

Pages

Introduction

- The jQuery Mobile library includes automatic ajax based pages loading mechanism.
- The ajax based pages loading mechanism supports backward and forward navigation, allows us to set various animated page transitions and allows us to display a page as a dialog window.

Multiple Pages

- We can use the jQuery Mobile library either for creating single pages web site or for creating local internal linked pages within one HTML page.

The HTML5 Doctype Declaration

- The HTML page must start with the HTML 5 doctype in order to take full advantage of the the jQuery Mobile framework.

```
<!DOCTYPE html>
```

The head Element

- The `head` element must include references to the jQuery and the jQuery Mobile java script files as well as to the mobile theme CSS in use.

```
<head>
  <title>Page Title</title>
  <link rel="stylesheet"
        href="http://code.jquery.com/mobile/1.3.1/jquery.mobile-1.3.1.min.css" />
  <script src="http://code.jquery.com/jquery-1.9.1.min.js"></script>
  <script src="http://code.jquery.com/mobile/1.3.1/jquery.mobile-1.3.1.min.js">
  </script>
</head>
```

The `body` Element

- Inside the `body` element we should place a separated `div` element together with the `data-role="page"` attribute for each one of the pages.
- Within each and every `div` element (page container) we will place other `div` elements (children) with the header, content and footer data-roles.

The body Element

```
<body>
  <div data-role="page">
    <div data-role="header">
      <h1>Hello Title</h1>
    </div>
    <div data-role="content">
      <p>Hello Content. Bla Bla Bla. </p>
    </div>
    <div data-role="footer">
      <h4>abelski sample</h4>
    </div>
  </div>
</body>
```

the `<body>` element can include multiple pages

External Links

- When the user clicks a link that point at an external page in the same domain the jQuery Mobile framework will parse the link address and initiate an ajax request for displaying that external page. During the loading of the external page the user might see a loading spinner.
- If the loading succeeds then the external page will be added to the DOM and will be animated as if it was another page.



Internal Links

- Single HTML document can contain multiple pages loaded together by stacking multiple divs with the `data-role="page"` attribute.
- Each of the page divs should include a unique ID (e.g. `id="home"`). These IDs will be used to link between the pages.

Internal Links

```
<!DOCTYPE html>
<html>
  <head>
    <title>Multiple Pages Application</title>
    <link rel="stylesheet" href=
      "http://code.jquery.com/mobile/1.3.1/jquery.mobile-1.3.1.min.css" />
    <script src="http://code.jquery.com/jquery-1.9.1.min.js"></script>
    <script
      src="http://code.jquery.com/mobile/1.3.1/jquery.mobile-1.3.1.min.js">
    </script>
  </head>
  <body>
```



Internal Links

```
<div data-role="page" id="home">
  <div data-role="header">
    <h1>home title</h1>
  </div><!-- /header -->
  <div data-role="content">
    <p>This is the home page...</p>
    <p><a href="#about">about</a></p>
    <p><a href="#help">help</a></p>
  </div><!-- /content -->
  <div data-role="footer">
    <h4>home footer</h4>
  </div><!-- /footer -->
</div>
```

