

CHAPTER 11 CONTENT PANELS

Content panels let you showcase extra information in a limited amount of space.



Accordions feature titles which, when clicked, expand to show a larger panel of content.



Tabbed panels automatically show one panel, but when you click on another tab, switch to showing a different panel.



Modal windows (or 'lightboxes') display a hidden panel on top of the page content when their links are activated.





Photo viewers display different images within the same space when the user clicks on the thumbnails.



Sliders show multiple panels of content that slide into view as the user navigates between them.





When creating content panels, remember to maintain a separation of concerns:

Content in HTML file Presentation in CSS rules Behaviors in JavaScript It is also important to keep your code accessible:

If users can interact with an element, use <a> or a button.

Make sure content is available if JavaScript is disabled.

ACCORDION

When the user clicks on a label, an anonymous function gets the label the user clicked on. It selects the panel after it and either shows or hides it.



ACCORDIAN WITH ALL PANELS COLLAPSED

LABEL 1

LABEL 2

LABEL 3



ACCORDIAN WITH FIRST PANEL EXPANDED

LABEL 1

CONTENT 1

LABEL 2

LABEL 3

ACCORDIAN WITH SECOND PANEL EXPANDED

LABEL 1

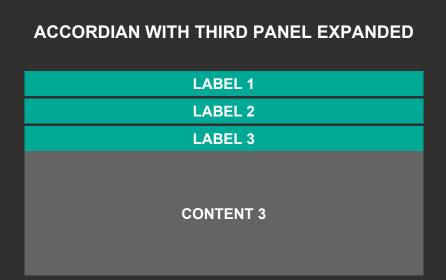
LABEL 2

CONTENT 2

LABEL 3

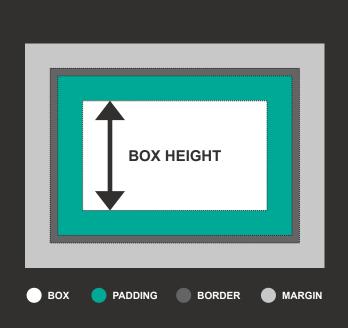






jQuery's show(), hide(), and toggle() methods animate the showing and hiding of elements.

They also calculate the size of the box including its content and any margins and padding.



HTML specifies the structure:

CSS hides the panels:

```
.accordion-panel {
  display: none;}
```

jQuery handles the click event:

```
$('.accordion').on('click', 'accordion-control', function(e) {
   e.preventDefault();
   $(this)
        .next('.accordion-panel')
        .not('animated')
        .slideToggle();
});
```

•

The default action of the link is stopped:

```
$(`.accordion').on(`click', `accordion-control', function(e) {
    e.preventDefault();
    $(this)
        .next(`.accordion-panel')
        .not(`animated')
        .slideToggle();
});
```

Open or close panels:

```
$('.accordion').on('click', 'accordion-control', function(e) {
  e.preventDefault();
  $(this)
    .next('.accordion-panel')
    .not('animated')
    .slideToggle();
});
```







DESCRIPTION INGREDIENTS DELIVERY

Take your tastebuds for a gentle stroll through an English garden filled with Monsieur Pigeon's beautifully fragrant Flower Series marshmallows. With three sweetly floral options: Elderberry, Rose Petal, and Chrysanthemum - all edible and all naturally flavored - they will have you dreaming of butterflies and birdsong in no time.



Tabs have a similar concept but only one panel is shown at a time.



TAB 3

TAB 1 TAB 2

CONTENT 1





SECOND TAB SELECTED

TAB 1 TAB 2 TAB 3

CONTENT 2



TAB 1 TAB 2 TAB 3

CONTENT 3

HTML specifies the structure. Here are the tabs:

The panels follow the tabs:

```
<div class="tab-panel active" id="tab-1">
    <!-- Content for the first panel goes here -->
</div>

<div class="tab-panel" id="tab-2">
    <!-- Content for the second panel goes here -->
</div>

<div class="tab-panel" id="tab-3">
    <!-- Content for the third panel goes here -->
</div>
```

CSS hides all of the panels except for the active one:

```
.tab-panel {
  display: none;}
.tab-panel.active {
  display: block;}
```

The variables are set:

The same code is run for each set of tabs:

The default action of the links are stopped:

The panels are shown or hidden:

MODAL WINDOW

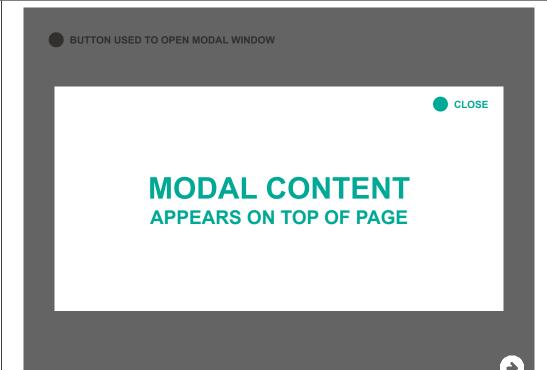


A modal window is content that appears "in front" of the rest of the page.

