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# Blasting Off

with Bootstrap



# Thinking In Grids

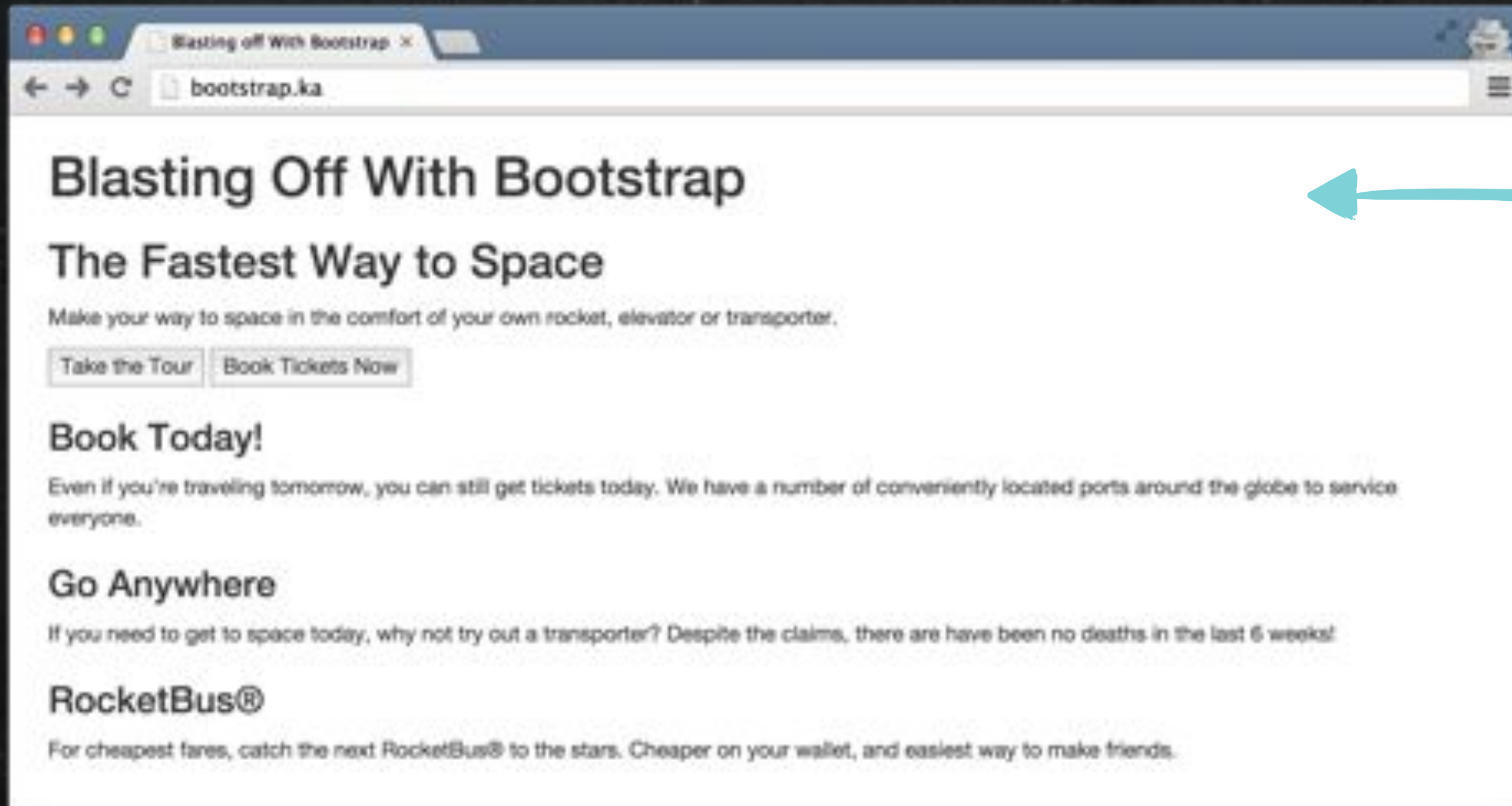
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Level 2, Section 1



