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6MMCS001W MOBILE USER EXPERIENCE

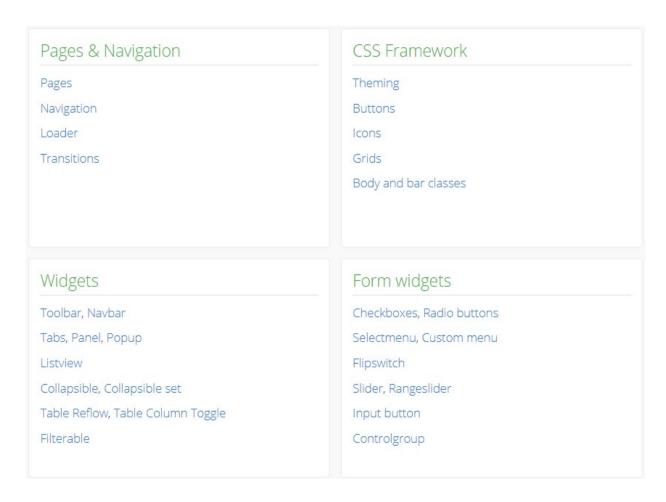
¡Query Mobile UI – structure; links; transitions; navigation; buttons; lists

iQuery Mobile Ul





Demo of jQuery Mobile UI elements



¡Query mobile

- A user interface framework based on ¡Query that works across all popular phones, tablet, ereader, and desktop platforms.
- Built with accessibility and universal access in mind, we follow progressive enhancement and responsive web design (RWD) principles.
- HTML5 Markup-driven configuration makes it easy to learn, but a powerful API makes it easy to deeply customize the library.

jQuery Mobile basic pages anatomy

HTML5 document

<!DOCTYPE html>

```
<html>
<head>
<meta charset="utf-8">
<title>jQuery Mobile Page</title>
</head>
<body>
</body>
</html>
```

¡Query, Mobile + Theme CSS [URL]

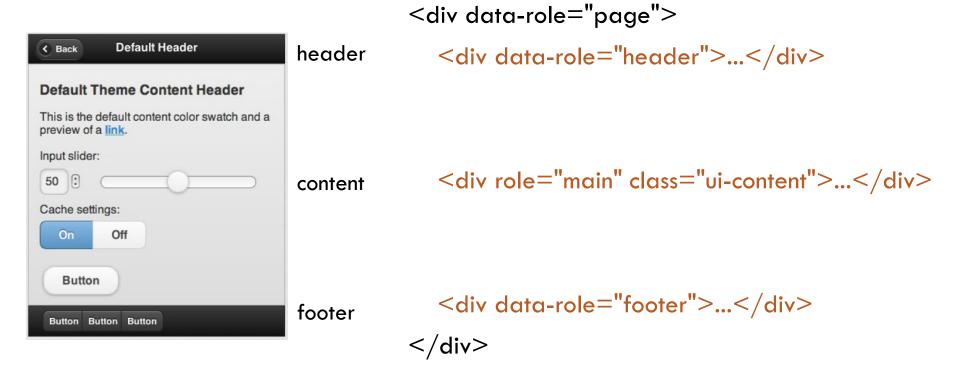
```
<!DOCTYPE html>
<html>
                                                      Check latest versions on
<head>
<meta charset="utf-8">
                                                      ¡Query Mobile Website
<title>iQuery Mobile Page</title>
   <meta name="viewport" content="width=device-width, initial-scale=1">
   <!-- the three things that ¡Query Mobile needs to work -->
   <link rel="stylesheet" href="http://code.jquery.com/mobile/1.4.5/jquery.mobile-</pre>
   1.4.5.min.css" />
   <script src="http://code.jquery.com/jquery-1.11.1.min.js"></script>
   <script src="http://code.jquery.com/mobile/1.4.5/jquery.mobile-1.4.5.min.js"></script>
</head>
```

¡Query, Mobile + Theme CSS [locally defined]

```
<!DOCTYPE html>
<html>
<head>
                                                  Check latest versions on
<meta charset="utf-8">
                                                  ¡Query Mobile Website
<title>iQuery Mobile Page</title>
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <!-- the three things that iQuery Mobile needs to work -->
  <link rel="stylesheet" href="css/jquery.mobile-1.4.5.css" />
  <script src="js/jquery.js" type="text/javascript"></script>
  <script src="js/jquery.mobile-1.4.5.js" type="text/javascript"></script>
</head>
```