It must be closed before the rest of the page can be interacted with.



PAGE CONTENT



HTML specifies the structure:

```
<div class="modal">
    <div class="modal-content">
      <!- - Content goes here - ->
      <button class="modal-close">close</button>
      </div>
</div>
```

CSS positions the modal on top of all of the other content:

```
.modal {
  position: absolute;
  z-index: 1000;}
```





The JavaScript to create a modal window runs when the page loads.

Opening the modal window:

```
(function() {
    // Remove modal content from page and store in $content
    var $content = $('#share-options').detach();

    // Click handler calls open() method of modal object
    $('#share').on('click', function() {
        modal.open({content: $content, width:340, height:300});
    });
}());
```



The modal object is a custom object. It is created in another script and can be used on any page of the site.

The modal object's methods:

People who use the script to create a modal window only need to know how to call the open() method because the other methods are used by the script.



The modal object starts with variables only available within the object. They create the modal window and its close button:

If the user clicks on the close button, an event handler will close the modal window by calling the close () method:

```
$close.on('click', function(e) {
  e.preventDefault();
  modal.close();
});
```

The return statement will return the public methods:

Anyone who uses the script only needs to use the open() method, which creates the modal window:



The close method is used by the close button's event handler:

```
close: function() {
    // Remove content from the modal window
    $content.empty();

    // Remove modal window from the page
    $modal.detach();

    // Remove event handler
    $(window).off('resize', modal.center);
}
```

PHOTO VIEWER



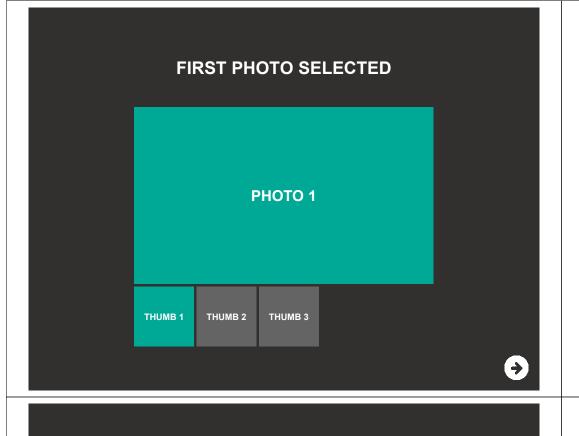
THE FLOWER SERIES gentle stroll through an English garden filled with Monsieur Pigeon's beautifully fragrant Flower Series marshmallows. With three sweetly floral options: Elderberry, Rose Petal, and Chrysanthemum - all edible and all naturally flavored - they will have you dreaming of butterflies and ROSE PETAL. birdsong in no time. \$5.75 / 3.5 oz packet

→

The photo viewer is an example of an image gallery.

When the user clicks on a thumbnail, the main photograph is updated.





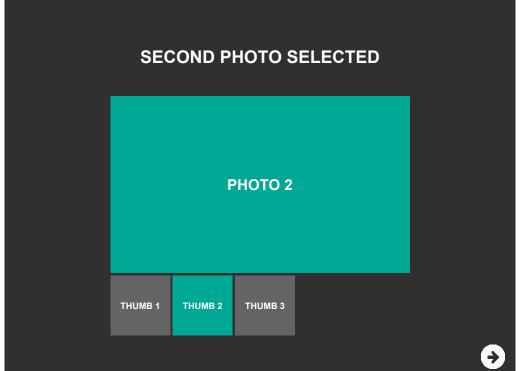


PHOTO 3 THUMB 1 THUMB 2 THUMB 3

HTML specifies the structure:

CSS is used to show a loading GIF and position the images:

```
#photo-viewer.is-loading:after {
  content: url('../img/load.gif');
  position: absolute;
  top: 0;
  left: 0;}

#photo-viewer img {
  position: absolute;
  max-width: 100%;
  max-height: 100%;
  top: 50%;
  left: 50%;}
```

Images load asynchronously.

PROBLEM:

If the user clicks on a large image and then a smaller image, the smaller one might show up first.



SOLUTION:

When an image has loaded, check to see if it was the last one to have been requested.

Images don't cache automatically.

PROBLEM:

If the user clicks on a large image, looks at another image, and then goes back, it creates a new element and goes through the loading process again.

Images don't cache automatically.

SOLUTION:

Create an object called cache. When a new element is created, add it to the cache. Check cache before showing images (if it is there, use that).

