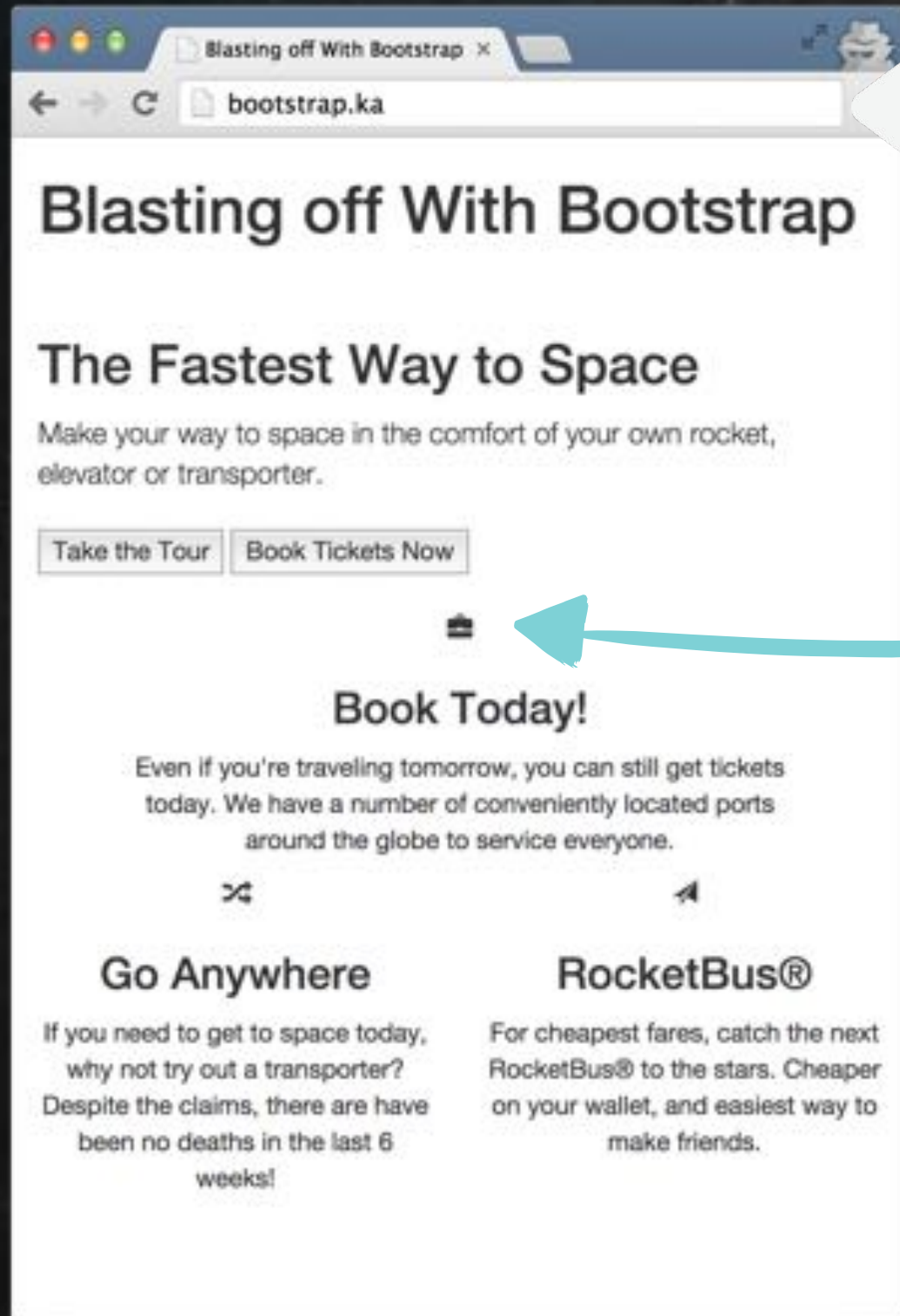
index.html

```
<div class='...'>
  <i class='glyphicon glyphicon-briefcase'></i>
  <h3>Book Today!</h3>
</div>
<div class='...'>
  <i class='glyphicon glyphicon-random'></i>
  <h3>Go Anywhere</h3>
</div>
<div class='...'>
  <i class='glyphicon glyphicon-send'></i>
  <h3>RocketBus<reg></h3>
</div>
```





# Our Icons Look a Little Small



why do our icons  
look so small?

bootstrap.css

```
body {  
  font-size: 14px;  
  ...  
}
```

Remember how Bootstrap set  
our font-size? we need to  
bump this up for these icons.

# Adding a Stylesheet

---

For styling beyond what Bootstrap offers, we'll need to create a new css file to edit.

index.html

```
<!DOCTYPE html>
<html lang='en'>
  <head>
    <link href='css/bootstrap.css' rel='stylesheet'>
    <link href='css/main.css' rel='stylesheet'>
  </head>
  <body>
    ...
  </body>
</html>
```



we'll set all our styles in the  
main.css Stylesheet file.

# Increasing the Icon Font Size

index.html

```
<div class='row features'>  
  <div class='...'>  
    <i class='glyphicon glyphicon-briefcase'></i>  
    <h3 class='text-center'>Book Today!</h3>  
  </div>  
  ...  
</div>
```

We want to  
style all icons  
under .features

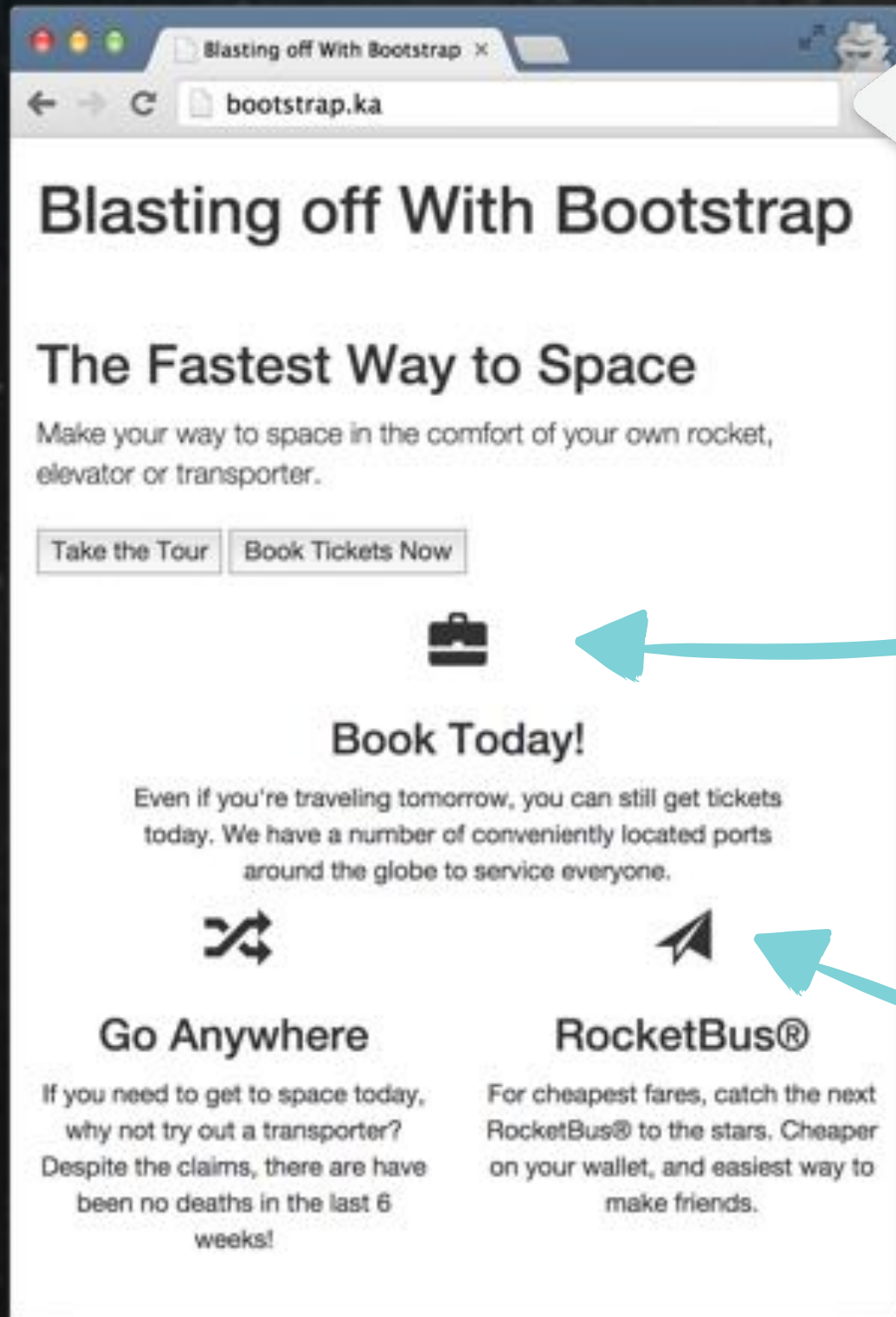
css/main.css

```
.features .glyphicon {  
  font-size: 32px;  
}
```

All icons under .features will be larger



# Larger Icons



our icons are now 32px!

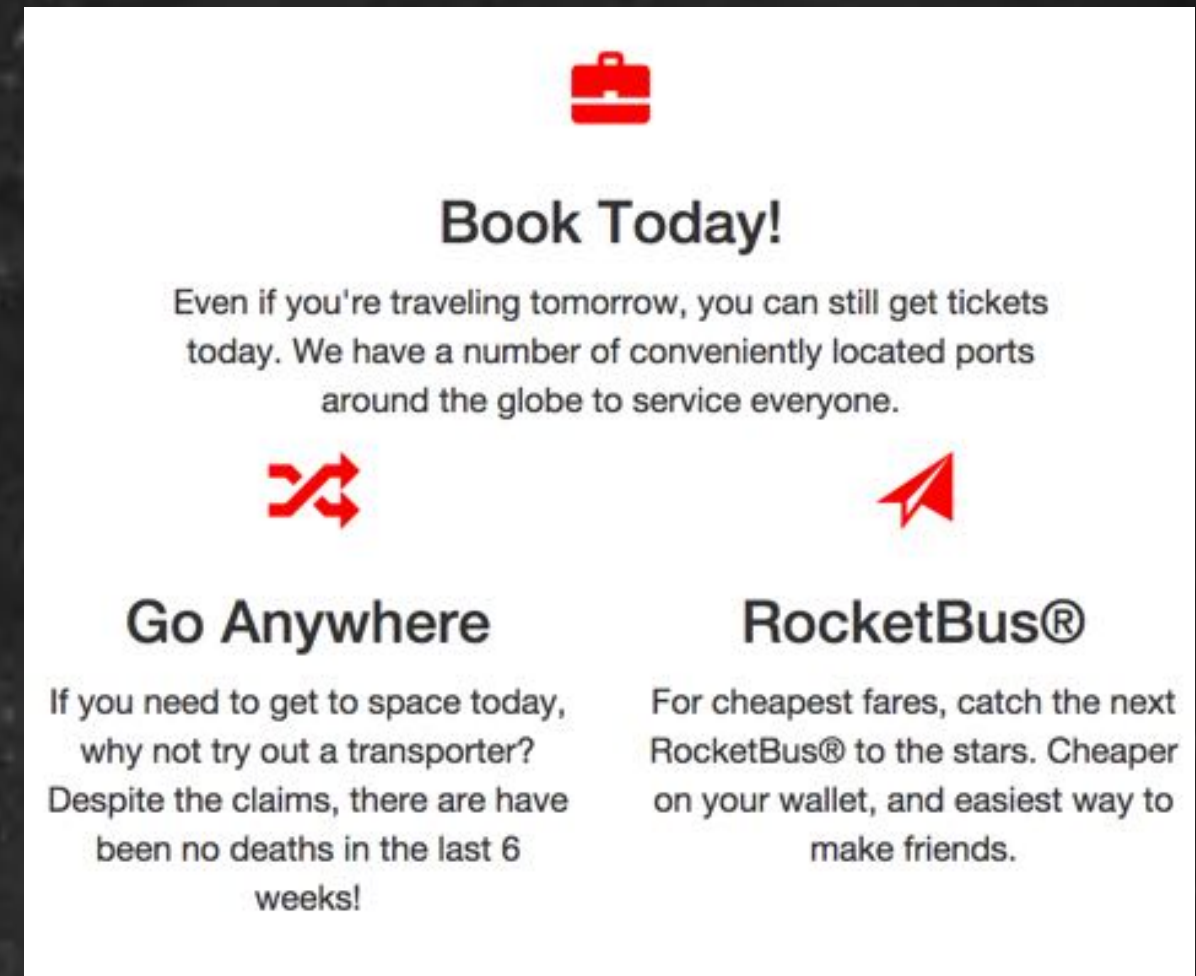
Since these are a font, we can adjust them the same way

# Changing the Icon Color

css/main.css

```
.features .glyphicon {  
  font-size: 32px;  
  color: red;  
}
```

We can style the icons as  
though they were text!



We're going to keep our icons  
black, but good to know!



# Cleaning up our Footer

Bootstrap provides some classes to make working with lists easier.



Here's the footer we want to fix.

Let's see about removing these ugly bullets.



# Our Footer Code So Far

index.html

```
<div class='...'>  
  <h4>Links</h4>  
  <ul>  
    <li><a href='index.html'>Home</a></li>  
    <li><a href='tickets.html'>Tickets</a></li>  
    <li><a href='stations.html'>Stations</a></li>  
  </ul>  
</div>
```

Here's the links we created.

We need to change the  
list-style of the <ul>

## Links

- Home
- Tickets
- Stations

# Unstyled Lists

index.html

```
<div class='...'>  
  <h4>Links</h4>  
  <ul class='list-unstyled'>  
    <li><a href='index.html'>Home</a></li>  
    <li><a href='tickets.html'>Tickets</a></li>  
    <li><a href='stations.html'>Stations</a></li>  
  </ul>  
</div>
```

use a Bootstrap list class  
to remove the bullets

**Links**  
Home  
Tickets  
Stations

`.list-unstyled`

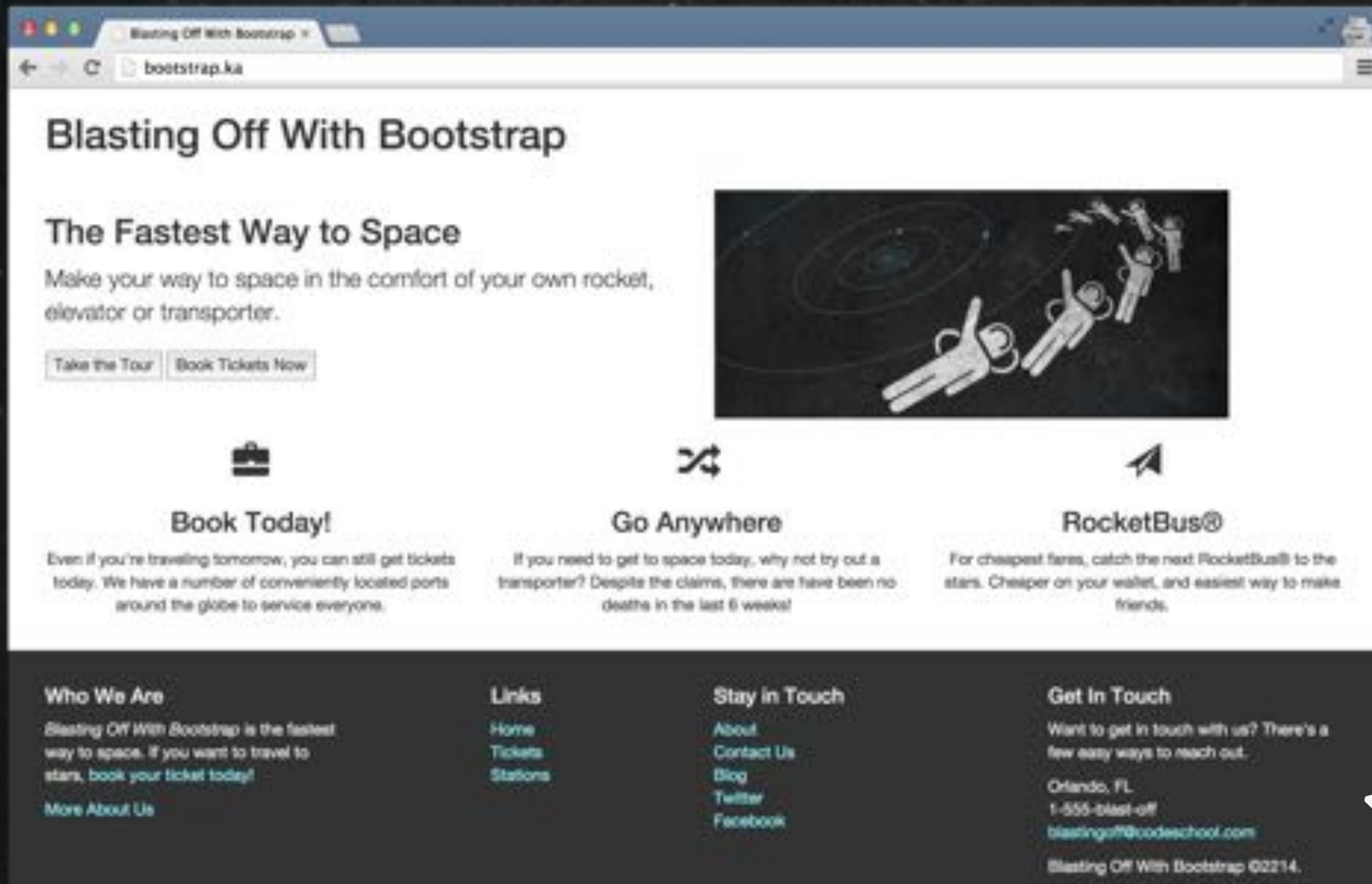
`.list-inline`

use inline for horizontal lists

**Links**

Home Tickets Stations

# Our Finished Footer



our footer looks like it belongs!



# Typography

# Level 3



---

# Blasting Off

with Bootstrap





# Enough CSS to be Dangerous

---

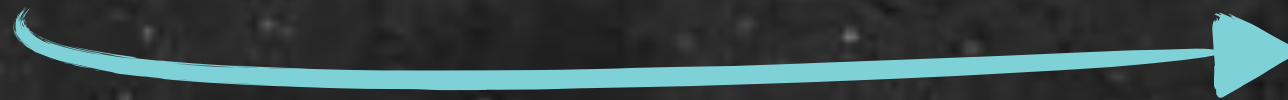
Level 4, Section 1



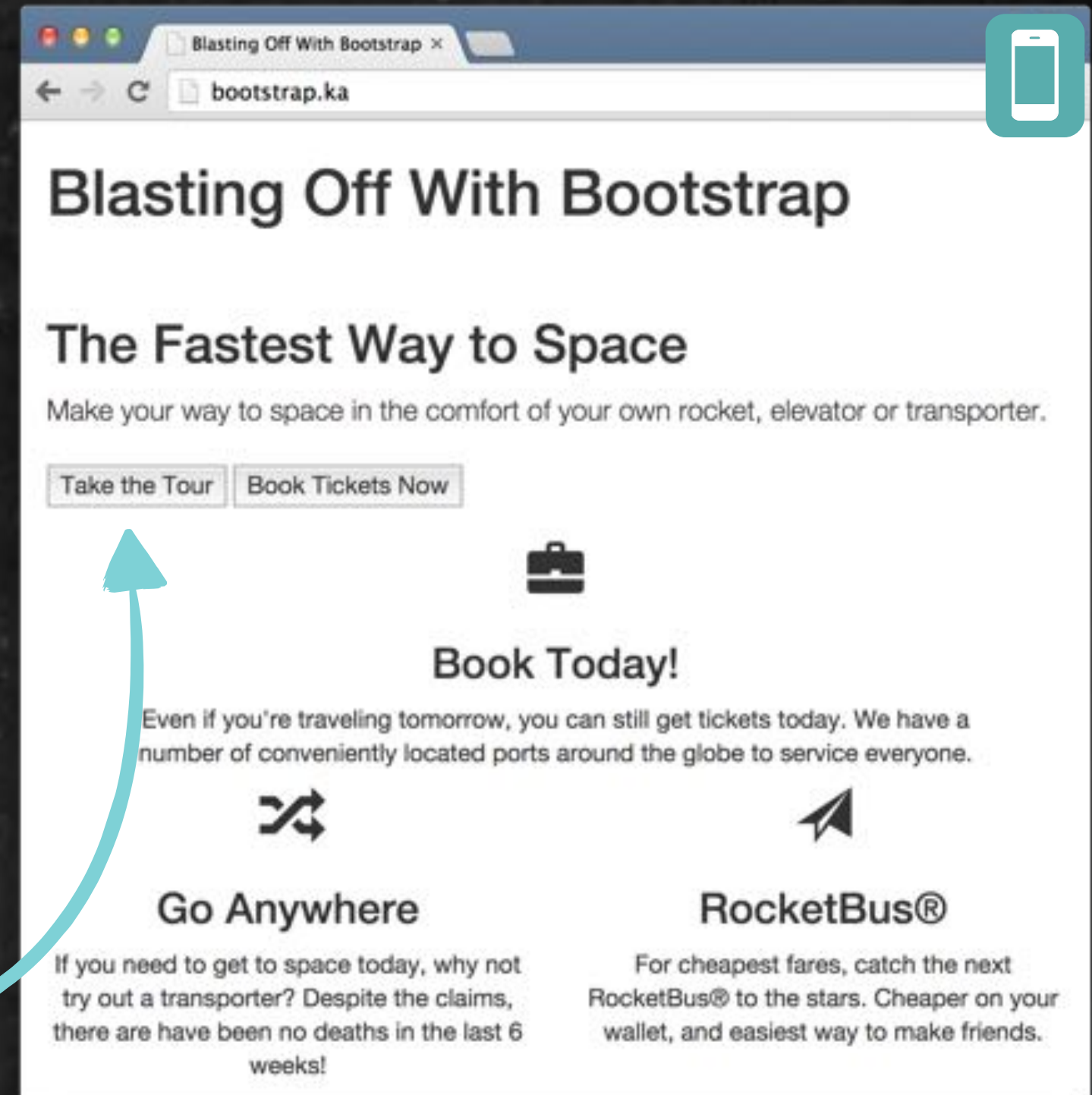
# Adding a Dash of Style

What can we do to make our lead area stand out more?

This whole section seems like it could stand out more



These buttons are a bit plain too. can we we make them a bit more dramatic?



# Another Look at Our Lead

---

Here's our lead row we want to give prominence to.

index.html

```
<div class='row'>
  <div class='col-md-6'>
    <h2>The Fastest Way to Space</h2>
    <p class='lead'>Make your way to space...</p>
    <button type='button'>Take the Tour</button>
    <button type='button'>Book Tickets Now</button>
  </div> ...
</div>
```

# That Went .well

Use the `.well` class to give the element a gray background and a rounded gray border.

index.html

```
<div class='row well'>  
  <div class='col-md-6'>  
    <h2>The Fastest Way to Space</h2>  
    <p class='lead'>Make your way to space...</p>  
    <button type='button'>Take the Tour</button>  
    <button type='button'>Book Tickets Now</button>  
  </div> ...  
</div>
```

*.well gives a simple inset effect*

## The Fastest Way to Space

Make your way to space in the comfort of your own rocket, elevator or transporter.

Take the Tour

Book Tickets Now



# Adding More Spacing

index.html

```
<div class='row well well-lg'>  
  <div class='col-md-6'>  
    <h2>The Fastest Way to Space</h2>  
    <p class='lead'>Make your way to space...</p>  
    <button type='button'>Take the Tour</button>  
    <button type='button'>Book Tickets Now</button>  
  </div>  
  <div class='col-md-6'>...</div>  
</div>
```

Adds more padding to the well

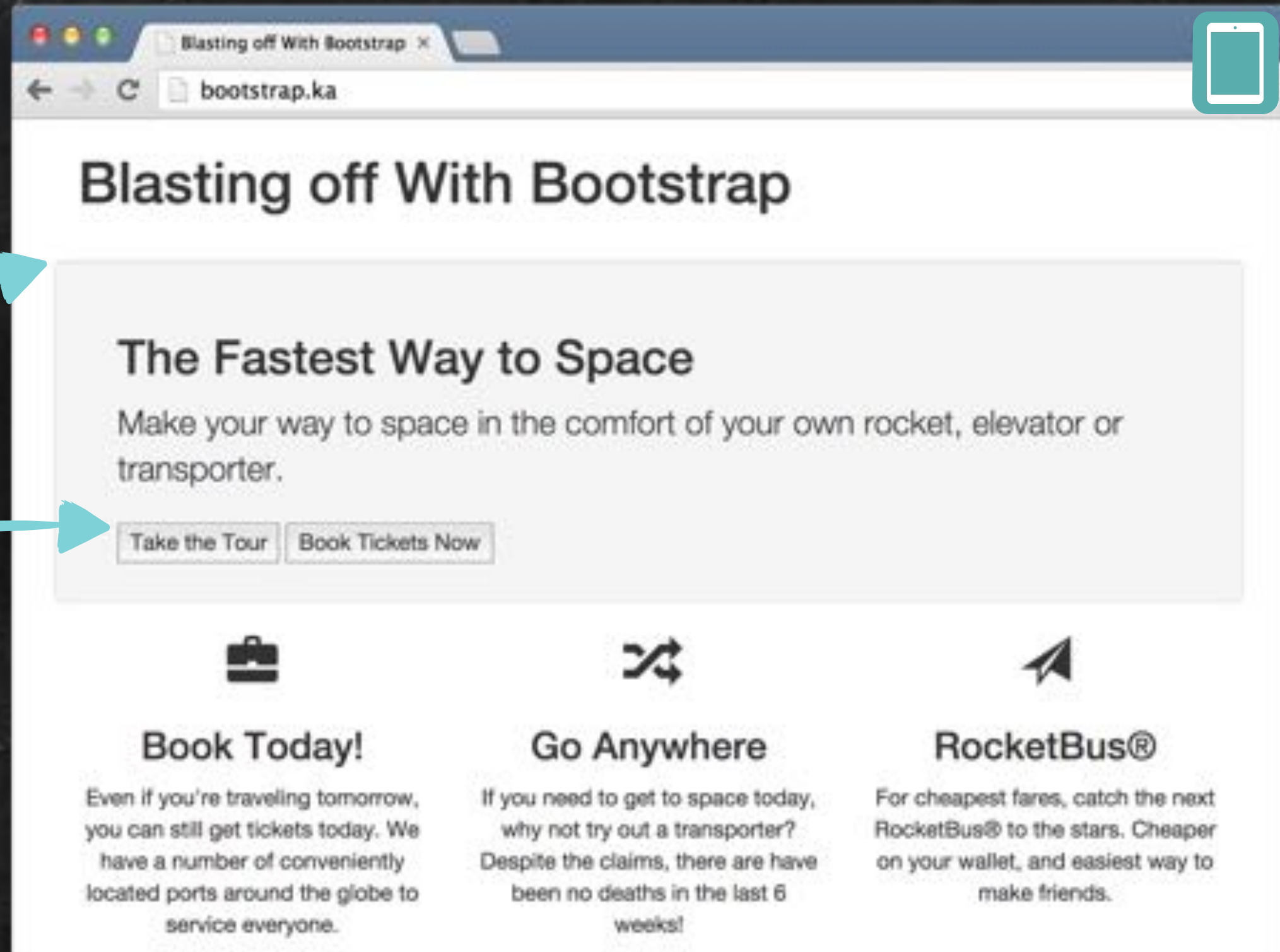
.well-lg

.well-sm

Add or remove some padding from your well by adding another class

# Well Preview

Adds a rounded border  
and inset effect



Let's style these  
buttons next!

# Styling Our Buttons

Our buttons look different in every browser. Let's use Bootstrap to standardize them.

index.html

```
<button type='button'>Take the Tour</button>  
<button type='button'>Book Tickets Now</button>
```

Add a Bootstrap class to tweak the style

```
<button type='button' class='btn'>Take the Tour</button>  
<button type='button' class='btn'>Book Tickets Now</button>
```

Getting there, but could be better

Take the Tour

Book Tickets Now



# Making Our Buttons Larger

We can change the size of buttons by adding another class.

```
<button type='button' class='btn btn-lg'>...</button>  
<button type='button' class='btn btn-lg'>...</button>
```

Similar to `.glyphicon`, we'll  
use `.btn` and other button classes

`.btn-xs`

`.btn-sm`

`.btn-lg`

Hey, these remind me of grid sizes!

`btn-xs`

`btn-sm`

`btn-lg`

# Changing Button Color

We can change the background and text color of buttons by adding another class.

index.html

```
<button type='button' class='btn btn-lg btn-default'>  
  Take the Tour  
</button>  
<button type='button' class='btn btn-lg btn-primary'>  
  Book Tickets Now  
</button>
```

our primary call to action stands out!



Take the Tour

Book Tickets Now

# Many Many Colors

index.html

```
<button type='button' class='btn btn-lg btn-default'>...</button>  
<button type='button' class='btn btn-lg btn-primary'>...</button>
```

.btn-default

.btn-primary

.btn-success

.btn-info

.btn-danger

.btn-warning



*A button for every scenario!*

btn-default

btn-primary

btn-success

btn-info

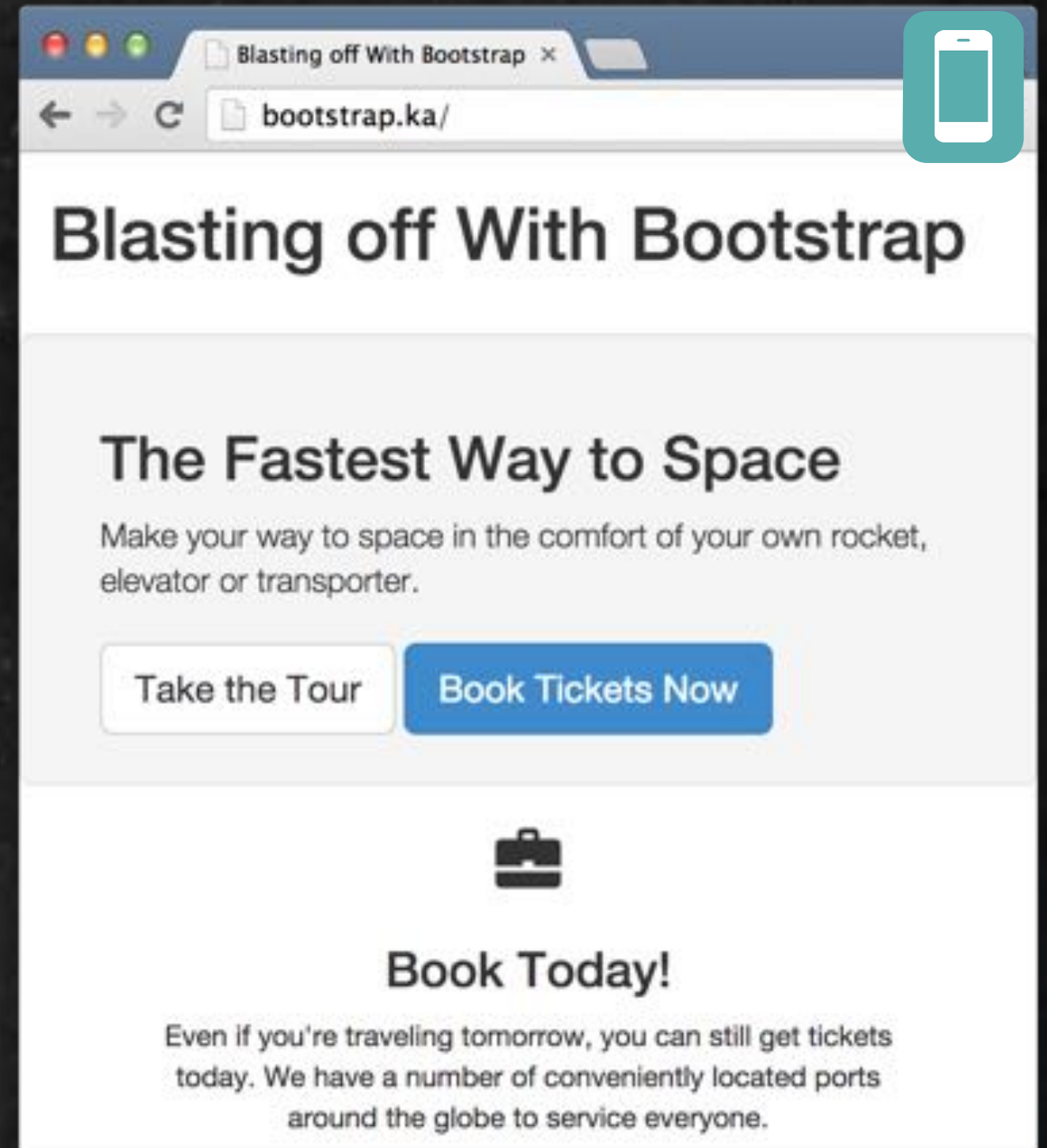
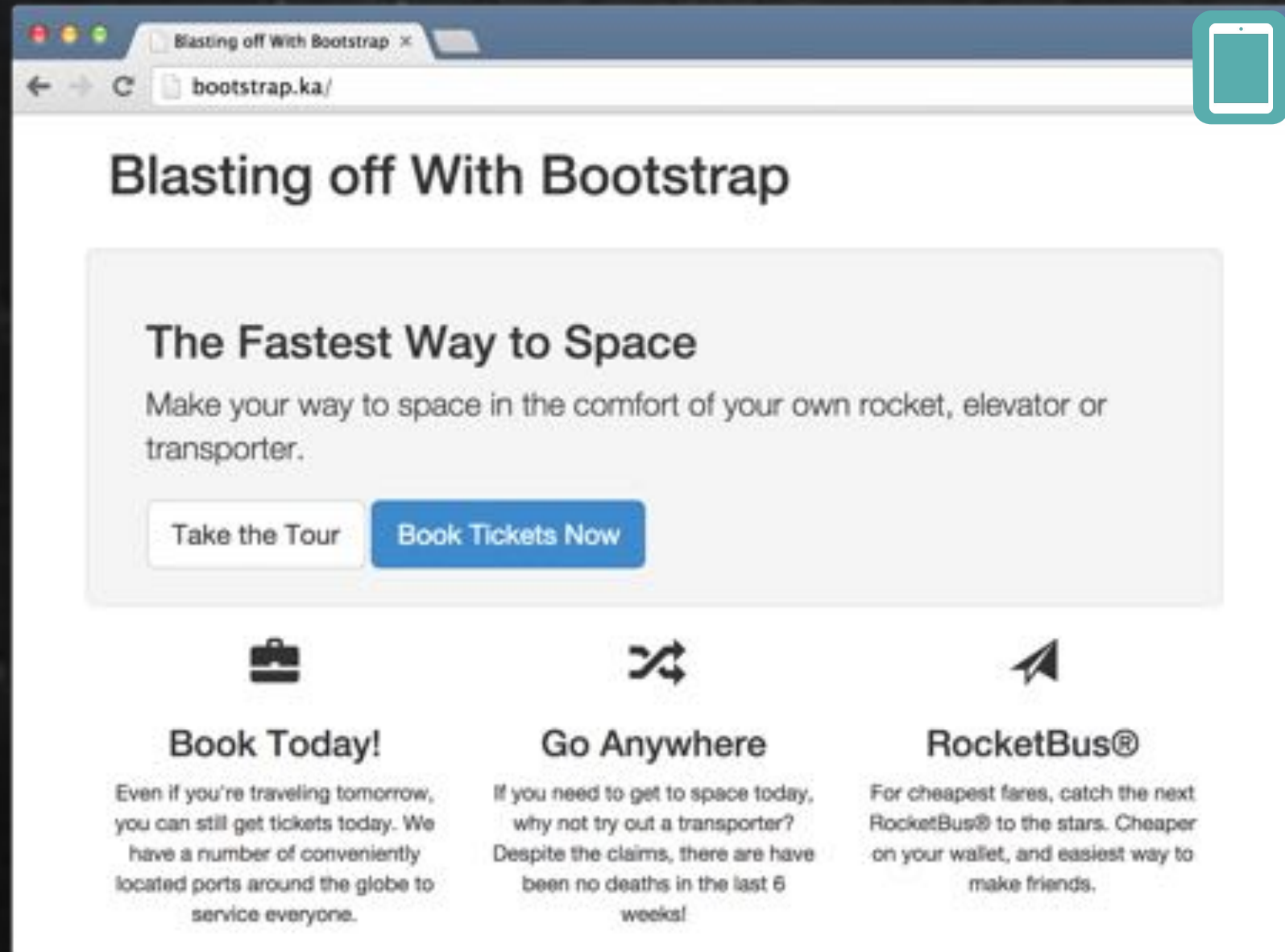
btn-warning

btn-danger



# Buttons and Wells

Looks great in many sizes



# Enough CSS to be Dangerous

---

Level 4, Section 1





---

# Blasting Off

with Bootstrap



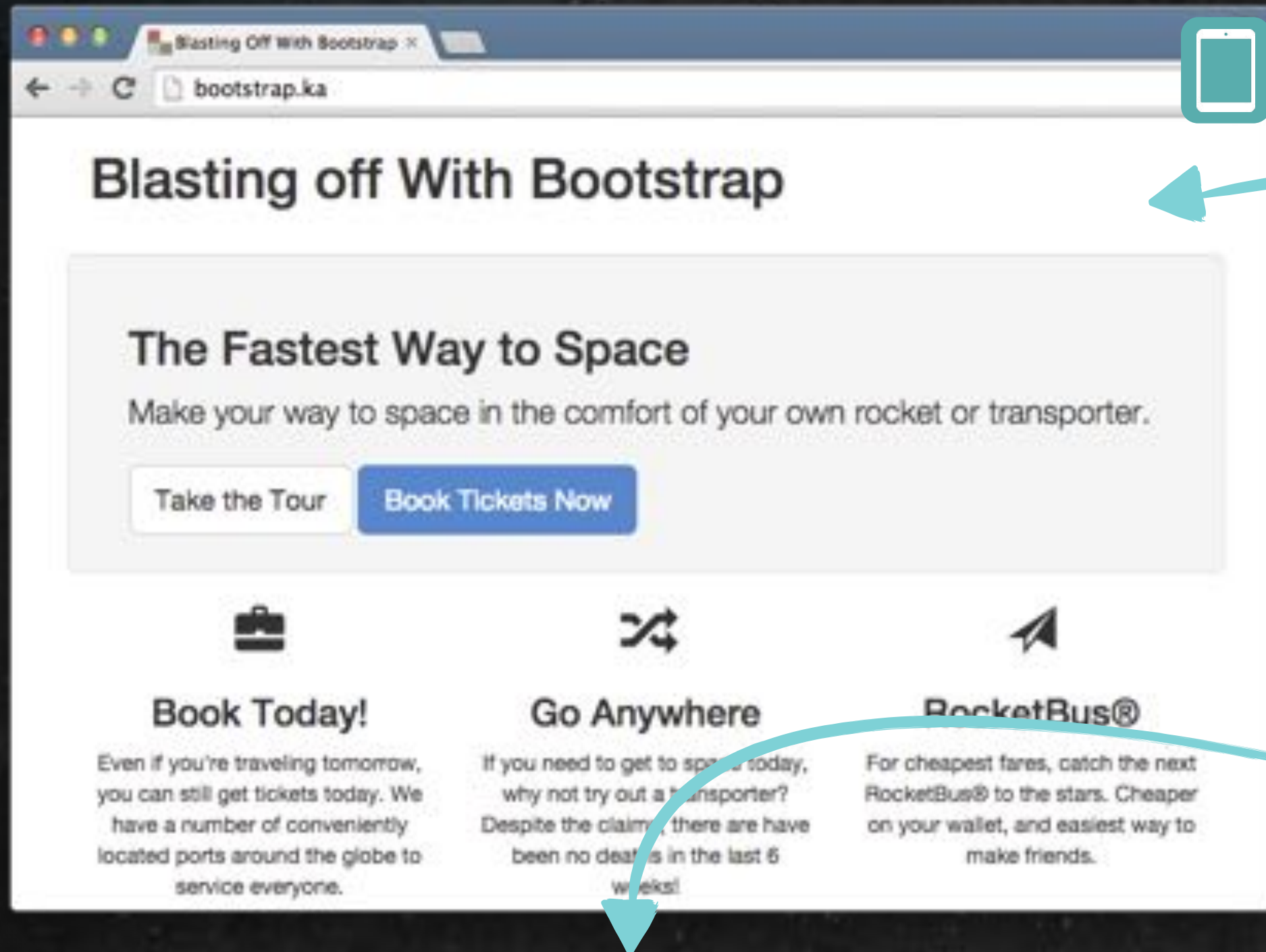


# Navigating Navigation

---

Level 4, Section 2

# We Need Navigation!



We want a way to go from page to page!

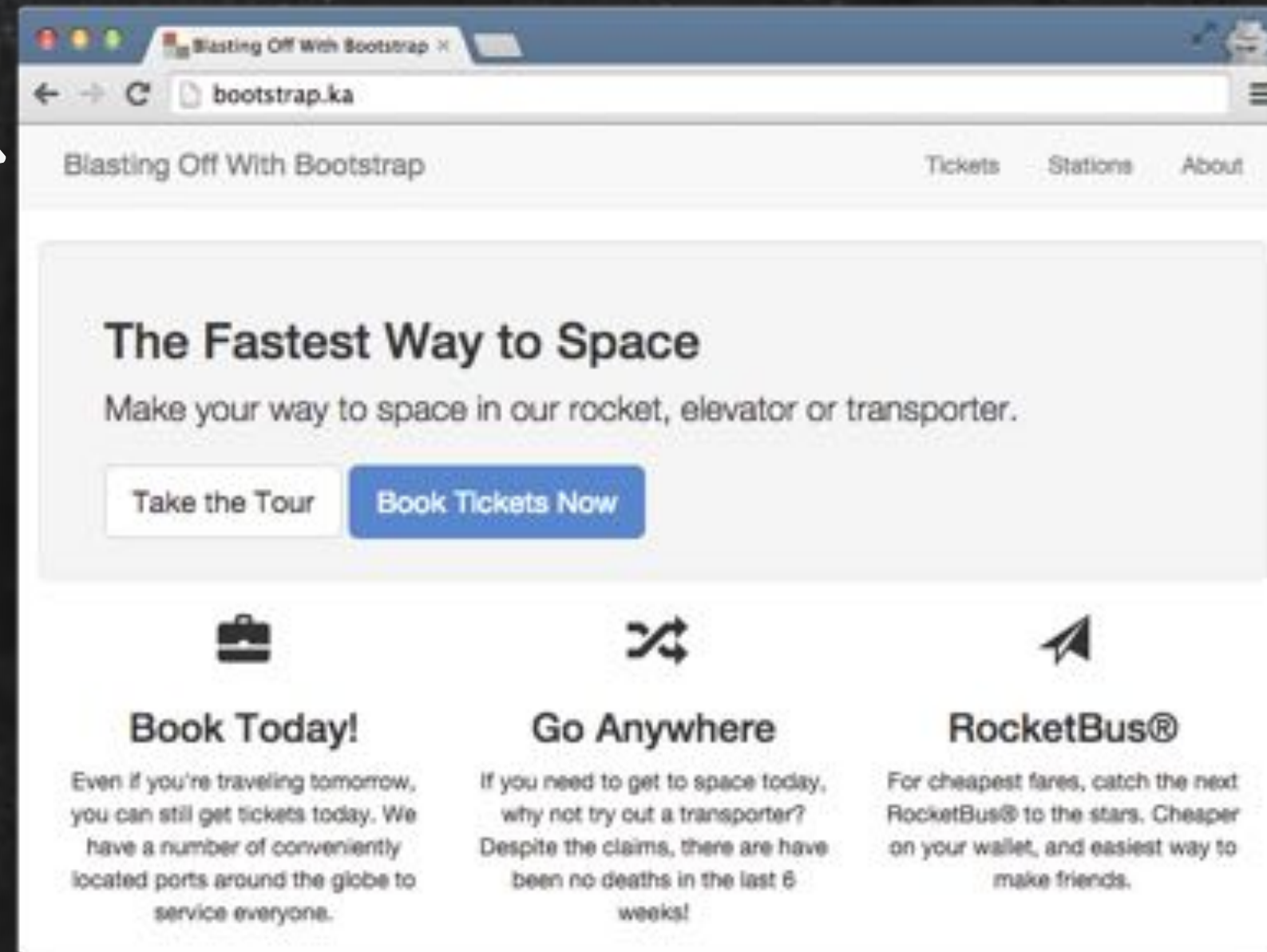
We have links in the footer, but we need a navigation bar as well.



# Our Goal Navigation

We'll be building out our navigation to include a few links and a link to the homepage.

our page title will link back to our homepage



Space for a few important links




# Expanding Our Header

---

We'll be replacing this row with our navigation bar.

Here's our current header

index.html



```
<div class='container'>
  <div class='row'>
    <div class='col-md-12'>
      <h1>Blasting Off With Bootstrap</h1>
    </div>
  </div>
</div>
```


# Removing Grids

Bootstrap's navigation classes don't rely on grids.

our navigation won't be dependent on grids

index.html

```
<div class='container'>
  <div class='row'>
    <div class='col-md-12'>
      <h1>Blasting Off With Bootstrap</h1>
    </div>
  </div>
</div>
```



# Adding Links

We'll start our navigation with some of the links that are already in our footer.

index.html

```
<div class='container'>
  <h1>Blasting Off With Bootstrap</h1>
  <ul>
    <li><a href='tickets.html'>Tickets</a></li>
    <li><a href='stations.html'>Stations</a></li>
    <li><a href='about.html'>About</a></li>
  </ul>
</div>
```

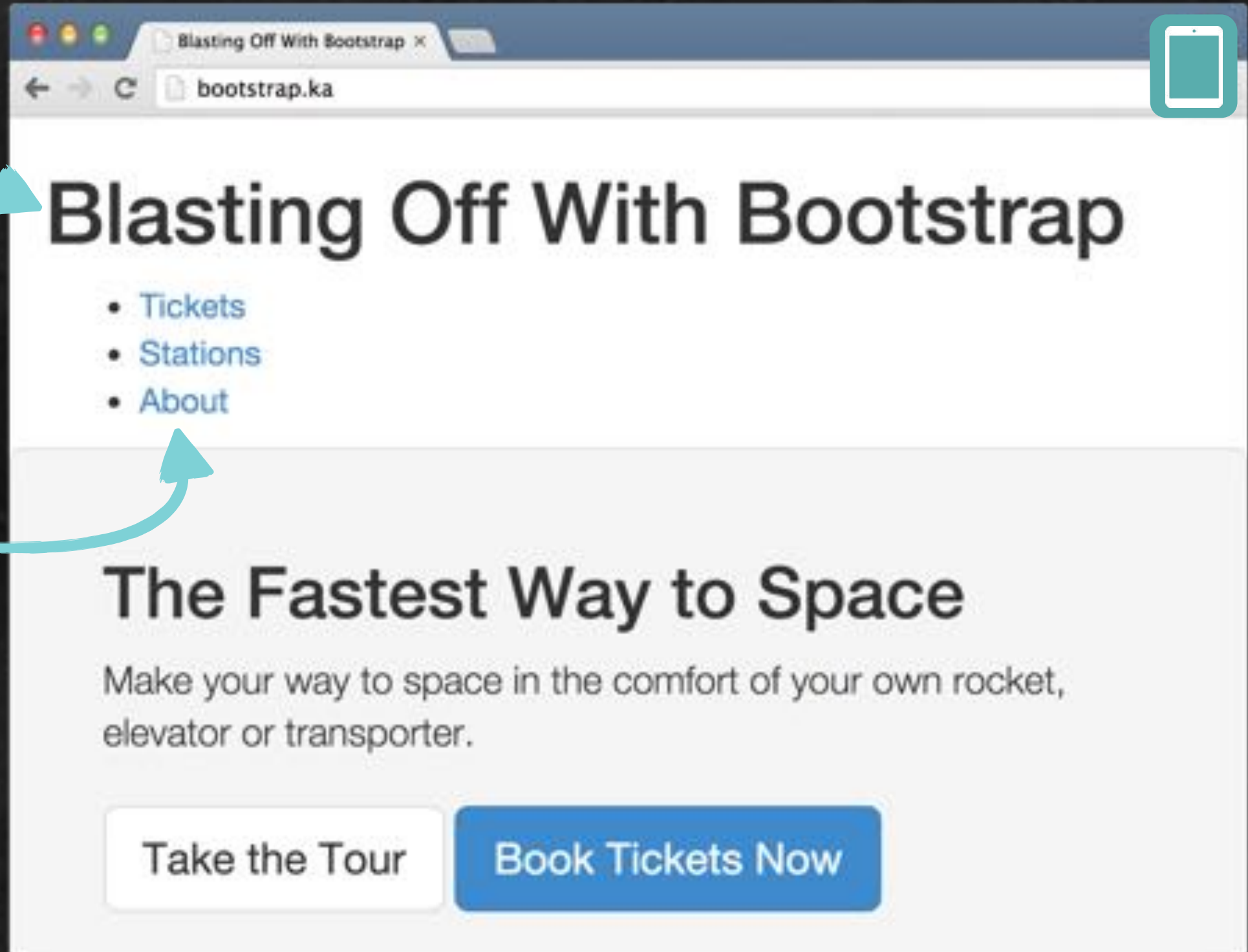
Let's add some links to other pages!



# Not So Styled Nav

Maybe the `<h1>`  
could be a link?

we have a ways  
to go here...




# Converting Our H1

---

We want our site title to link back to our homepage — index.html.

index.html

```
<div class='container'>  
  <h1>  
    Blasting Off With Bootstrap  
  </h1>  
  
  <ul>...</ul>  
</div>
```



This should be a link back to our homepage rather than an h1

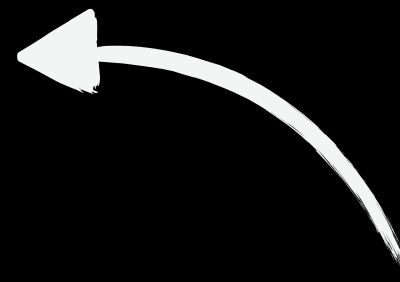
# Using .navbar-brand

The .navbar-brand class will float the text left, increase the font size and more.

index.html

```
<div class='container'>
  <a href='/' class='navbar-brand'>
    Blasting Off With Bootstrap
  </a>

  <ul>...</ul>
</div>
```



our link will be directly next to  
our navigation list.

**Blasting Off With Bootstrap**

- Tickets
- Stations
- About



# Using .nav

index.html

```
<div class='container'>
  <a href='/' class='navbar-brand'>
    Blasting Off With Bootstrap
  </a>
  <ul class='nav'>...</ul>
</div>
```

Adds padding for all of the  
navigation links

.nav is like .glyphicon  
or .btn — it's used with  
other classes.

A screenshot of a Bootstrap navigation bar. The top bar is white with a light blue background. It contains the text "Blasting Off With Bootstrap" in a large, bold, blue font, and "Tickets" in a smaller, blue font to its right. Below this, there is a light blue horizontal bar containing the word "Stations" in a white font. Below that, the word "About" is visible in a blue font.

Blasting Off With Bootstrap Tickets

Stations

About

# .nav Modifiers

The .nav class with modifiers can be used for a main navigation, or a subnav on your page.

```
<ul class='nav nav-pills'>...</ul>
```

Tickets Stations About

```
<ul class='nav nav-tabs'>...</ul>
```

Tickets Stations About

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



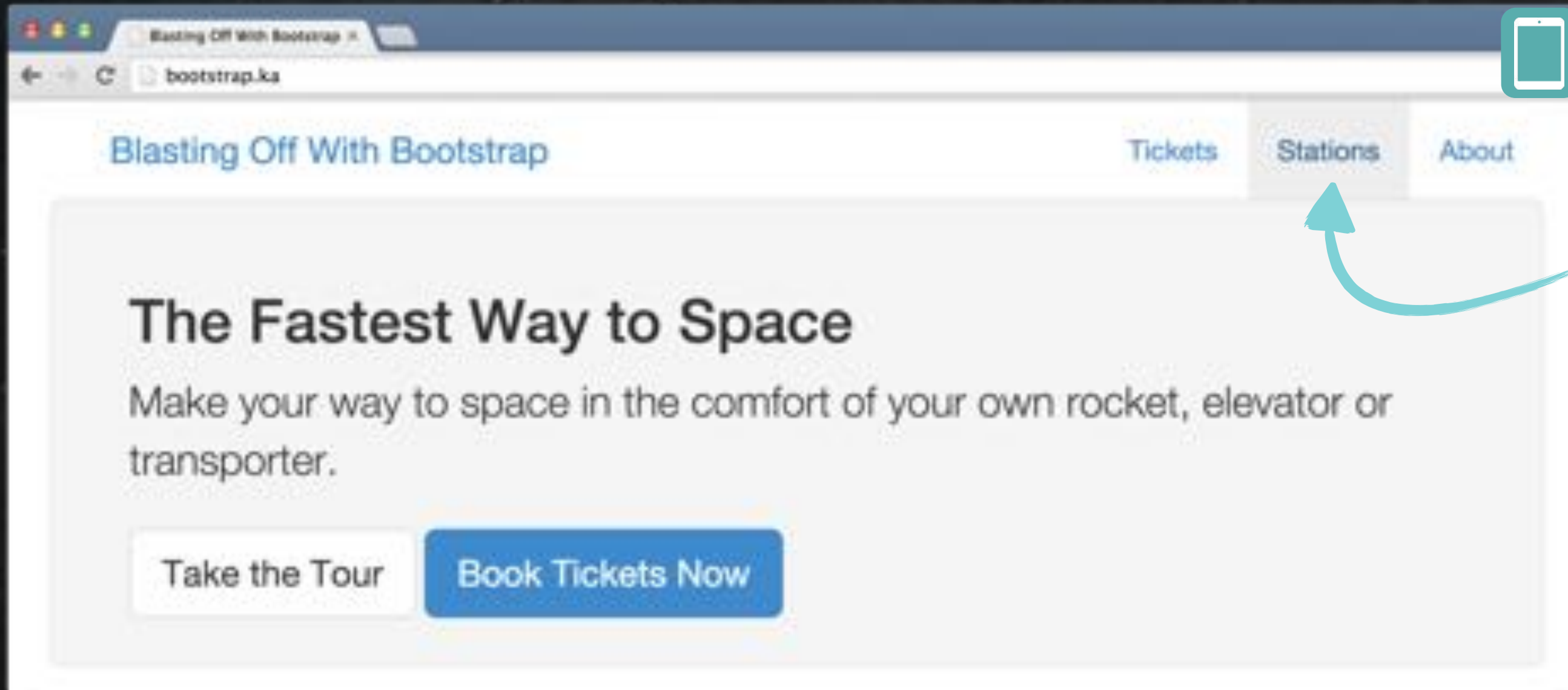
Blasting Off With Bootstrap

Tickets Stations About

our navigation floats to the right,  
and .navbar-nav makes them inline.



