FORMS & BOOTSTRAP

WEEKLY OVERVIEW

WEEK 4 Forms & Bootstrap / Intro to JavaScript

WEEK 5 jQuery Basics / jQuery Part II

FORM BASICS

FORM BASICS

LEARNING OBJECTIVES

- Be able to differentiate the different types of inputs and why/where we would use each
- Explain how to group elements by name.
- Integrate Bootstrap to create a multi-column layout

AGENDA

Review

Forms & Inputs

Lab

Bootstrap

HOMEWORK REVIEW

HOMEWORK — GROUP DISCUSSION



TYPE OF EXERCISE

• Groups of 2-3

TIMING

10 min

- 1. Pick someone to take notes for your group.
- 2. Share 1 thing you're excited about being able to accomplish. Focus on the positives!
- 3. Have each person in the group note 1 thing they found challenging for the assignment and make note. Discuss as a group how you think you could solve that problem.
- 4. Discuss the bonus tasks (hover effect with smooth transition, fixed background, sticky nav, image hover, jump links, masonry layout for gallery). If anyone in your group was able to tackle one of these, share!

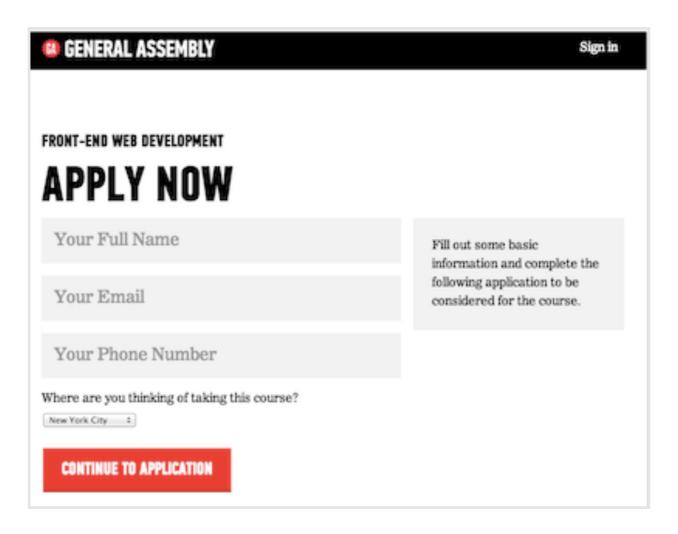
FORM BASICS

FORMS AND INPUTS

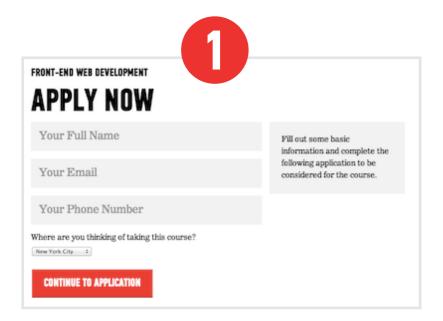
FORM BASICS

FORM BASICS

How we get data from users

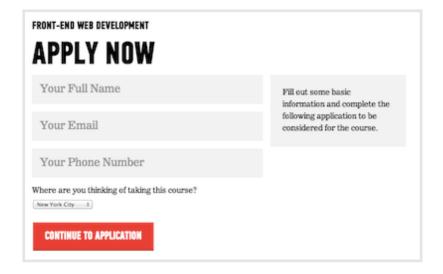


1. The user fills out the form and presses the submit button

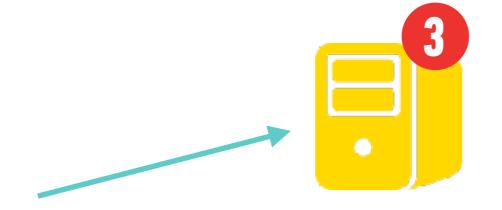


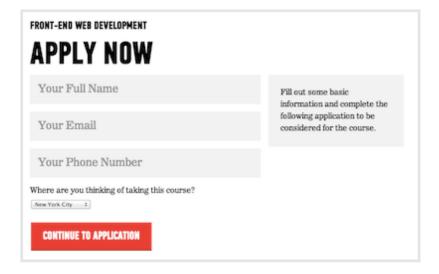
2. The **name** of each form field is sent to the server along with the **value** the user entered or selected