Internal Links

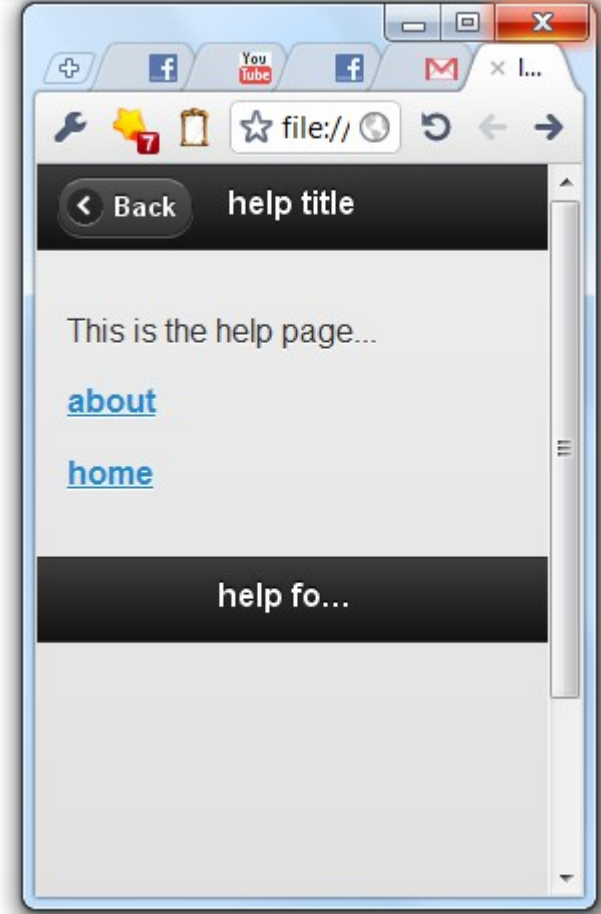
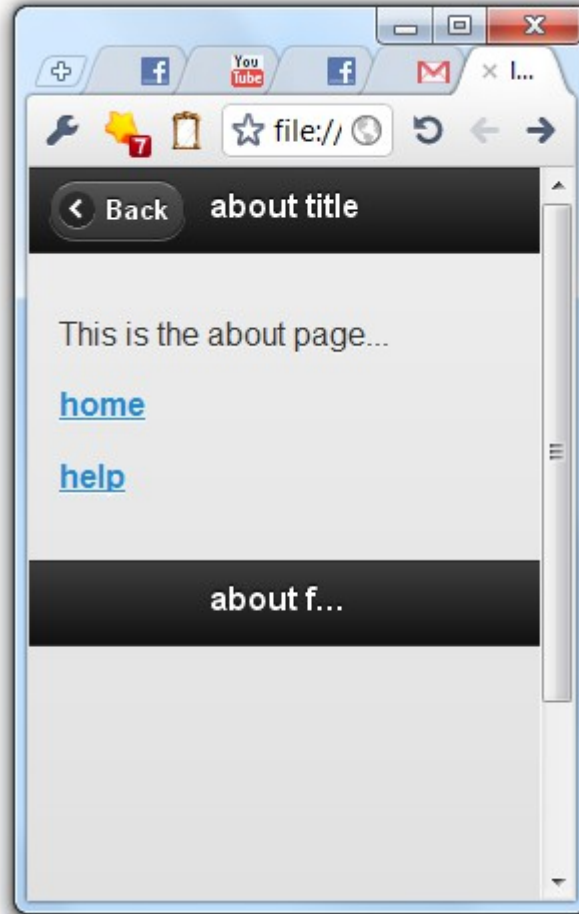
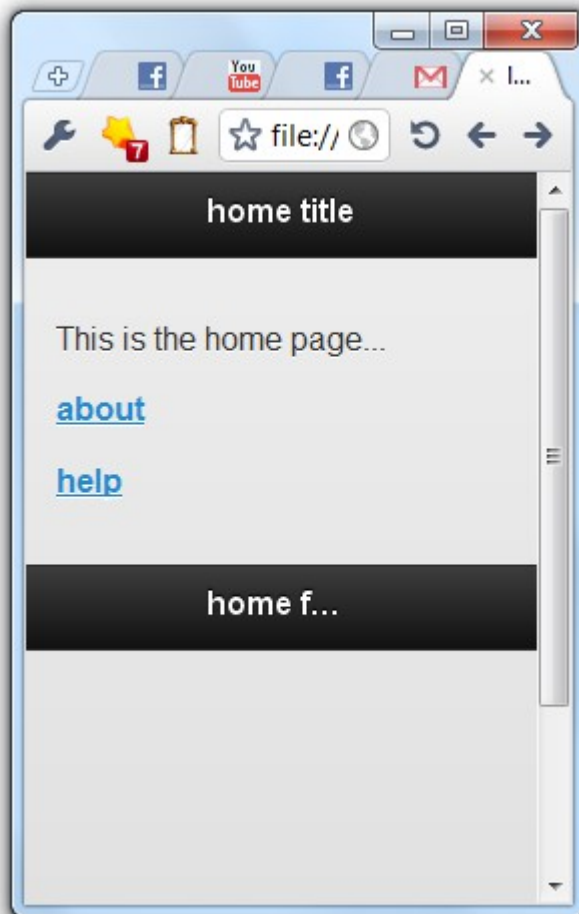
```
<div data-role="page" id="about">
  <div data-role="header">
    <h1>about title</h1>
  </div><!-- /header -->
  <div data-role="content">
    <p>This is the about page...</p>
    <p><a href="#home">home</a></p>
    <p><a href="#help">help</a></p>
  </div><!-- /content -->
  <div data-role="footer">
    <h4>about footer</h4>
  </div><!-- /footer -->
</div>
```

Internal Links

```
<div data-role="page" id="help">
  <div data-role="header">
    <h1>help title</h1>
  </div><!-- /header -->
  <div data-role="content">
    <p>This is the help page...</p>
    <p><a href="#about">about</a></p>
    <p><a href="#home">home</a></p>
  </div><!-- /content -->
  <div data-role="footer">
    <h4>help footer</h4>
  </div><!-- /footer -->
</div>

</body>
```

Internal Links



Back Linking

- If we place `data-rel="back"` inside the `<a>` element it will function as a back button.

Back Linking

```
<!DOCTYPE html>
<html>
  <head>
    <title>Multiple Pages Application</title>
    <link rel="stylesheet"
      href="http://code.jquery.com/mobile/1.3.1/jquery.mobile-1.3.1.min.css"/>
    <script src="http://code.jquery.com/jquery-1.9.1.min.js">
    </script>
    <script s
      rc="http://code.jquery.com/mobile/1.3.1/jquery.mobile-1.3.1.min.js">
    </script>
  </head>
  <body>
```



Back Linking

```
<div data-role="page" id="home">
  <div data-role="header">
    <h1>home title</h1>
  </div><!-- /header -->
  <div data-role="content">
    <p>This is the home page...</p>
    <p><a href="#about">about</a></p>
    <p><a href="#help">help</a></p>
  </div><!-- /content -->
  <div data-role="footer">
    <h4>home footer</h4>
  </div><!-- /footer -->
</div>
```

