

# **Customizing jQuery Mobile Apps**

**Mobile Application  
Development  
*Session 8***

# jQuery Mobile Themes

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- jQuery Mobile uses a *theming* system to allow customization of mobile apps.
- In jQuery Mobile, a theme is a *unified visual design* applied across the interface. In technical terms, it is simply a collection of CSS code applied to jQM widgets.
- A jQM theme specifies everything from fonts to drop shadows to colours.
- Themes allow for up to 26 unique *colour swatches* per theme, creating the ability for almost unlimited variety in designs.

# jQuery Mobile Swatches

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- In keeping with the idea of separating layout from color and texture, a jQuery Mobile theme can have multiple *swatches*.
  - A swatch is a *unified color concept* governing the colours of background, text, shadows, iconography, etc.
  - The default jQuery Mobile theme (> v 1.4) includes two swatches (a and b). Each swatch provides different visual emphasis, with swatch *a* being the most visually emphatic and accessible.
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# jQuery Mobile Themes

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- The default jQuery Mobile themes are defined in the framework CSS file.
- Custom themes can be created using the [ThemeRoller](#) theme generator.
- Changes to existing themes can be made by using custom CSS 3 to override settings in a default or custom theme.

# Applying jQuery Mobile Swatches

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- Swatches can be set at page level.
- If no swatch is explicitly chosen, the framework will default to swatch *a* (light grey header and footer, white content section, and black font). [Example](#).
- We can add a new swatch for a jQM page by setting the *data-theme* attribute in the page to our selected swatch.

```
<div data-role="page" id="home" data-theme="b">
```

- [Example](#)

# Applying jQuery Mobile Swatches

- Swatches can also be mixed and matched for individual page elements (e.g. header, footer, listview, etc.) to give greater customization to the look and feel of a page.

```
<div data-role="page" id="home" data-theme="b">  
  <div data-role="header" data-theme="a">  
    <h1>Zedland Hotels</h1>  
  </div>  
  <div data-role="content">  
    <h2>Hotels</h2>  
    <ul data-role="listview" data-inset="true" data-theme="a">
```

- [Example](#)

# Overriding Themes using Custom CSS

- jQM allows us to override the CSS from default or custom themes.
- This is done using custom CSS files which set the value of the [jQM classes](#) associated with jQM widgets (e.g. ui-btn, ui-listview, etc.).
- The following snippets sets the margins for specific listviews and the corner radius for all widgets.

```
.ui-content .ui-listview{  
margin: 2.5% 5% 5% 5%;  
}  
  
.ui-corner-all {  
border-radius: 10px !important;  
}
```

- For the override to work, the custom CSS must be included after the jQM CSS file. [Example](#).

# Setting the Theme Globally

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- Setting the theme for a single page will not affect the appearance of any other internal or external pages in an application.
- To apply a theme across an application we need access the jQuery Mobile framework default configurations and change these.
- This needs to be done programmatically using jQM *mobileinit* event.



# Setting the Theme Globally

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- [mobileinit](#) is triggered as part of the library's loading process. It allows us the opportunity to access and tweak jQuery Mobile's configurations at framework level.

```
$(document).bind('mobileinit', function () {  
});
```

- Once we have access to the global configurations we can make changes to page widgets, such as page, listview, collapsible set, etc. We do this by accessing the *options* of the *prototype* of the widget. [Example](#).

```
$(document).bind('mobileinit', function () {  
    $.mobile.page.prototype.options.theme = "d";  
});
```

# Making Global Changes

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- When we use the *mobileinit* event to make global changes to our app, we need to make sure our configuration script runs before the jQuery Mobile library script.
- In the example below, our configuration script is placed before the jQM library in the <head> of the document. [Example](#).

```
<script src="config.js"></script>  
<script src="//ajax.googleapis.com/ajax/libs/ →  
jquerymobile/1.4.3/jquery.mobile.min.js"></script>
```

# Making Global Changes

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- As well as allowing us to make changes to the default theme, *mobileinit* also allows us to make global changes to any other jQM widget, as well as to other elements of the framework such as transitions. [Example](#).

```
$(document).bind('mobileinit', function () {  
    $.mobile.defaultPageTransition = 'slidefade';  
    $.mobile.page.prototype.options.theme = "d";  
});
```