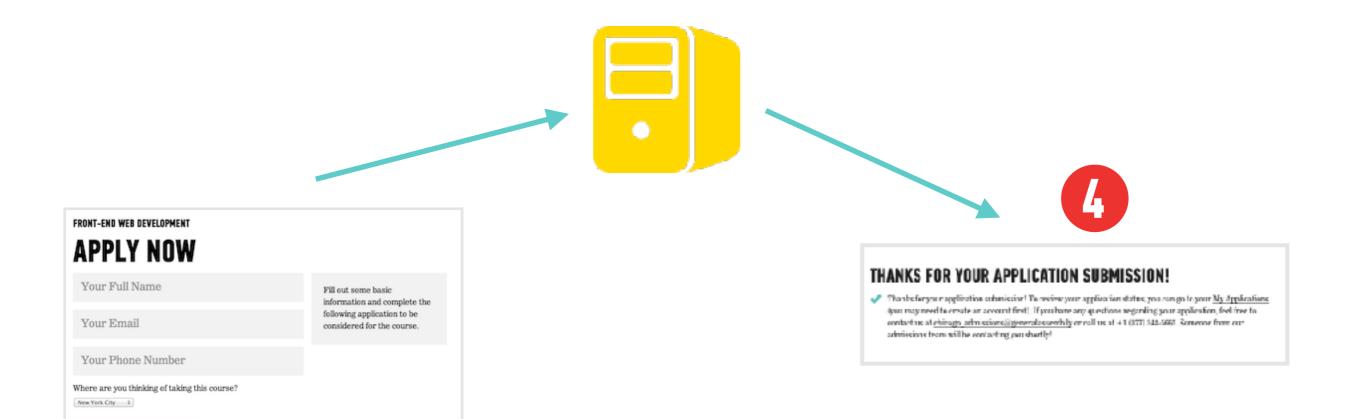
3. The server processes the data using a language such as PHP, C# or Java. It may also store the information in a database





CONTINUE TO APPLICATION

4. The server creates a new page to send back to the browser based on the information received.



- ▶ Form controls live inside the form element.
- ▶ The entire form (all the fields you want to be submitted together) go within the form element.

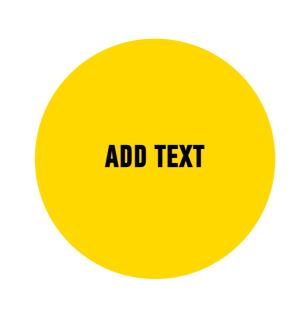
```
<form>
  <!--Data collection elements go here-->
  </form>
```

FORM BASICS

GETTING INFORMATION FROM USERS

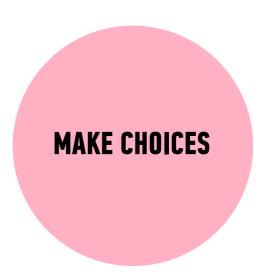
FORM — TYPES OF INPUTS





Your Email





Where are you thinking of taking this course?

Chicago

GETTING INFO — **INPUTS**

- ▶ Allow us to get content from users.
- ▶ Should live inside our form tags.

```
<form>
     <input type="text" name="fullName" placeholder="Enter your full name">
          <button type="submit">Continue</button>
          </form>
```

SUBMITTING A FORM





<button type="submit">Continue</button>

Continue

<input type="submit" value="Continue">

FIELD TYPE	HTML	ATTRIBUTES	WIDGET
Plain Text	<input type="text"/>	type, name, id, placeholder	Your Full Name
Password	<pre><input type="password"/></pre>	type, name, id, placeholder	•••••
Email	<input type="email"/>	type, name, id, placeholder	Your Email
Text Area	<textarea></textarea>	name, id, placeholder	ű

ATTRIBUTE	HTML EXAMPLE	DESCRIPTION
type	type="text"	The type of data that is being input. Examples: text, email, password, checkbox, radio
name	name="username"	The key used to describe this data in the HTTP request.
id	id="message"	The unique identifier for the element (will match the label)
placeholder	placeholder="Full Name"	A "prompt" for an input letting the user know what to enter into the field.