The cache object would look like this:

```
var cache = {
    "c11/img/photo-1.jpg" : {
        "$img": jquery object,
        "isLoading": false
    },
    "c11/img/photo-2.jpg" : {
        "$img": jquery object,
        "isLoading": false
    }
}
```

Start by creating variables:

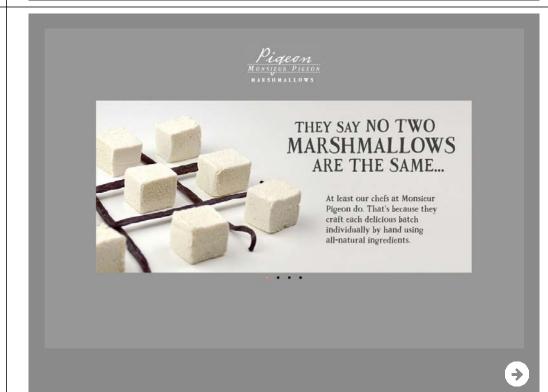
Cross-fade images:

Set-up, cache, and loading image:

```
$(document).on('click', '.thumb', function(e) { // Click on thumb
                                        // Local var called $img
 var $img;
 var src = this.href;
                                       // Store path to image
                                       // Store latest image
 var request = src;
                                  // Stop default link behavior
 e.preventDefault();
 $thumbs.removeClass('active');  // Remove active from thumbs
 $(this).addClass('active');
                                  // Add active to clicked one
 if (cache.hasOwnProperty(src)) { // If cache contains this img
   if (cache[src].isLoading === false) { // and it's not loading
     crossfade(cache[src].$img); // Call crossfade() function
  } else {
                             // Otherwise it is not in the cache
   simq = s('<imq/>');
   cache[src] = {
     $img: $img,
                             // Add the path to the image
     isLoading: true
                                                               →
```

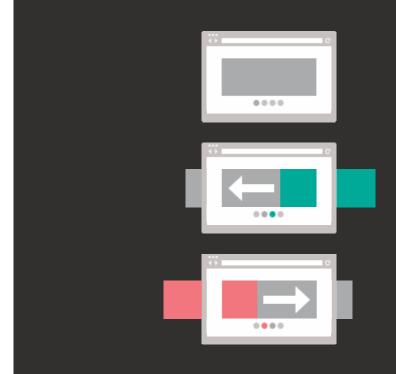
Set-up, cache, and loading image:

SLIDER



Sliders position a series of items next to each other, but only show one at a time.

The images then slide from one to the next.



HTML specifies the structure:

Slides are shown at the same height and width as the container:

```
.slide-viewer {
  position: relative;
  overflow: hidden;
  height: 430px;}
.slide-group {
  width: 100%;
  height: 100%;
  position: relative;}
.slide {
  width: 100%;
  height: 100%;
  display: none;
  position: absolute;}
.slide:first-child {
  display: block;}
```

Set up looping through each slider:

Moving the slides (part one):

Moving the slides (part two):

```
if (newIndex > currentIndex) { // If new item > current
     slideLeft = '100%';
                                  // Sit new slide to the right
     animateLeft = '-100%';
     else {
                                  // Sit the new slide to the left
     slideLeft = '-100%';
     animateLeft = '100%';
                                  // Animate current group right
   // Position slide left (if less) right (if more) of current
   $slides.eq(newIndex).css( {left: slideLeft, display:
'block'});
   $group.animate( {left: animateLeft}, function() { // Animate
   $slides.eq(currentIndex).css( {display: 'none'} ); // Hide old
   $slides.eq(newIndex).css( {left: 0} ); // Set pos: new item
   $group.css( {left: 0} );
   currentIndex = newIndex;
                                         // Set to new image
```

The timer:

Buttons:

CREATING AN ACCORDION JQUERY PLUGIN



jQuery plugins add new methods to jQuery.

jQuery has a function called fn which you can use to extend jQuery:

```
$.fn.accordion = function(speed) 
// Plugin code goes here
```

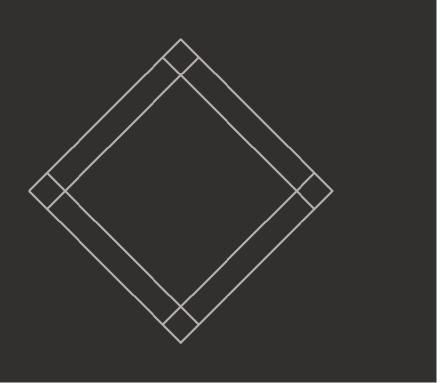




It returns the jQuery selection when it has finished running, so that other methods can be chained after it:

```
$.fn.accordion = function(speed) {
   // Plugin code goes here
   return this
```





The namespace:

