jQuery
mobile framework.

jQuery Mobile

Web Delivery for ALL!

Who?

Marc Grabanski

jQuery UI Datepicker

MarcGrabanski.com

LOTS of UI Dev

Who?

Current

Talent Evangelist
& UI/UX Developer

MJG International
www.mjg.in

Frontend Masters

5 Intense Video Workshops.
4 Incredible Teachers.

www.MJG.in/FrontendMasters

The Great Promise of the Web

The web is for everyone
and all can view it

jQuery

mobile framework.

Not "Mobile Only" Mobile First

Desktop too!

Source
Your Sources

I visited

filament group

and talked to

about

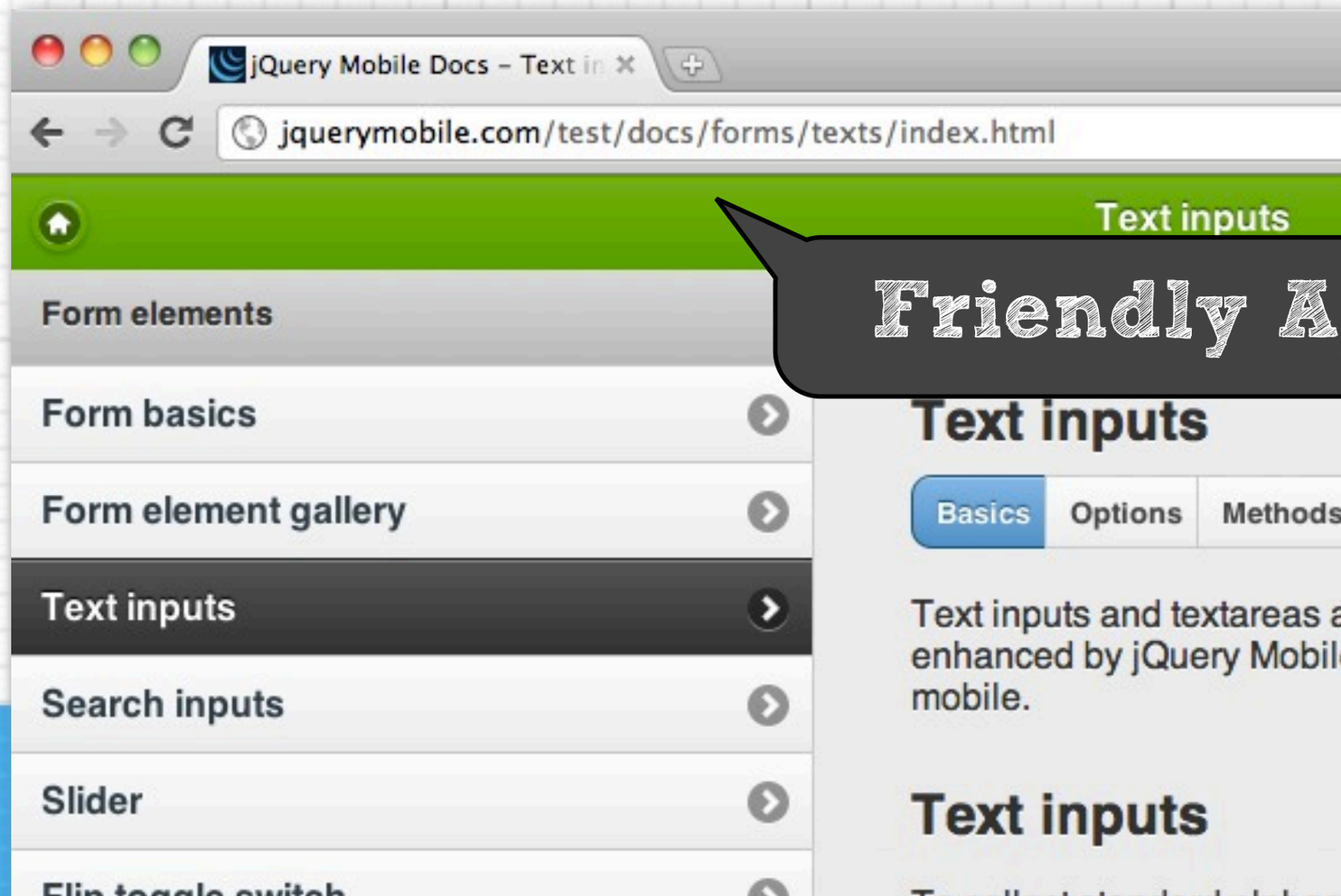
jQuery mobile framework.

Why jQuery Mobile?

4 Main Reasons to Use jQuery Mobile

#1. Ajaxified Navigation

Faster subsequent page loads



Friendly Ajax URLs

#2. Layout and Theming Engine

Quickly style and extend styles

Bars

The default theme contains the following five Bar styles:

- Bar A
- Bar B
- Bar C
- Bar D
- Bar E

Content Blocks

The default theme also includes color swatch values for use in content blocks, designed to coordinate with the header color swatches in the theme.