ALL TOGETHER NOW! EXAMPLES

ADD TEXT

```
<input type="text" name="username" placeholder="Your Full Name" id="full-name">
```

```
<input type="email" name="email-address" placeholder="Your Email" id="email-address">
```

<input type="password" name="user-password" id="password">

ALL TOGETHER NOW! EXAMPLES

ADD TEXT

<textarea name="message" id="user-message" placeholder="Message"></textarea>

STYLING INPUTS

Want an easy way to style inputs in your CSS without adding a bunch of ids or classes to each one? The attribute selector is just the ticket!

```
input[type="text"] {
   border: 1px solid grey;
}
```

```
input[type="password"] {
   border: 1px solid grey;
}
```

ACTIVITY



KEY OBJECTIVE

▶ Identify input types, add styles to a form

TYPE OF EXERCISE

Individual/partner

TIMING

15 *min*

- 1. In the contact_form folder, review contact_form.png
- 2. Write html for contact form
- 3. Style the form

BONUS

- ▶ Style the placeholder text. You'll need to Google this! "Style placeholder text CSS"
- Add a hover effect to the button!

LABELS

Information about the input field should be put in a <label> tag:

```
<label for="yourName">Name</label>
<input type="text" name="name" id="yourName">
```

To tie the two together:

```
<label for="yourName">Name</label>
<input type="text" name="name" id="yourName">
```

Note: Clicking the label text places the focus in the input field (great for radio buttons)

FIELD TYPE	HTML	ATTRIBUTES	WIDGET
Checkbox	<pre><input type="checkbox"/></pre>	type, name, id, checked	Remember me
Radio	<input type="radio"/>	type, name, id, value, checked	© Red © Green

ATTRIBUTE	HTML EXAMPLE	DESCRIPTION
type	type="text"	The type of data that is being input. Examples: text, email, password, checkbox, radio
name	name="username"	The key used to describe this data in the HTTP request.
id	id="message"	The unique identifier for the element (will match the label)
value	value="Green"	For radios, the value that should be sent to the server

ALL TOGETHER NOW! CHECKBOXES

MAKE CHOICES

<input type="checkbox" name="store_credentials" id="credentials">

RADIO BUTTONS

MAKE CHOICES

We can connect radios together by giving them the same name attribute

```
<input type="radio" name="color">
<input type="radio" name="color" checked="checked">
```

FIELD TYPE	HTML	ATTRIBUTES	WIDGET
Select	<pre><select name="referral"> <!-- options go here--> </select></pre>	name, id	Where are you thinking of taking this course? Chicago
Option	<pre><option>Friend</option></pre>	value	Atlanta Austin Boston ✓ Chicago Hong Kong London Los Angeles Melbourne New York City San Francisco Seattle Sydney Washington D.C.

```
<select name="referral">
  <option value="friend">Friend</option>
  <option value="instructor">Instructor</option>
  <option value="online">Online</option>
  </select>
```

Where are you thinking of taking this course?

Chicago

Atlanta
Austin
Boston

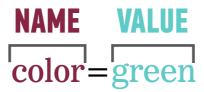
✓ Chicago

Hong Kong
London
Los Angeles
Melbourne
New York City
San Francisco
Seattle
Sydney
Washington D.C.

NAME/VALUE PAIRS

▶ Information is sent from the browser to the server using name/value pairs.







ACTIVITY



KEY OBJECTIVE

Identify input types, add styles to a form

TYPE OF EXERCISE

Individual/partner

TIMING

5 min

1. In the application_form folder, review application_form.png and discuss with a partner

45 min

- 2. Write HTML for the form
- 3. Style the form with CSS. Focus on getting the form centered and getting the information on the right rows, and then add other styles if you have time.

BONUS

Research and implement the fieldset element

GRID SYSTEMS

INTEGRATING BOOTSTRAP

LAYOUT GRIDS

- Composition in any visual art is the placement or arrangement of visual elements
 - how they are organized on a page.
- Many designers use a grid structure to help them position items on a page.





BENEFITS OF GRID SYSTEM LAYOUTS

While grids might seem like a restriction at first, they have many benefits including:

- Creating continuity between different pages
- Helping users predict where they can find information on various pages
- Making it easier to add new content to the site in a consistent way
- Helping designers/developers collaborate in a consistent way



CSS FRAMEWORKS

CSS FRAMEWORKS PROVIDE CODE FOR COMMON TASKS, SUCH AS:

- Creating responsive layout grids
- Styling forms
- Styling UI elements, etc.

PROS:

- Save developers from repeatedly writing code for the same tasks
- Tested across various browsers
- Useful for rapid website development

CONS:

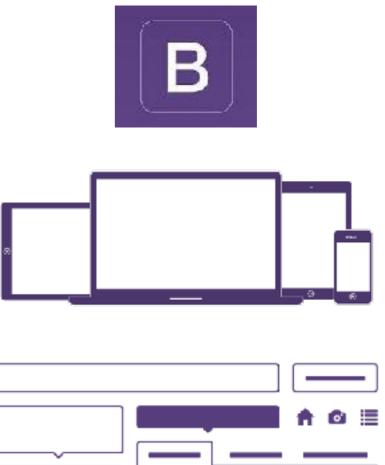
- Often require developers to use class names in HTML that only control the presentation of the page (rather than describe content)
- Often contain more code than you need for your particular page, creating "bloat"

HELLO BOOTSTRAP!

