



Blasting Off

with Bootstrap

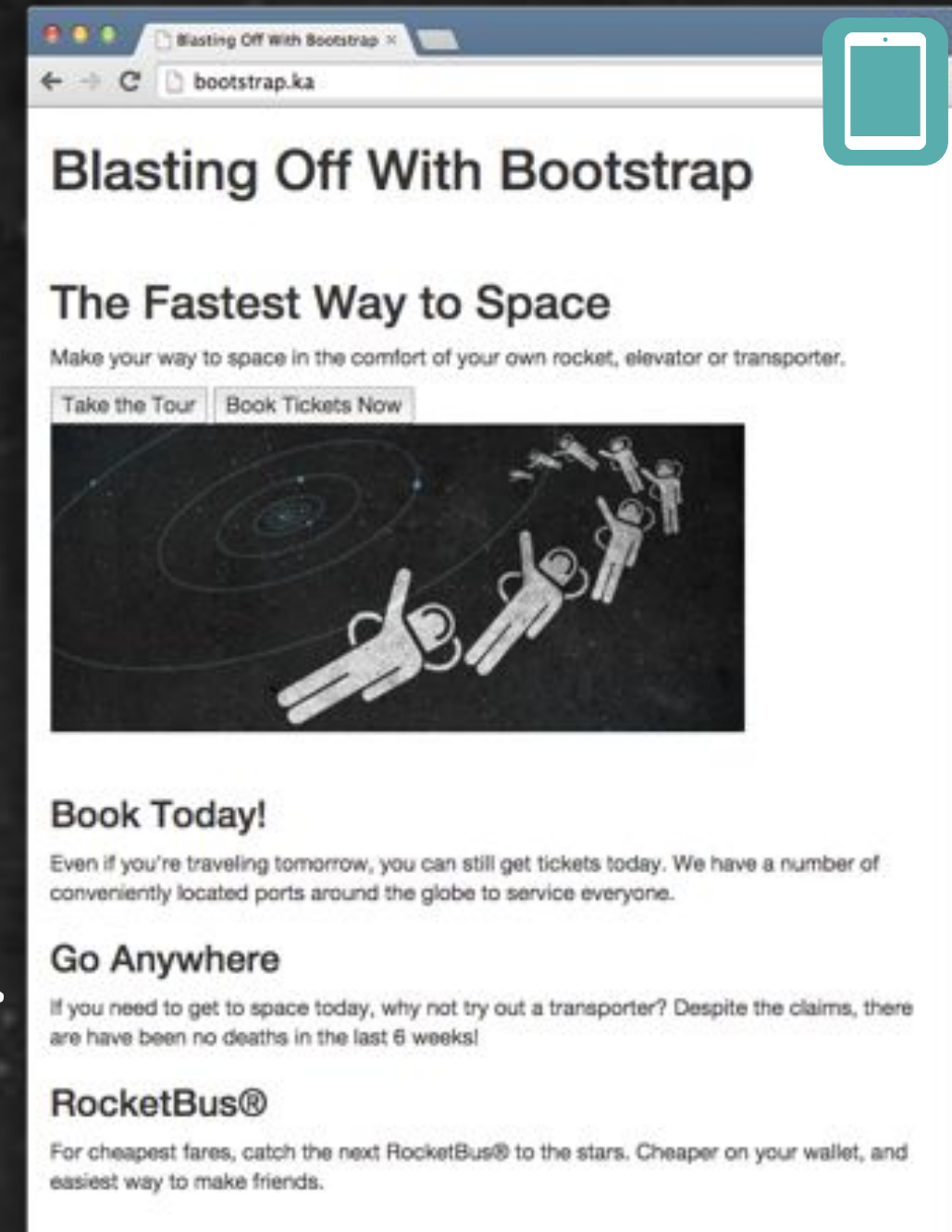
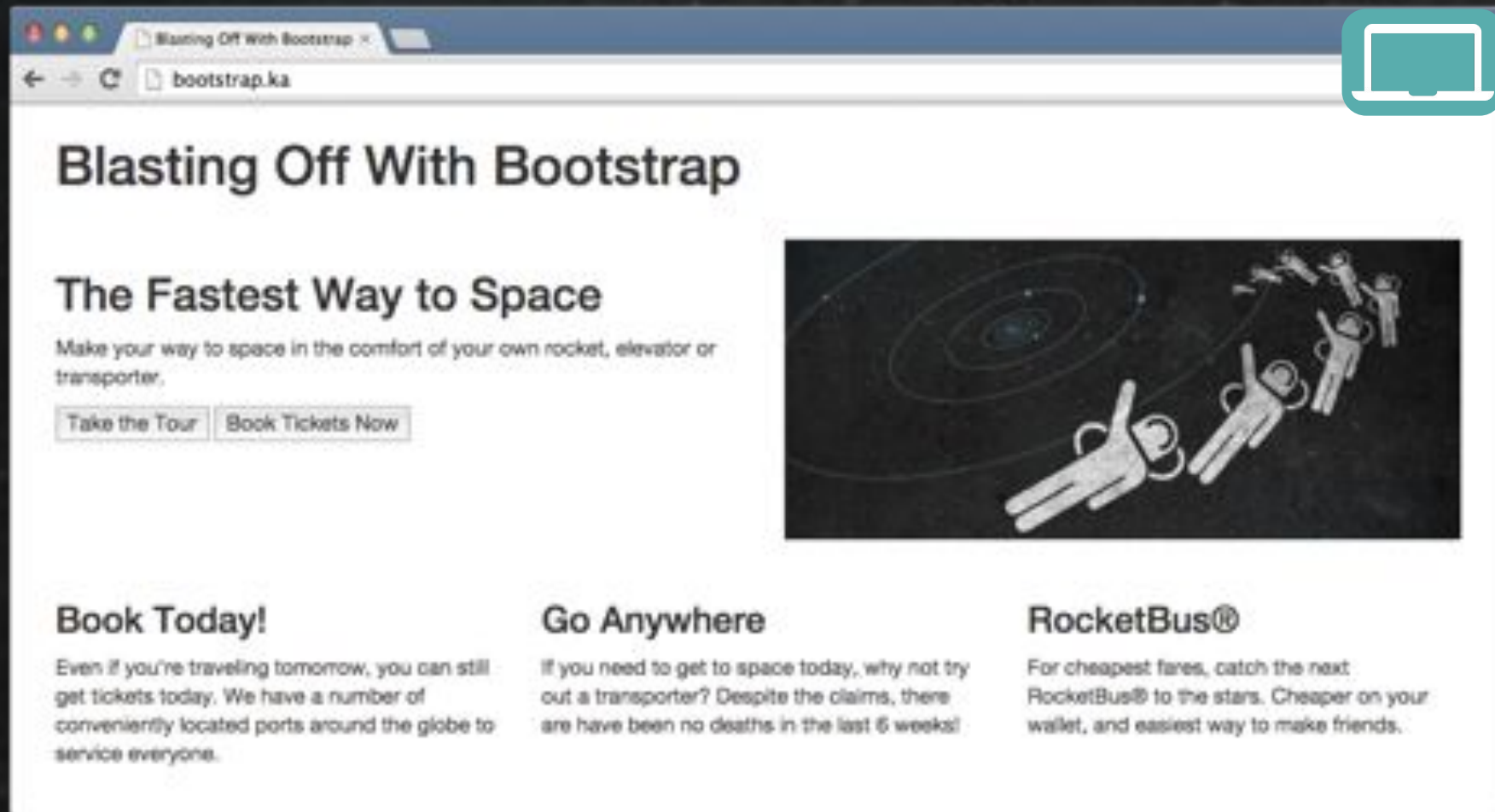