Data-role="page"

```
<body>
  <!-- This is page 1-->
    <div data-role="page" id="Page1">
        <!-- jQuery Mobile page content goes here -->
        </div> <!-- /page -->
    </body>
```



Simple content

```
<div data-role="page">
   <div data-role="header">
     <h1>Page Title</h1>
   </div><!-- /header -->
   <div role="main" class="ui-content">
     Page content goes here.
   </div><!-- /content -->
   <div data-role="footer">
     <h4>Page Footer</h4>
     </div><!-- /footer -->
   </div>
   <!-- /page -->
</body>
```

iQuery Mobile Navigation

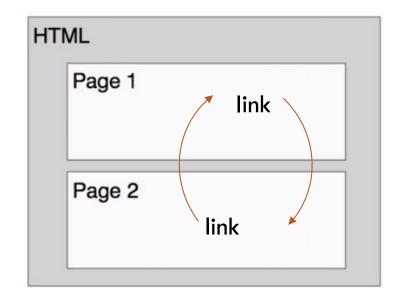
Connecting pages

```
<body>
<!-- This is page 1-->
   <div data-role="page" id="Page1">
      <div data-role="header"><h1>Page 1</h1></div>
      <div role="main" class="ui-content">
           This is the content for page 1 with a <a href="#Page2">link to page 2</a>
      </div>
      <div data-role="footer"><h1>Footer</h1></div>
   </div>
<!-- This is page 2-->
   <div data-role="page" id="Page2">
      <div data-role="header"><h1>Page 2</h1></div>
      <div role="main" class="ui-content">
           This is the content for page 2 with a <a href="#Page1">link to page 1 < /a >
      </div>
      <div data-role="footer"><h1>Footer</h1></div>
   </div>
  /body>
Dr Daphne Economou – 6MMCS001W Mobile User Experience Lecture
                                                             10/18/2020
```

Recap mobile page architecture

Internal pages

```
<body>
  <div data-role="page">
          (page content)
  </div>
  <div data-role="page">
          (page content)
        </div>
</body>
```



Various types of links

```
<div role="main" class="ui-content">
       <h2>Demo of various types of links</h2>
       This page contains various types of links:
       This is the content for page 1 with a
       <a href="#Page1">an internal link to page 1</a>
       This is a local link to (the web site) a page named
       <a href="Basic_Page_Header_Container_footer.html"
       target="_blank">Basic_Page_Header_Container_footer.html<
       /q>
       This is an external link
       <a href=<u>https://www.google.co.uk/</u>
       target="_blank">Google</a>
       This is a <a data-rel="back">Back</a> Back button.
</div>
```

Navigation with transitions

```
<div class="ui-content">
      <h2>Transitions</h2>
      ul data-role="listview">
        <li><a href="#page2" data-transition="fade">Go to page 2 with fade</a>
        <li><a href="#page2" data-transition="flip" >Go to page 2 with flip</a>
        <li><a href="#page2" data-transition="pop">LGo to page 2 with pop</a>
        <li><a href="#page2" data-transition="slide">Go to page 2 with slide</a>
        <a href="#page2" data-transition="slidedown">Go to page 2 with</a>
                  slidedown</a>
        <a href="#page2" data-transition="slideup">Go to page 2 with</a>
                  slideup</a>
      </div>
```

example

dialogues

Then try to change the theme

```
<div id="page2" data-role="page" data-dialog="true" data-theme="a">
```

example

¡QueryMobile navigation UI elements

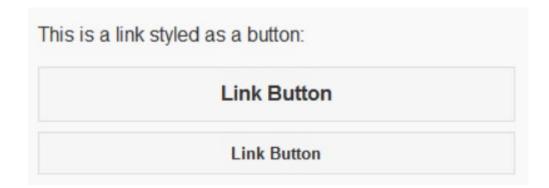
Buttons

Navbars

¡QueryMobile buttons

```
<button>Button
<input type="button" value="Button"/>
<a href="#" class="ui-btn">Button</a>
```

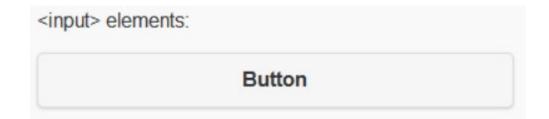
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Button element



Input button



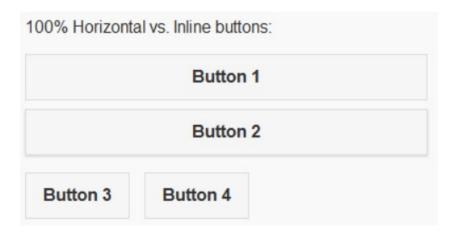
Button styles

```
<a href="#" class="ui-btn ui-corner-all">Anchor</a>
<button class="ui-btn ui-corner-all">Button</button>
<a href="#" class="ui-btn ui-shadow">Anchor</a>
<button class="ui-btn ui-shadow">Button/button>
<a href="#" class="ui-btn ui-mini">Anchor</a>
<button class="ui-btn ui-mini">Button/button>
<a href="#" class="ui-btn ui-btn-b">Anchor</a>
<button class="ui-btn ui-btn-b">Button</button>
```

vertical vs. inline buttons

```
<!-- vertical vs. inline buttons -->

100% Horizontal vs. Inline buttons:
<a href="#" class="ui-btn">Button 1</a>
<a href="#" class="ui-btn ui-shadow">Button 2</a>
<a href="#" class="ui-btn ui-btn-inline">Button 3</a>
<a href="#" class="ui-btn ui-btn-inline">Button 3</a>
<a href="#" class="ui-btn ui-btn-inline">Button 4</a>
```



grouping buttons in a controlgroup

These buttons are part of a control group:

button a button b button c

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```
<!-- buttons with icons -->

<a href="#" class="ui-btn vi-icon-arrow-v vi-btn-icon-top">Up</a>
<a href="#" class="vi-btn vi-icon-arrow-d vi-btn-icon-bottom">Down</a>
<a href="#" class="vi-btn vi-icon-arrow-l vi-btn-icon-left">Left</a>
<a href="#" class="vi-btn vi-icon-arrow-r vi-btn-icon-right">Right</a>
<a href="#" class="vi-btn vi-icon-delete vi-corner-all vi-btn-icon-notext">Delete</a>
```



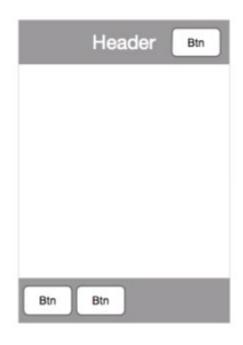
example

¡QueryMobile toolbars

Two types of Toolbars: Headers and Footers

¡QueryMobile toolbars with controls

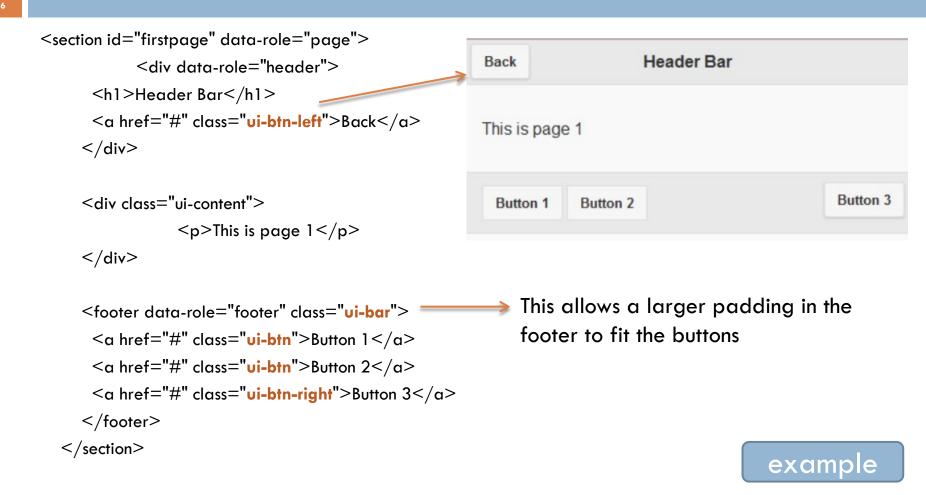
Toolbars can contain controls