# Our Navigation In Progress



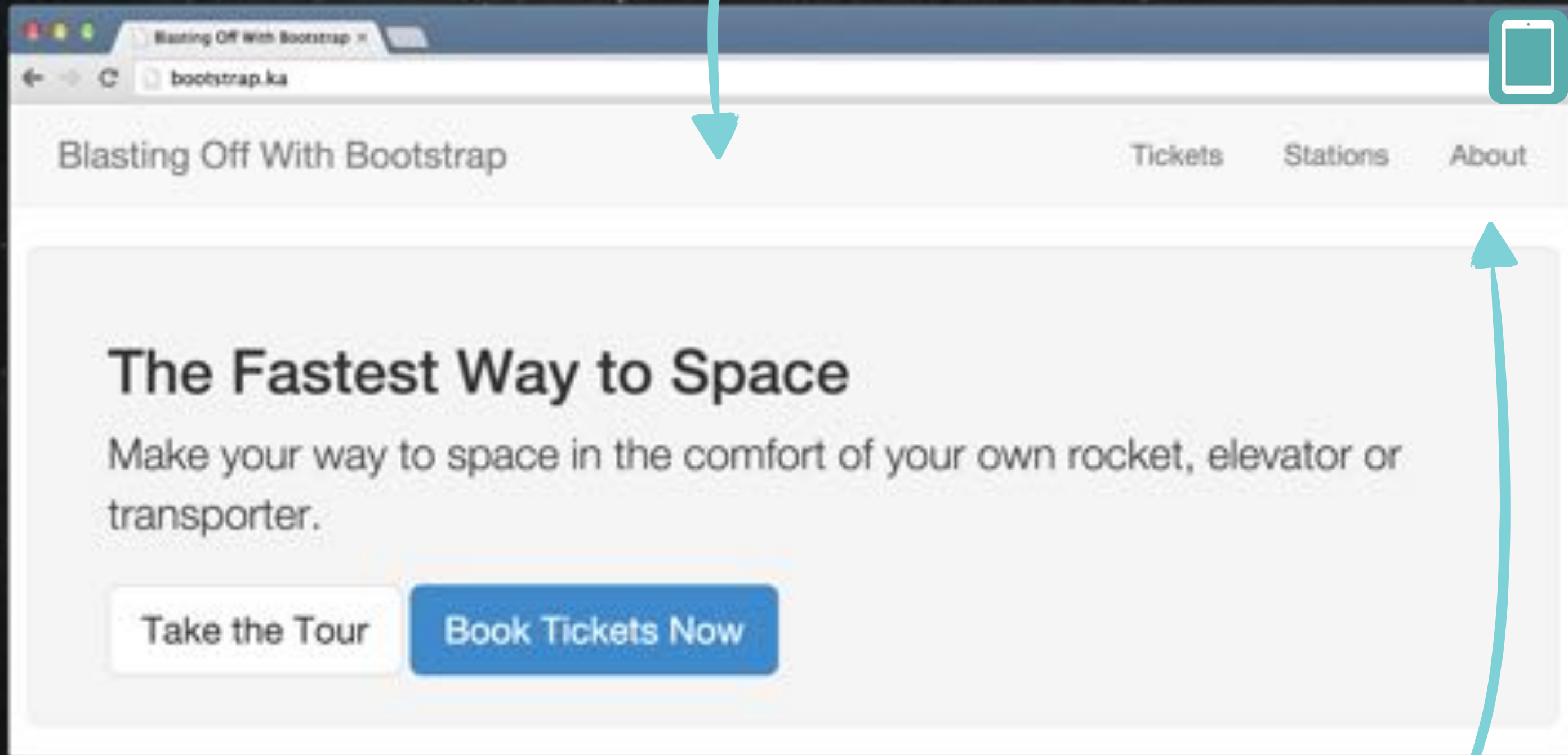
`.navbar-nav`  
adds a hover  
state to our  
links.

our navigation needs some padding.  
what about changing the background color?



# Our Goal Nav

Has a different color background that stretches across the screen



our links will have a special style too!

# Using .navbar

index.html

changes link colors in the header and adds padding.

```
<div class='container navbar navbar-default'>  
  <a href='/' class='navbar-brand'>Blasting Off With Bootstrap</a>  
  
  <ul class='nav navbar-nav navbar-right'>...</ul>  
</div>
```

we'll use .navbar-default for our site.

.navbar-default

Blasting Off With Bootstrap

Tickets

Stations

About

.navbar-inverse

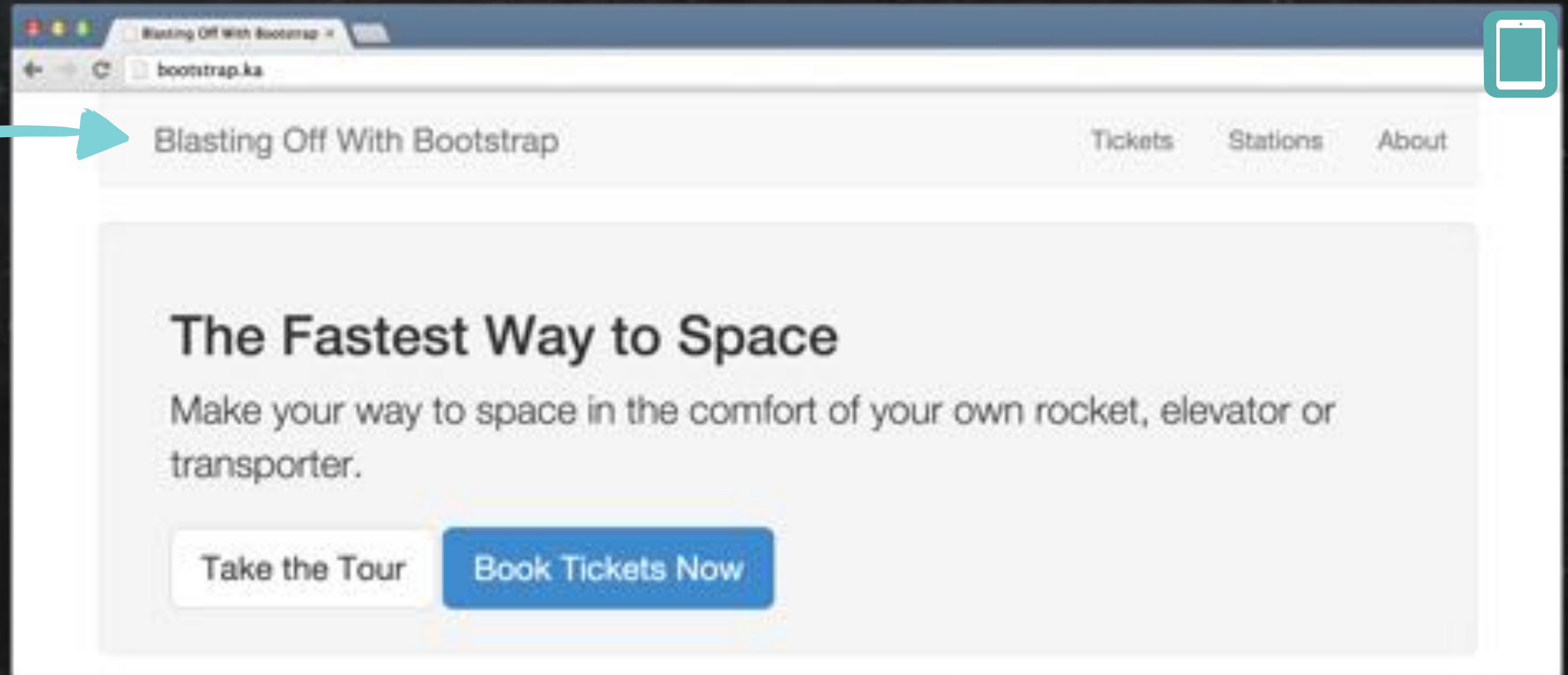
Blasting Off With Bootstrap

Tickets

Stations

About

# Navbar in a container



Looks good,  
but doesn't  
stretch  
across the  
entire screen.

This looks too similar to our  
.well. How can we fix that?



# Setting a Background for our Navigation

Nesting a `.container` within a `.navbar` keeps our links centered, but adds a background to it.

index.html

```
<div class='container navbar navbar-default'>  
  ...  
</div>
```



```
<div class='navbar navbar-default'>  
  <div class='container'>  
    ...  
  </div>  
</div>
```

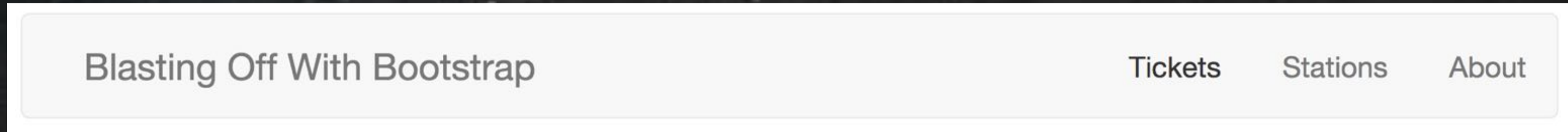


`.navbar-default` adds  
the background color  
across the entire page

`.container` centers the content of our nav

# Positioning our Navigation

The `.navbar` has some modifications available that allow flexibility in navbar position and visibility.



index.html

```
<div class='navbar navbar-default navbar-static-top'>...</div>
```

`.navbar-static-top`

`.navbar-static-bottom`

Navbar will scroll  
with the page.

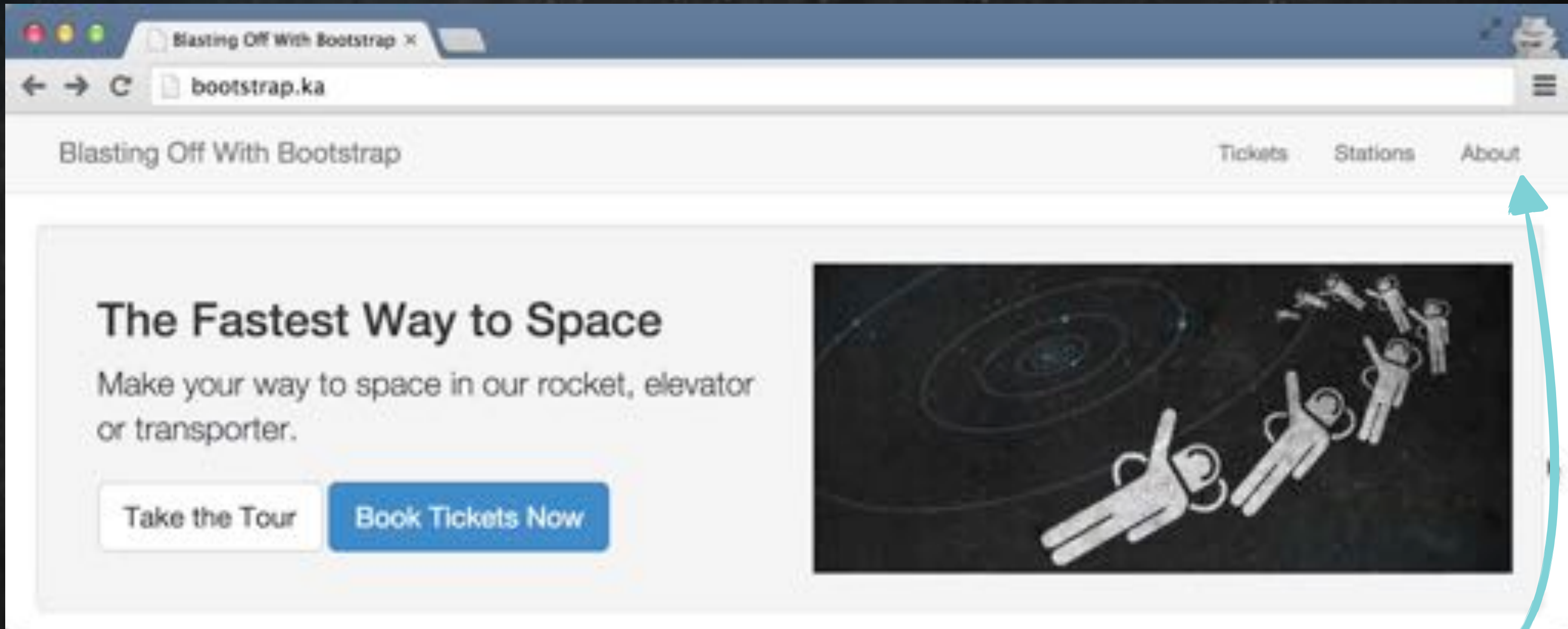
`.navbar-fixed-top`

`.navbar-fixed-bottom`

Fixed navbars don't scroll with  
the page — they stay at the top.

# Our Finished Navigation

By using `.navbar-static-top`, the navigation goes away as we scroll the page.

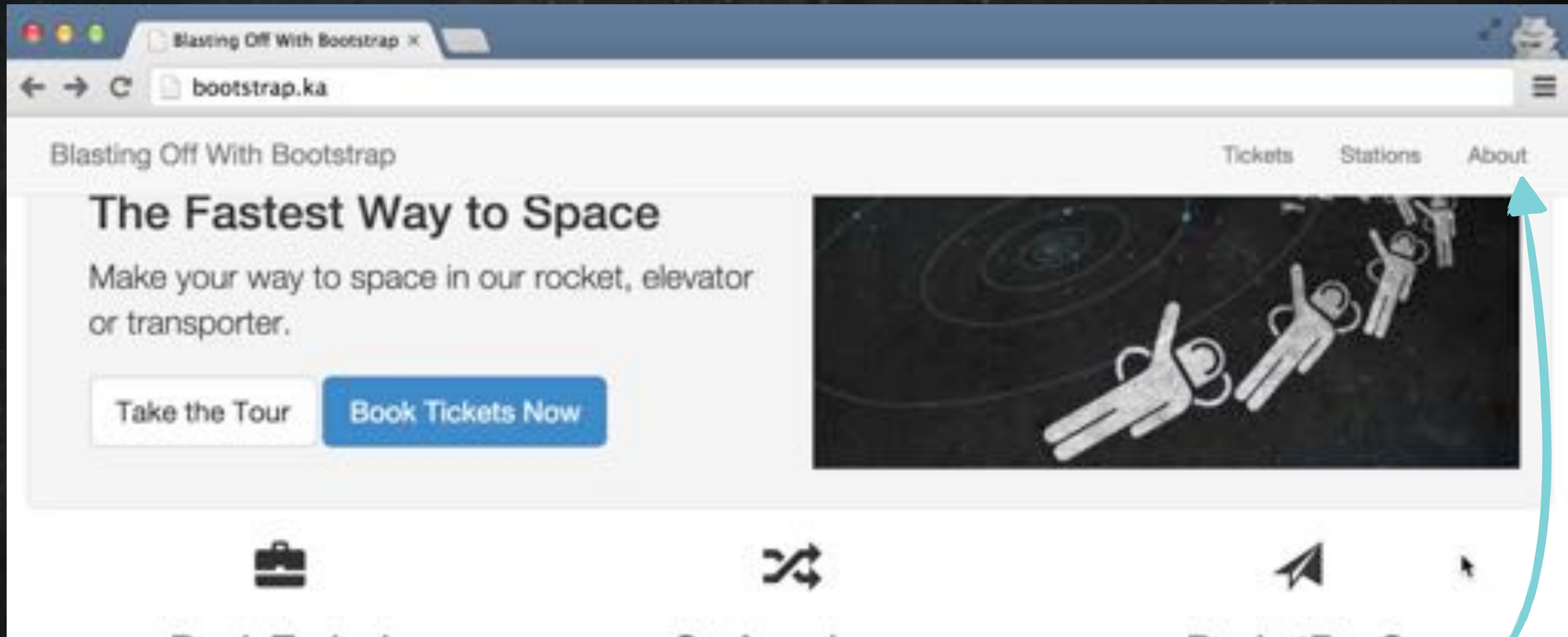


our nav looks awesome! It stretches all the way across for all screen.



# An Alternate Navigation

If we used `.navbar-fixed-top`, the navigation appears at the top of the page, even when we scroll.



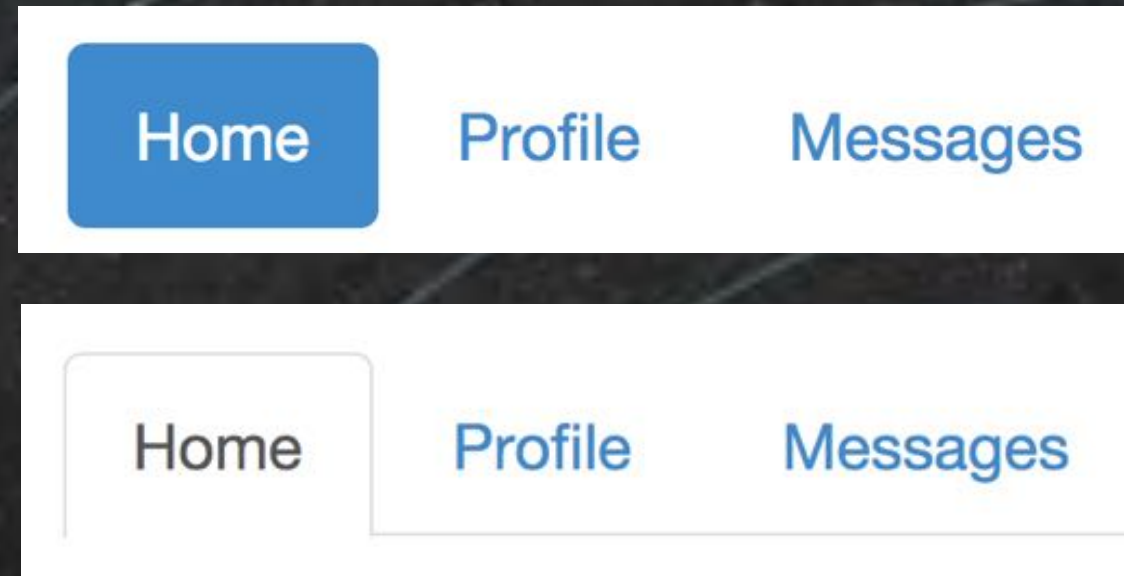
we could need to add `body { padding-top: 70px; }` to counteract this.