# Our Site Wrapped in a .container

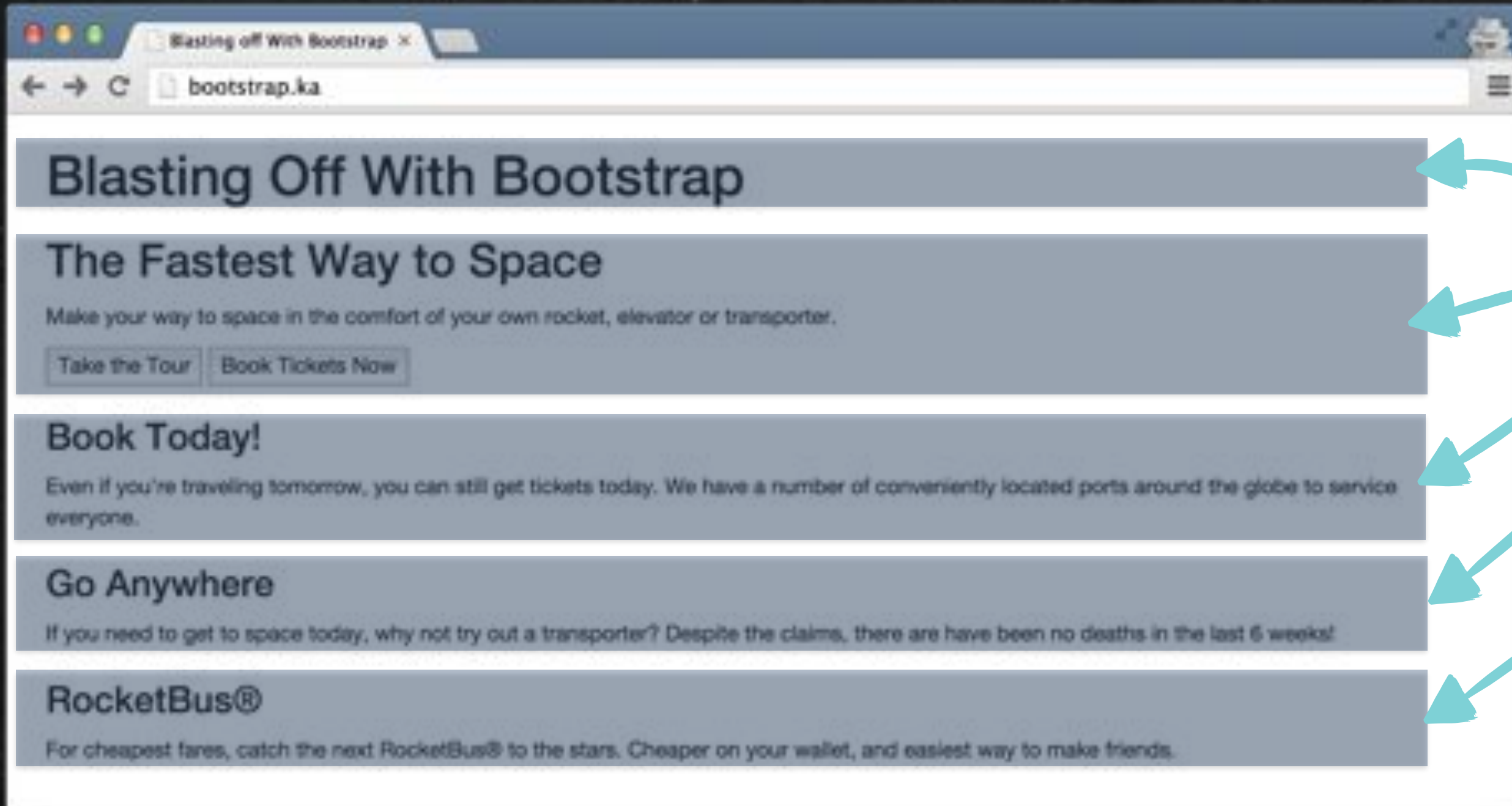
So far we've learned how a `.container` class helps structure our content.