- Block A
- Block B

Lists & Buttons

Each swatch also includes default styles for interactive elements like list items and buttons.

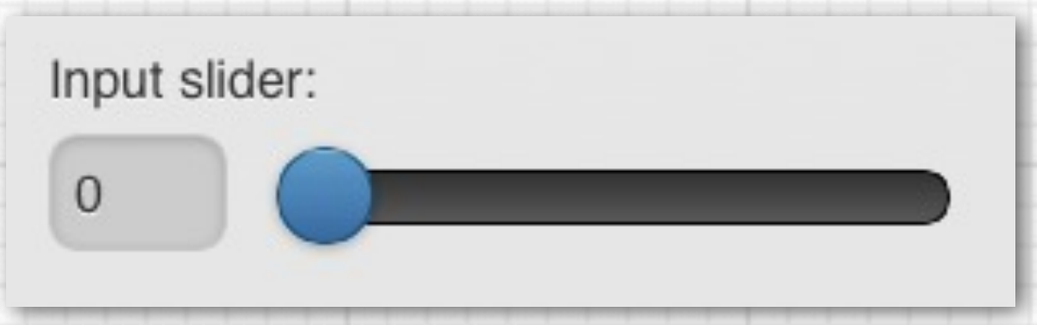
- List item
- List item
- List item
- List item
- List item
- List item
- List item
- List item

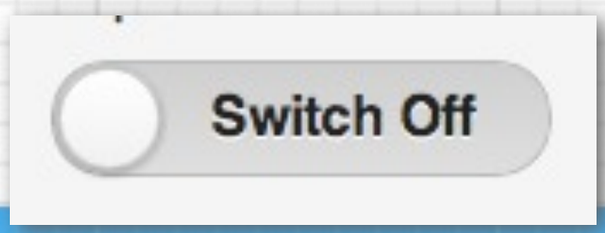
This will produce a 33/33/33% grid for our content.

Block A	Block B	Block C

#3
Touch Friendly Inputs (and widgets)

Improved UX for form inputs



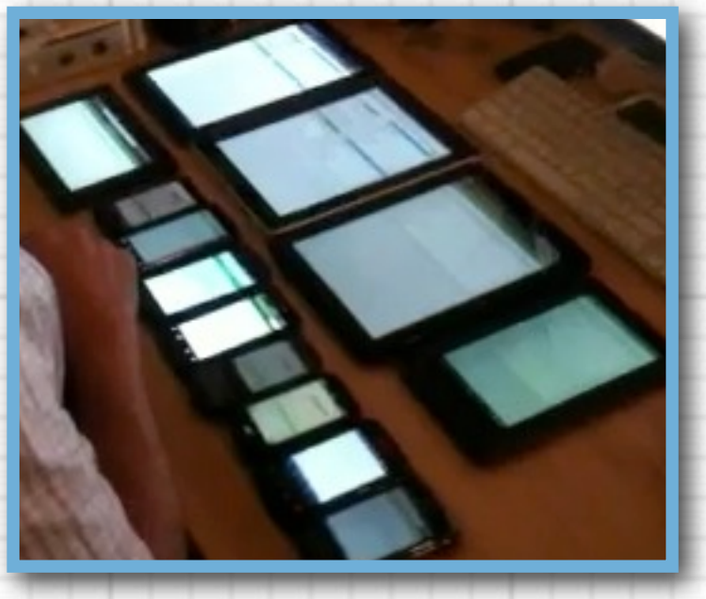


#4
Widest Browser Coverage

Web living up to it's promise

Devices Tested

jQuery Mobile Testing Lab



Fully Supported

- iOs 3.2+, Android 2.1+/Honeycomb
- Windows Phone 7
- Blackberry 6.0/Playbook
- Palm WebOS 1.4+
- Mobile Opera & Mobile Firefox
- Amazon Kindle 3 & Fire
- Desktop Chrome, FF, IE 7+, Opera

