

jQuery UI Themes

Create new themes for your jQuery site with this step-by-step guide

Beginner's Guide



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Adam Boduch



BIRMINGHAM - MUMBAI

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I'd like to thank Melissa and Jason for their endless love and support, without which, this book would not have been possible.

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I would like to thank my family for their support, encouragement, humor, and delicious Polish food.

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Wackyinnovation (www.wackyinnovation.com) promotes the concept of always moving forward and coming up with and utilizing new technologies and ideas. Their always enthusiastic and can-do attitude ensures jobs are done to perfection with an innovative edge to their competitors.

I would like to thank everyone around me for their continued support both towards badminton and work, especially my fiancé who has to put up with my endless endeavors and dreams that I am pursuing.

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Preface

Welcome to *jQuery UI Themes: Beginner's Guide*. This introductory text will get you started with developing your own themes for jQuery UI applications. Starting with the general concepts of user interface themes, this book walks the reader through everything from the most basic ideas in jQuery UI to more advanced topics such as icons and themes for custom widgets.

What this book covers

Chapter 1, Themeable User Interfaces, talks about themes in general and why they're important for user interfaces. We'll also address some introductory jQuery UI theme concepts.

Chapter 2, Using Themes, explains how to apply jQuery UI themes by example. Here, we'll walk through some introductory examples that use jQuery UI themes.

Chapter 3, Using the ThemeRoller, introduces the ThemeRoller application. This chapter walks the reader through all available ThemeRoller settings and shows how to download and use your theme.

Chapter 4, Working with Widget Containers, explains how to theme widget containers. Containers are the basic building block for themes and this chapter explains a little theory and gives plenty of examples.

Chapter 5, Transforming Interaction States, talks about the different states jQuery UI widgets go through. These states have different visual appearances and you'll find numerous examples on how to customize them.

Chapter 6, Customizing Interaction Cues, gives examples of using interaction cues with jQuery UI. There is a little theory on what they are, as well as examples on how to theme them.

Chapter 7, Creating Theme Icons, talks about icon sets in jQuery UI themes. We cover how these icons are stored in the image files and how to add your own icons to a theme.

Chapter 8, Special Effects, talks about special effects in the jQuery UI theme framework – rounded corners, and shadows. You'll see several examples of how to apply these classes to widgets and how to customize them.

Chapter 9, Theming Custom Widgets, walks you through the process of constructing a custom widget. We then cover making the widget theme-ready.

What you need for this book

All you need to run the examples in this book are the following:

- ◆ An Internet connection (for downloading jQuery UI)
- A web browser
- A text editor
- ◆ GIMP image editor (free) or PhotoShop (this is required only for chapter 7)

Who this book is for

This book is intended for anyone interested in learning about jQuery UI themes.

Conventions

In this book, you will find several headings appearing frequently.

To give clear instructions of how to complete a procedure or task, we use:

Time for action – heading

Action 1

Action 2

Action 3

Instructions often need some extra explanation so that they make sense, so they are followed with:

What just happened?

This heading explains the working of tasks or instructions that you have just completed.

You will also find some other learning aids in the book, including:

Pop quiz – heading

These are short multiple choice questions intended to help you test your own understanding.

Have a go hero – heading

These set practical challenges and give you ideas for experimenting with what you have learned.

You will also find a number of styles of text that distinguish between different kinds of information. Here are some examples of these styles, and an explanation of their meaning.

Code words in text are shown as follows: "In index.html and index.js, we create three jQuery UI button widgets to show off our new icon."

A block of code is set as follows:

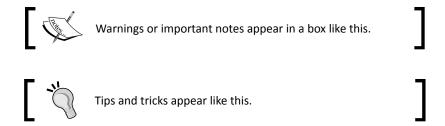
```
$ (document) .ready(function() {
   $("#my_button") .button();
});
```

When we wish to draw your attention to a particular part of a code block, the relevant lines or items are set in bold:

```
#todo-title {
    color: #222222;
    padding-left: 5%;
}
#todo-list {
    font-size: 0.8em;
    color: #362b36;
    list-style-type: square;
}
```

```
h3, ul {
   font-family: Lucida Grande, Lucida Sans, Arial, sans-serif;
}
```

New terms and **important words** are shown in bold. Words that you see on the screen, in menus or dialog boxes for example, appear in the text like this: "If the **Layers** dialog isn't open already, open it by selecting **Windows** | **Dockable Dialogs** | **Layers** as illustrated ".