Back Linking

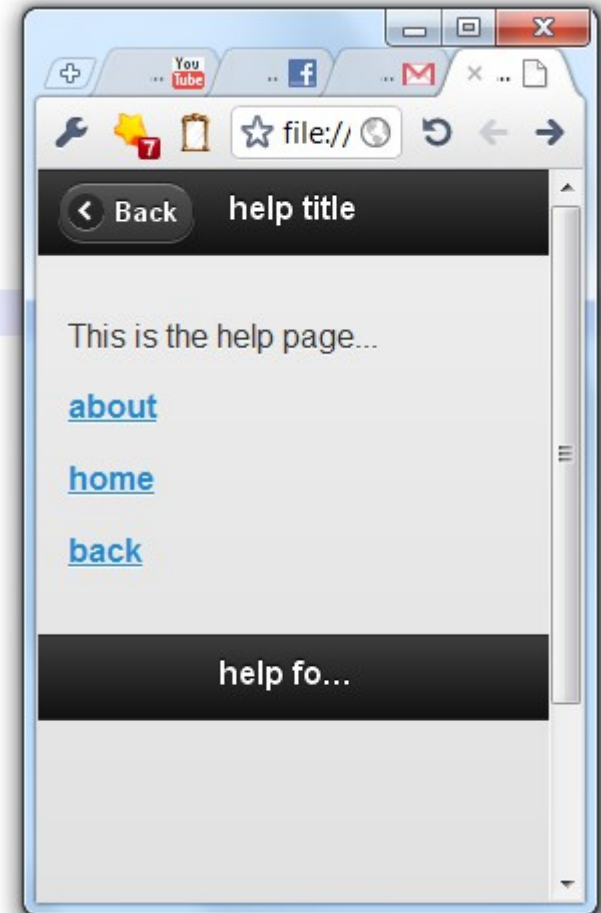
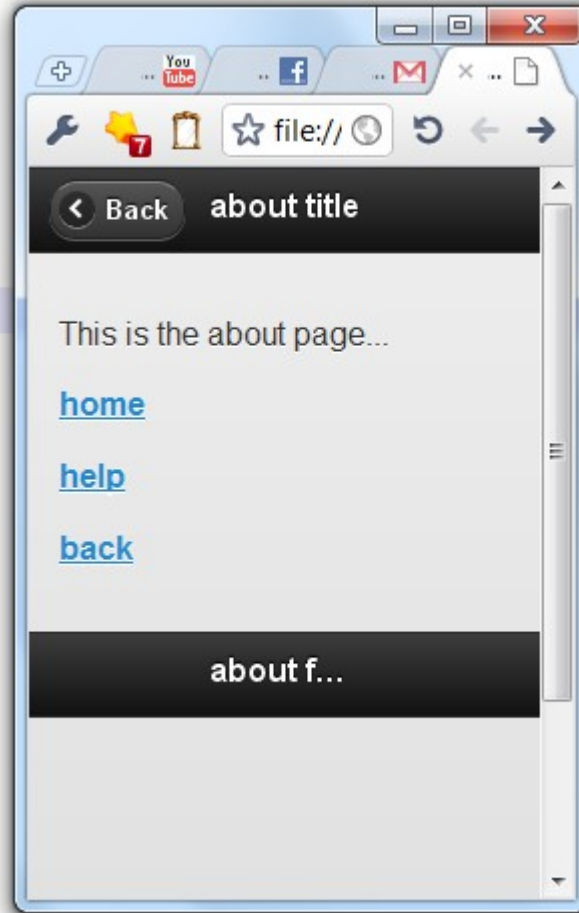
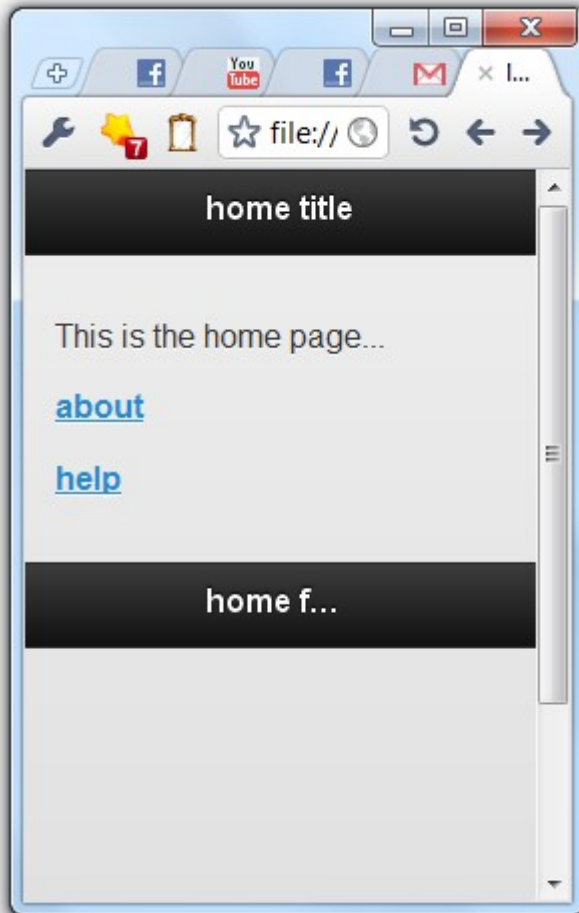
```
<div data-role="page" id="about">
  <div data-role="header">
    <h1>about title</h1>
  </div><!-- /header -->
  <div data-role="content">
    <p>This is the about page...</p>
    <p><a href="#home">home</a></p>
    <p><a href="#help">help</a></p>
    <p><a href="" data-rel="back">back</a></p>
  </div><!-- /content -->
  <div data-role="footer">
    <h4>about footer</h4>
  </div><!-- /footer -->
</div>
```

Back Linking

```
<div data-role="page" id="help">
  <div data-role="header">
    <h1>help title</h1>
  </div><!-- /header -->
  <div data-role="content">
    <p>This is the help page...</p>
    <p><a href="#about">about</a></p>
    <p><a href="#home">home</a></p>
    <p><a href="" data-rel="back">back</a></p>
  </div><!-- /content -->
  <div data-role="footer">
    <h4>help footer</h4>
  </div><!-- /footer -->
</div>

</body>
```

Back Linking



Page Transition

- We can select the page transition effect out of six possible effects. The default page transition is right to left slide.
- In order to set a custom transition effect we should add the `data-transition` attribute to our link with one of the following possible values: `slide`, `slideup`, `slidedown`, `pop`, `fade` or `flip`.