Responsive Gridding

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



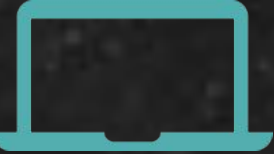
Put Book Today
on its own row



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


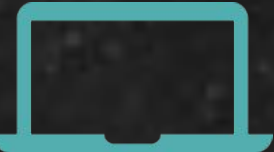
Medium Screen Size

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

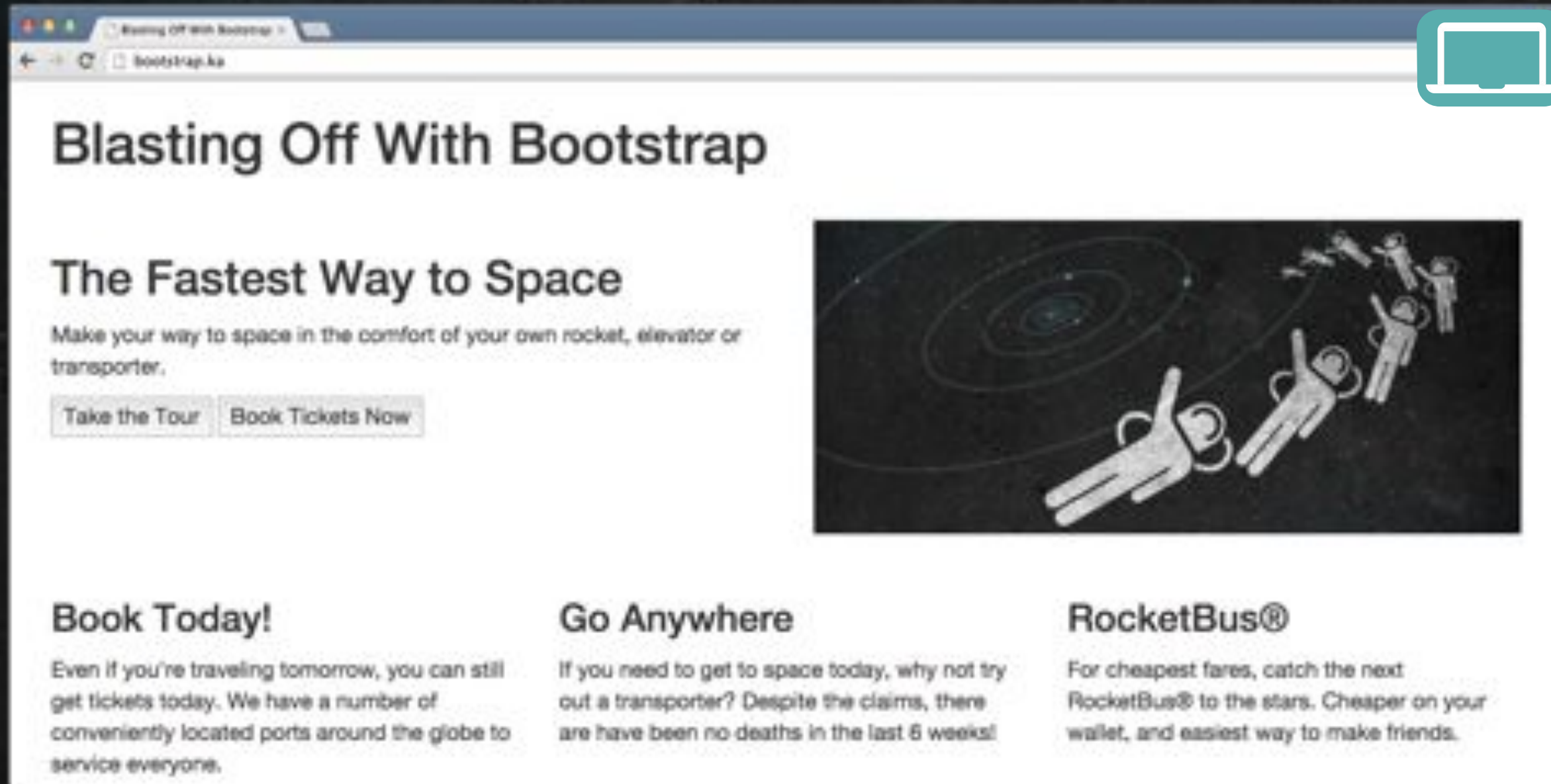
```
<div class='row'>
  <div class='col-sm-4'>
    <h3>Book Today!</h3>...
  </div>
  <div class='col-sm-4'>
    <h3>Go Anywhere</h3>...
  </div>
  <div class='col-sm-4'>
    <h3>RocketBus&reg;</h3>...
  </div>
</div>
```