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1

Themeable User Interfaces

Web developers use styles effectively to make web pages look professional. HTML is the structural backbone behind user interfaces viewed on the Web. We can do a lot of interesting things with the look and feel of the Web user experience. We can take an otherwise boring user interface and breathe some life into it.

Giving a web page a look and feel poses the same problem faced by any other software development discipline—how do we prevent ourselves from reinventing the wheel while maintaining usability? We build themeable user interfaces to overcome obstacles such as these.

In this chapter, we will learn the following:

- ◆ What are themes and widgets and how do they relate?
- ◆ How to create a basic widget and apply styles to it
- Applying basic theming concepts to CSS styles
- ◆ The basic ideas behind the jQuery UI framework

So let's get on with it.

What is a theme?

Themes represent consistency and familiarity in graphical user interfaces. That is to say, a user interface shouldn't contradict itself by looking vastly different in various contexts. The concept of themes applies to many things humans interact with. This includes both computer user interfaces, as well as those found in the real world.

Themes in the real world

All kinds of real-world things have a theme. Groups of related things share some similarity or another. This also means that they are consistent in some respect. A product line generally has a theme.

A car is a good example of a themed object. Have you ever seen a car in the distance and thought "that is unmistakably Ford"? You don't put a lot of thought into what makes it a Ford, it "just looks like one". This feeling of familiarity is true of different car types. Ford cars and Ford trucks still look like Ford.

This goes beyond the branding that the company logo on the product gives. There are subtleties that give us visual cues that this is a Ford or this is a Mercedes. When either of the companies comes up with a new car, you would instantly know where it came from.

These hidden subtleties that are constant throughout a product line are an example of a theme. Going back to the car example, it is usually the overall shape of the car that give it it's distinctiveness. The small grooves in the body are usually consistent across different models from the manufacture.

The color of a product alone doesn't necessarily dictate the theme in the real world. Seeing the same Subaru wagon in red doesn't hinder our ability to identify the make.

Desktop themes

Your desktop user interface is also themeable. Desktops are made up of windows and other elements within them. The look and feel these elements provide vary with different operating systems. But the function, or the purpose, of say, a button, is universal.

We can change the look and feel of most popular desktop environments by simply changing a preference setting. We can select from a list of available themes that ship with the operating system or we can download a third-party theme someone has created.

We can design desktop themes because there is an API to do this. If a theme author wants to change the border color of all desktop windows, they can do this without changing what a window does. The window looks different but doesn't behave differently.

Themes on the Web

User interfaces built for Web applications don't share the same flexibility as those built for the desktop. There is really no limitation that says we can't build themes that are portable enough to work with more than one application in a web browser. The underlying functionality that gives the desktop applications their look and feel isn't very different from that of a web application.

We can drastically alter the look and feel of a web application with **styles**. Style can be applied to a single HTML element or a range of elements. We have the flexibility to pick and choose which elements we change.

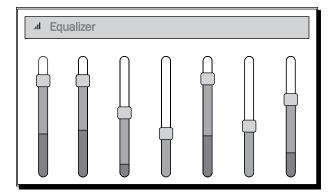
With HTML, there are a variety of ways to achieve the same visual result. For instance, creating portable themes that work across applications. If there was a consistent structure we could apply style to, themes become much simpler to develop, and keep portable. As with the desktop environment, widgets are used in a web environment to make user interfaces themeable.

What are widgets?

Before we start creating our own widgets and styling them, let's take a moment to discuss what widgets actually are. A widget, in the user interface sense, is a portion of anything displayed on the screen. Widgets can be large and complex, or small and simplistic. They usually have at least some structural element that is defined by the developer. A block of text isn't a widget; the developer doesn't specify the shape of each character. Understanding what widgets are and how they relate to themes is important for building themeable user interfaces. For example, the date picker widget solves a common problem—allowing the user to select a date. Themes control how the date picker looks.