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

# Site Structure: Rows

Rows are horizontal groupings of data

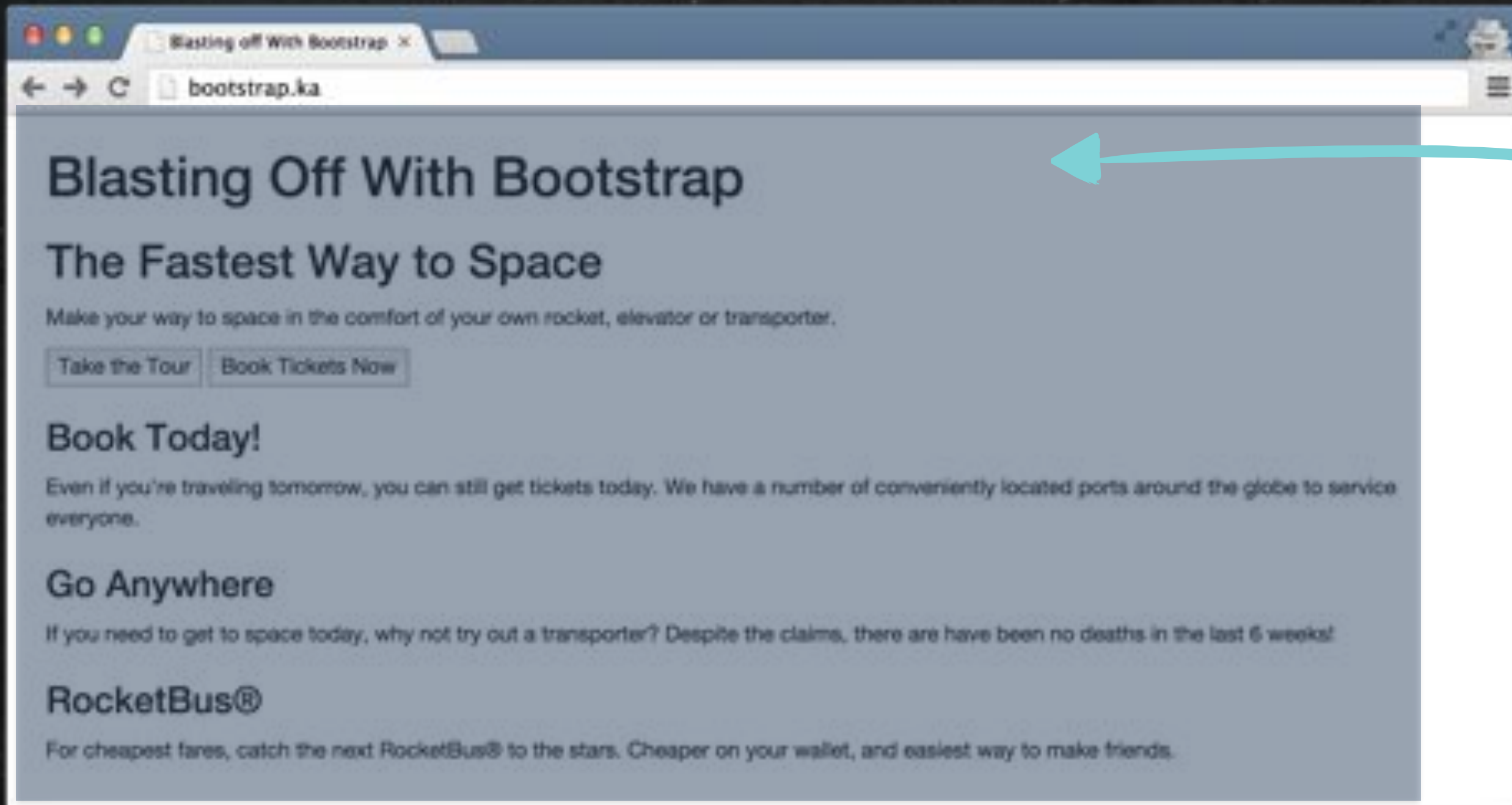


our site has 5  
rows of data



# Site Structure: Columns

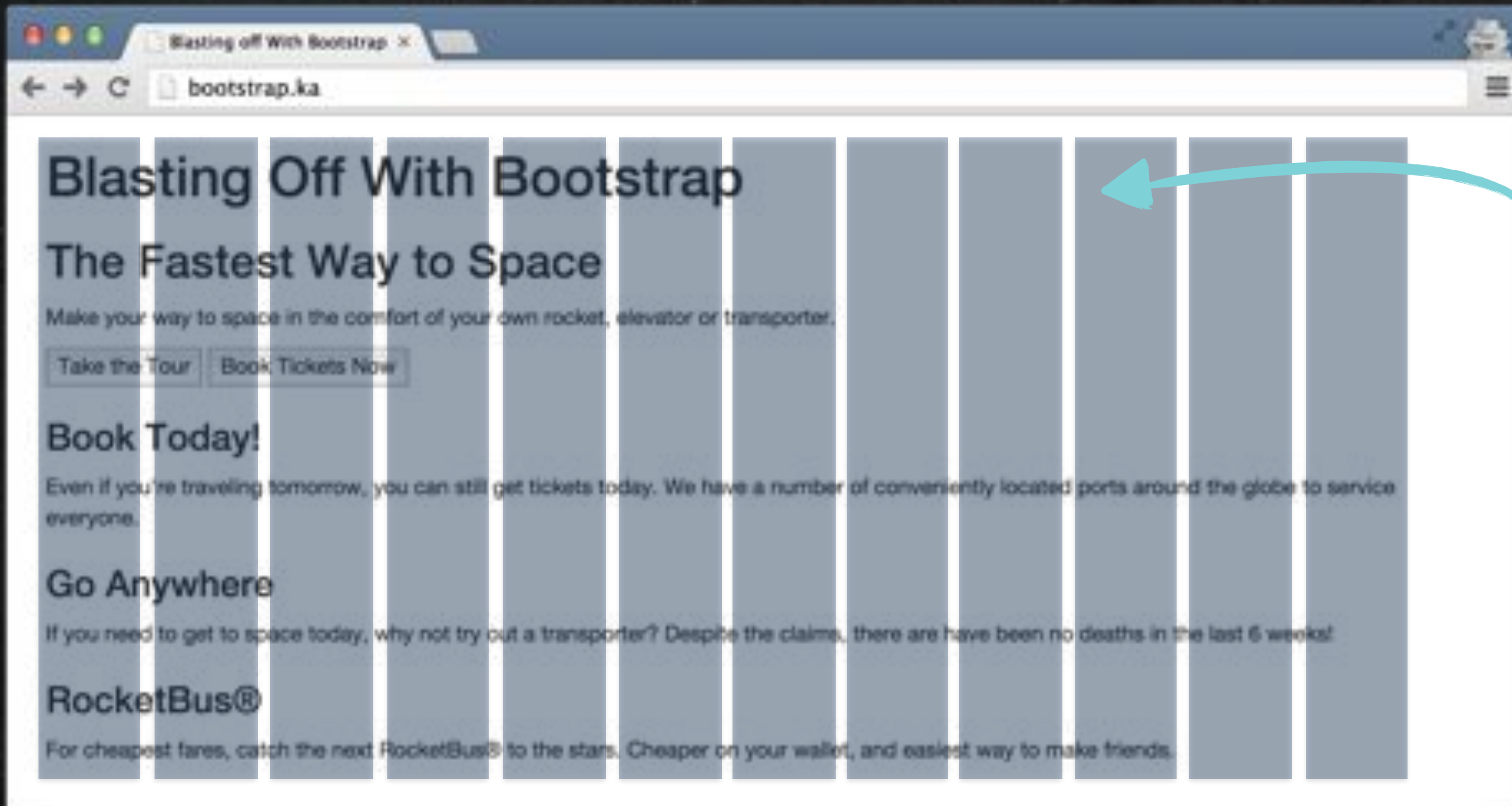
Columns are vertical groupings of data



our site has  