These will work in
768px and higher



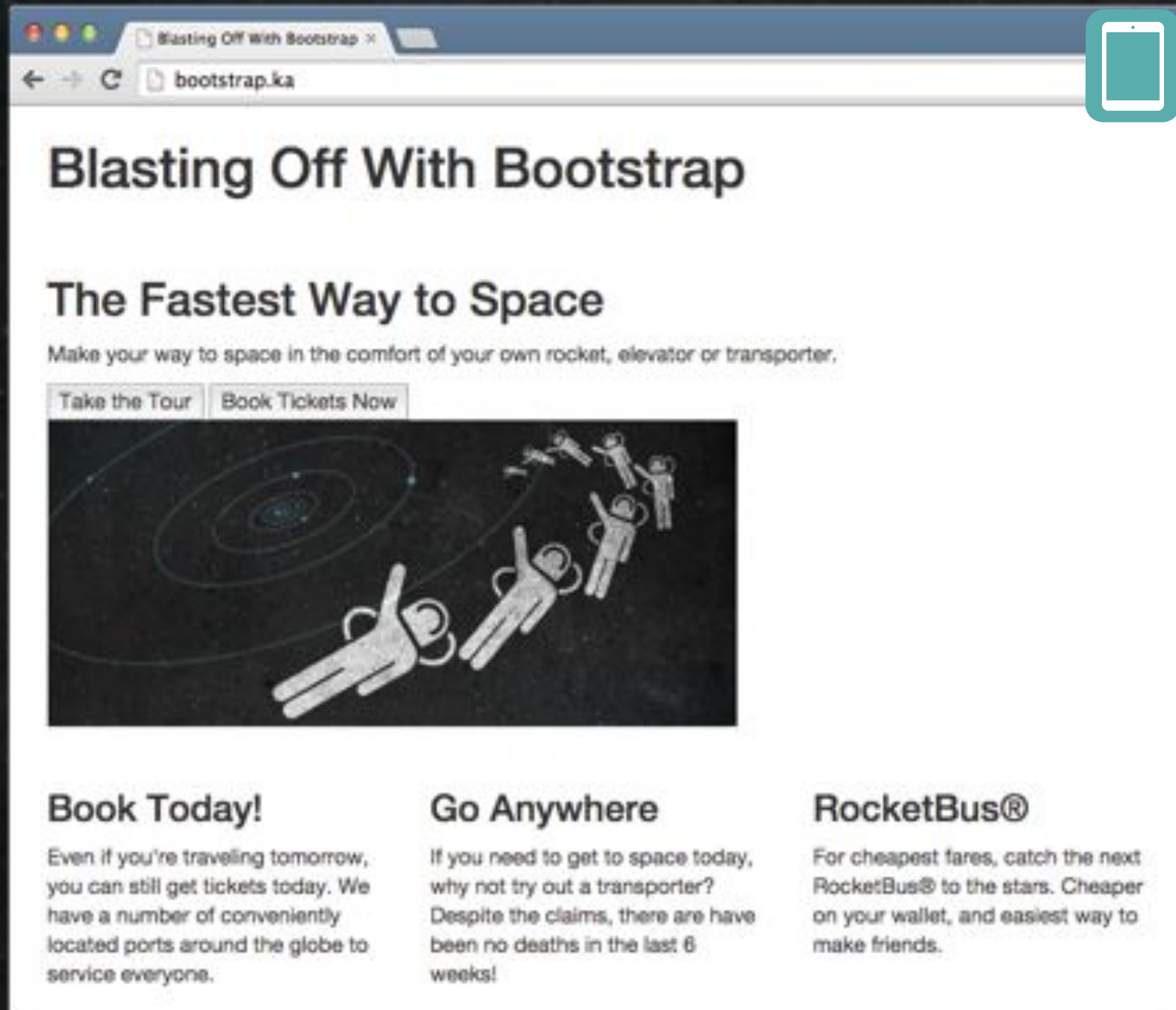
Feature Columns in Medium Sized Screens



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



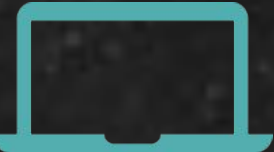


What about below 768px?
Here's our phone view,
called "extra small" mode.