```
<div data-role="header">
     <h1>Header</h1>
     <a href="#" class="ui-btn-right">Btn</a>
</div>
```

```
<div data-role="footer">
    <a href="#" class="ui-btn">Btn</a>
    <a href="#" class="ui-btn">Btn</a>
</div>
```

¡QueryMobile toolbars with controls

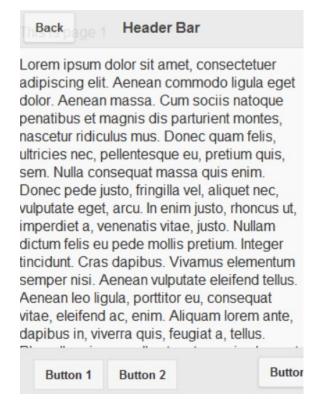


Fixed position of toolbars

data-position="fixed"

Header Bar Back ווווס ום צמעכ ו Lorem ipsum dolor sit amet. consectetuer adipiscing elit. Aenean commodo ligula eget dolor. Aenean massa. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Donec quam felis, ultricies nec, pellentesque eu, pretium quis, sem. Nulla conseguat massa quis enim. Donec pede justo, fringilla vel, aliquet nec, vulputate eget, arcu. In enim justo, rhoncus ut, imperdiet a, venenatis vitae, justo. Nullam dictum felis eu pede mollis pretium. Integer tincidunt. Cras dapibus. Vivamus elementum semper nisi. Aenean vulputate eleifend tellus, Aenean Buttor Button 2 Button 1

data-fullscreen="true"



```
<!-- This is the first page -->
  <section id="firstpage" data-role="page">
    <header data-role="header">
     <h1>Header Bar</h1>
     <nav data-role="navbar">
      ul>
         <a href="#" class="ui-btn vi-icon-home vi-btn-icon-top vi-btn-active vi-state-persist">Home</a>
         <a href="#secondpage" class="ui-btn vi-icon-calendar vi-btn-icon-top">Calendar</a>
         <a href="#" class="ui-btn vi-icon-clock vi-btn-icon-top">Time</a>
         <a href="#" class="ui-btn vi-icon-phone vi-btn-icon-top">Calls</a>
      </nav>
    </header>
    <div class="ui-content">
      This is home page
    </div>
  </section>
```

example

- Introduced jQueryMobile
- Introduced jQueryMobile UI
- Pages structure
- Basic navigation

iQueryMobile content lists

Simple list

Ordered List Example

1. List Item 1

<div class="ui-content"> <h2>Ordered L

<h2>Ordered List Example</h2>

List Item 1

=

List Item 2

List Item 3

List Item 4

List Item 5

List Item 6

<h2>Unordered List Example</h2>

data-role="listview">

List Item 1

List Item 2

List Item 3

List Item 4

List Item 5

List Item 6

</div>

Ordered List Example

Using Lists

1. List Item 1

List Item 2
 List Item 3

4. List Item 4

5. List Item 5

6. List Item 6

Unordered List Example

List Item 1

List Item 2

List Item 3

List Item 4

List Item 5List Item 6

Unordered List Example

List Item 1

2. List Item 2

3. List Item 3

4. List Item 4

5 List Item 5

6 List Item 6

List Item 2

List Item 3

List Item 4

List Item 5

List Item 6

example

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```
<div class="ui-content">
      <h2>Ordered List Example</h2>

    data-role="listview">

         List Item 1
         List Item 2
        <li><a href="#">List Item 3</a></li>
        <li><a href="#">List Item 4</a></li>
         <li><a href="#">List Item 5</a></li>
         List Item 6
      <h2>Unordered List Example</h2>
      ul data-role="listview">
        List Item 1
        List Item 2
        <li><a href="#">List Item 3</a>
         <li><a href="#">List Item 4</a></li>
         <li><a href="#">List Item 5</a></li>
        List Item 6
      </div>
```

Ordered List Example List Item 1 2 List Item 2 3 List Item 3 0 4 List Item 4 5 List Item 5 6 List Item 6 Unordered List Example List Item 1 List Item 2 List Item 3 List Item 4 List Item 5 List Item 6 example

Using Lists

Ordered Liet Evenenie

List divider

```
<div class="ui-content">
       <h2>Ordered List Example</h2>

    data-role="listview">

         <li><a href="#"> List Item 1 </a></li>
         <li><a href="#"> List Item 2 </a></li>
         <li><a href="#">List Item 3 </a></li>
         Other items
         <li><a href="#">List Item 4 </a></li>
         <li><a href="#">List Item 5 </a></li>
        <li><a href="#">List Item 6 </a></li>
      <h2>Unordered List Example</h2>
       ul data-role="listview">
         <li><a href="#"> List Item 1 </a></li>
         <li><a href="#"> List Item 2 </a></li>
         <li><a href="#">List Item 3 </a></li>
         <li><a href="#">List Item 4 </a></li>
         <li><a href="#">List Item 5 </a></li>
        <li><a href="#">List Item 6 </a></li>
                                                    </div>
```

Ordered List Example	
1. List Item 1	0
2. List Item 2	0
3. List Item 3	0
Other items	
1. List Item 4	0
2. List Item 5	0
3. List Item 6	0
	0
Unordered List Example	
Unordered List Example List Item 1	0
	0
List Item 1	
List Item 1 List Item 2	0
List Item 1 List Item 2 List Item 3	0

Count bubble

List Item 6

37/46 **List View Dividers** <div class="ui-content"> Ordered List Example <h2>Ordered List Example</h2> data-role="listview"> 1 List Item 1 5 List Item 1 5 List Item 1 8 2. List Item 2 List Item 1 10 10 3 List Item 3 data-role="list-divider">Other items Other items List Item 4 List Item 5 1 List Item 4 List Item 6 2 List Item 5 <h2>Unordered List Example</h2> 3 List Item 6 ul data-role="listview"> List Item 1 List Item 2 List Item 3 List Item 4 List Item 5

example

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```
<div class="ui-content">
      <h2>Ordered List Example</h2>

    data-role="listview">

          Farm animals
             <a href="#"><img src="images/cat.png" class="ui-li-icon">Cats</a>
             <a href="#"><img src="images/dog.png" class="ui-li-icon">Dogs </a>
             <a href="#"><img src="images/cow.png" class="ui-li-icon">Cows </a>
           data-role="list-divider">Zoo animals
             <a href="#"><img src="images/elephant.png" class="ui-li-icon">Elephant </a>
             <li><a href="#">Tigers</a>
                                                                              Ordered List Example
            <li><a href="#">Giraffes</a>
                                                                              Farm animals
      1. Cats
</div>
                                                                             2. Dogs
                                                                             3 Cows
                                                                              Zoo animals
                                                                             1. Elephant
                                                                              Tigers
                                                                              3 Giraffes
```

Thumbnails

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```
<div class="ui-content">
                              <h2>Ordered List Example</h2>

    data-role="listview">

                                                  Farm animals
                                                             <a href="#"><img src="images/cat.png" class="ui-li-thumb">Cats</a>
                                                             <a href="#"><img src="images/dog.png" class="ui-li-thumb">Dogs </a>
                                                             <a href="#"><img src="images/cow.png" class="ui-li-thumb">Cows </a>
                                                   data-role="list-divider">Zoo animals
                                                            <|i><a href="#"><img src="images/elephant.png" class="ui-li-thumb">Elephant</a> | Unordered List Example | Contact 
                                                             <li><a href="#">Tigers</a>
                                                                                                                                                                                                                                                                                                                                                                                                                       Cats
                                                           <li><a href="#">Giraffes</a>
                              </div>
                                                                                                                                                                                                                                                                                                                                                                                                                      Dogs
                                                                                                                                                                                                                                                                                                                                                                                                                      Cows
                                                                                                                                                                                                                                                                                                                                                                                         Zoo animals
                                                                                                                                                                                                                                                                                                                                                                                                                      Elephant
                                                                                                                                                                                                                                                                                                                                                                                         Tigers
                                                                                                                                                                                                                                                                                                                                                                                        Giraffes
```

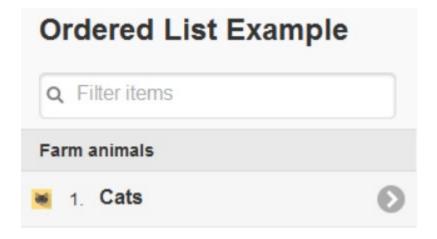
List filtering

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```
<div class="ui-content">
      <h2>Ordered List Example</h2>
      data-role="list-divider">Farm animals
            <a href="#"><img src="images/cat.png" class="ui-li-icon">Cats</a>
            <|i><a href="#"><img src="images/dog.png" class="ui-li-icon">Dogs </a>
            <a href="#"><img src="images/cow.png" class="ui-li-icon">Cows </a>
          data-role="list-divider">Zoo animals
            <a href="#"><img src="images/elephant.png" class="vi-li-icon">Elephant </a>
            <li><a href="#">Tigers</a>
            <li><a href="#">Giraffes</a>
      </div>
                         Ordered List Example
                                                            Ordered List Example
                                                   0
                          Q C
                                                             Q ca
                         Farm animals
                                                            Farm animals
                            1. Cats
                                                              1 Cats
```

2 Cows

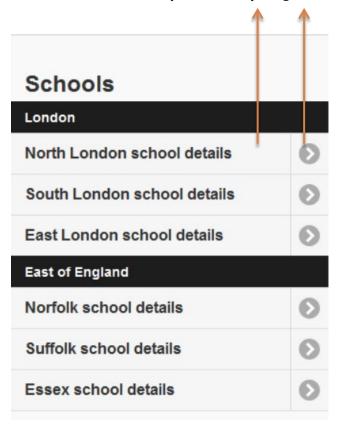
data-filter-placeholder="Filter items"



Split buttons

```
<div class="ui-content">
     <h2>Schools</h2>
     ul data-role="listview" data-divider-theme="b">
      data-role="list-divider">London
         <a href="#school-details">North London school details</a>
             <a href="#school-notes">School notes</a>
         >
            <a href="#school-details">South London school details</a>
            <a href="#school-notes">School notes</a>
         <a href="#school-details">East London school details</a>
            <a href="#school-notes">School notes</a>
         data-role="list-divider">East of England
         <li>>
             <a href="#school-details">Norfolk school details</a>
             <a href="#school-notes">School notes</a>
          <
             <a href="#school-details">Suffolk school details</a>
             <a href="#school-notes">School notes</a>
         <a href="#school-details">Essex school details</a>
             <a href="#school-notes">School notes</a>
         </div>
```

It can take us to separate pages





Rich content

```
ul data-role="listview" data-inset="true">
    data-role="list-divider">Monday, November 14
    <a href="#">
      <h4>To Do Item 1</h4>
      To do item 1 summary
      Due at 12pm
      pThis is the detail text for To Do Item 1 < p
    </a>
    <li><a href="#">
      <h4>To Do Item 2</h4>
      To do item 2 summary
      Due at 2pm
      This is the detail text for To Do Item 2 
    </a>
     How would you add a thumbnail image?
```

Monday, November 14 Due at 12pm To Do Item 1 To do item 1 summary This is the detail text for ToDo Item 1 Due at 2pm To Do Item 2 To do item 2 summary This is the detail text for ToDo Item 2 Tuesday, November 15 Due at 10:30am To Do Item 3 To do item 3 summary This is the detail text for ToDo Item 3 To Do Item 4 To do item 4 summary This is the detail text for ToDo Item 4

example

Practise and challenges for revision

- Create 3 pages with a fixed header and footer
- The header should contain a back button
- The footer should contain a home button and two more buttons to navigate to page 2 and 3
- Page one should contain a list with at least two dividers and 3 items in each divider and allow filtering
- Page 2 should contain a list with rich content
- Page 3 should contain a button that loads as forth page as dialogue with a pop up effect



Reading

AEL

- ¡QueryMobile structure; lists; dialogue; buttons; icons; navigation;
 grouping; transitions
- http://demos.jquerymobile.com/1.4.5/