Progressive Enhancement

C-Grade: Basic HTML

+ B-Grade: Enhanced Style, No Ajax

++ A-Grade: Full Enhanced Style, Ajax and CSS Transitions

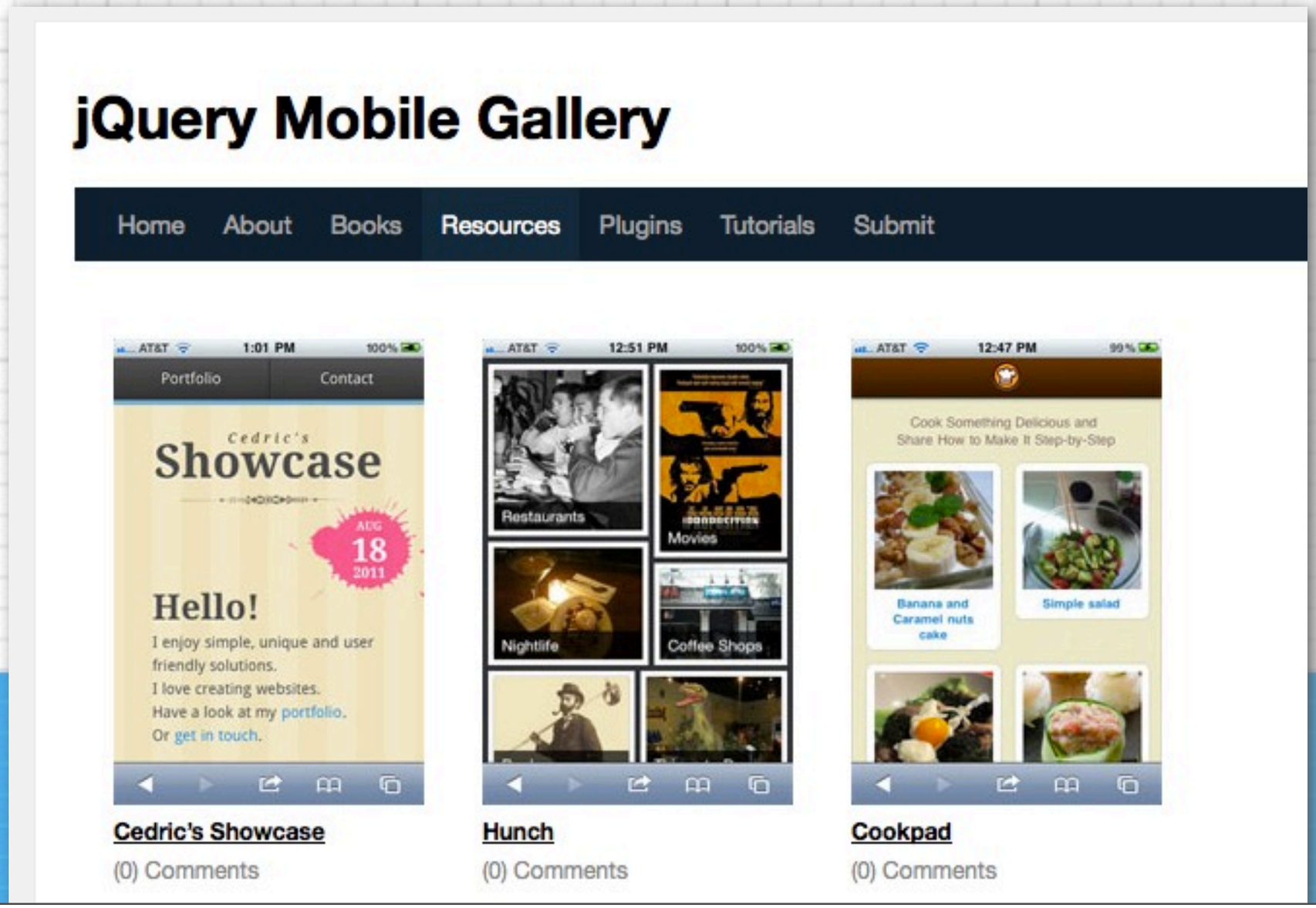
You'll always see...something

jQuery
mobile framework.

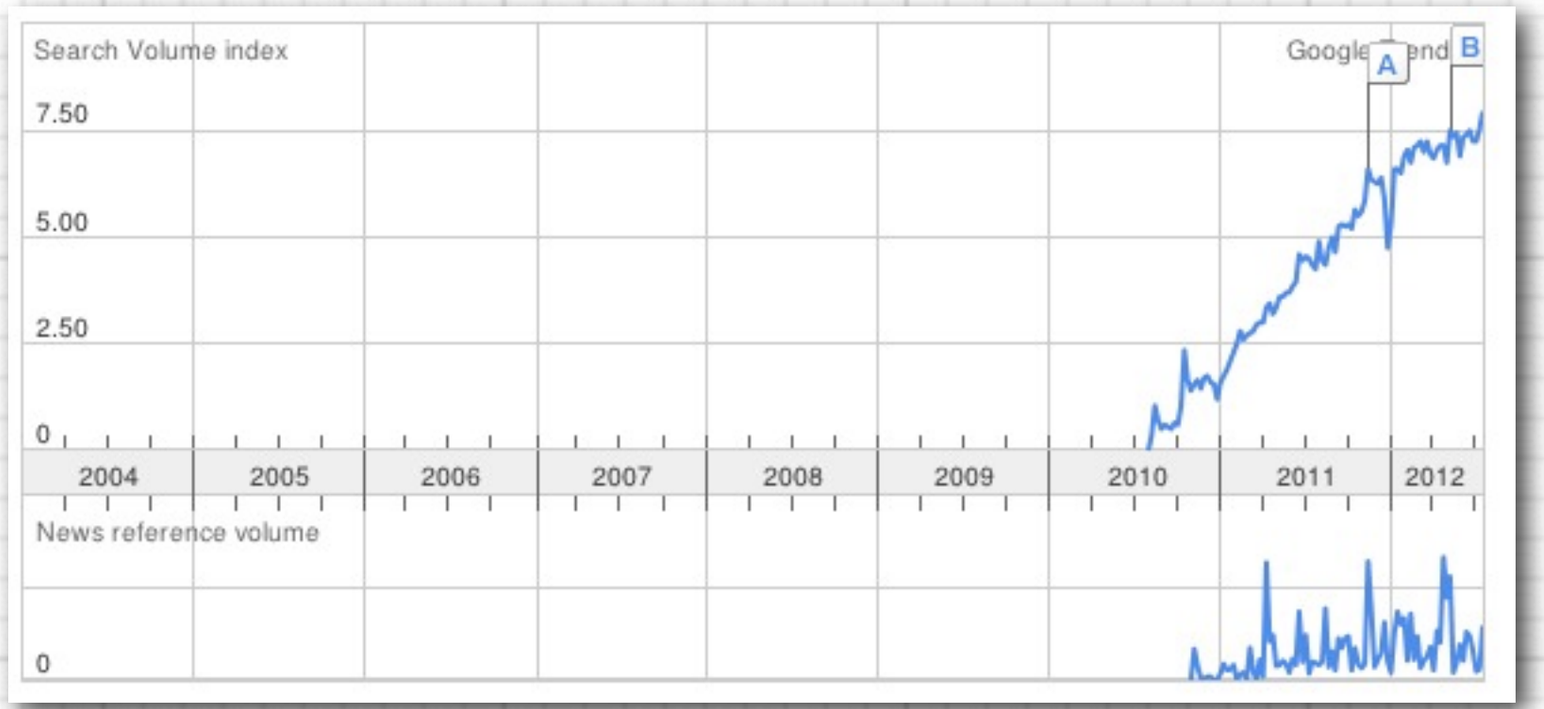
it's alive!

Gallery

http://jqmgallery.com



and growing...



jQuery mobile framework.

http://www.google.com/trends/?q=jquery+mobile

Two popular mobile frameworks

Sencha
"app first"

jQuery Mobile
"web first"

http://www.google.com/trends/?q=jquery+mobile,+sencha,+dojo+mobile,+jqmobi

jQuery Mobile + Adobe

Embedded into Creative Suite
Sponsors jQuery Mobile Dev

Dev Snapshot

http://jquerymobile.com/test

One More *Magical* File

29kb

~18kb

Get the (Coding)Party

Including Latest:

```
<link href="http://code.jquery.com/mobile/latest/jquery.mobile.min.css" rel="stylesheet" type="text/css" />

<script src="http://code.jquery.com/jquery-1.7.4.min.js"></script>

<script src="http://code.jquery.com/mobile/latest/jquery.mobile.js"></script>
```

#1 - Ajaxified Navigation

No page refresh?! How does that work?

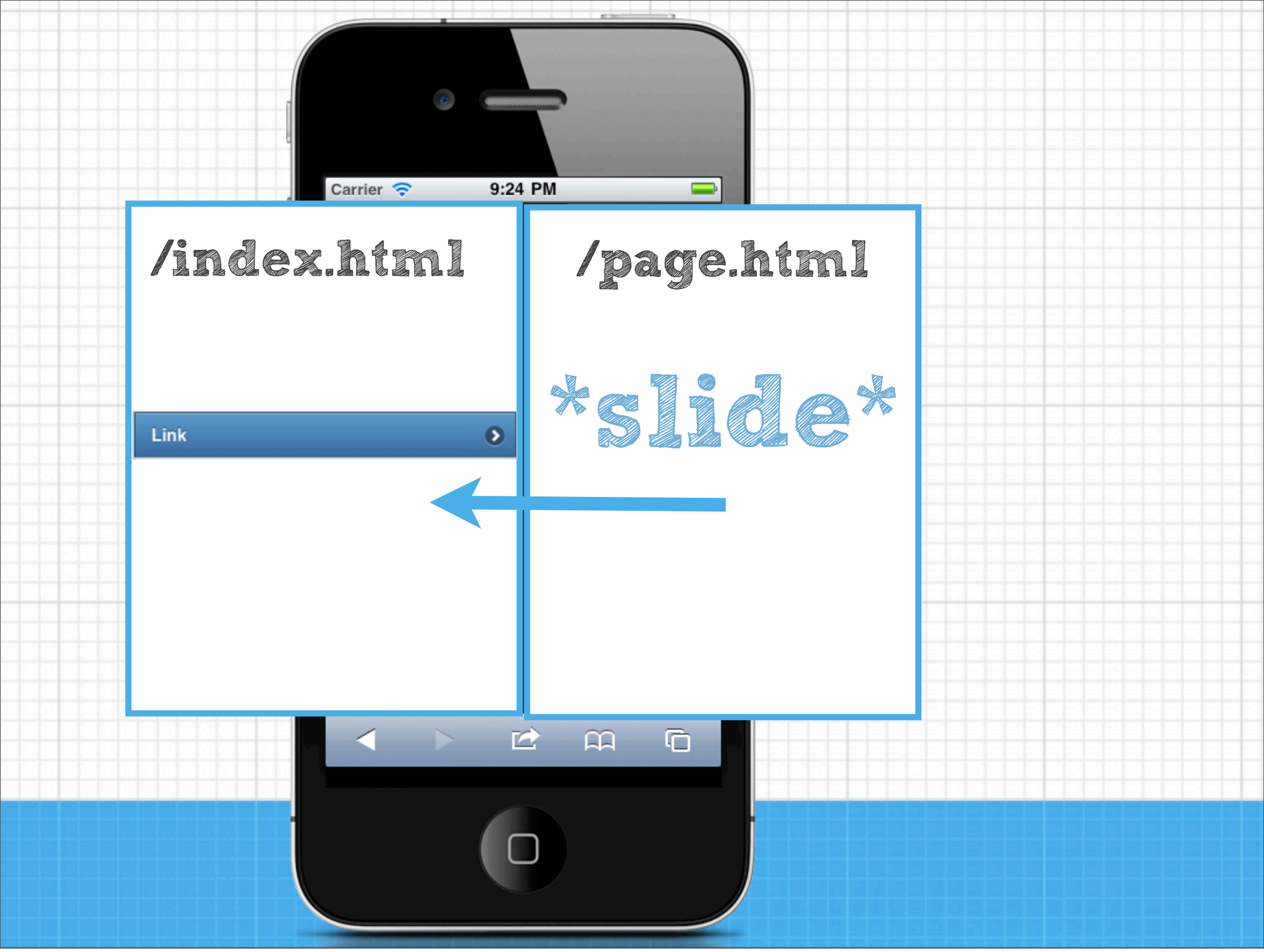
Looks for href and action in your HTML

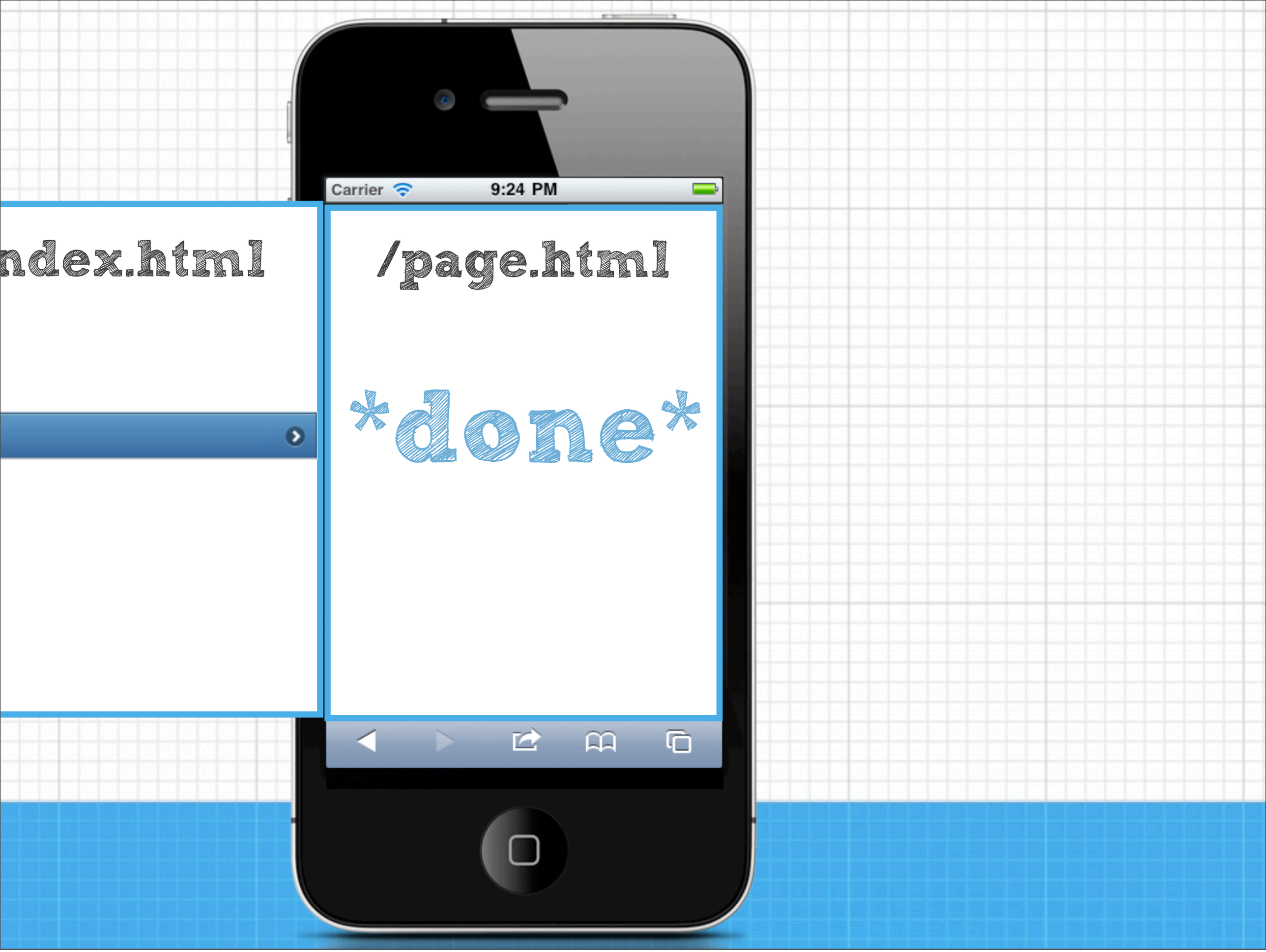
Auto-Ajax Links

1. Ajax gets href="page.html"
   (unless data-ajax=false)
2. Slides in New Content
3. Updates URL
   (with <body>...</body>
   or data-role=page)

Carrier
9:24 PM
/index.html
Link
click

Carrier
9:24 PM
/index.html
Link
/page.html
load


Carrier
9:24 PM
/index.html
Link
/page.html
slide


ndex.html
Carrier
9:24 PM
/page.html
done

Page Transitions

- <a data-transition=pop>...
  (slide, slideup, slidedown, pop, fade, flip)

- <a data-transition=pop
  data-direction=reverse>...

http://jquerymobile.com/test/docs/pages/page-transitions.html

Default transition is now fade (more webby)

Pages w/out Ajax

```
<div data-roll=page
id=page1>...</div>

<div data-roll=page
 id=page2>...</div>


<a href="#page1">Page 1</a>
<a href="#page2">Page 2</a>
```

http://jquerymobile.com/demos/1.1.1/docs/pages/multipage-template.html

No more #/crap/urls.html

Pushstate on Relative URLs

/index.html

to /index.html#/foo.html

to /foo.html

Auto-Ajax Forms

1. Form action="page.html"
   POST Ajax
2. Slides in New Content
3. Updates URL
   (same as links)

I don't use auto-ajax forms. Disable with data-ajax=false

#2 - Layout and Theming

Looking for data-* attributes

Play a Role

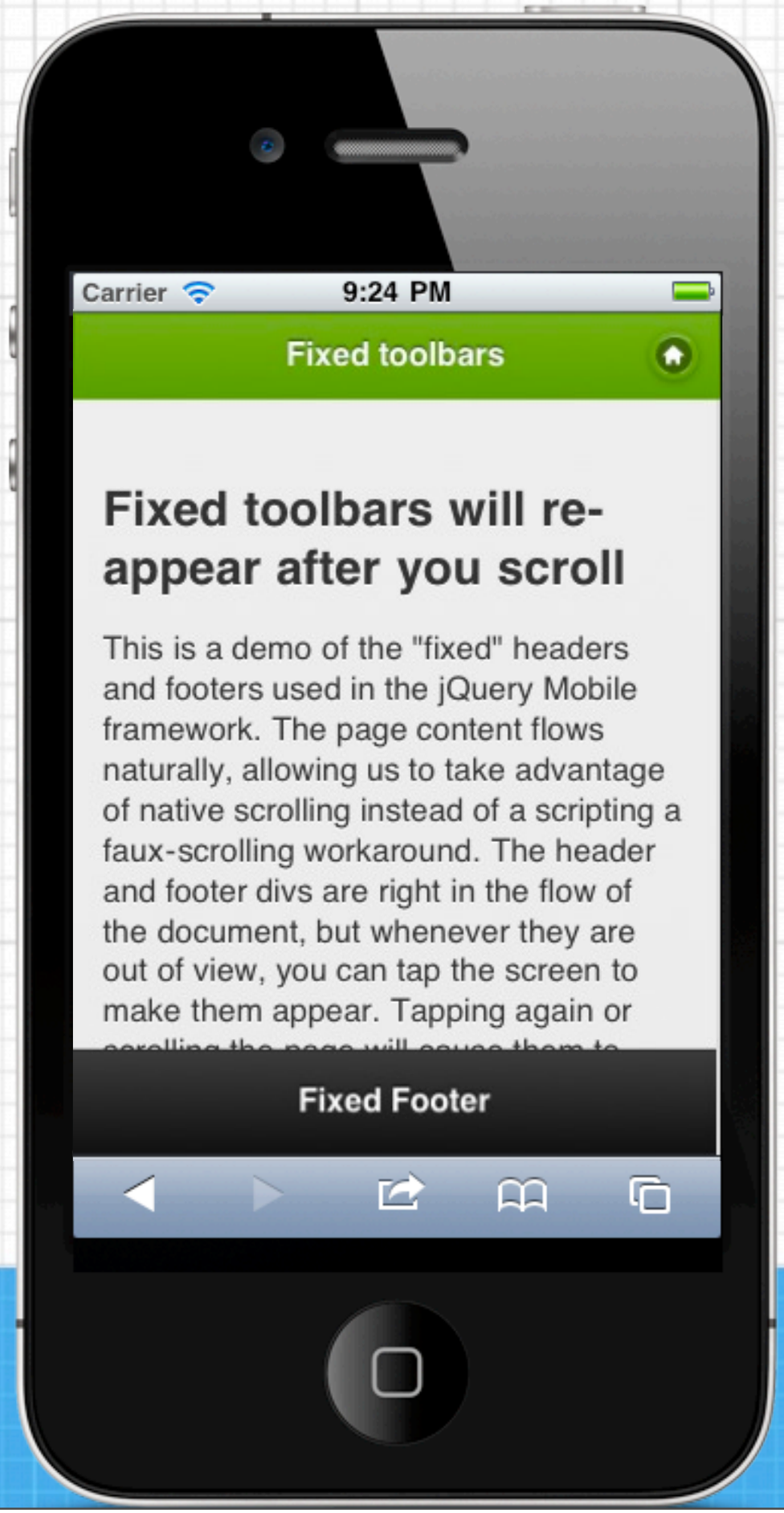
data-role=*

page, header, content, footer, listview, list-divider, button, controlgroup

Structure

```
<div data-role="page">
    <div data-role="header">...</div>
    <div data-role="content">...</div>
    <div data-role="footer">...</div>
</div>
```

http://jquerymobile.com/demos/1.1.1/docs/pages/page-anatomy.html



Magical

...