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

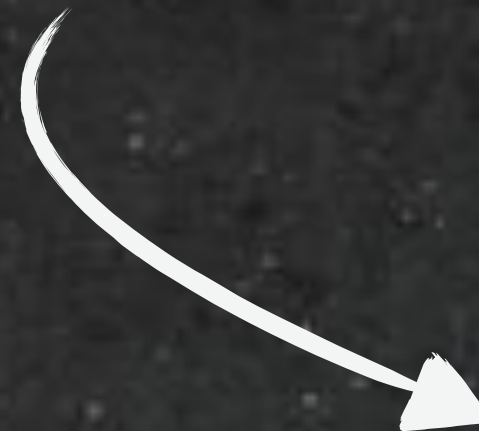
We could use the extra small grids, but there's a better way.

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

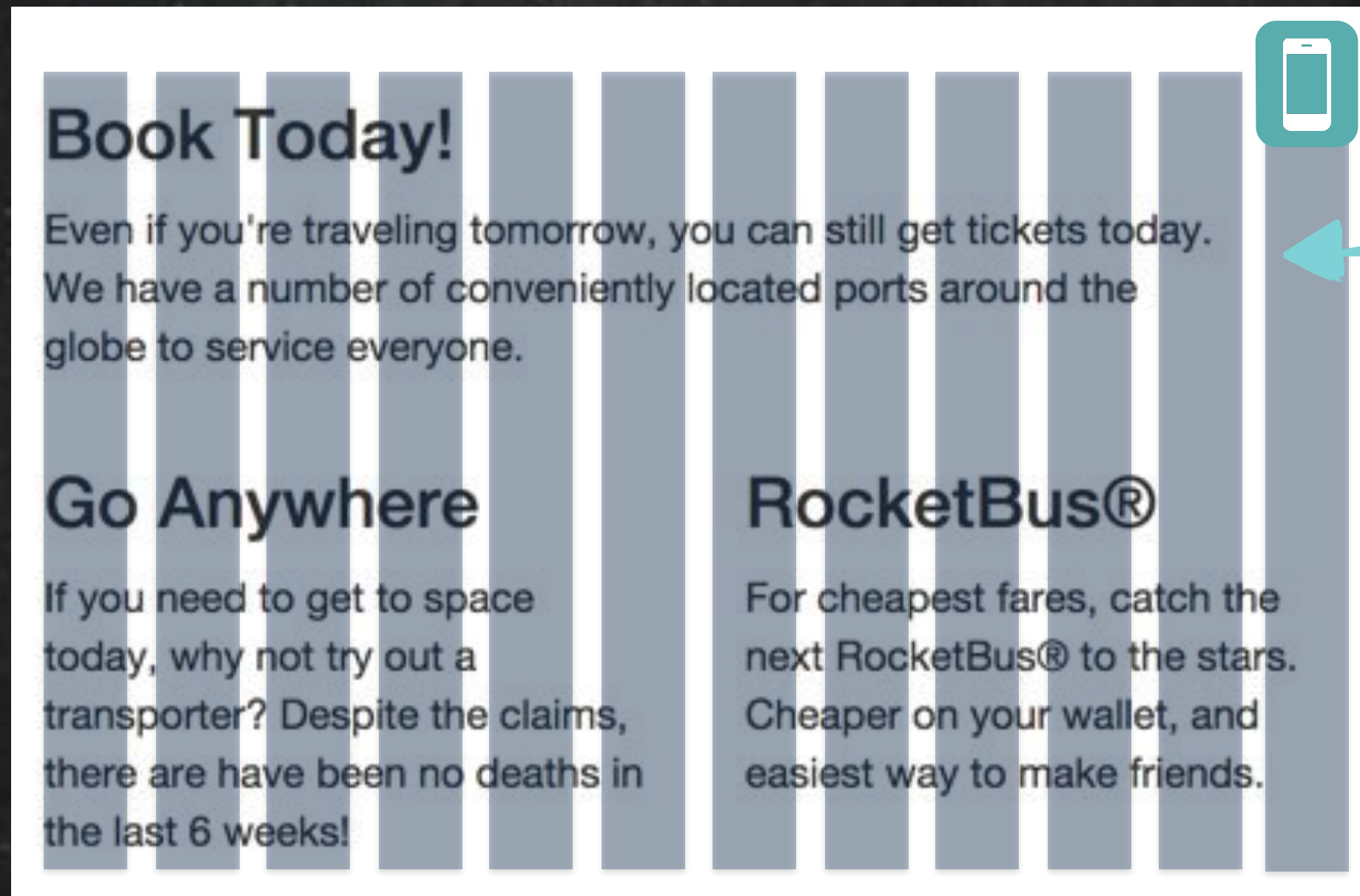


The other two features will take up 6 columns, and be below "Book Today".