▶ **Bootstrap** is "the most popular HTML, CSS and JS framework for developing responsive, mobile first projects on the web."

FEATURES:

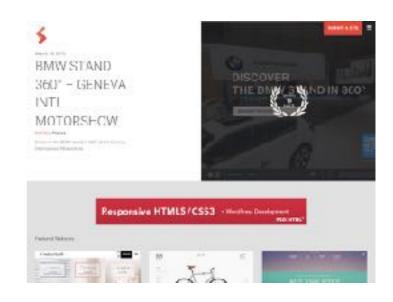
- 1. Grid system
- 2. Forms/buttons
- 3. Navigation
- 4. Tabs and pills
- 5. Alerts/error messages
- 6. Modals
- 7. And much more



SITES THAT USE BOOTSTRAP







And many, many more: **Bootstrap Expo**

BOOTSTRAP

GETTING STARTED

GETTING STARTED

- 1. Download Bootstrap <u>here</u>
- 2. Once downloaded, unzip and open folder in Finder. You'll see something like this:



3. We'll then need to add the files we want to use to our project and include those files in our HTML.

BOOTSTRAP

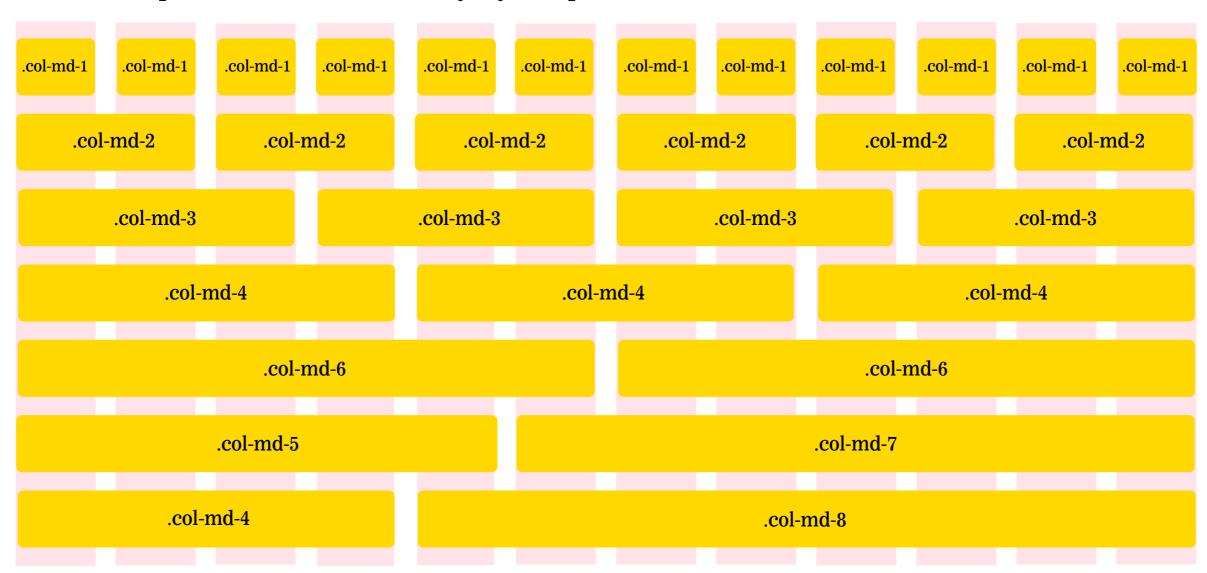
GRID SYSTEM

BOOTSTRAP — **GRID SYSTEM**

- Bootstrap includes a responsive, mobile-first fluid grid system that appropriately scales up to 12 columns as the device or viewport size increases.
- ▶ Page layouts are created through a series of rows and columns that house your content

BOOTSTRAP — GRID SYSTEM

• It includes predefined classes for easy layout options.



BOOTSTRAP — **SETTING UP GRID**

- 1. Add containing element to page
- 2. Add rows to create horizontal groups of columns
- 3. Place content within columns, specifying the number of twelve available columns you wish to span.