one conceptual  
column right  
now

# Multiple Columns

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



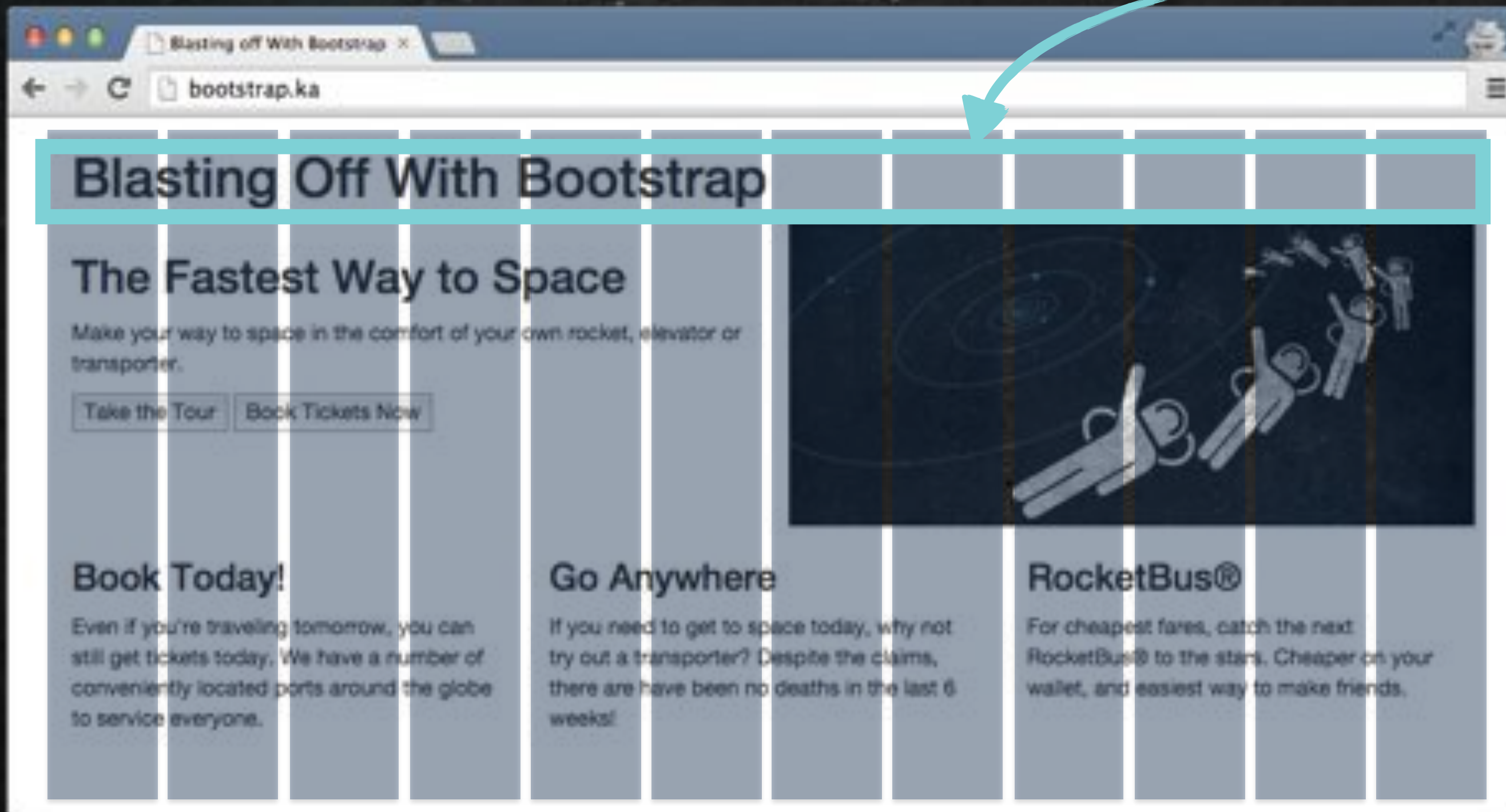
We can use  
all or some  
columns.  
We're using  
all



# Our Header in a Grid

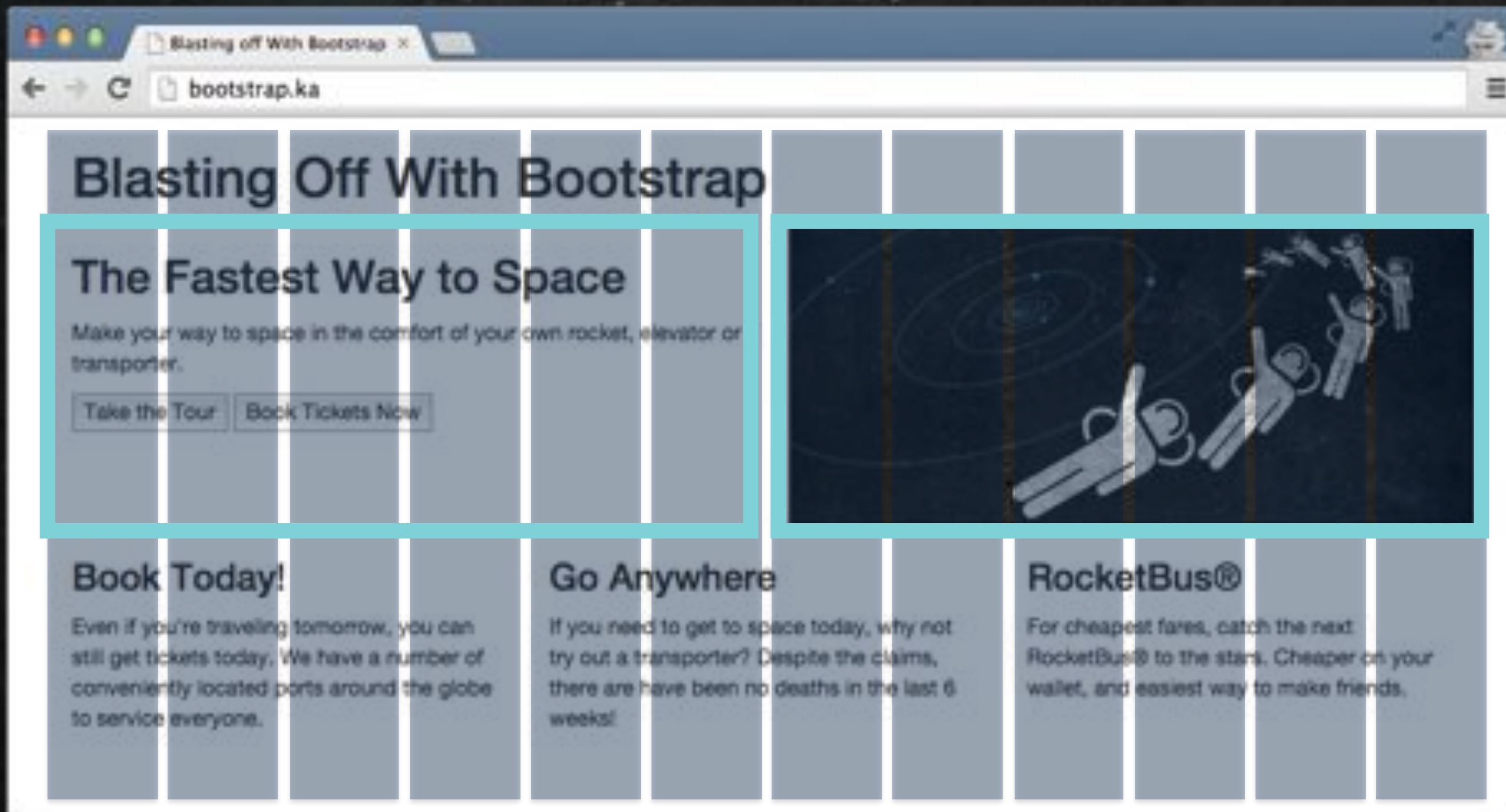
Elements can span all columns in our grid