Page Transition

```
<!DOCTYPE html>
<html>
  <head>
    <title>Transitions</title>
    <link rel="stylesheet"
      href="http://code.jquery.com/mobile/1.3.1/jquery.mobile-1.3.1.min.css" />
    <script src="http://code.jquery.com/jquery-1.9.1.min.js"></script>
    <script src="http://code.jquery.com/mobile/1.3.1/jquery.mobile-1.3.1.min.js">
    </script>
  </head>
  <body>
```



Page Transition

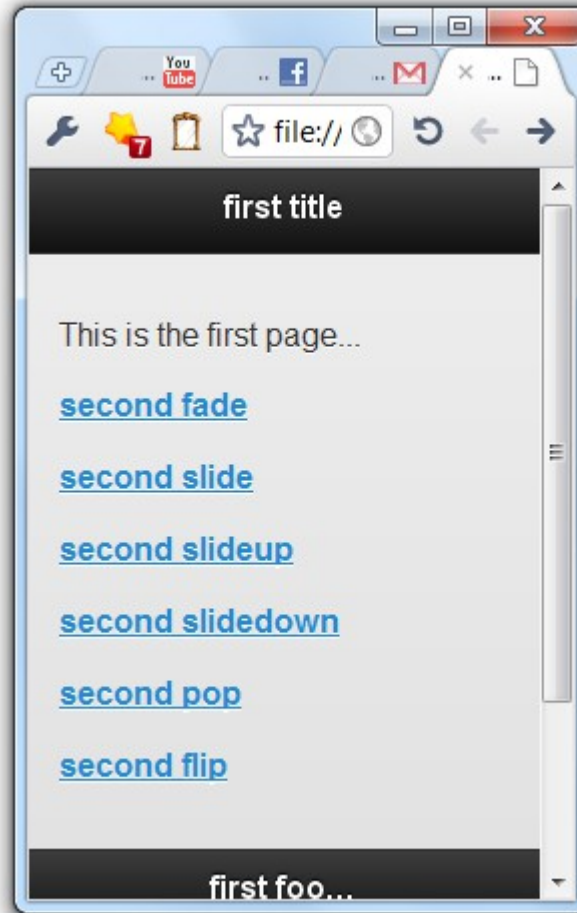
```
<div data-role="page" id="first">
  <div data-role="header">
    <h1>first title</h1>
  </div><!-- /header -->
  <div data-role="content">
    <p>This is the first page...</p>
    <p><a href="#second" data-transition="fade">second fade</a></p>
    <p><a href="#second" data-transition="slide">second slide</a></p>
    <p><a href="#second" data-transition="slideup">second slideup</a></p>
    <p><a href="#second" data-transition="slidedown">second slidedown</a></p>
    <p><a href="#second" data-transition="pop">second pop</a></p>
    <p><a href="#second" data-transition="flip">second flip</a></p>
  </div><!-- /content -->
  <div data-role="footer">
    <h4>first footer</h4>
  </div><!-- /footer -->
</div>
```

Page Transition

```
<div data-role="page" id="second">
  <div data-role="header">
    <h1>second title</h1>
  </div><!-- /header -->
  <div data-role="content">
    <p>This is the second page...</p>
    <p><a href="#first">first</a></p>
  </div><!-- /content -->
  <div data-role="footer">
    <h4>second footer</h4>
  </div><!-- /footer -->
</div>

</body>
</html>
```


Page Transition



Email Links

- Placing "mailto:____@____.____" as the value of href will create a link that initiates the email sending application.

```
<a href="mailto:haim.michael@gmail.com">send email</a>
```

- We can even specify the cc, bcc, subject and the body.

```
<a href="mailto:haim@gmail.com?  
cc=dave@abc.com&bcc=jane@yahoo.com&subject=Happy  
%20Birthday&body=I%20with%20the%20Best!">send email</a>
```

Phone Links

- Placing "tel: _____" as the value of href will create a link that initiates the phone dialer application.

```
<a href="tel:972546655837">call email</a>
```

Links That Support Ajax

- When linking to another web page within the same domain or to another page defined within the same document jQueryMobile will use ajax.

Links That Disable Ajax

- When linking to another web page in another domain jQueryMobile won't use ajax.

The `data-ajax` Attribute

- When adding this attribute assigned with `false` to the `<a>` link element on our web page the jQueryMobile framework won't use ajax.

```
<a href="http://www.abelski.com" data-ajax="false">click here</a>
```

The `rel` Attribute

- When adding this attribute assigned with `"external"` to the `<a>` link element on our web page the jQueryMobile framework will handle the link as an external one and won't use ajax.

```
<a href="http://www.abelski.com" rel="external">click here</a>
```

The data-prefetch Attribute

- When adding this attribute to the `<a>` link element on our web page the jQueryMobile framework will preload and cach the other web page.

```
<a href="http://www.abelski.com" data-prefetch>click here</a>
```


The \$.mobile.loadPage Function

- Using this function we can dynamically preload other web pages and have them cached ready for use.

The \$.mobile.loadPage Function

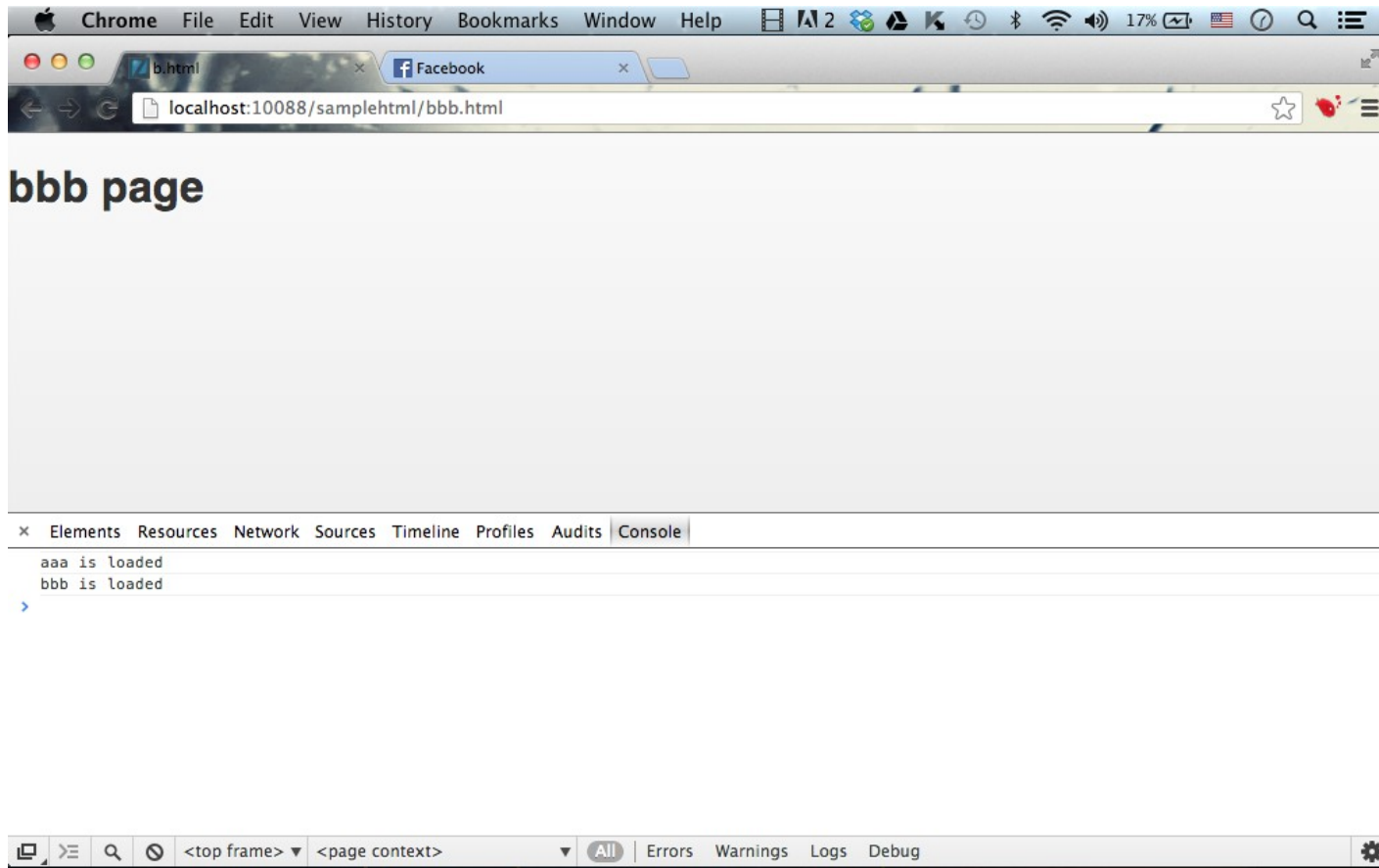
```
<!DOCTYPE html>
<html>
<head>
  <title>swatches sample</title>
  <link rel="stylesheet" href=
    "http://code.jquery.com/mobile/1.3.1/jquery.mobile-1.3.1.min.css" />
  <script src="http://code.jquery.com/jquery-1.9.1.min.js"></script>
  <script src=
    "http://code.jquery.com/mobile/1.3.1/jquery.mobile-1.3.1.min.js">
  </script>
</head>
<body>
```



The \$.mobile.loadPage Function

```
<div data-role="page" id="home">
  <div data-role="header">
    <h1>home title</h1>
  </div>
  <div data-role="content">
    <p>This is the home page...</p>
    <p><a href="aaa.html">aaa.html</a></p>
    <p><a href="bbb.html">bbb.html</a></p>
  </div>
  <div data-role="footer">
    <h4>home footer</h4>
  </div>
</div>
<script type="text/javascript">
  $(document).ready(function() {
    $.mobile.loadPage("aaa.html", {
      type: 'get'});
  });
</script>
</body>
</html>
```

The \$.mobile.loadPage Function



Caching Pages

- We can easily cache a web page by adding the data-role attribute into the div element that defines the page.

```
<div data-role="page" data-dom-cache="true">
```

- Using the jQueryMobile API we can set that all pages will be cached by default.

```
$.mobile.page.prototype.options.domCache = true;
```

Caching Pages

- We cache specific pages independently by calling the page function passing over true on each DOM object that represents a page.

```
$( '#my-page' ).page( true );
```

Pages

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- The ajax based pages loading mechanism supports backward and forward navigation, allows us to set various animated page transitions and allows us to display a page as a dialog window.

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The HTML5 Doctype Declaration

- The HTML page must start with the HTML 5 doctype in order to take full advantage of the the jQuery Mobile framework.

```
<!DOCTYPE html>
```

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The head Element

- The head element must include references to the jQuery and the jQuery Mobile java script files as well as to the mobile theme CSS in use.

```
<head>
  <title>Page Title</title>
  <link rel="stylesheet"
    href="http://code.jquery.com/mobile/1.3.1/jquery.mobile-1.3.1.min.css" />
  <script src="http://code.jquery.com/jquery-1.9.1.min.js"></script>
  <script src="http://code.jquery.com/mobile/1.3.1/jquery.mobile-1.3.1.min.js">
  </script>
</head>
```

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The `body` Element

- Inside the `body` element we should place a separated `div` element together with the `data-role="page"` attribute for each one of the pages.
- Within each and every `div` element (page container) we will place other `div` elements (children) with the header, content and footer data-roles.

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The `body` Element

```
<body>
  <div data-role="page">
    <div data-role="header">
      <h1>Hello Title</h1>
    </div>
    <div data-role="content">
      <p>Hello Content. Bla Bla Bla. </p>
    </div>
    <div data-role="footer">
      <h4>abelski sample</h4>
    </div>
  </div>
</body>
```

the `<body>` element can include multiple pages

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External Links

- When the user clicks a link that point at an external page in the same domain the jQuery Mobile framework will parse the link address and initiate an ajax request for displaying that external page. During the loading of the external page the user might see a loading spinner.
- If the loading succeeds then the external page will be added to the DOM and will be animated as if it was another page.



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Internal Links

- Single HTML document can contain multiple pages loaded together by stacking multiple divs with the `data-role="page"` attribute.
- Each of the page divs should include a unique ID (e.g. `id="home"`). These IDs will be used to link between the pages.

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Internal Links

```
<!DOCTYPE html>
<html>
  <head>
    <title>Multiple Pages Application</title>
    <link rel="stylesheet" href=
      "http://code.jquery.com/mobile/1.3.1/jquery.mobile-1.3.1.min.css" />
    <script src="http://code.jquery.com/jquery-1.9.1.min.js"></script>
    <script
      src="http://code.jquery.com/mobile/1.3.1/jquery.mobile-1.3.1.min.js">
    </script>
  </head>
</body>
```



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Internal Links

```
<div data-role="page" id="home">
  <div data-role="header">
    <h1>home title</h1>
  </div><!-- /header -->
  <div data-role="content">
    <p>This is the home page...</p>
    <p><a href="#about">about</a></p>
    <p><a href="#help">help</a></p>
  </div><!-- /content -->
  <div data-role="footer">
    <h4>home footer</h4>
  </div><!-- /footer -->
</div>
```

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Internal Links

```
<div data-role="page" id="about">
  <div data-role="header">
    <h1>about title</h1>
  </div><!-- /header -->
  <div data-role="content">
    <p>This is the about page...</p>
    <p><a href="#home">home</a></p>
    <p><a href="#help">help</a></p>
  </div><!-- /content -->
  <div data-role="footer">
    <h4>about footer</h4>
  </div><!-- /footer -->
</div>
```

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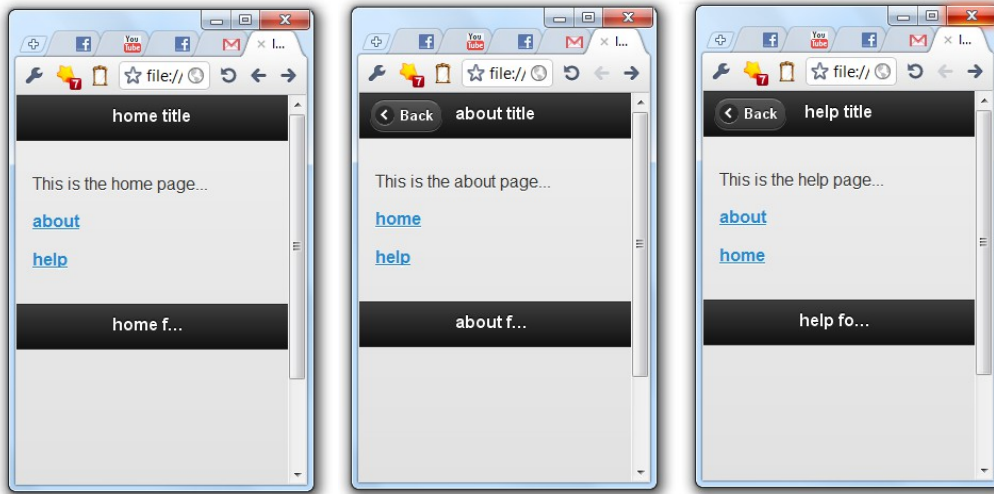
Internal Links

```
<div data-role="page" id="help">
  <div data-role="header">
    <h1>help title</h1>
  </div><!-- /header -->
  <div data-role="content">
    <p>This is the help page...</p>
    <p><a href="#about">about</a></p>
    <p><a href="#home">home</a></p>
  </div><!-- /content -->
  <div data-role="footer">
    <h4>help footer</h4>
  </div><!-- /footer -->
</div>

</body>
```

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Internal Links



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Back Linking

- If we place `data-rel="back"` inside the `<a>` element it will function as a back button.

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Back Linking

```
<!DOCTYPE html>
<html>
  <head>
    <title>Multiple Pages Application</title>
    <link rel="stylesheet"
      href="http://code.jquery.com/mobile/1.3.1/jquery.mobile-1.3.1.min.css"/>
    <script src="http://code.jquery.com/jquery-1.9.1.min.js">
    </script>
    <script s
      rc="http://code.jquery.com/mobile/1.3.1/jquery.mobile-1.3.1.min.js">
    </script>
  </head>
</body>
```



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Back Linking

```
<div data-role="page" id="home">
  <div data-role="header">
    <h1>home title</h1>
  </div><!-- /header -->
  <div data-role="content">
    <p>This is the home page...</p>
    <p><a href="#about">about</a></p>
    <p><a href="#help">help</a></p>
  </div><!-- /content -->
  <div data-role="footer">
    <h4>home footer</h4>
  </div><!-- /footer -->
</div>
```

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Back Linking

```
<div data-role="page" id="about">
  <div data-role="header">
    <h1>about title</h1>
  </div><!-- /header -->
  <div data-role="content">
    <p>This is the about page...</p>
    <p><a href="#home">home</a></p>
    <p><a href="#help">help</a></p>
    <p><a href="" data-rel="back">back</a></p>
  </div><!-- /content -->
  <div data-role="footer">
    <h4>about footer</h4>
  </div><!-- /footer -->
</div>
```

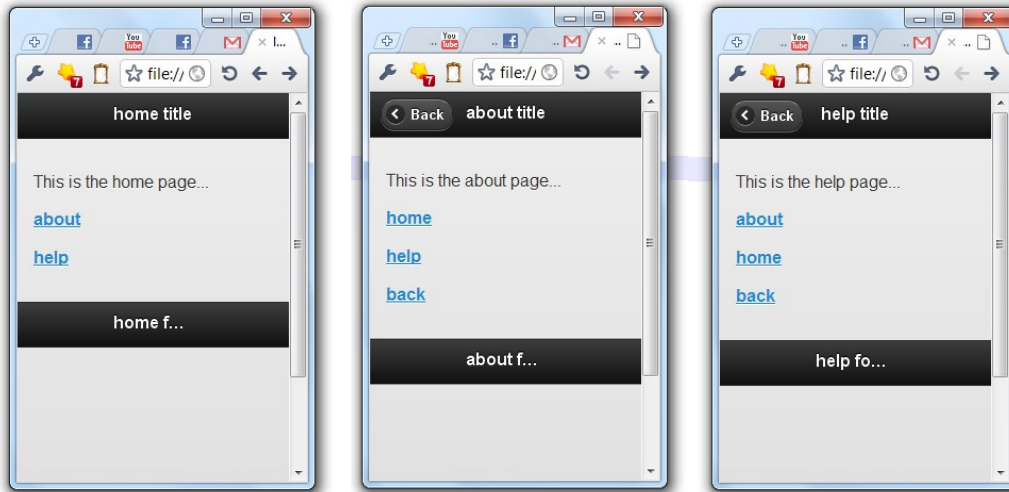
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Back Linking

```
<div data-role="page" id="help">
  <div data-role="header">
    <h1>help title</h1>
  </div><!-- /header -->
  <div data-role="content">
    <p>This is the help page...</p>
    <p><a href="#about">about</a></p>
    <p><a href="#home">home</a></p>
    <p><a href="" data-rel="back">back</a></p>
  </div><!-- /content -->
  <div data-role="footer">
    <h4>help footer</h4>
  </div><!-- /footer -->
</div>
</body>
```

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Back Linking



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Page Transition

- We can select the page transition effect out of six possible effects. The default page transition is right to left slide.
- In order to set a custom transition effect we should add the `data-transition` attribute to our link with one of the following possible values: `slide`, `slideup`, `slidedown`, `pop`, `fade` or `flip`.

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Page Transition

```
<!DOCTYPE html>
<html>
  <head>
    <title>Transitions</title>
    <link rel="stylesheet"
      href="http://code.jquery.com/mobile/1.3.1/jquery.mobile-1.3.1.min.css" />
    <script src="http://code.jquery.com/jquery-1.9.1.min.js"></script>
    <script src="http://code.jquery.com/mobile/1.3.1/jquery.mobile-1.3.1.min.js">
    </script>
  </head>
  <body>
```



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Page Transition

```
<div data-role="page" id="first">
  <div data-role="header">
    <h1>first title</h1>
  </div><!-- /header -->
  <div data-role="content">
    <p>This is the first page...</p>
    <p><a href="#second" data-transition="fade">second fade</a></p>
    <p><a href="#second" data-transition="slide">second slide</a></p>
    <p><a href="#second" data-transition="slideup">second slideup</a></p>
    <p><a href="#second" data-transition="slidedown">second slidedown</a></p>
    <p><a href="#second" data-transition="pop">second pop</a></p>
    <p><a href="#second" data-transition="flip">second flip</a></p>
  </div><!-- /content -->
  <div data-role="footer">
    <h4>first footer</h4>
  </div><!-- /footer -->
</div>
```