STEP 1 — CONTAINING ELEMENT

• Bootstrap requires a containing element to wrap site contents and house our grid system. You may choose one of two containers to use in your projects:

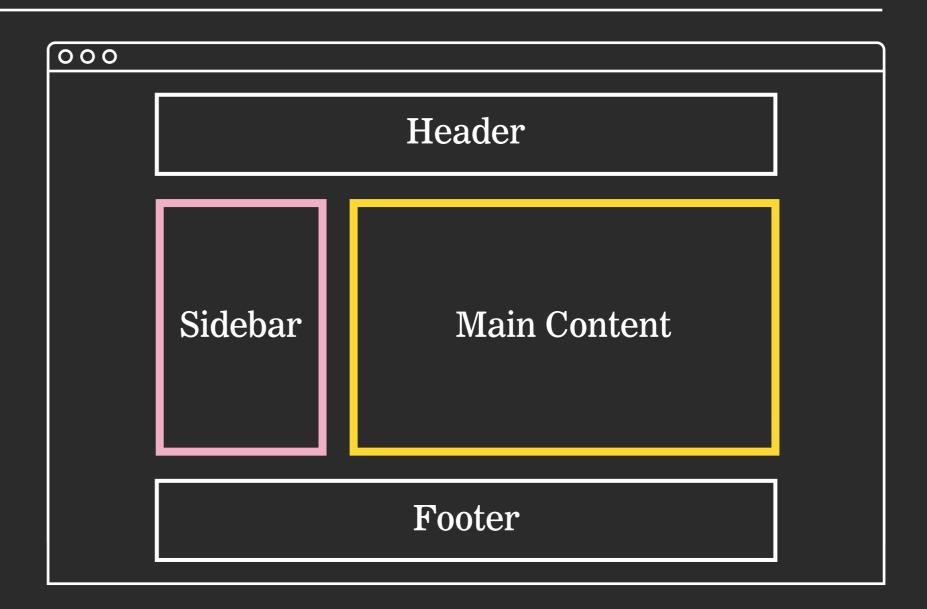
Use **.** container for a responsive fixed width container.

```
<div class="container">
</div>
```

Use **container-fluid** for a full width container, spanning the entire width of your viewport.

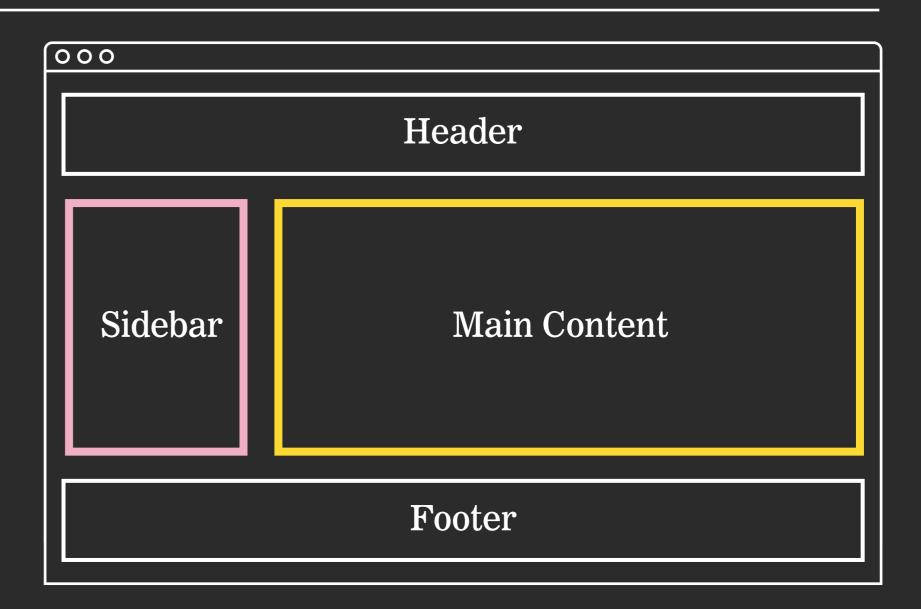
FIXED WIDTH LAYOUT

Fixed width layouts do not change size as the user increases/ decreases width of browser window



FLUID LAYOUT

Fluid layouts stretch and contract as the user increases/ decreases the size of their browser window



STEP 2 — ADD ROWS

- Use rows to create horizontal groups of columns.
- Only columns may be immediate children of rows.

```
<div class="row">
    (columns)
</div>
```

.row
.row

STEP 3 — ADD COLUMNS — STACKED TO HORIZONTAL

• Content should be placed within columns.