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</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!

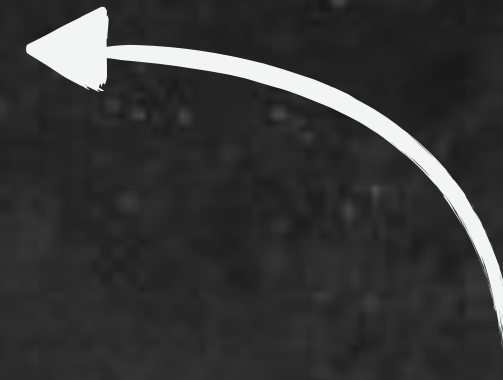

Even if you're traveling tomorrow, you can still get tickets today. We have a number of conveniently located ports around the globe to service everyone.

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!

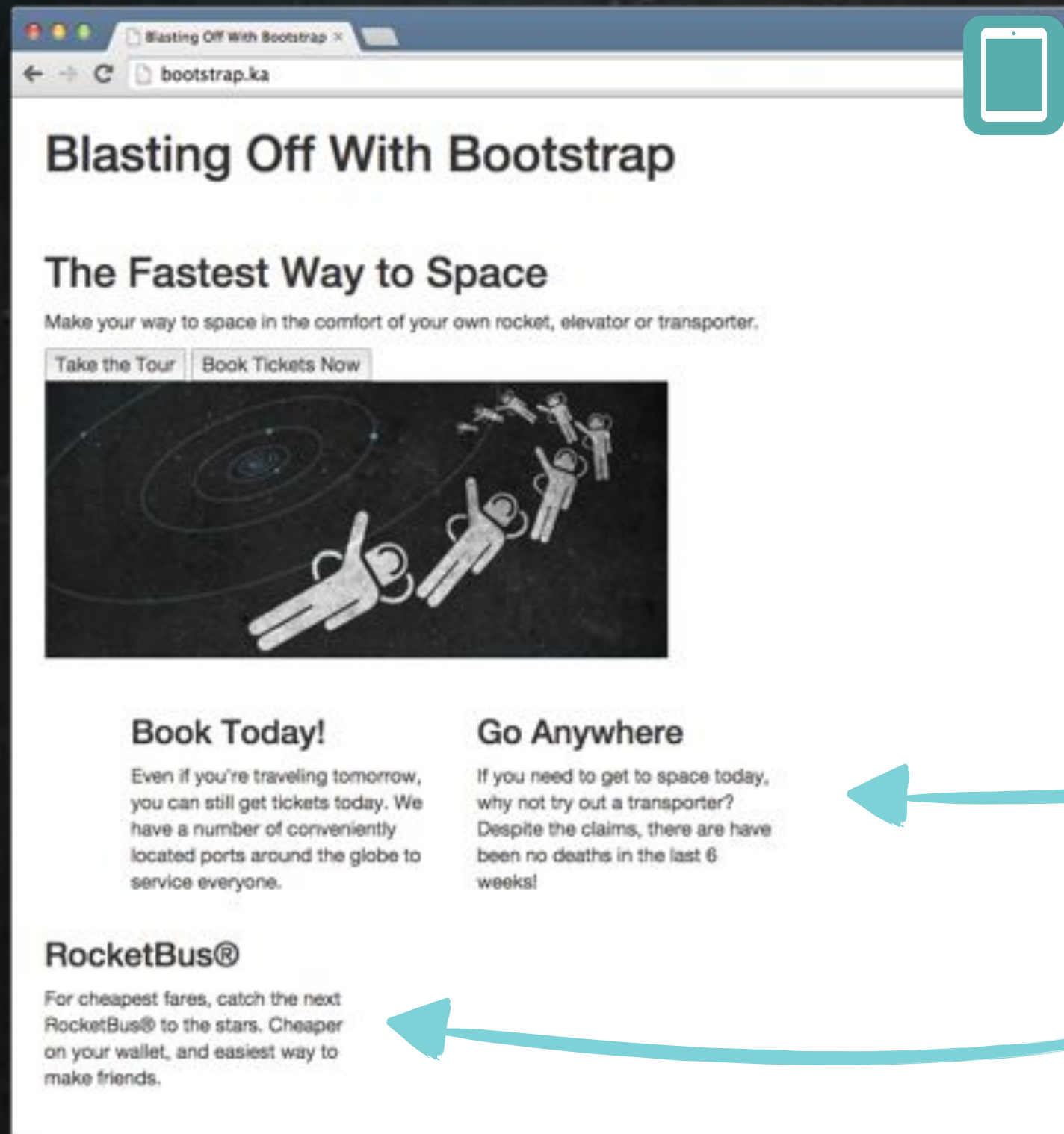