Title spans 12 columns



# Taking Up Half the Page

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

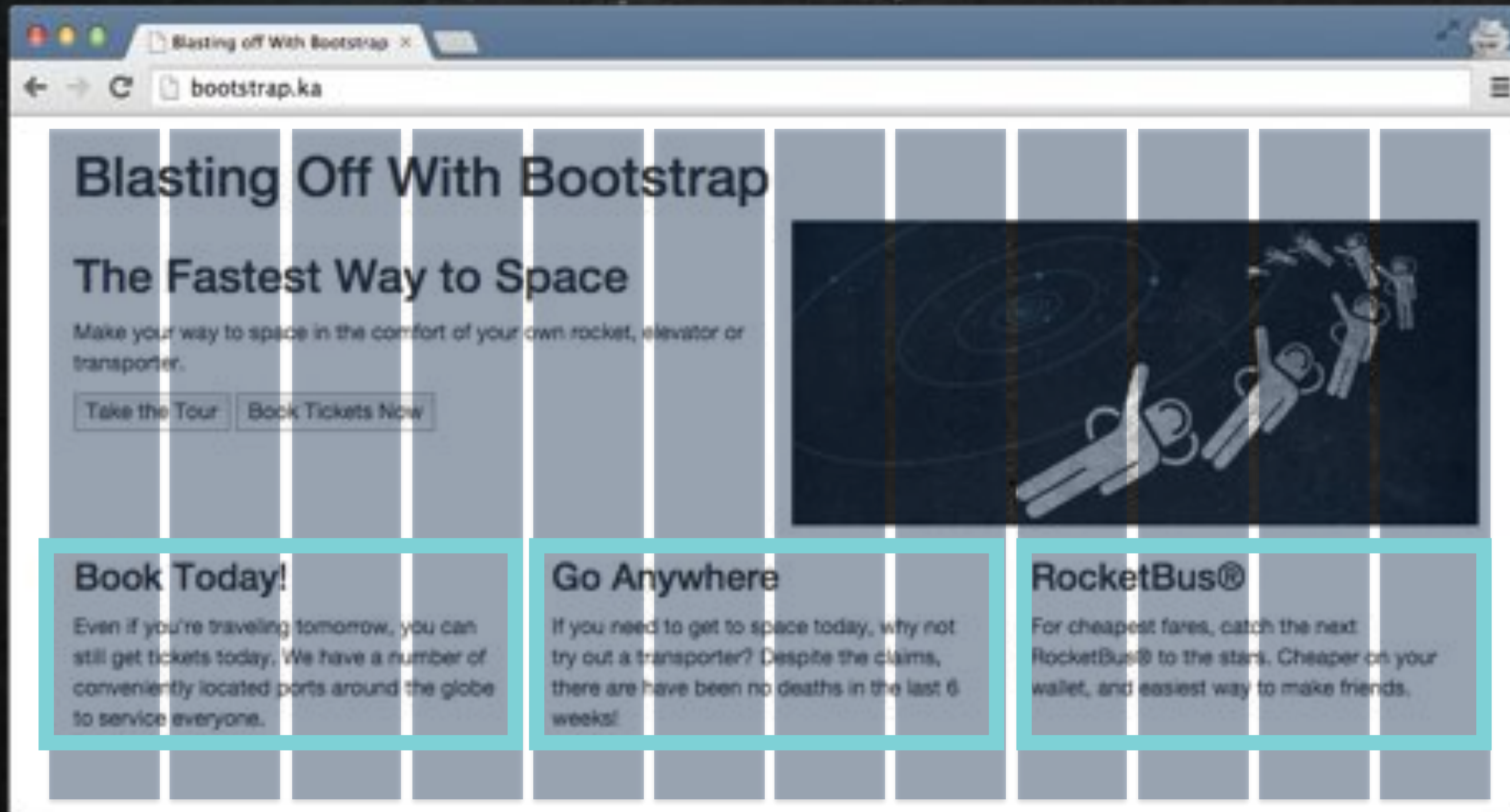


Lead & Image  
both span 6  
columns



# Getting Even Smaller

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

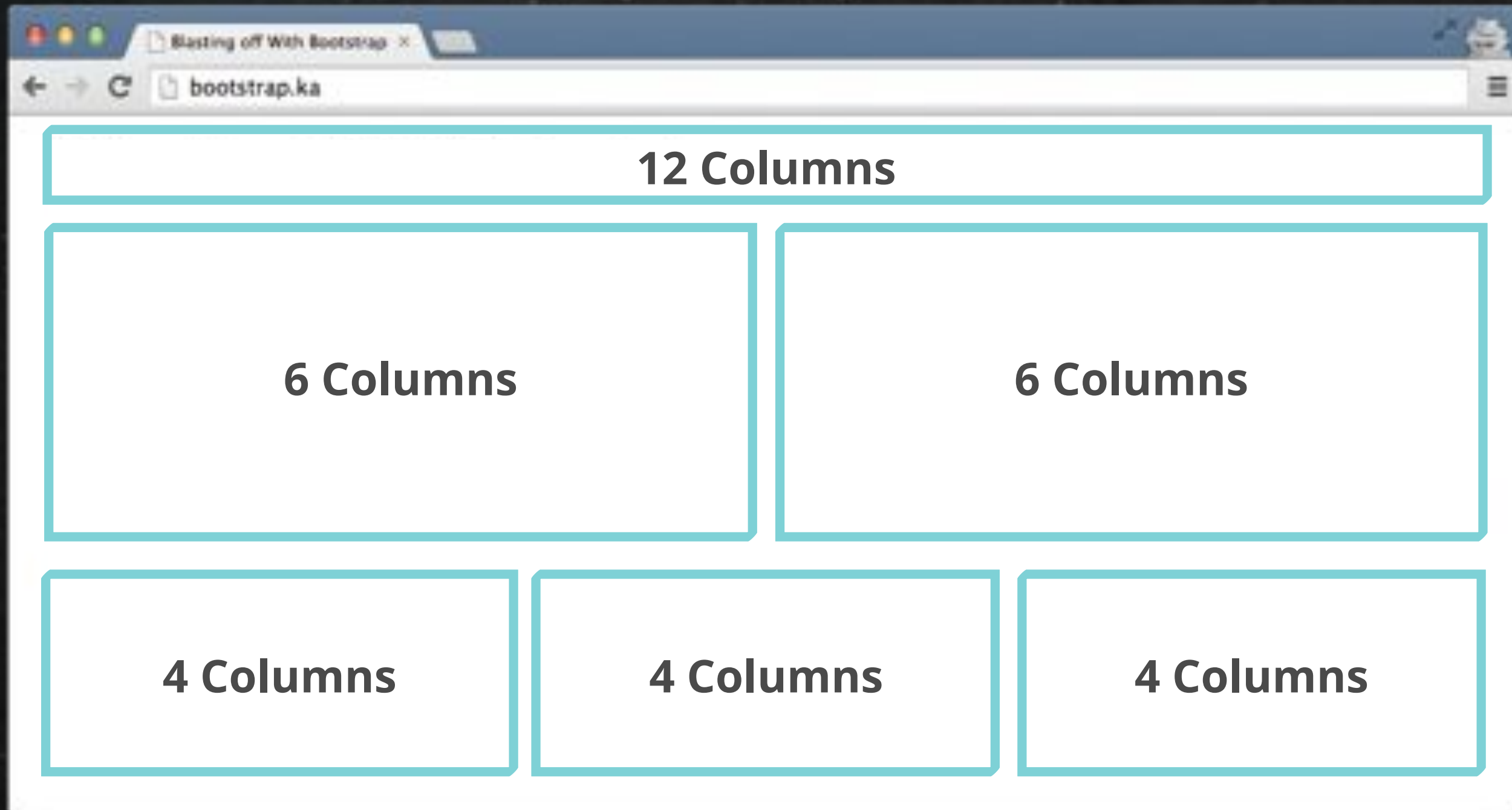


Features each  
span 4 columns