# .navbar versus .nav

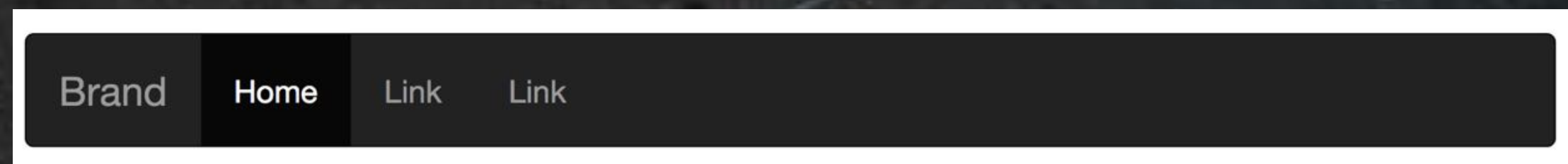
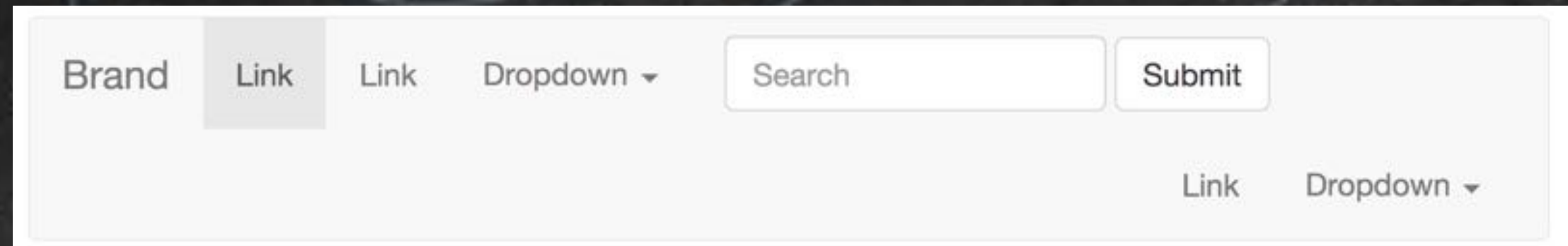
---

What's the difference between these two?

.nav



.navbar



# Navigating Navigation

---

Level 4, Section 2





---

# Blasting Off

with Bootstrap



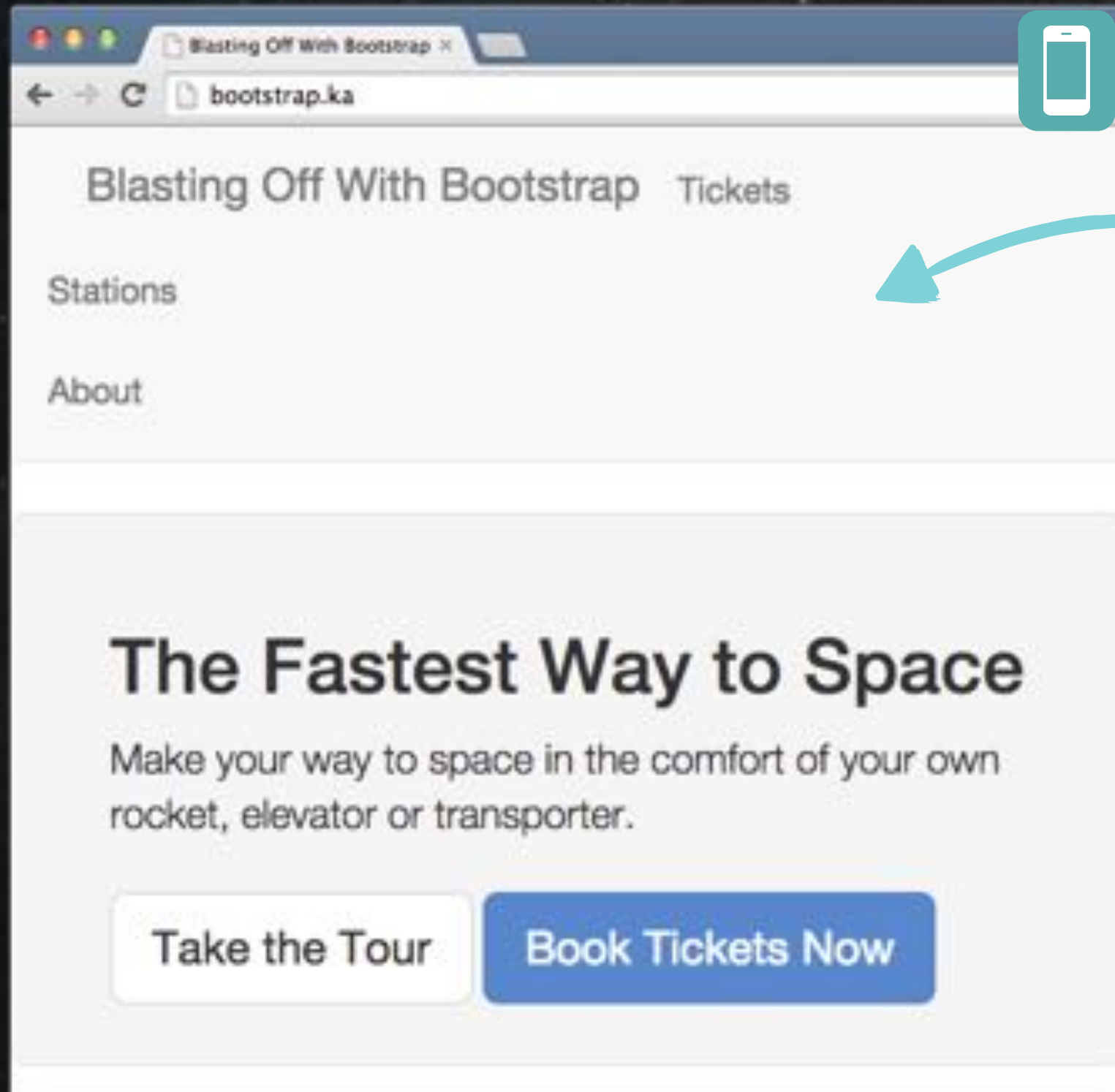
# JavaScript Components

---

Level 5, Section 1



# Navigation in Extra Small Mode



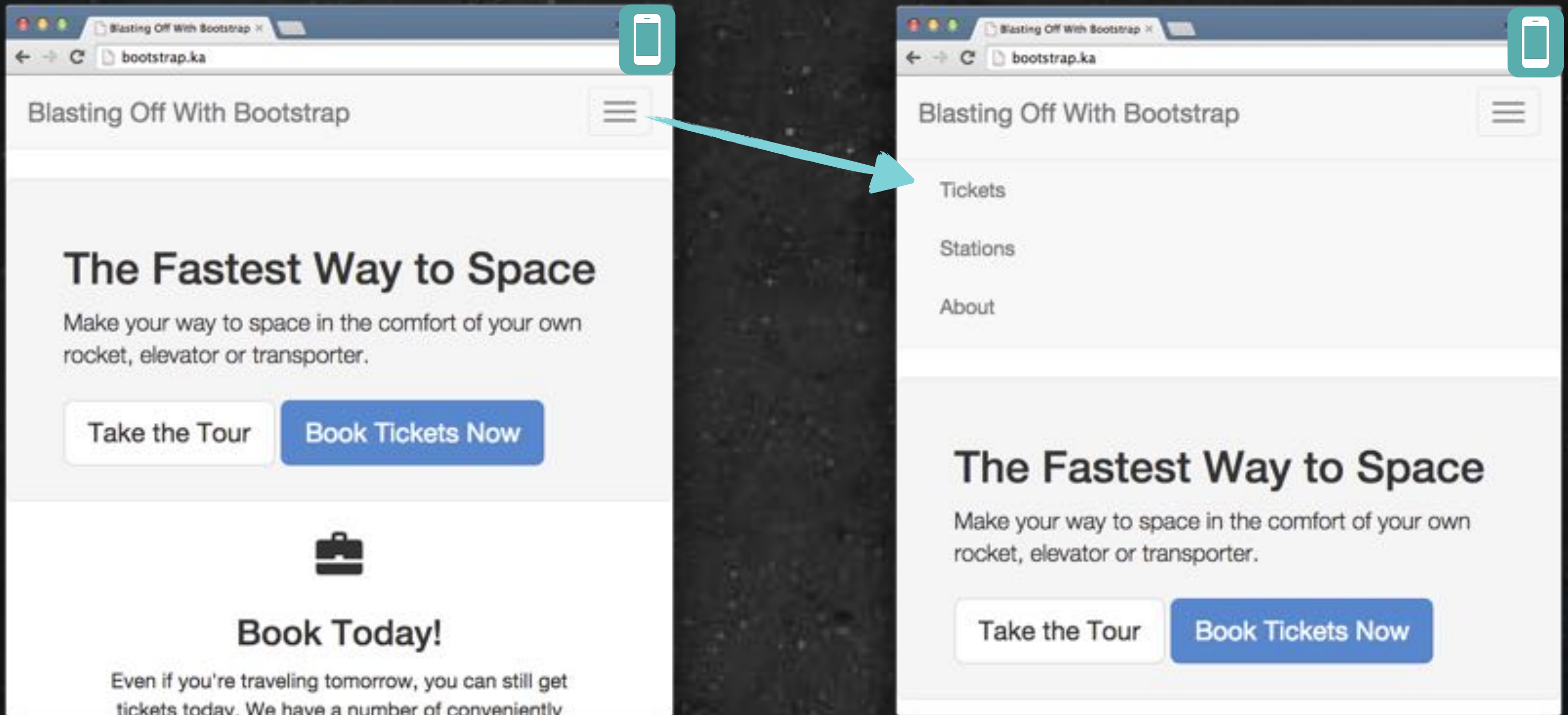
our navigation looks really bad in extra small mode...

Maybe we should have it collapsable? only show it when someone wants it?



# Expandable Navigation

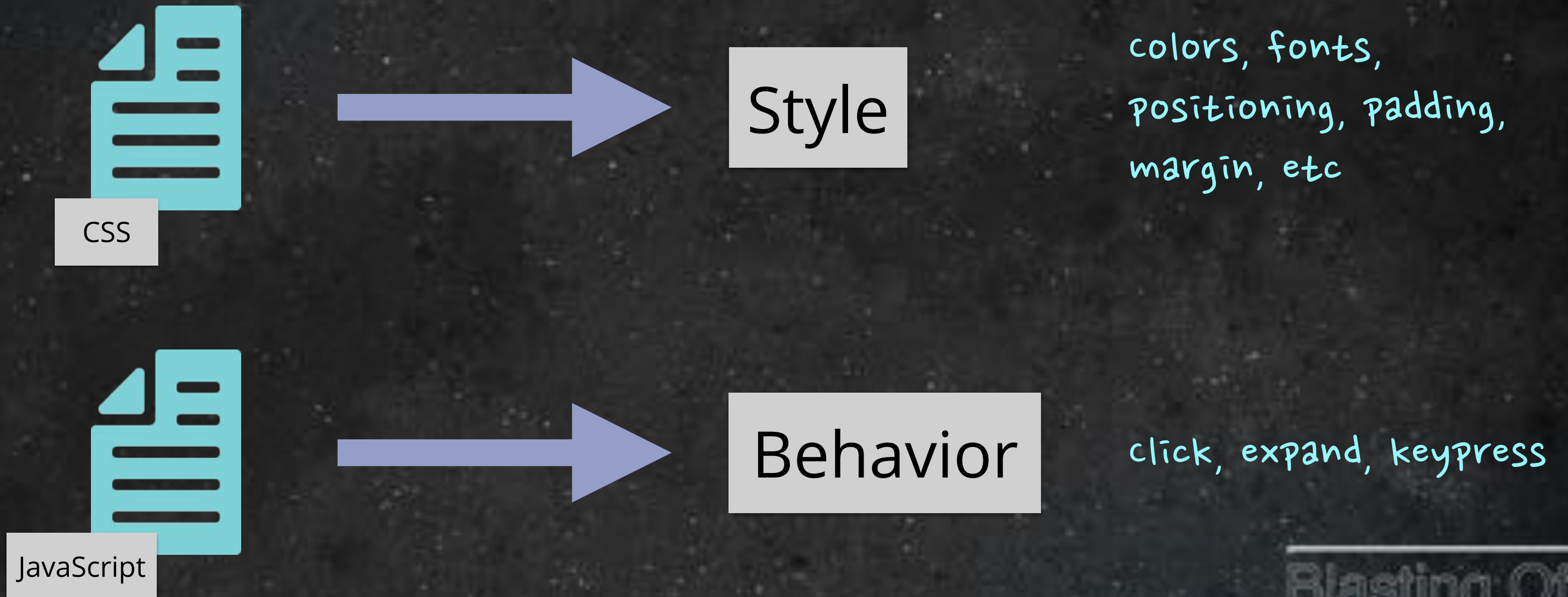
This is what we'll be building. In extra small mode, we'll show a navigation toggle.



# CSS vs JavaScript Refresher

---

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



# Our Existing Navigation

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

index.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.

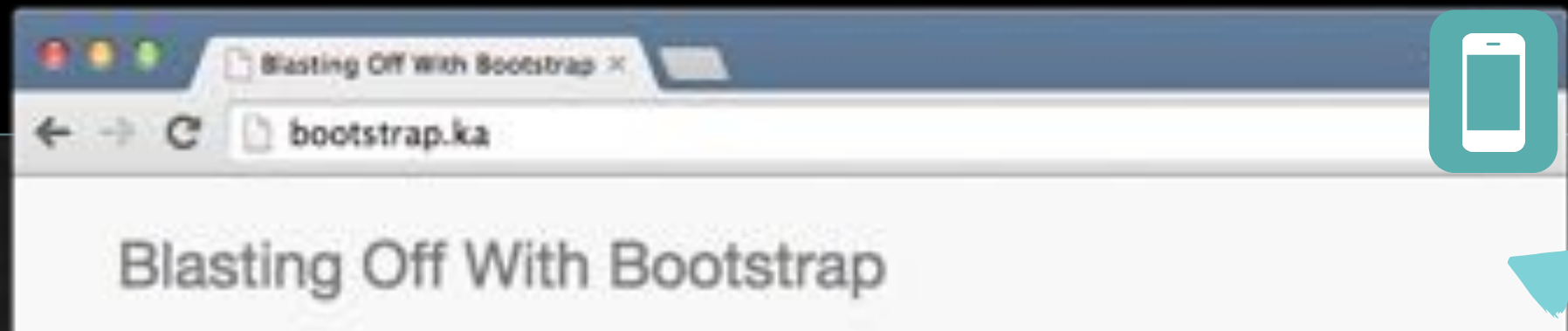


# Collapsing Our Navigation

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>
```



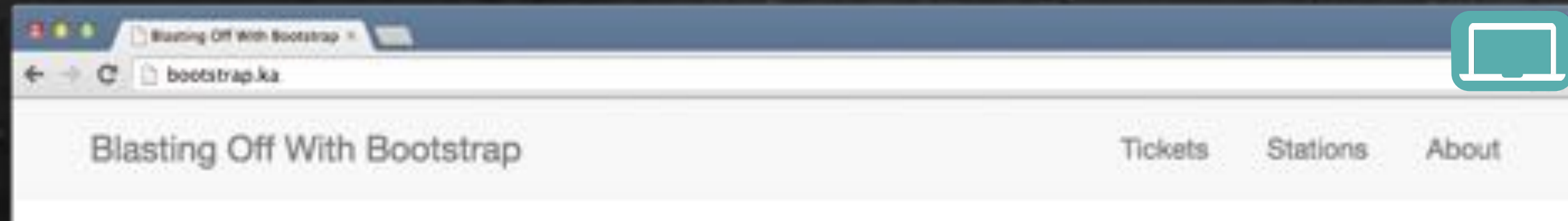
our navigation is hidden in all screen sizes!  
How do we only hide it only in extra small mode?

# 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>
```

Blasting Off With Bootstrap

Toggle navigation



# 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

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

Blasting Off With Bootstrap



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

Other ways of floating elements in Bootstrap

.pull-right

.pull-left



# Navigation Toggle Icons

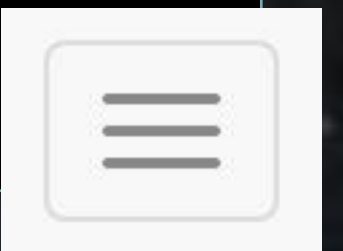
index.html

Glyphicons won't scale correctly in this case.

```
<button type='button' class='navbar-toggle'>
  <span class='sr-only'>Toggle navigation</span>
  <i class='glyphicon glyphicon-align-justify'></i>
</button>
```



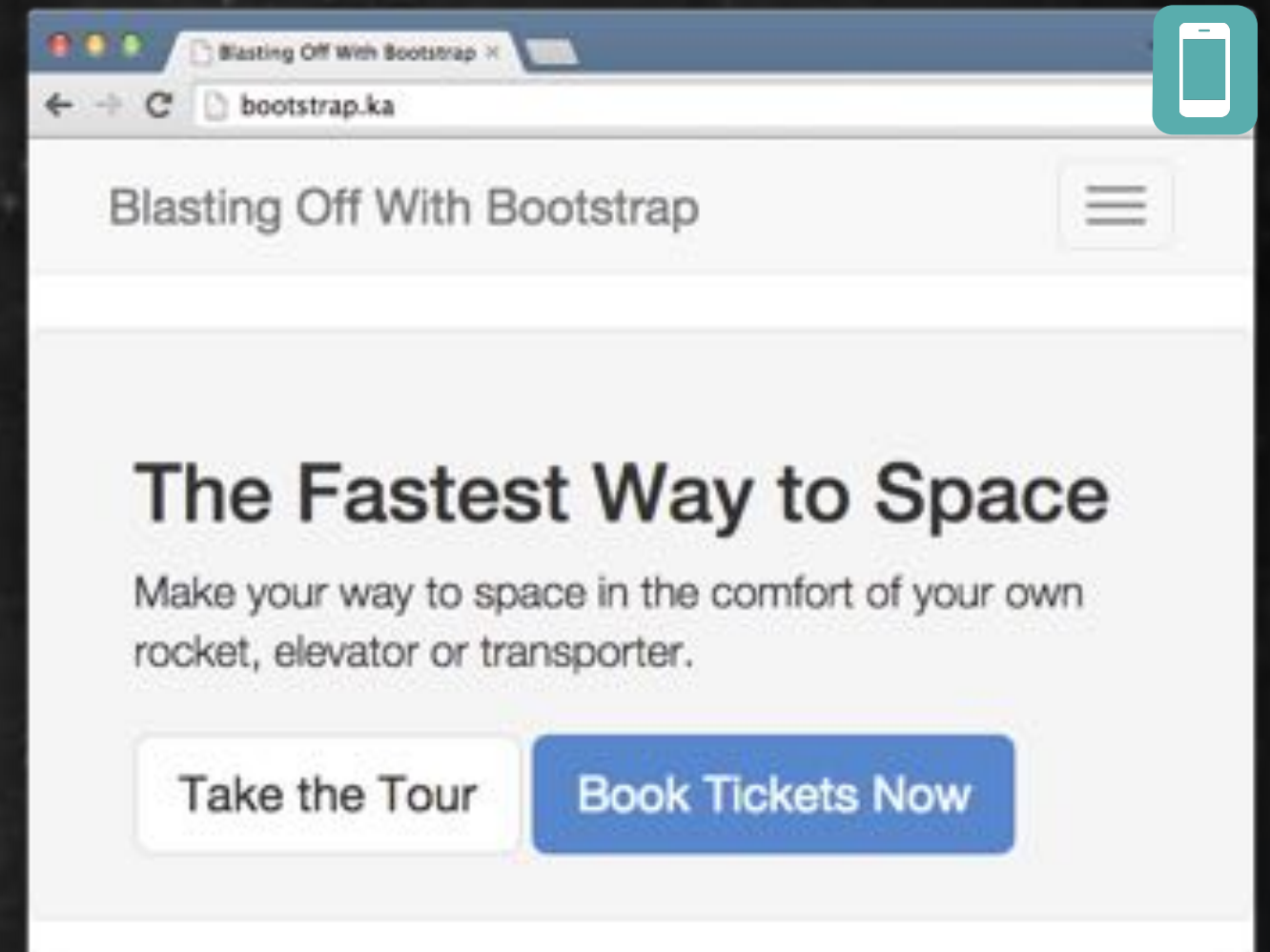
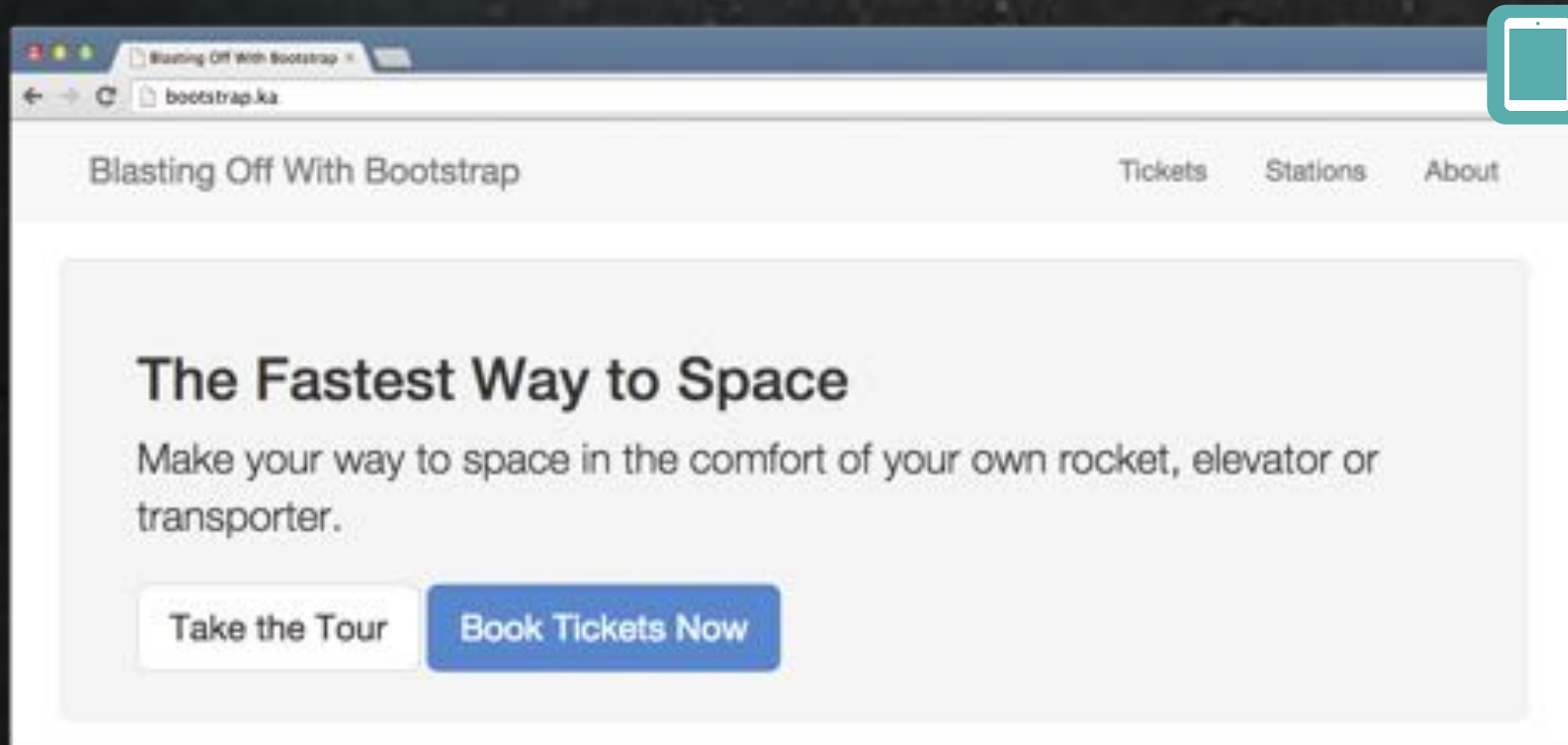
```
<button type='button' class='navbar-toggle'>
  <span class='sr-only'>Toggle navigation</span>
  <span class='icon-bar'></span>
  <span class='icon-bar'></span>
  <span class='icon-bar'></span>
</button>
```



Instead we can use 3 of Bootstrap's 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>
```

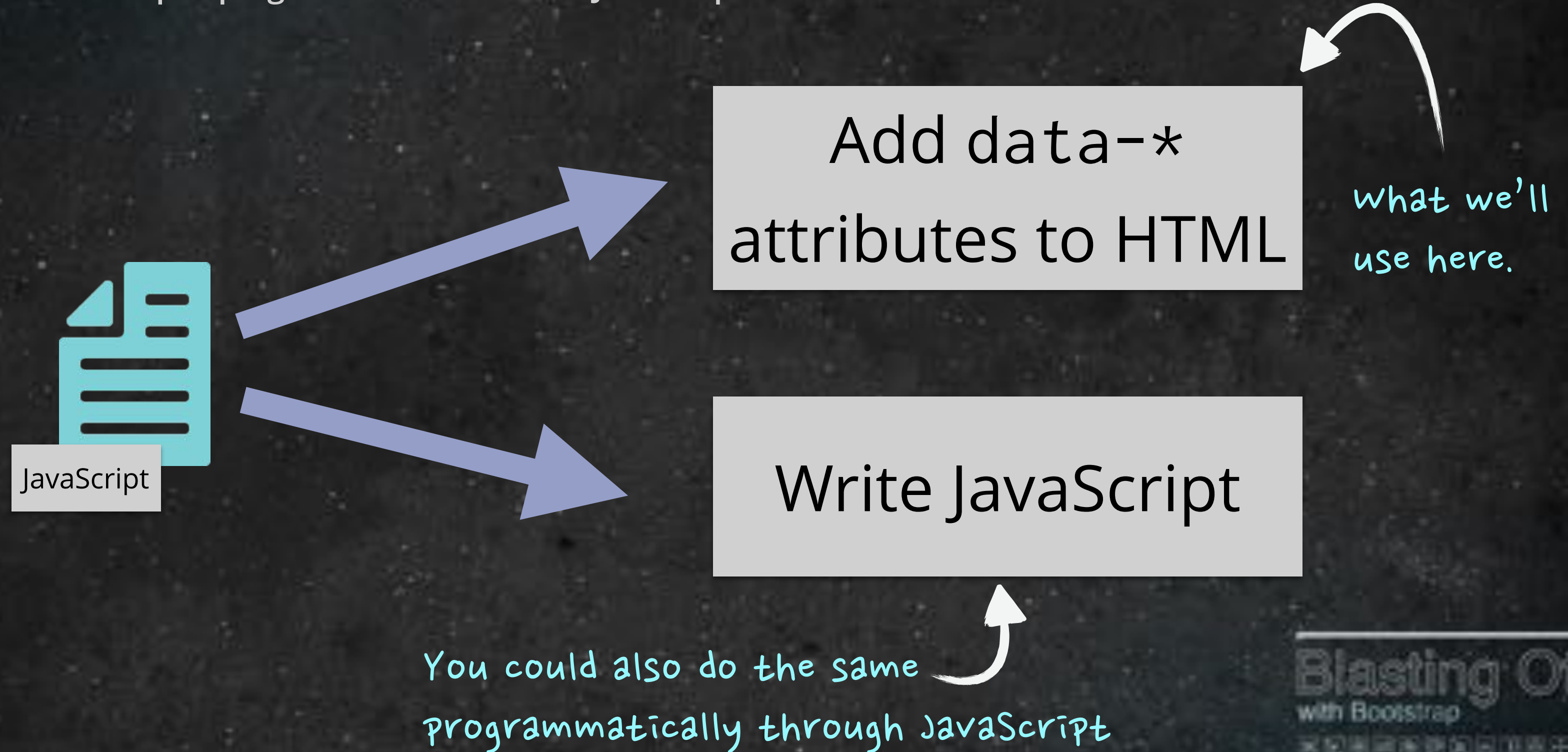
```
<ul class='nav navbar-nav navbar-right collapse  
  navbar-collapse'>
```

.. 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.



# Using the Collapse JavaScript Plugin

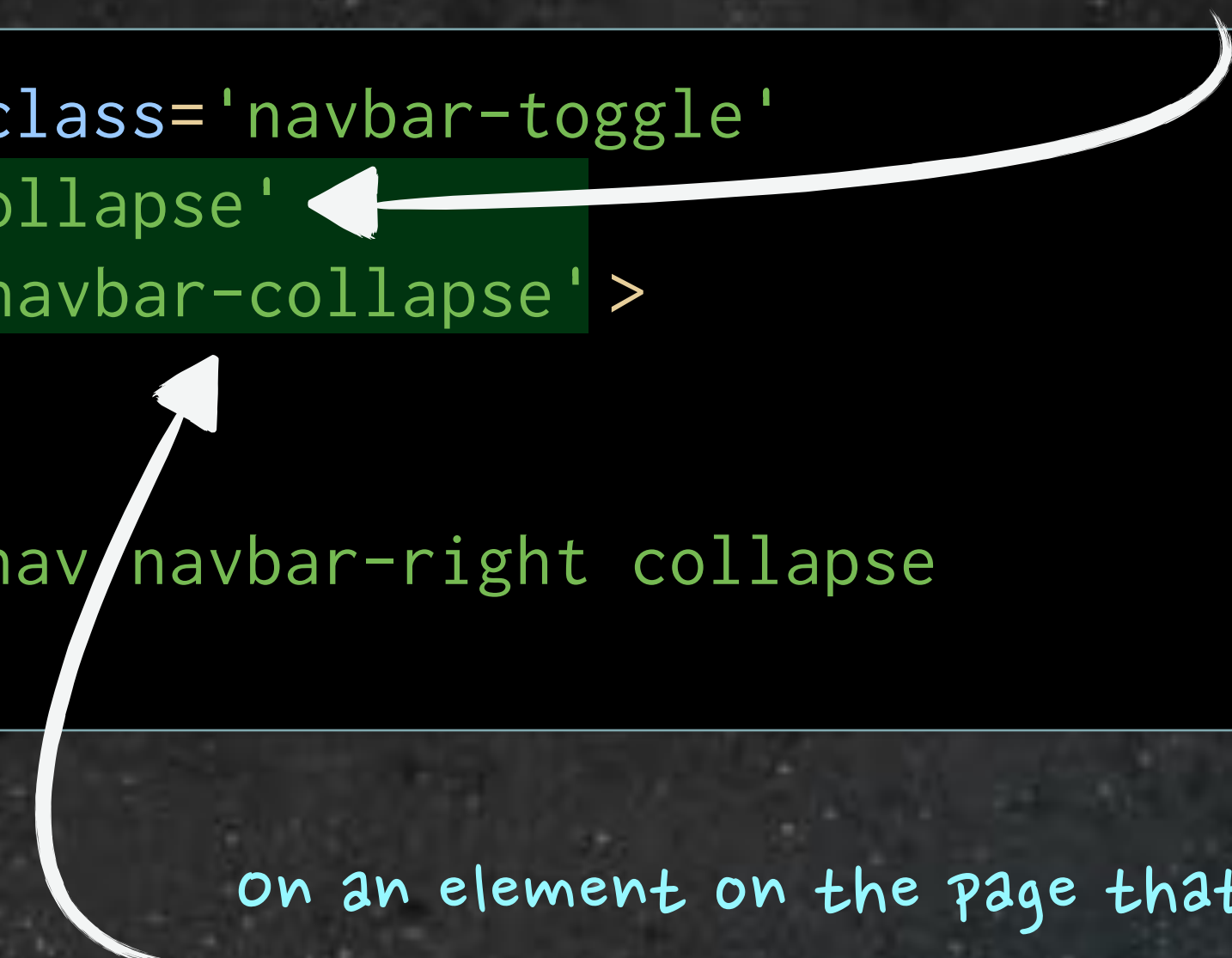
By adding additional data- attributes, Bootstrap will add new behavior to our page when it loads.

index.html

Toggle the existence of the `.collapse` class...

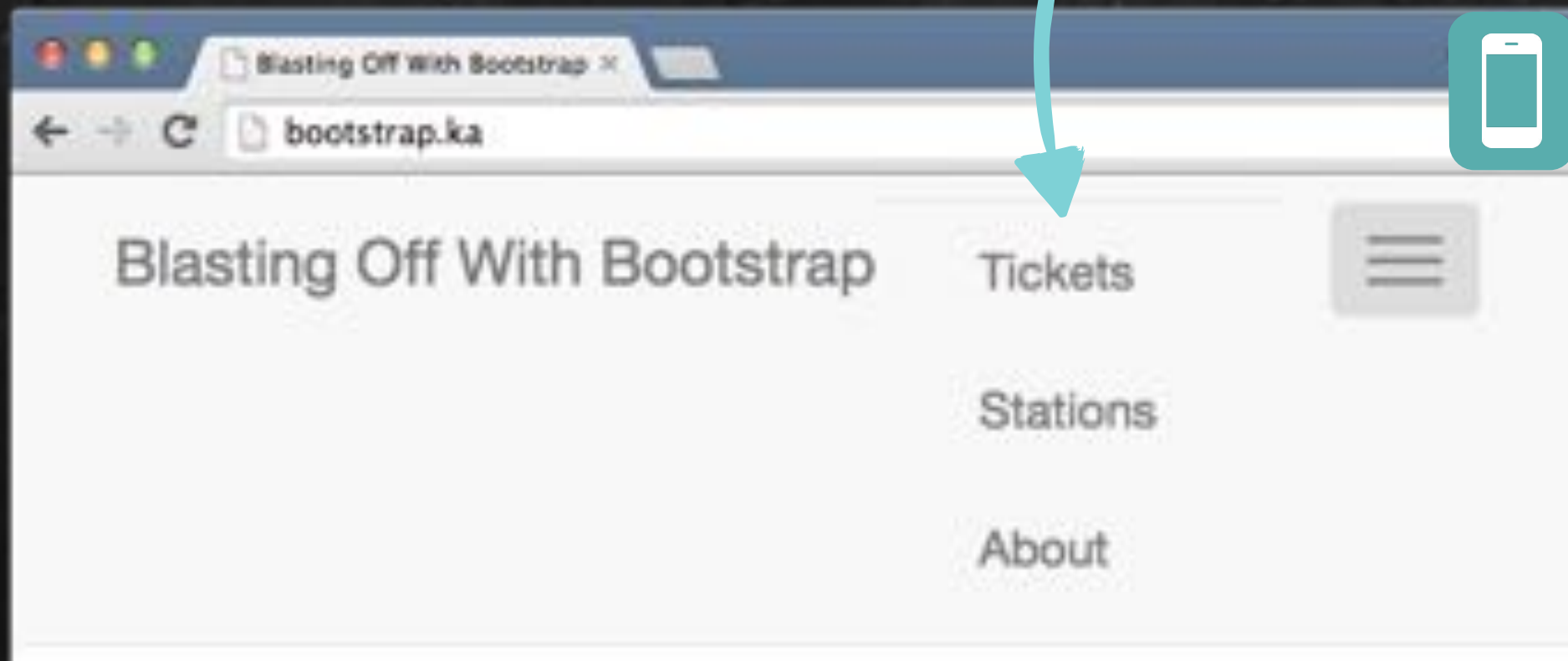
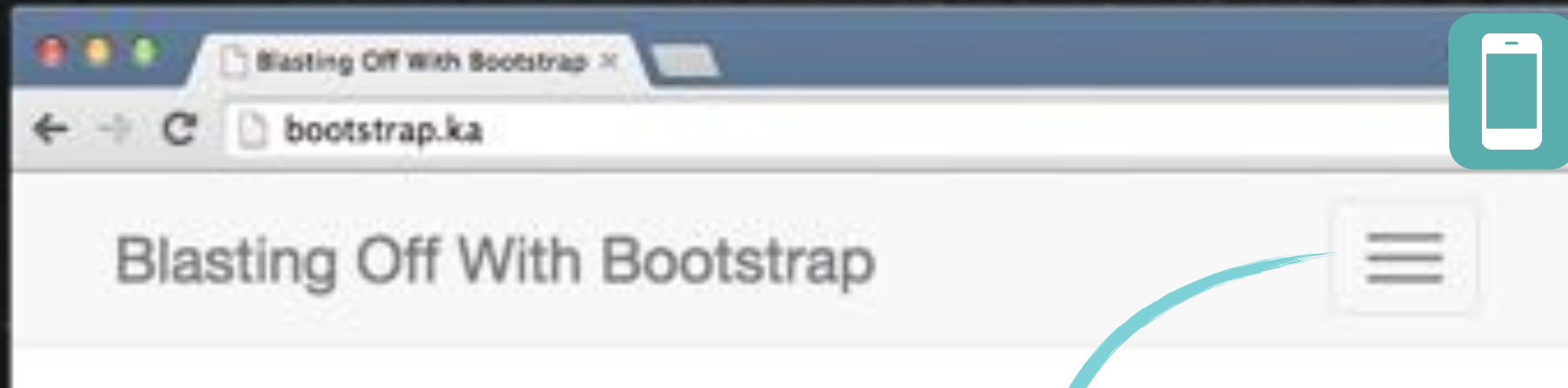
```
<button type='button' class='navbar-toggle'
  data-toggle='collapse'
  data-target='.navbar-collapse' >
</button>

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

A diagram consisting of two white curved arrows. The first arrow originates from the text 'Toggle the existence of the .collapse class...' and points to the 'data-toggle='collapse'' attribute in the button's HTML code. The second arrow originates from the text 'on an element on the page that has the class .navbar-collapse.' and points to the 'collapse' and 'navbar-collapse' classes in the ul's HTML code.

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

```
<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.

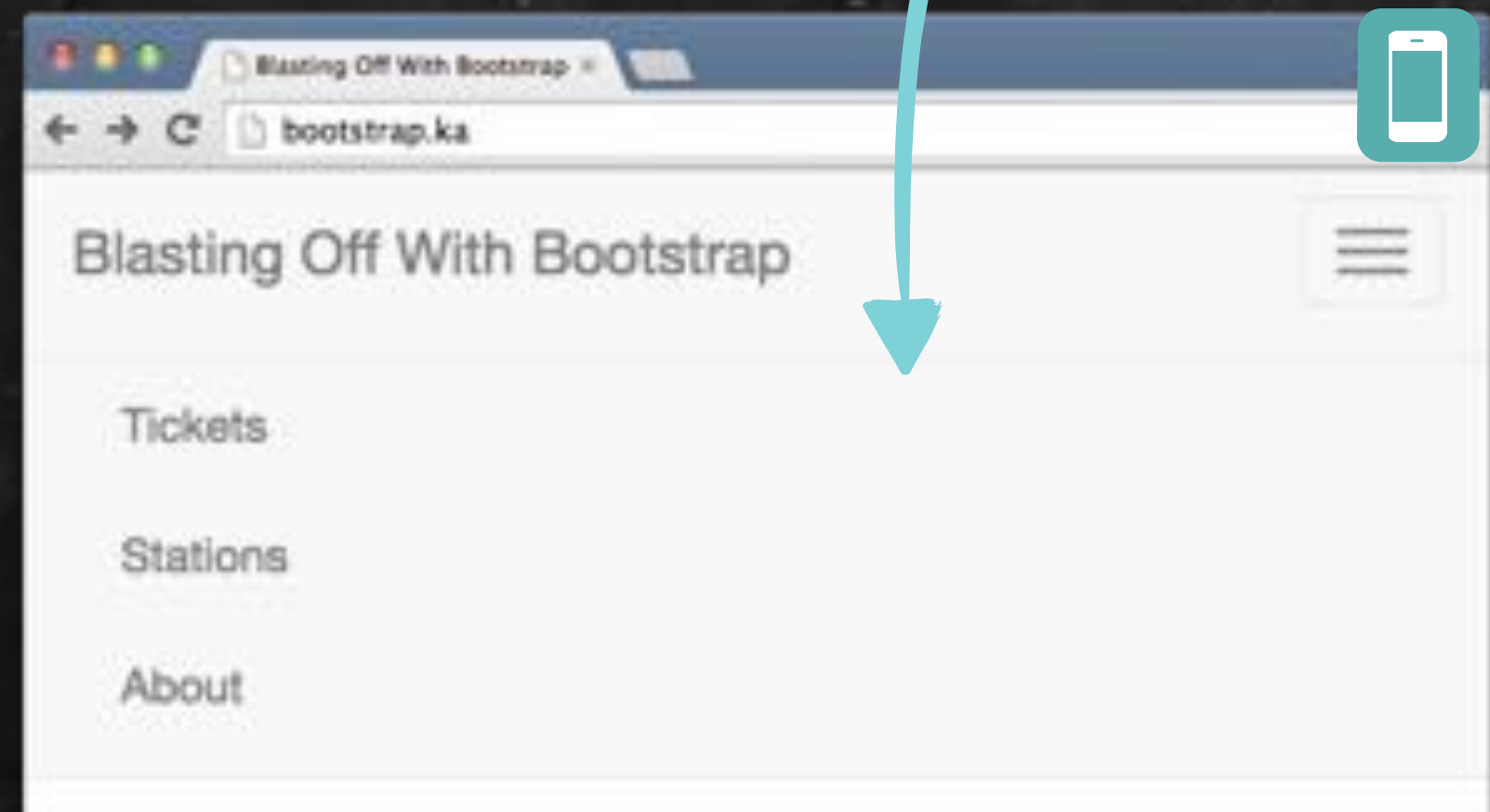
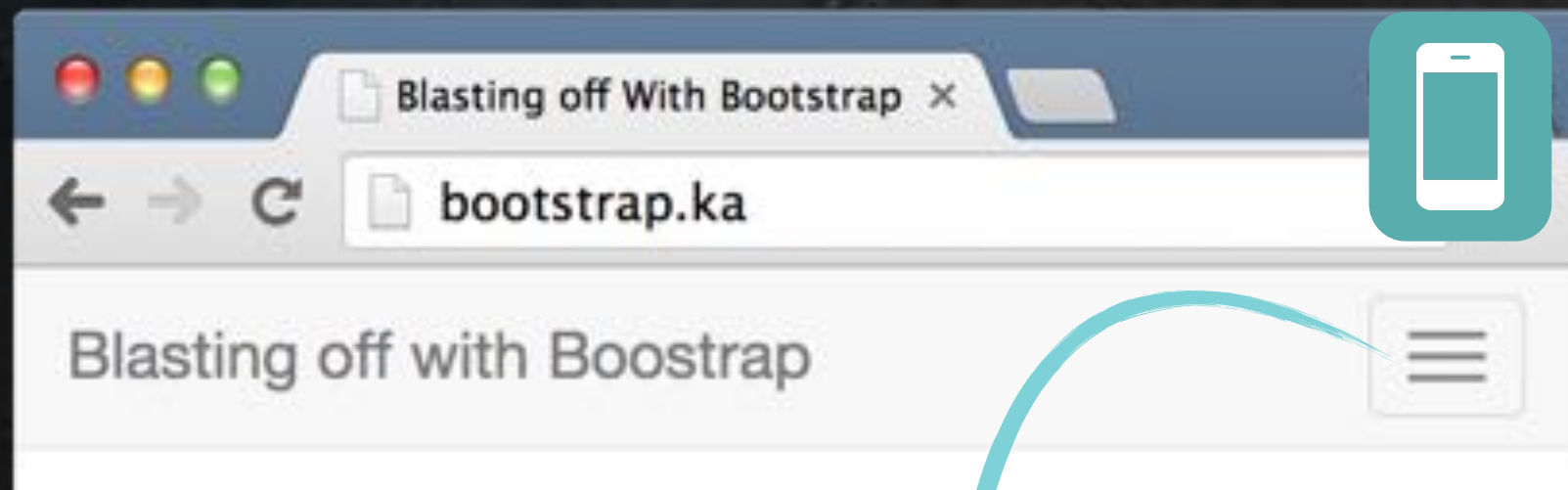
index.html

```
<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



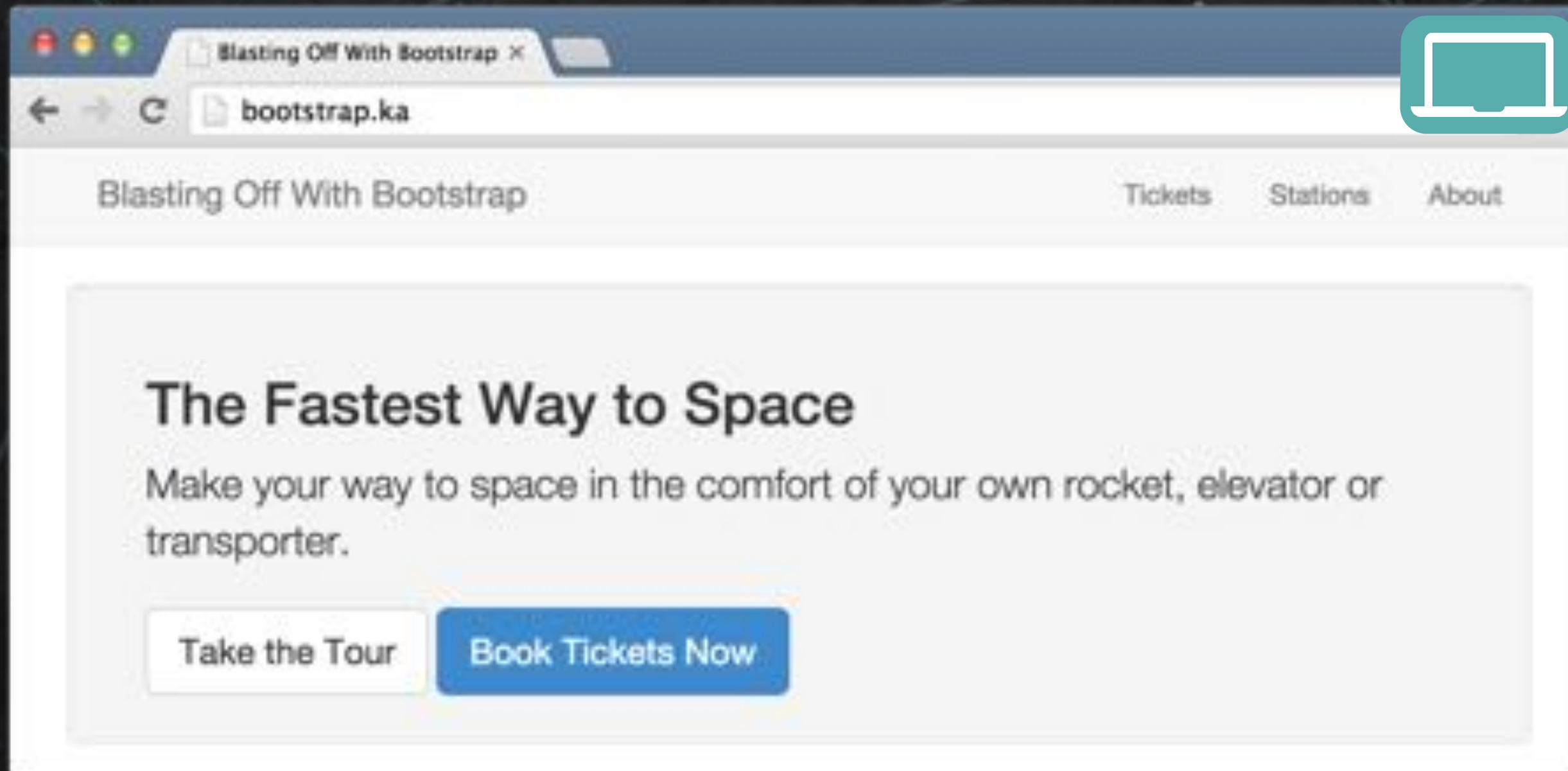
our navigation links now  
each have their own row  
for extra small screens!





# 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





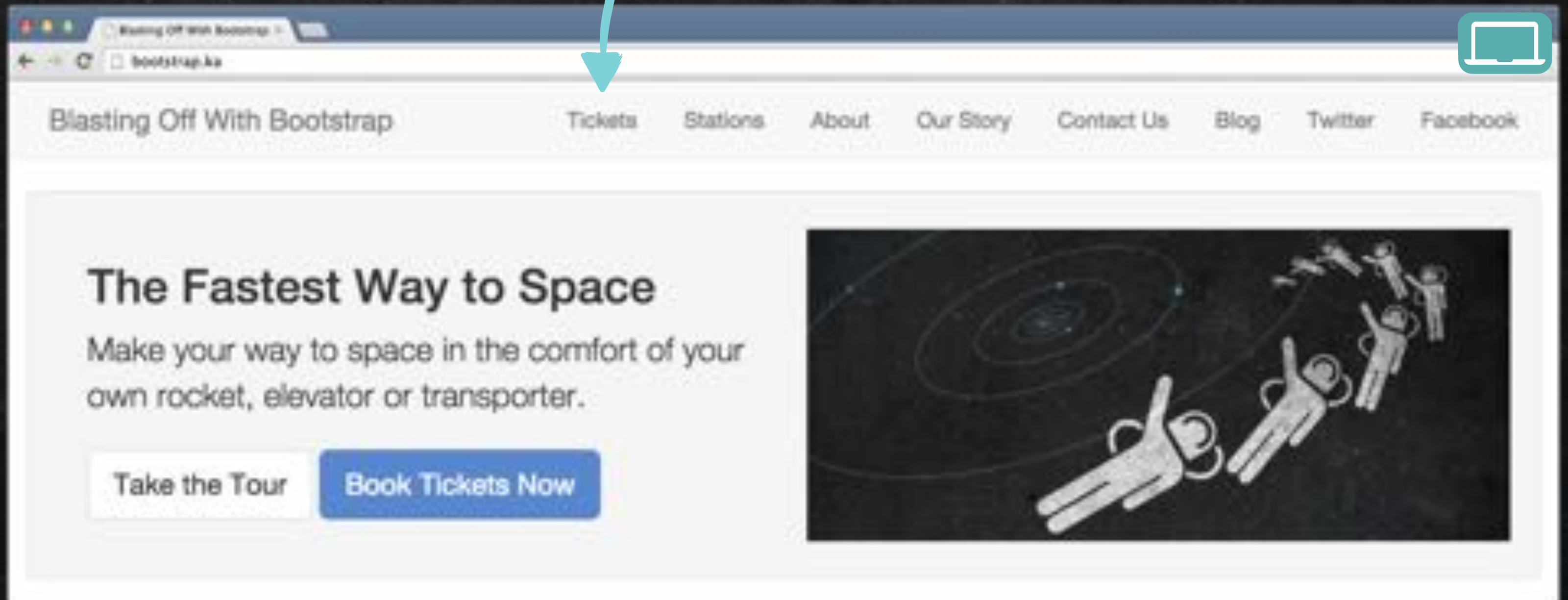
# Dropping Down From Orbit

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# Our Site is Taking Off and Growing

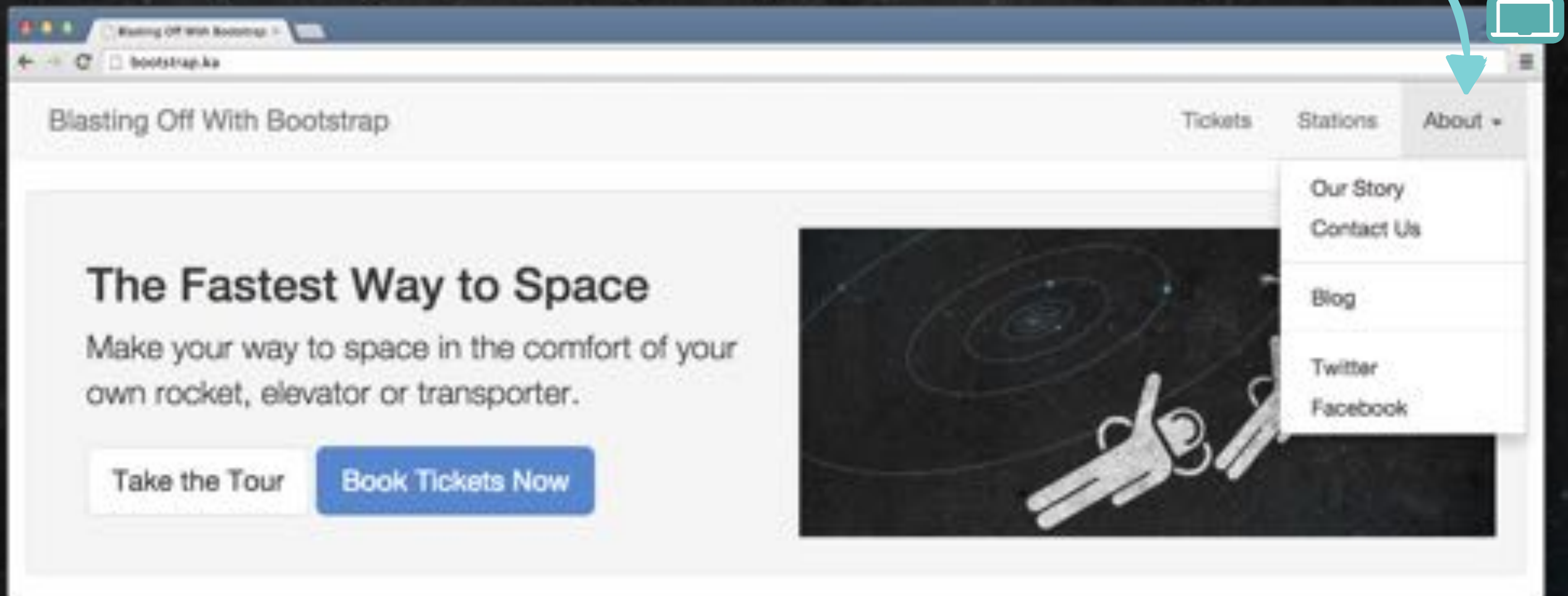
our navigation is getting crazy!  
How can we clean this up?



# Grouping Navigation

We'll consolidate less-used pages under a common navigation header to improve presentation.

clicking on "About" will expand our navigation.

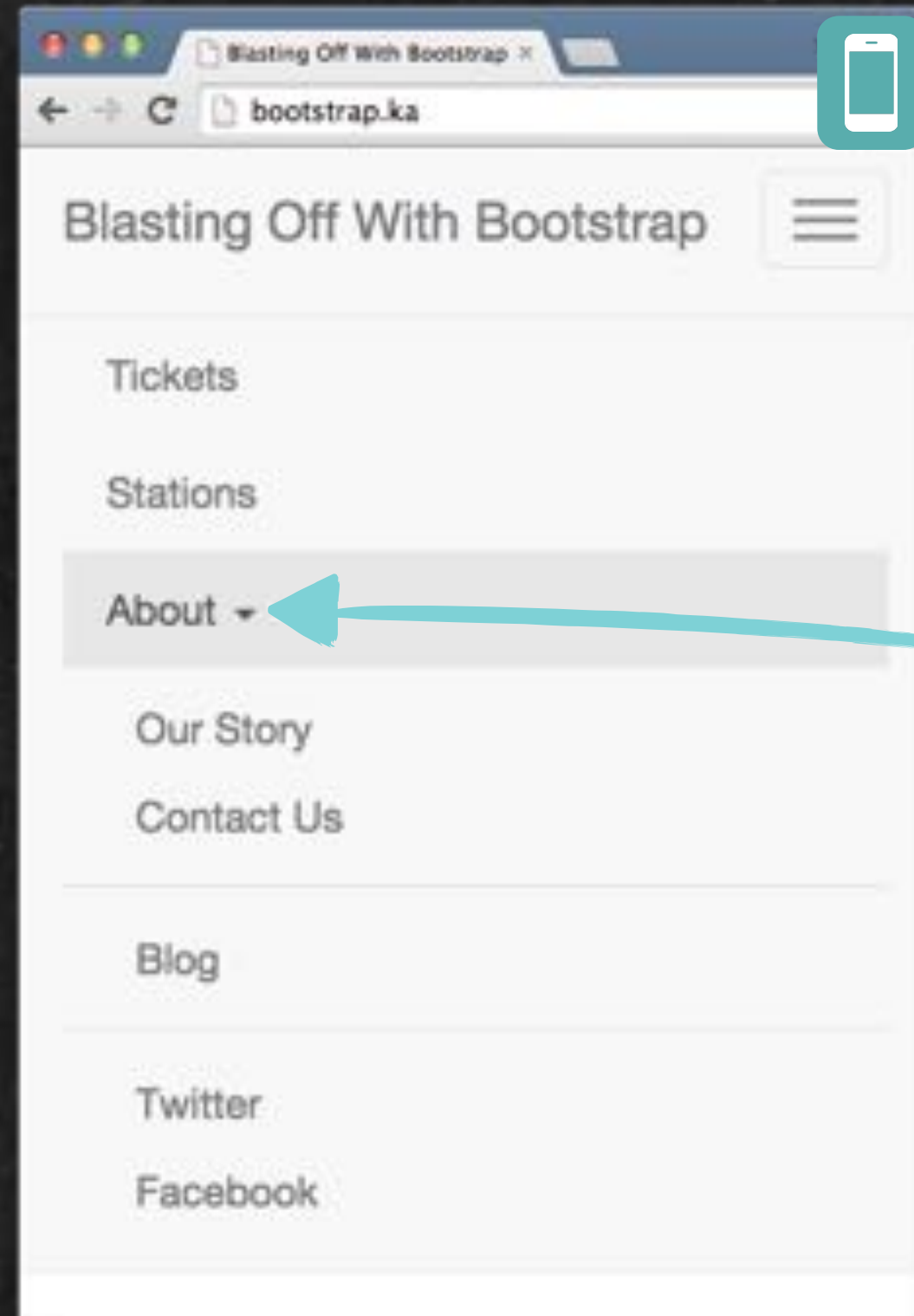




# Mobile First!

We'll make it work on mobile from the start.

we'll make our drop down work in extra small mode from the start.



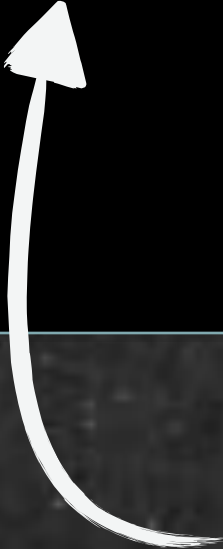
First, let's add the drop down icon.

# Our Existing Navigation Links

Our about link will need to be changed, otherwise it would take people to a difference page.

index.html

```
<ul class='nav ...'>
  <li><a href='tickets.html'>Tickets</a></li>
  <li><a href='stations.html'>Stations</a></li>
  <li>
    <a href='about.html'>About</a>
  </li>
  ...
</ul>
```



Instead of linking to the about page, we'll want this to expand and show other links.

# Converting the About Link

By linking to #, we tell the browser to not go to a new page.

index.html

```
<ul class='nav ...'>
  <li><a href='tickets.html'>Tickets</a></li>
  <li><a href='stations.html'>Stations</a></li>
  <li>
    <a href='#'>About <span class='caret'></span></a>
  </li>
</ul>
```

About ▼

# won't take  
visitors to a new page

Add our drop down icon using  
Bootstrap's .caret class.



# Adding More Links

index.html

```
<li>
  <a href='#>About <span class='caret'></span></a>
  <ul>
    <li><a href='story.html'>Our Story</a></li>
    <li><a href='contact.html'>Contact Us</a></li>
    <li><a href='/blog'>Blog</a></li>
    <li><a href='http://twitter.com/...'>Twitter</a></li>
    <li><a href='http://facebook.com/...'>Facebook</a></li>
  </ul>
</li>
```

About ▼

- Our Story
- Contact Us
- Blog
- Twitter
- Facebook

All of our new links will be grouped in our about element's <li>

# Converting to a Dropdown Menu

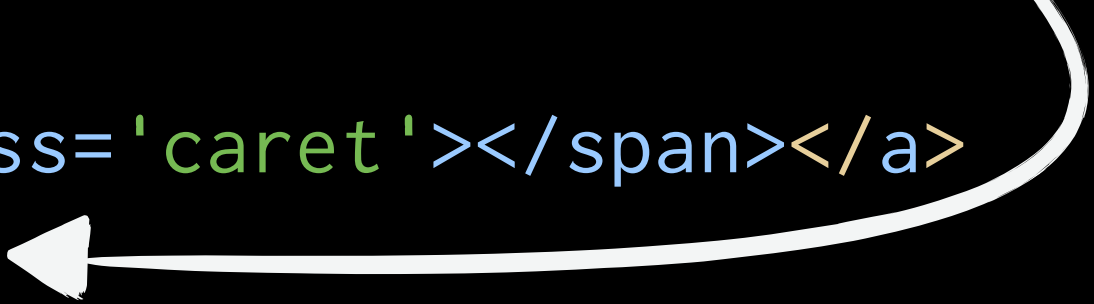
We don't want our sub navigation to be shown when the page loads.

This lets Bootstrap know this list is a drop down menu.  
It won't be shown on page load.

index.html

About ▼


```
<li>
  <a href='#>About <span class='caret'></span></a>
  <ul class='dropdown-menu'>
    <li><a href='story.html'>Our Story</a></li>
    <li><a href='contact.html'>Contact Us</a></li>
    <li><a href='/blog'>Blog</a></li>
    <li><a href='http://twitter.com/...'>Twitter</a></li>
    <li><a href='http://facebook.com/...'>Facebook</a></li>
  </ul>
</li>
```



# Two Ways to Use JavaScript Plugins

Remember how there are two ways to use JavaScript plugins? Let's look at another example.

we'll add a Dropdown  
using data attributes



Add data-\*  
attributes to HTML

Write JavaScript

JavaScript



# Adding Behavior using Toggle

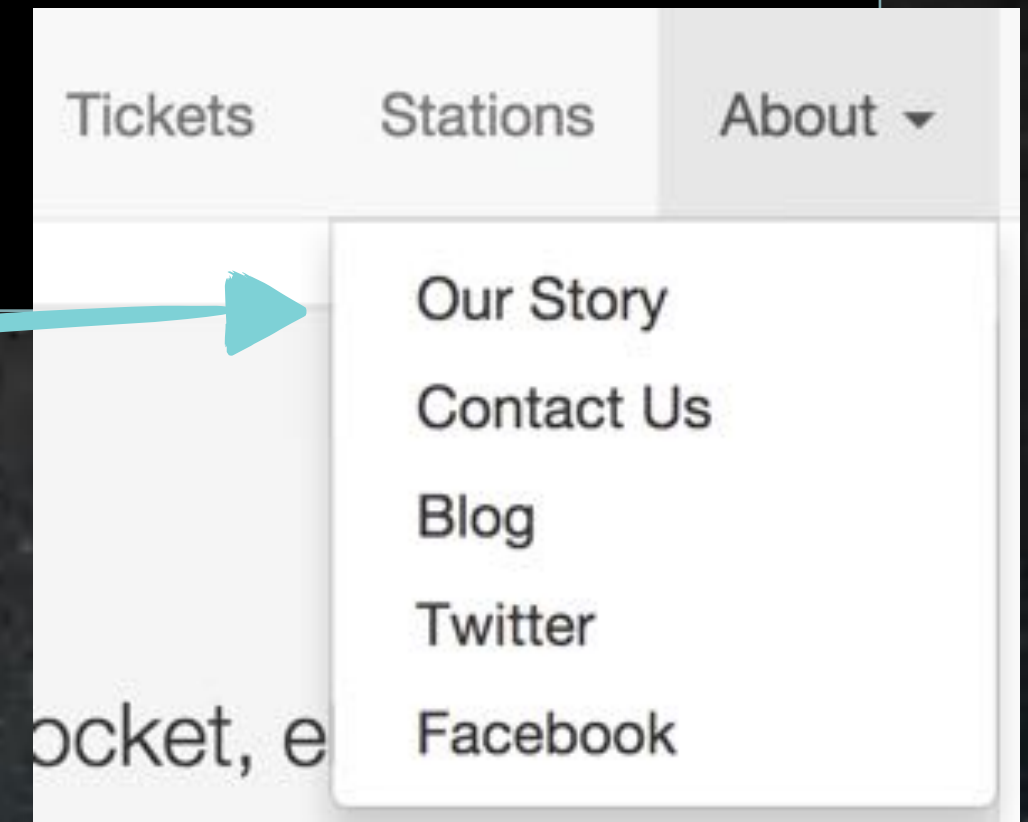
Similar to the Collapse plugin, we'll add classes to our HTML to use the Dropdown plugin.

When About is clicked, Bootstrap adds a class of `.open` to the parent element.

index.html

```
<li>
  <a href='#' data-toggle='dropdown'>
    About <span class='caret'></span>
  </a>
  <ul class='dropdown-menu'>...</ul>
</li>
```

About ▼



# Starting our Dropdown Open

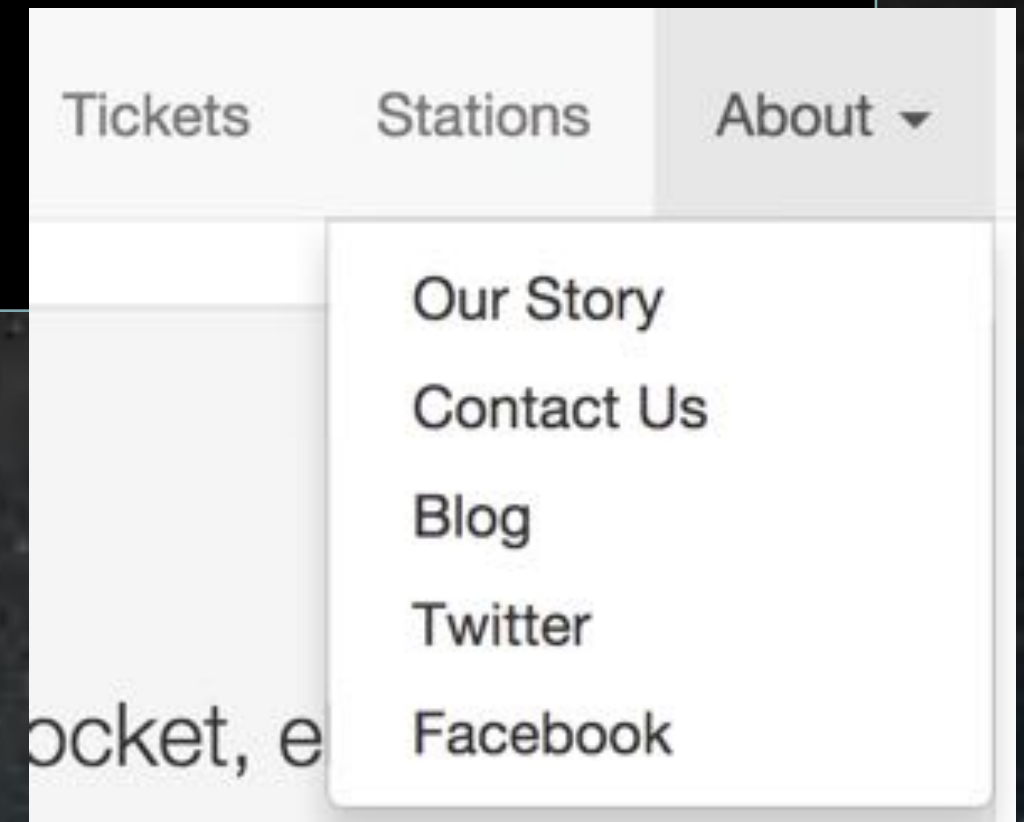
The Dropdown plugin is adding and removing classes for us, which we could do ourselves.

If we wanted our dropdown to start open, we could do it with a class.

index.html

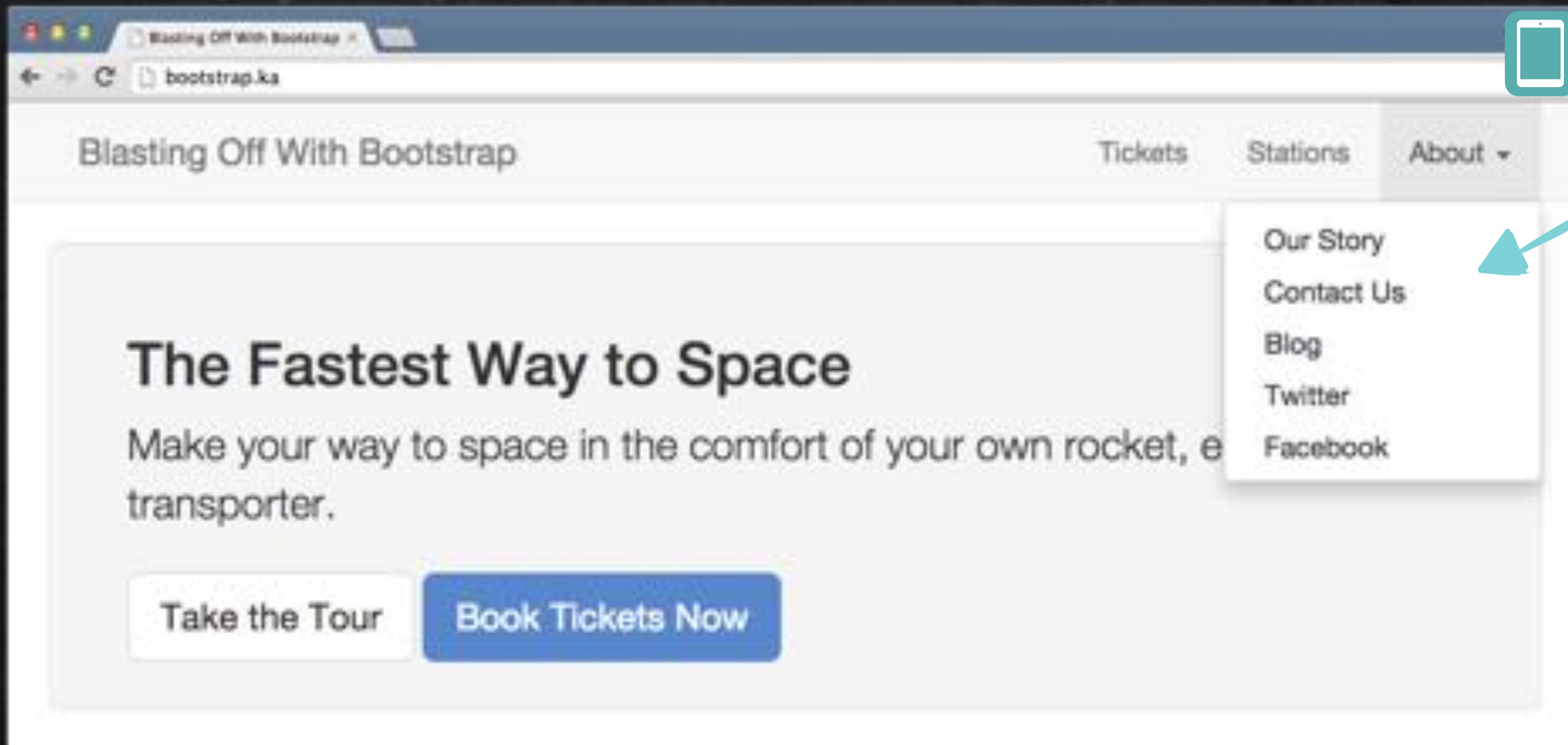
```
<li class='open'>
  <a href='#' data-toggle='dropdown'>
    About <span class='caret'></span>
  </a>
  <ul class='dropdown-menu'>...</ul>
</li>
```

clicking on About now, would  
remove the `.open` class,  
closing the dropdown.



# Our Dropdown Menu So Far

wait, didn't we have some cool dividers between links?





# Adding Dividers

index.html

```
<li>
  <a href='#' data-toggle='dropdown'>About
    <span class='caret'></span></a>
  <ul class='dropdown-menu'>
    <li><a href='story.html'>Our Story</a></li>
    <li><a href='contact.html'>Contact Us</a></li>
    <li class='divider'></li>
    <li><a href='/blog'>Blog</a></li>
    <li class='divider'></li>
    <li><a href='http://twitter.com/...'>Twitter</a></li>
    <li><a href='http://facebook.com/...'>Facebook</a></li>
  </ul>
</li>
```

Adds a nice horizontal break  
to help group menu items.




Our Story  
Contact Us  
Blog  
Twitter  
Facebook

# What About Users Without JavaScript?

We want to make sure our site works well when JavaScript is disabled.

index.html

```
<li>
  <a href='#' data-toggle='dropdown'>
    About <span class='caret'></span>
  </a>
  ...
</li>
```



If a visitor has JavaScript disabled, they'll click on About and nothing will happen!

# Graceful Degradation with JavaScript

Graceful degradation means that visitors with old browsers will still have an intended experience.

If a user has JavaScript enabled, they'll see the drop down menu and the URL won't change.

index.html

```
<li>
  <a href='about.html' data-target='#' data-toggle='dropdown'>
    About <span class='caret'></span>
  </a>
  ...
</li>
```

If they have JavaScript disabled, they'll be taken to the about.html page.



# Dropping Down From Orbit

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Level 5, Section 2