RocketBus®

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

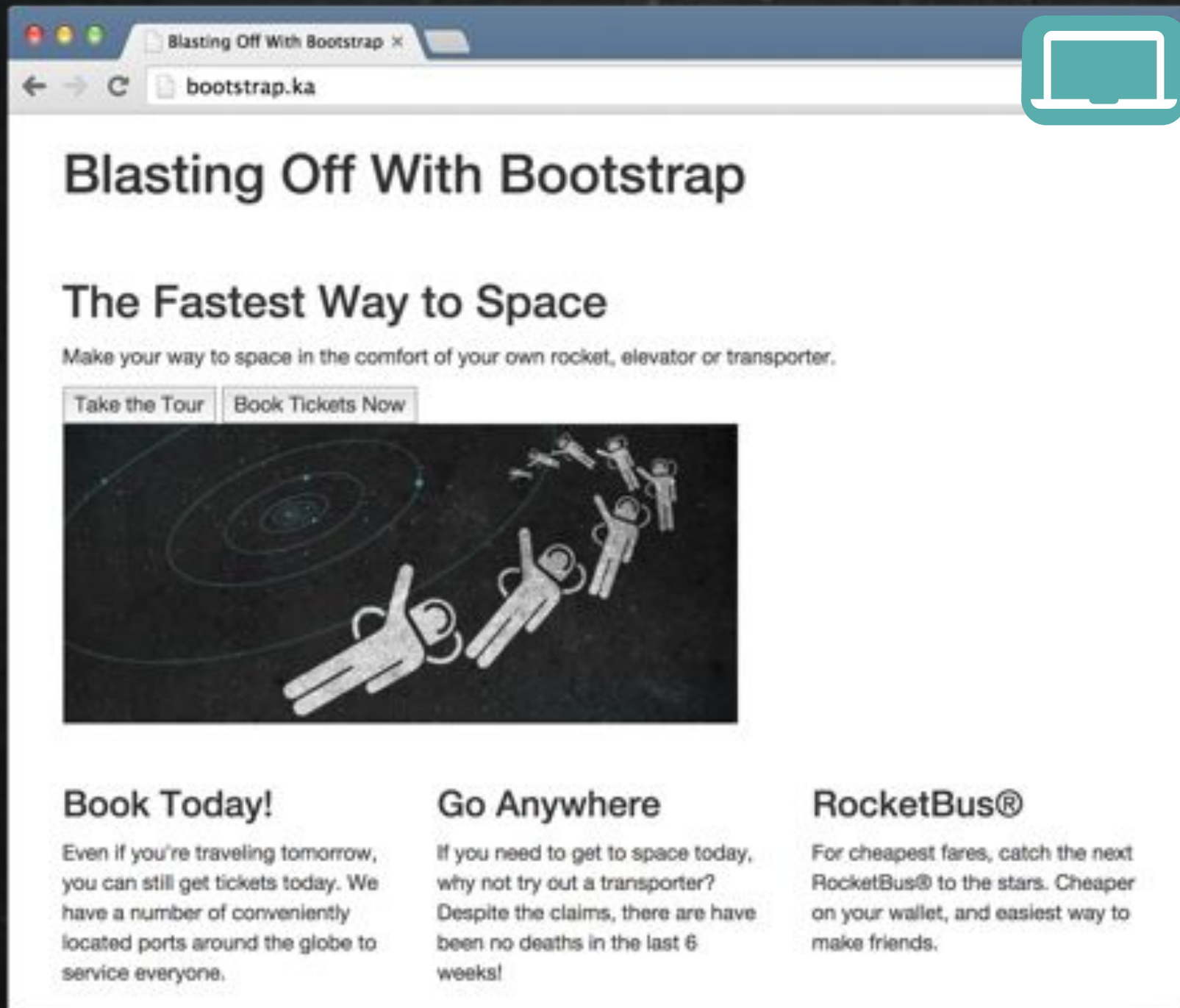
```
<div class='row'>
  <div class='col-sm-4 col-xs-10 col-xs-offset-1
    col-sm-offset-0'>
    <h3>Book Today!</h3>
  </div>
  <div class='col-md-3 col-sm-4 col-xs-6'>
    <h3>Go Anywhere</h3>
  </div>
  <div class='col-md-3 col-sm-4 col-xs-6'>
    <h3>RocketBus&reg;</h3>
  </div>
</div>
```