# Wire framing our Grid Design

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



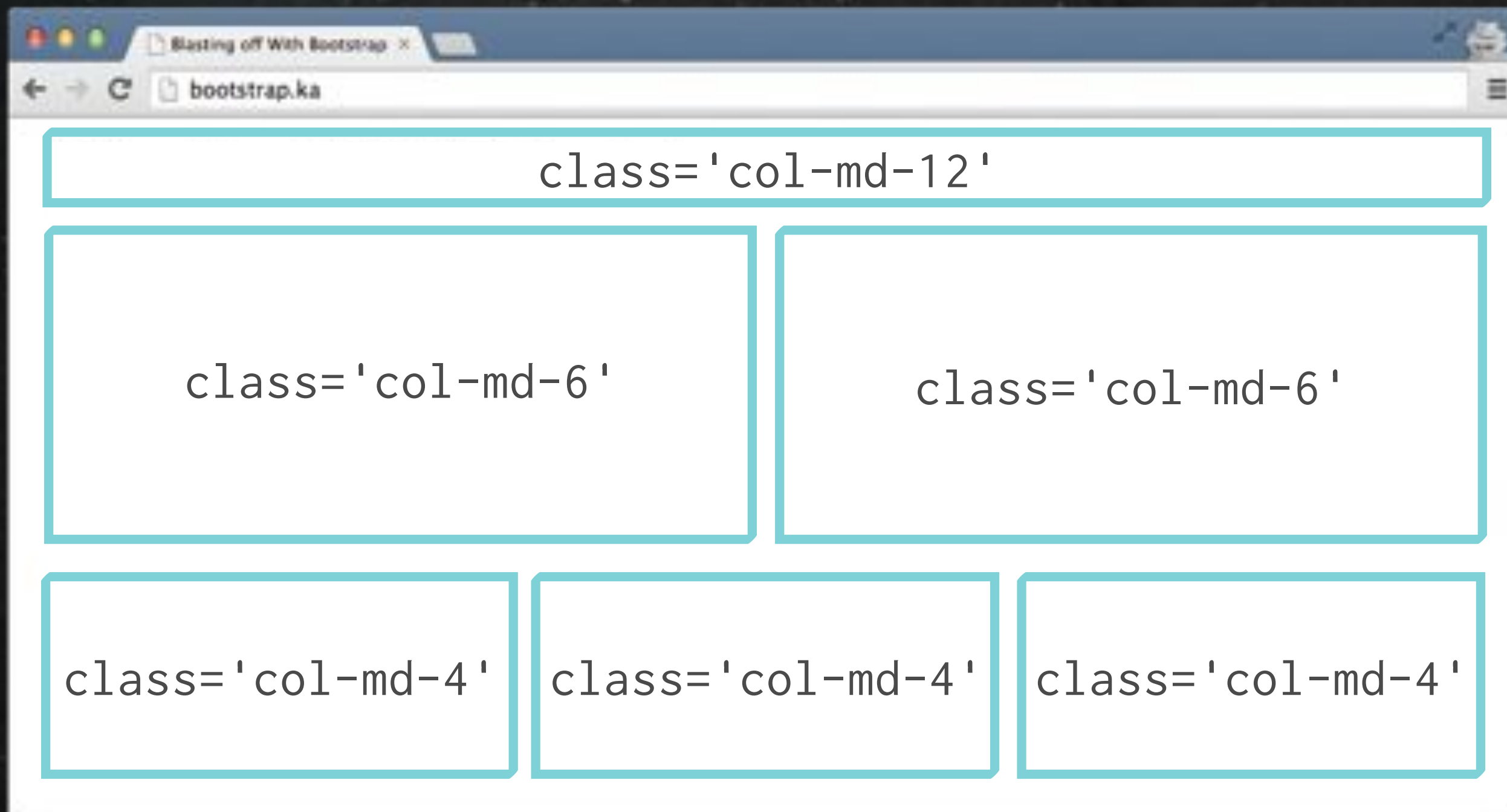
columns add up  
to 12 per row





# 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

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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

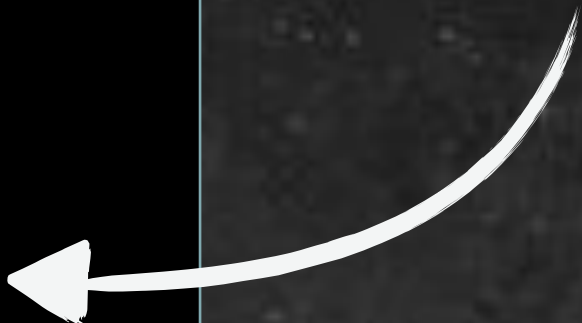
It's difficult to know when a new row starts without doing math.

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 includes a large image of people in space. The footer contains the text 'Blasting Off with Bootstrap' and a row of social media icons. Annotations on the right side highlight the use of rows, with a green checkmark and arrows pointing to the header, the main content area, and the footer.

Annotations:

- ✓ (Green checkmark)
- 3 rows of content

# 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>
```



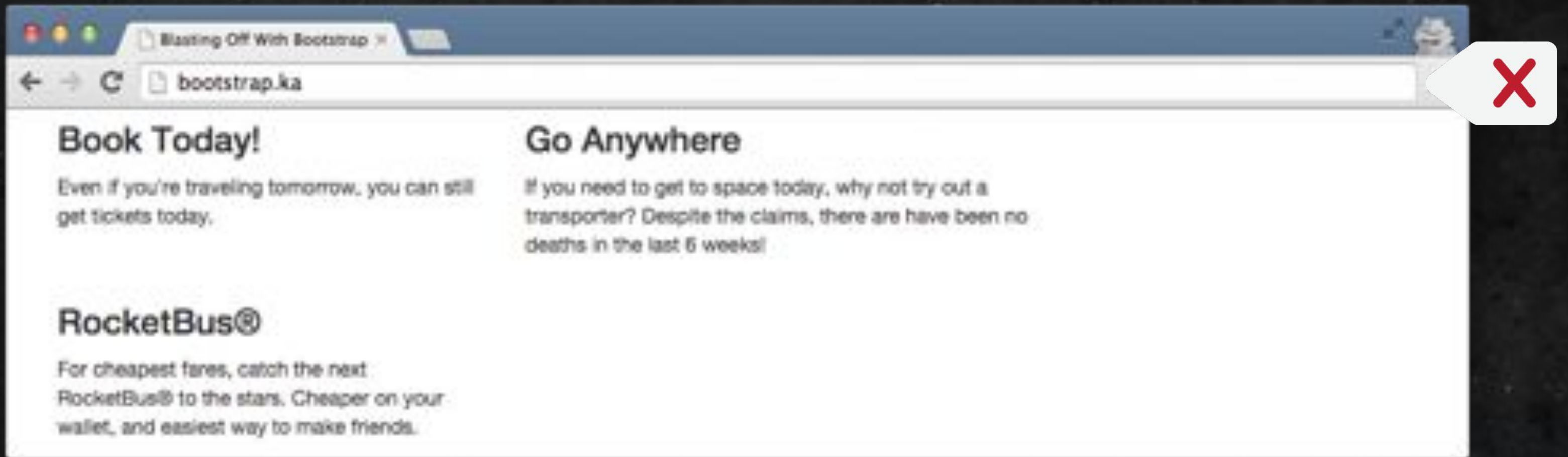
what would this look  
like in a browser?





# Multiple Rows

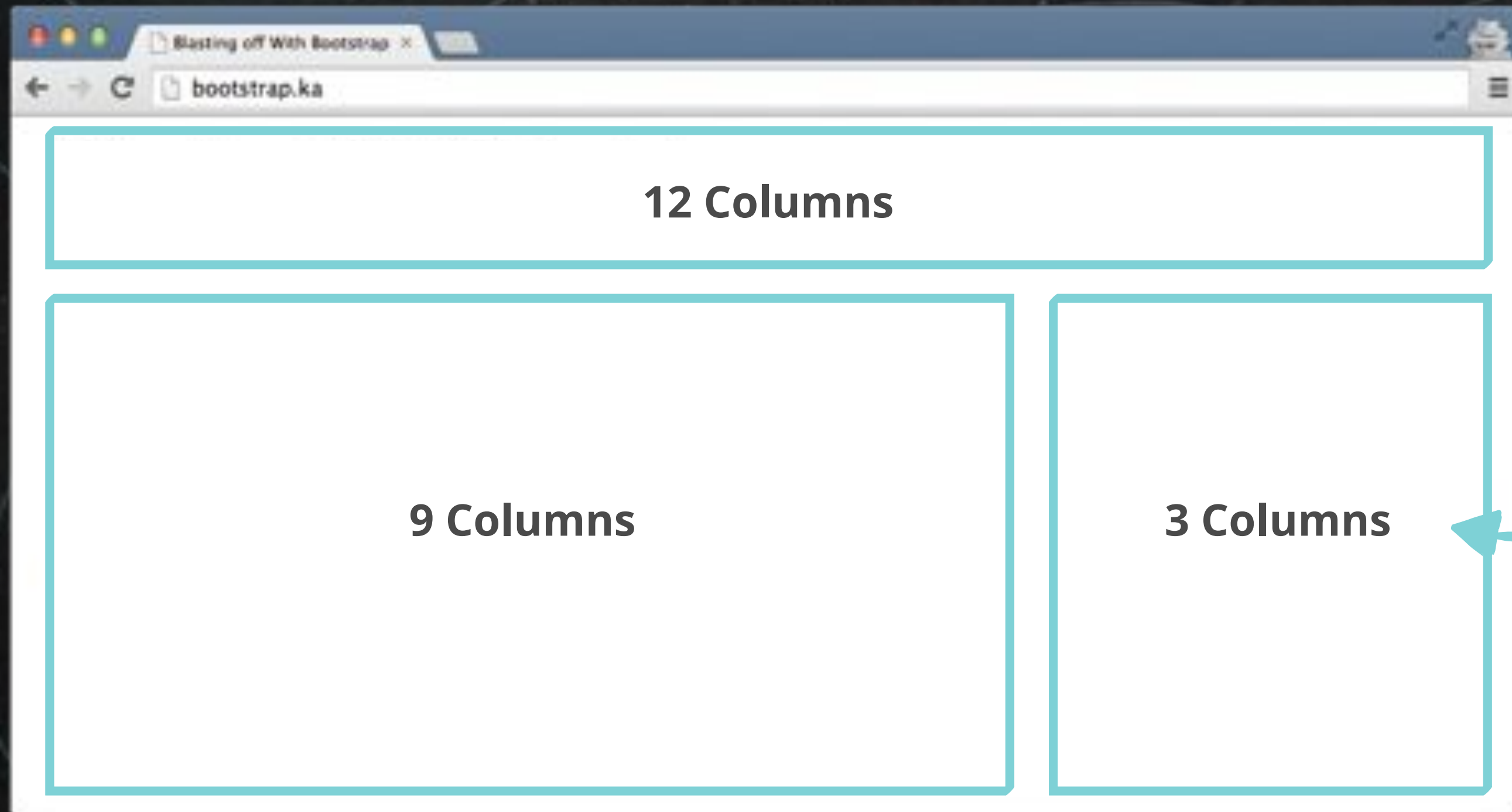
Our last featured item doesn't have enough space and moves onto its own row



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

# Designing With Grids

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

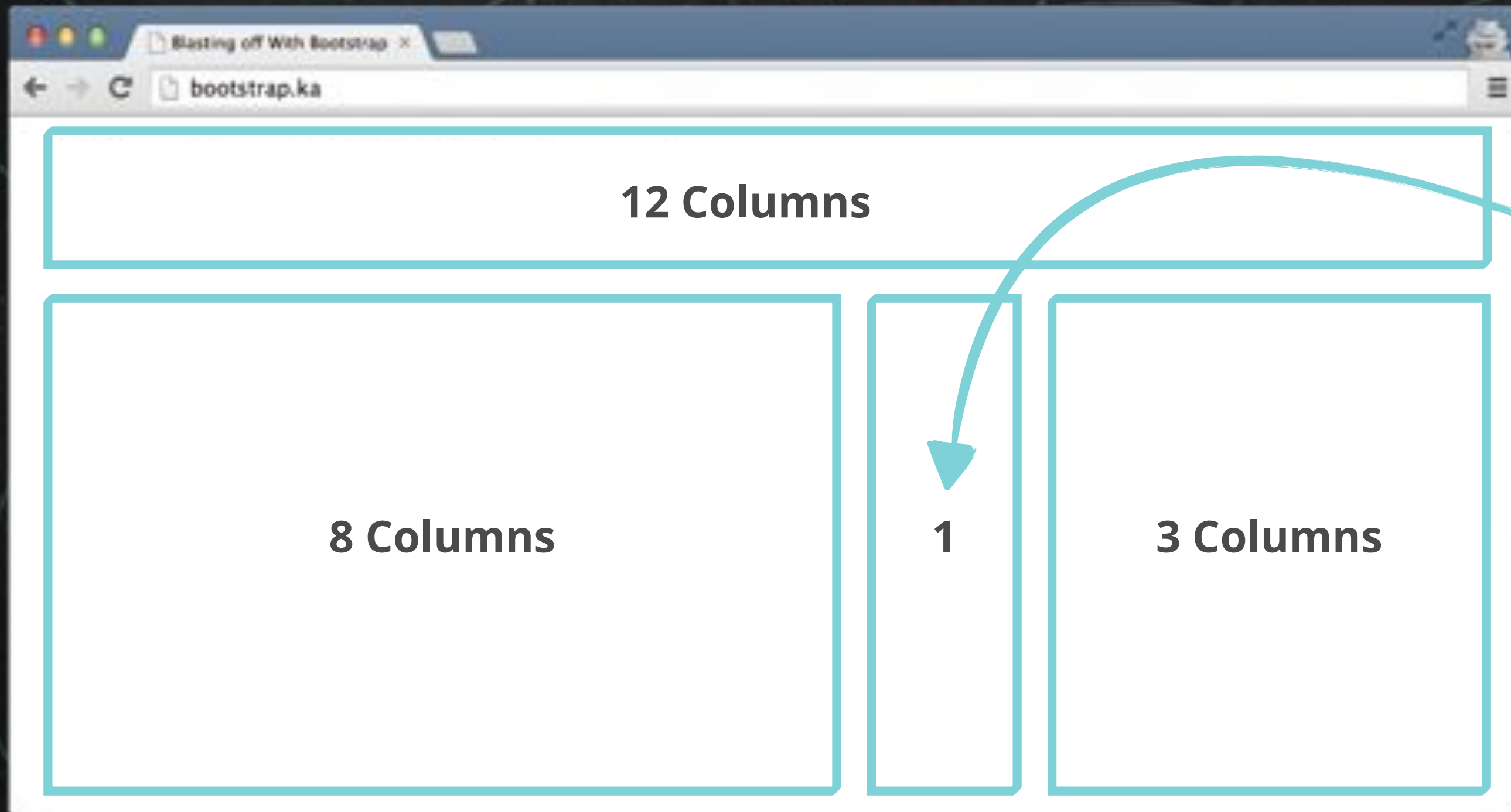


9/3 is good for  
blogs with  
sidebars



# 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

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Level 2, Section 1