Widget structure

Widgets aren't just a single, opaque whole. jQuery UI widgets are structured as assemblies of parts. For instance, below is an equalizer widget. You can see it is made up of several components – the header, and individual sliders for controlling the widget:



So what are the individual parts that make up a widget? Is there a predefined set of fields that a user interface component must have in order to be considered a widget? There are no qualifying attributes that make something a widget. The fields that define a widget structure are up to the widget creator. They can have a single field and the widget does the rest, or, they can have dozens of fields that allow for a lot of flexibility and are harder to use.

Widgets can contain other widgets. These subordinate widgets can contain others, and so on. We can continue down this path, moving ever further down the ladder until we finally reach the lowest level HTML element. In practice, however, we don't want a complex widget structure that is difficult to style.

Widgets and themes

So how does the structure of a widget, or widgets in general for that matter, relate to themes? Applying a style to a standard HTML element is easy to do. However, in order to share themes, to make them portable, we need to share structure. Theme authors don't design themes for one specific application. They're intended to be used and reused with different applications. The same idea is true for widgets, jQuery UI widgets, Dojo widgets, and so on; they're all intended for reuse.

Portability is an important attribute of widgets. Applying styles to widgets, changing their look and feel, isn't all that different from styling plain old HTML elements. The difference is that the consistency with which the styles are applied to widgets remains the same across applications.

Styling user interfaces

Creating styles that change the look and feel of web application is the reason CSS exists. The many presentation properties that define a style are stored in a style sheet, separate from the structural elements of the user interface. We could directly apply styles to the element as a style attribute. By doing this, we lose all portability; the style is forever bound to the element.

There is more to defining the look and feel of your application when it comes to styling user interfaces. A big part of style creation is structuring your CSS in such a way that they aren't restrictive. Let's take a closer look at what is involved with styling user interfaces.

Time for action - creating a style

Now that we have a general idea of what a widget is and how they relate to themes, let's create one. We're going to create a todo list widget. This widget isn't going to be built for any particular application. We want to reuse it somewhere else, should the need arise. The requirements of this todo list widget are pretty straightforward. It will display the title of the list along with the list items.

1. Create a new index.html file with the following content and save it:

```
<html xmlns="http://www.w3.org/1999/xhtml">
   <head>
      <title>Todo List</title>
      <link href="style.css" rel="stylesheet" type="text/css" />
   </head>
   <body>
      <div id="container">
          <h3 id="todo-title">TODO</h3>
          Design user interface
             Implement form validation
             Deploy
          </div>
   </body>
</html>
```

2. In the same directory which has the index.html file, create a new style.css file and save it:

```
#container {
    background: #f2f5f7;
    border: 3px solid #dddddd;
    width: 25%;
    padding: 3px;
}

#todo-title {
    font-family: Lucida Grande, Lucida Sans, Arial, sans-serif;
    color: #222222;
    padding-left: 5%;
}

#todo-list {
```

```
font-family: Lucida Grande, Lucida Sans, Arial, sans-serif;
font-size: 0.8em;
color: #362b36;
list-style-type: square;
}
```

3. Open index.html in a web browser. In most operating systems, you should be able to right-click the file and see an option to open the file with the default browser. Alternatively, you can choose **File | Open** to select index.html:

TODO

- Design user interface
- Implement form validation
- Deploy

What just happened?

Let's walk through the code and see exactly what we've just created.

The index.html file defines the structure of our todo list widget. The title element sets the page title to Todo List. The following link element imports the CSS file style.css. This is where the styles for our todo list widget are defined.

Inside the body tag is the actual todo list widget. The beginning of our widget is the div element with the id attribute container. Next is the todo list title. The widget title is inside the h3 element with the id attribute todo-title. Finally, the main purpose of the widget is the list of todo items. The list is the ul element with the id attribute todo-list. Inside the list are all the list items, defined with li elements.

The style.css file creates the look and feel of our *todo list* widget. There are three styles here that are applied to our widget.

The #container style creates a light blue background using the background property. The border is displayed as solid gray color using the border property. The width is set to 25% of the page using the width property. We give the container's contents some additional space with the padding property.

The #todo-title style sets the font of the todo list title using the font-family property. The font color is set to a dark grey using the color property. We give a little space to the laft-hand side of the title using the padding-left property.