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

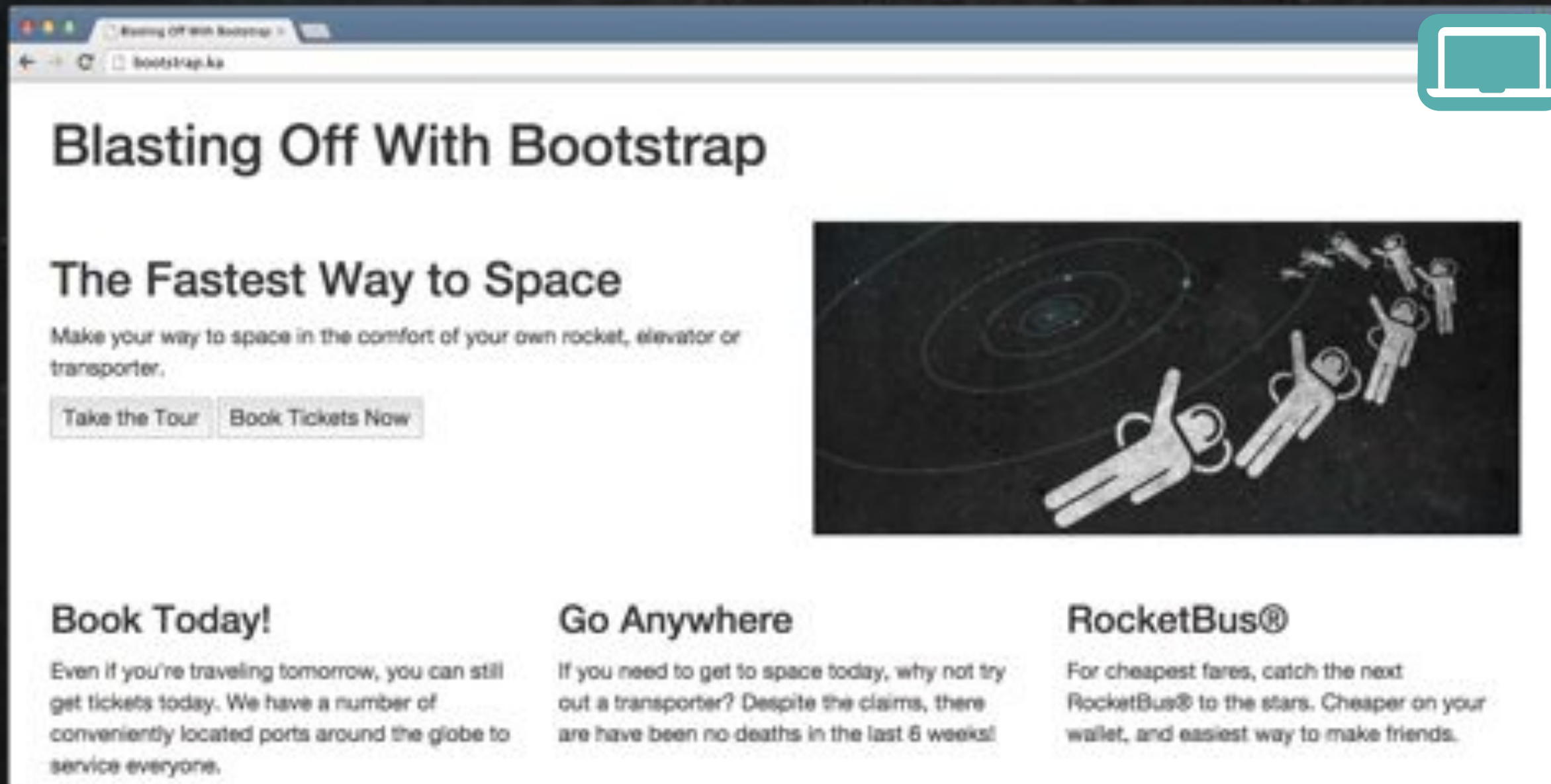


Very Large Screens

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

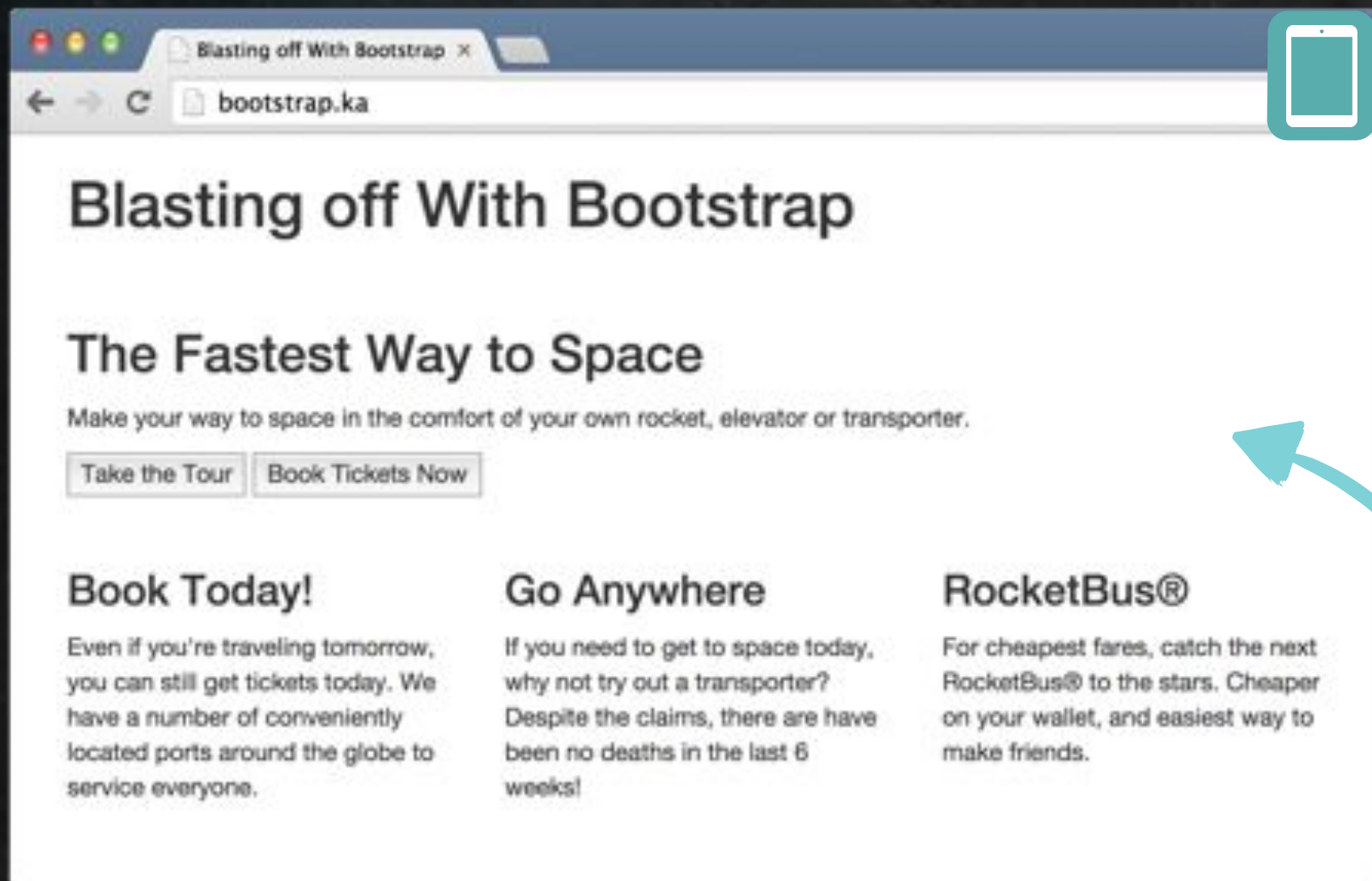