# Custom Themes

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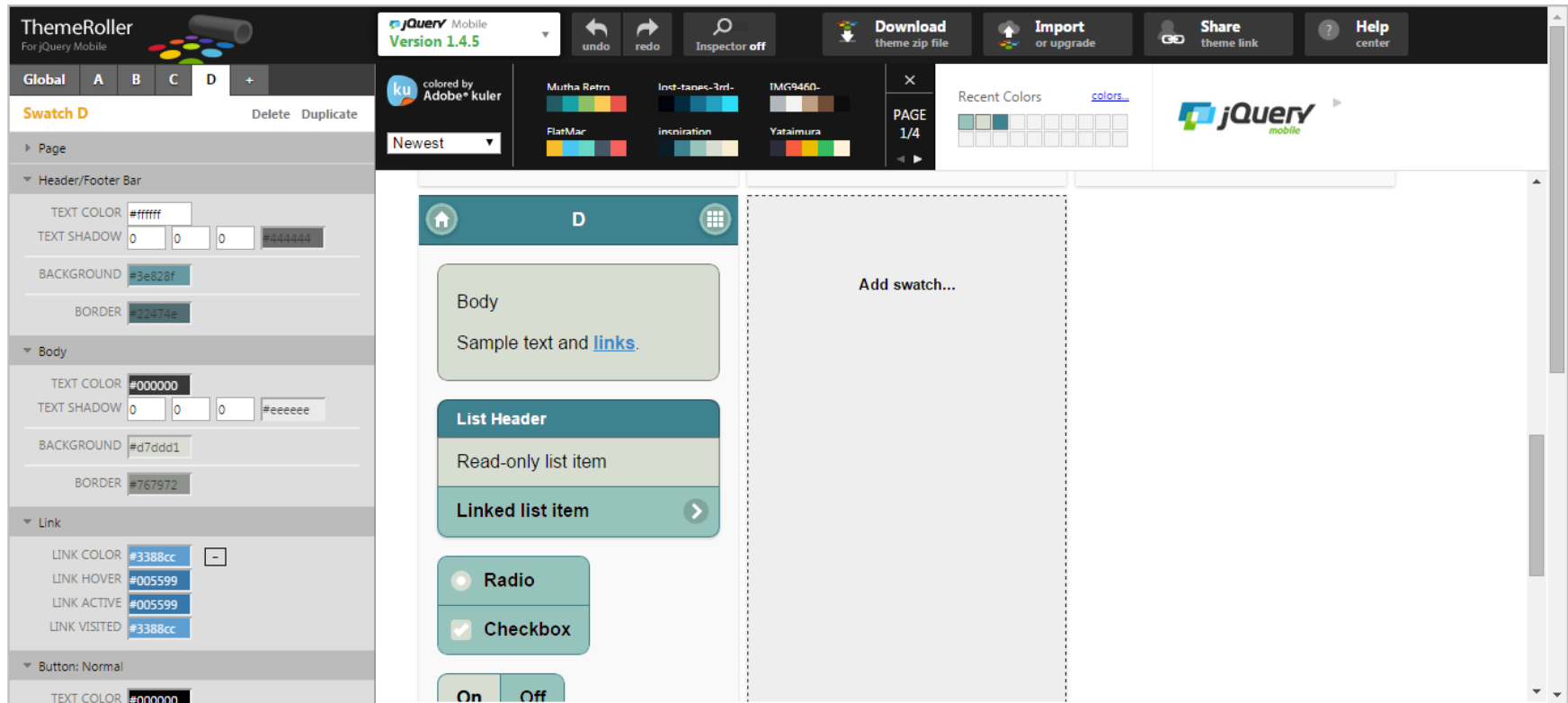
- The default theme and the two swatches that come with it limit the scope of what we can do with the look and feel of jQM applications.
  - However, this is easily overcome as jQM allows us to create and use custom themes.
  - The main theme creator tool for jQM is [ThemeRoller](#).
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# Custom Themes with ThemeRoller

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- [ThemeRoller](#) for jQuery Mobile is a web app that allows a user to configure settings for colours, background textures, and fonts — including variations for default, hover and active states — for the component pieces of all jQuery Mobile UI widgets.
- Themes generated using ThemeRoller can be downloaded as a ZIP file and included in an application where they can be used in place of the jQM default themes.

# Custom Themes with ThemeRoller



# Custom Themes with ThemeRoller

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- To apply a ThemeRoller theme, we link to the downloaded CSS files for the newly created styles and icons in the `<head>` of each page in our application.
- Note that the `<link>` tags for the CSS files must be positioned *before* the jQM main CSS file.

```
<link rel="stylesheet" href="zedland-custom.min.css" />  
<link rel="stylesheet" href="jquery.mobile.icons.min.css" />  
<link rel="stylesheet" href="http://code.jquery.com/mobile/1.4.5/jquery.mobile.structure-1.4.5.min.css" />
```

# Applying Custom Themes

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- Once we have included our custom theme in our application files, we then need to apply that theme.
- To apply the theme globally, we need to apply it at framework configuration time using *mobileinit*.
- In the following example, the theme was generated under letter *d* in ThemeRoller, and is applied globally using that letter. [Example](#).

```
$(document).bind('mobileinit', function () {  
    $.mobile.page.prototype.options.theme = "d";  
});
```