ACTIVITY



KEY OBJECTIVE

• Get practice creating rows and columns.

TYPE OF EXERCISE

Individual/Partner

LOCATION

Starter Code > rows_columns

TIMING

10 min

- 1. Take a look at grid.png.
- 2. Recreate the grid in your HTML.

ACTIVITY



KEY OBJECTIVE

Understand how Bootstrap works

TYPE OF EXERCISE

Partner

TIMING

4 min

1. With a partner, use Chrome's inspect element to look at the different styles that Bootstrap is adding. See if you can find them in the Bootstrap stylesheet!

BOOTSTRAP

RESPONSIVE IMAGES

RESPONSIVE IMAGES

Images can be made responsive-friendly via the addition of the .img-responsive class. This applies max-width: 100%;, height: auto; and display: block; to the image so that it scales nicely to the parent element.

Codepen Example



ACTIVITY



KEY OBJECTIVE

• Get practice making an image responsive.

TYPE OF EXERCISE

Individual/Partner

LOCATION

Starter Code > rows_columns

TIMING

10 min

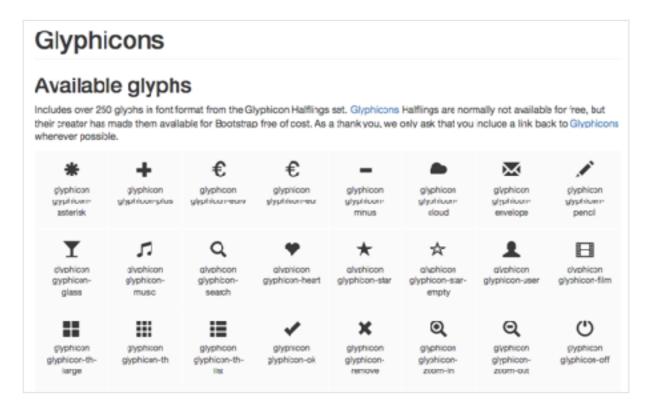
1. Look at part 2 in index.html

BOOTSTRAP

COMPONENTS

GLYPHICONS

• Includes over 250 icons that are free for use!





GRID SYSTEMS

MINI-LAB!

LET'S TAKE A CLOSER LOOK

BEATLES - DRIVE MY CAR

LYRICS

Asked a girl what she wonted to be She said baby, "Con't you see I wanna be famous, aister on the screen But you can do something in between"

Baby you can drive my car restmiganna be a star Baby you can drive my car And maybe llave you

Itold agir that myprospects were good And she said boby, "Its understood Working for pecnuts is all veryfine But! can show you a better time"

Hold that glit I constant right away. And she said, "Listen baby lgdt semething to say. Lad no cer and it's breaking my heart. But tive found adriver and that's a start".

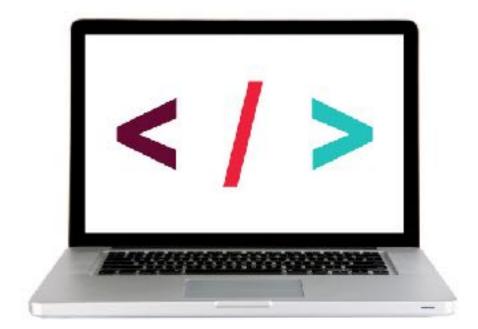
Baby you can drive my can Yes?m grand be a star Baby you can drive my can And maybe flove you Deep beep'in beep beep yeah Beep beep'in beep beep yeah Beep beep'in beep beep yeah Beep beep'in beep beep yeah (fade out)

ALBUM INTO



Rubber Soul is the sixth studie album by English rack band the Beates, released on 3 December 1965.

- Alburic Rubour Soul
- Release Date: December 3, 1985.



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ACTIVITY



KEY OBJECTIVE

• Get practice creating rows and columns.

TYPE OF EXERCISE

Individual/Partner

LOCATION

Starter Code > columns_lab

TIMING

10 min

1. Follow steps 1 - 4 in index.html

FORM BASICS

LEARNING OBJECTIVES

- Be able to differentiate the different types of inputs and why/where we would use each
- Explain how to group elements by name.
- Integrate Bootstrap to create a multi-column layout

WEEKLY OVERVIEW

WEEK 4 Forms & Bootstrap / Intro to JavaScript

WEEK 5 jQuery Basics / jQuery Part II

EXIT TICKETS!