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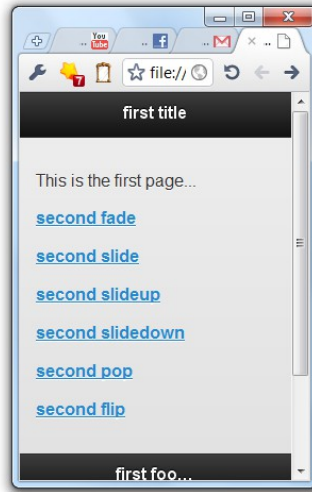
Page Transition

```
<div data-role="page" id="second">
  <div data-role="header">
    <h1>second title</h1>
  </div><!-- /header -->
  <div data-role="content">
    <p>This is the second page...</p>
    <p><a href="#first">first</a></p>
  </div><!-- /content -->
  <div data-role="footer">
    <h4>second footer</h4>
  </div><!-- /footer -->
</div>

</body>
</html>
```

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Page Transition



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Email Links

- Placing "mailto:___@___.___" as the value of href will create a link that initiates the email sending application.

```
<a href="mailto:haim.michael@gmail.com">send email</a>
```

- We can even specify the cc, bcc, subject and the body.

```
<a href="mailto:haim@gmail.com?
cc=dave@abc.com&bcc=jane@yahoo.com&subject=Happy
%20Birthday&body=I%20with%20the%20Best!">send email</a>
```

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Phone Links

- Placing "tel:_____" as the value of href will create a link that initiates the phone dialer application.

```
<a href="tel:972546655837">call email</a>
```

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Links That Support Ajax

- When linking to another web page within the same domain or to another page defined within the same document jQueryMobile will use ajax.

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Links That Disable Ajax

- When linking to another web page in another domain jQueryMobile won't use ajax.

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The `data-ajax` Attribute

- When adding this attribute assigned with `false` to the `<a>` link element on our web page the jQueryMobile framework won't use ajax.

```
<a href="http://www.abelski.com" data-ajax="false">click here</a>
```

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The `rel` Attribute

- When adding this attribute assigned with `"external"` to the `<a>` link element on our web page the jQueryMobile framework will handle the link as an external one and won't use ajax.

```
<a href="http://www.abelski.com" rel="external">click here</a>
```

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The data-prefetch Attribute

- When adding this attribute to the `<a>` link element on our web page the jQueryMobile framework will preload and cach the other web page.

```
<a href="http://www.abelski.com" data-prefetch>click here</a>
```

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The `$.mobile.loadPage` Function

- Using this function we can dynamically preload other web pages and have them cached ready for use.

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The \$.mobile.loadPage Function

```
<!DOCTYPE html>
<html>
<head>
  <title>swatches sample</title>
  <link rel="stylesheet" href=
    "http://code.jquery.com/mobile/1.3.1/jquery.mobile-1.3.1.min.css" />
  <script src="http://code.jquery.com/jquery-1.9.1.min.js"></script>
  <script src=
    "http://code.jquery.com/mobile/1.3.1/jquery.mobile-1.3.1.min.js">
  </script>
</head>
<body>
```



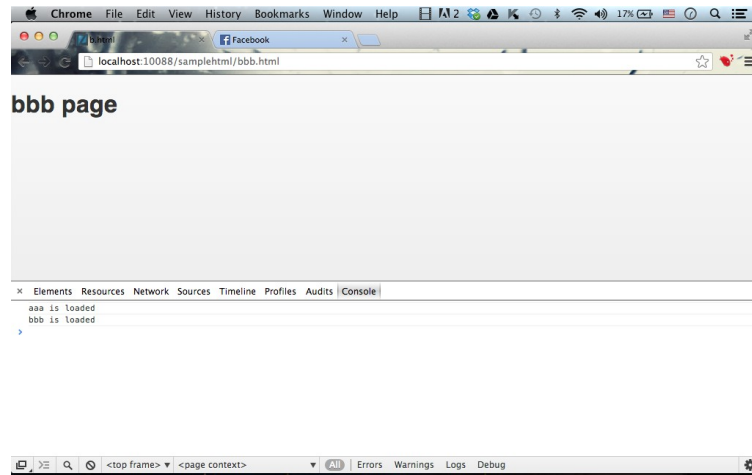
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The \$.mobile.loadPage Function

```
<div data-role="page" id="home">
  <div data-role="header">
    <h1>home title</h1>
  </div>
  <div data-role="content">
    <p>This is the home page...</p>
    <p><a href="aaa.html">aaa.html</a></p>
    <p><a href="bbb.html">bbb.html</a></p>
  </div>
  <div data-role="footer">
    <h4>home footer</h4>
  </div>
</div>
<script type="text/javascript">
  $(document).ready(function() {
    $.mobile.loadPage("aaa.html", {
      type: 'get'});
  });
</script>
</body>
</html>
```

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The `$.mobile.loadPage` Function



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Caching Pages

- We can easily cache a web page by adding the data-role attribute into the div element that defines the page.

```
<div data-role="page" data-dom-cache="true">
```

- Using the jQueryMobile API we can set that all pages will be cached by default.

```
$.mobile.page.prototype.options.domCache = true;
```

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Caching Pages

- We cache specific pages independently by calling the page function passing over true on each DOM object that represents a page.

```
$('#my-page').page(true);
```

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