.hidden-md

.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`

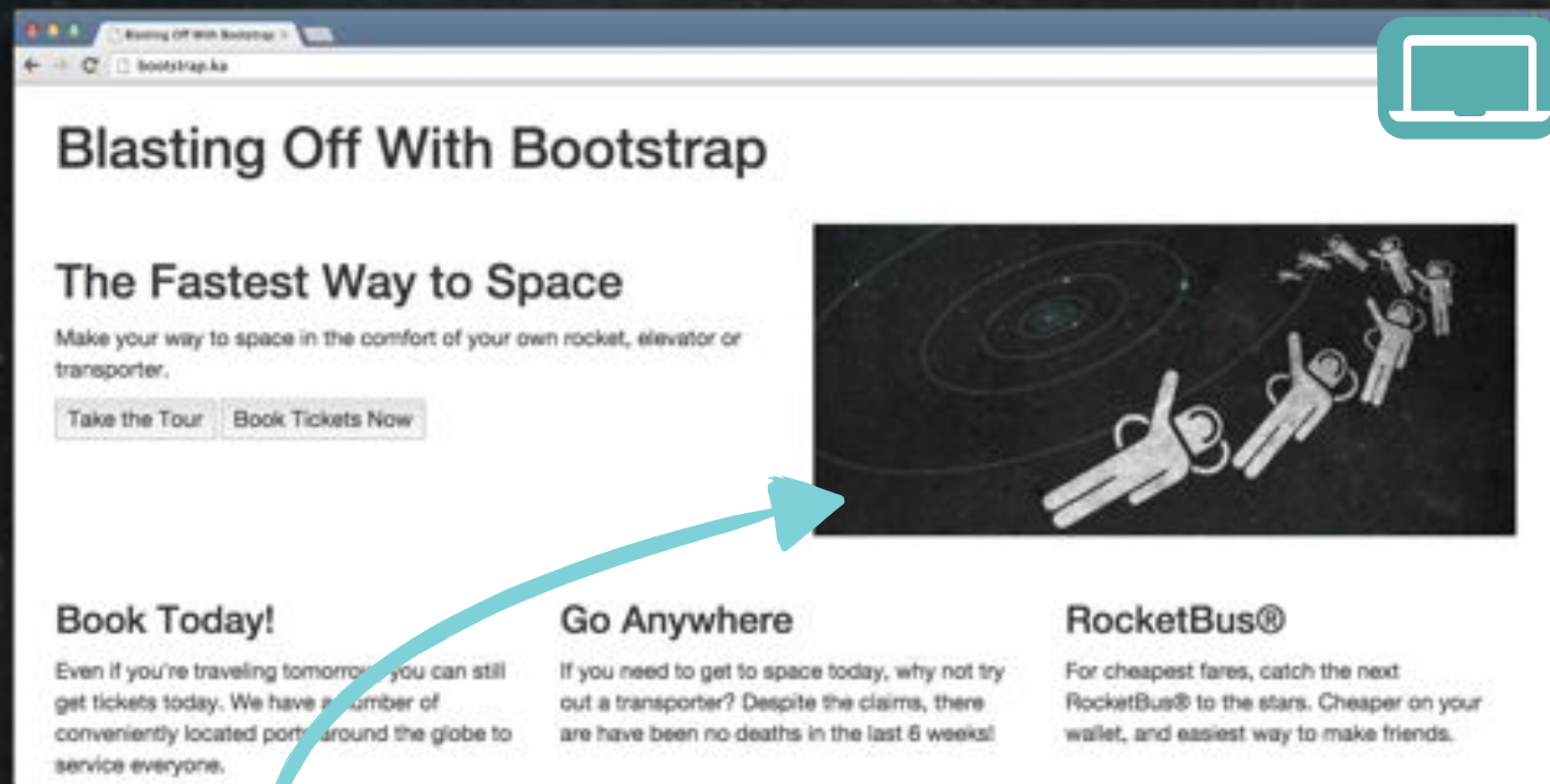
`.visible-md`

`.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.