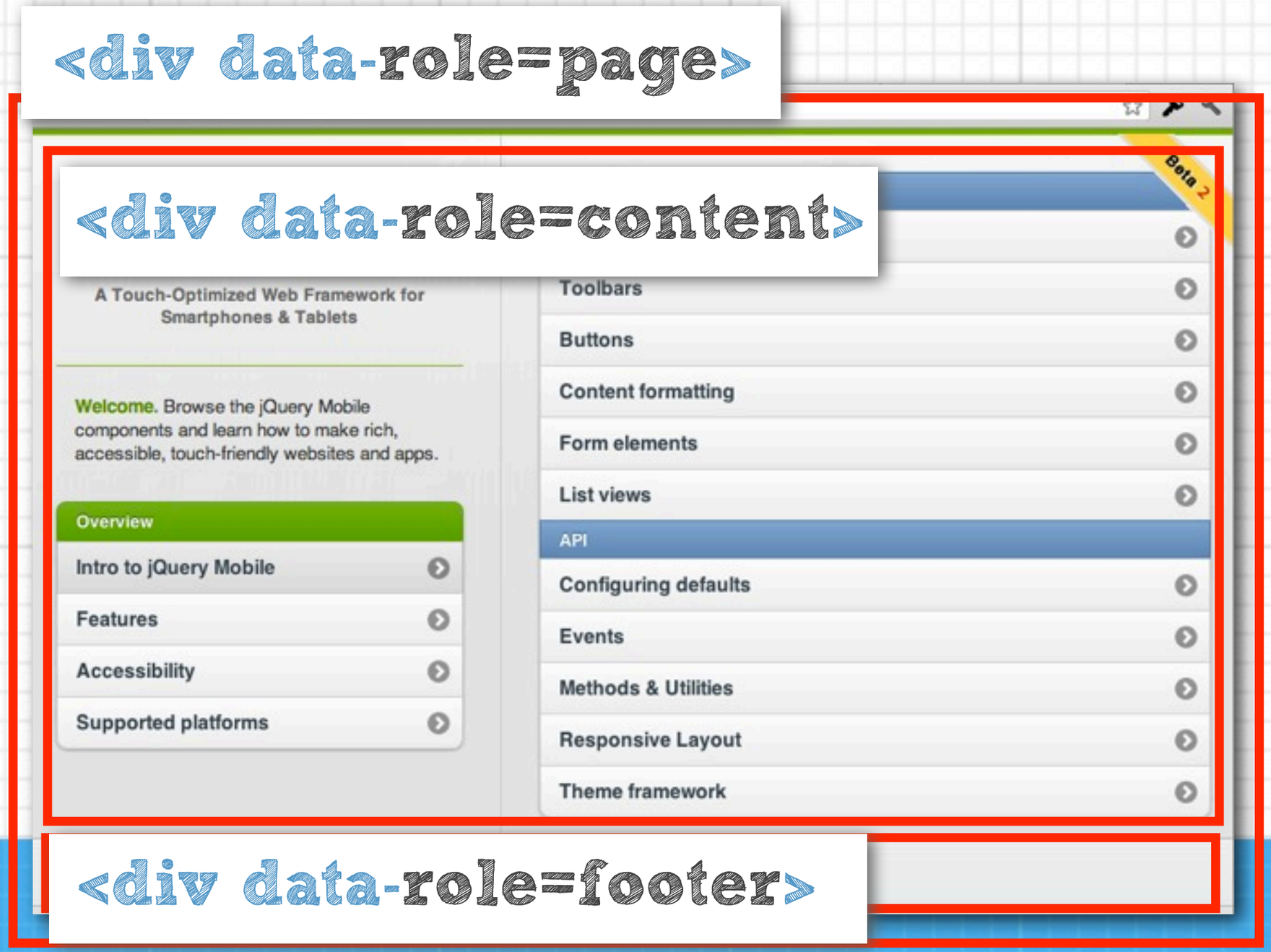
Markup

...

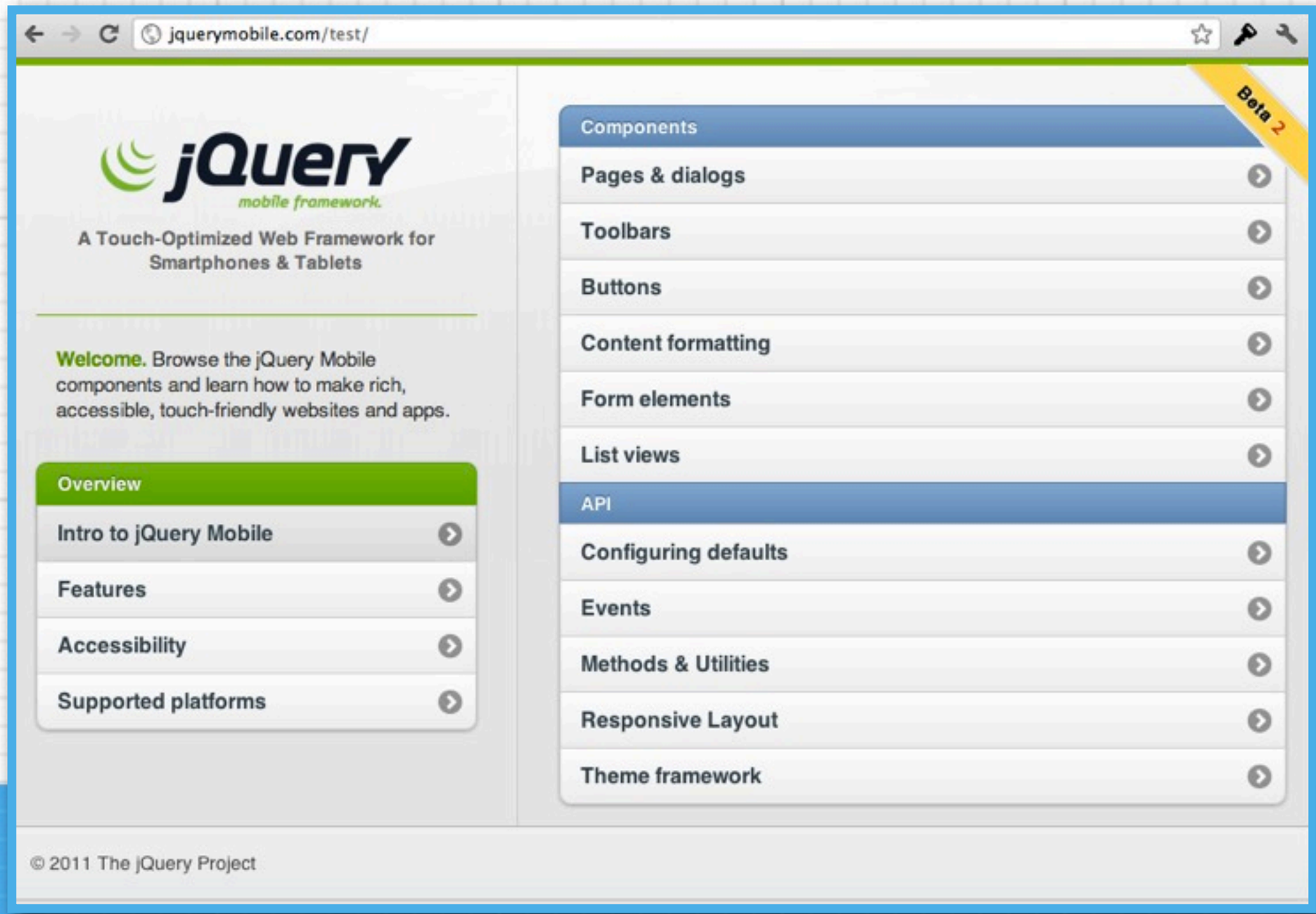
Zones

...

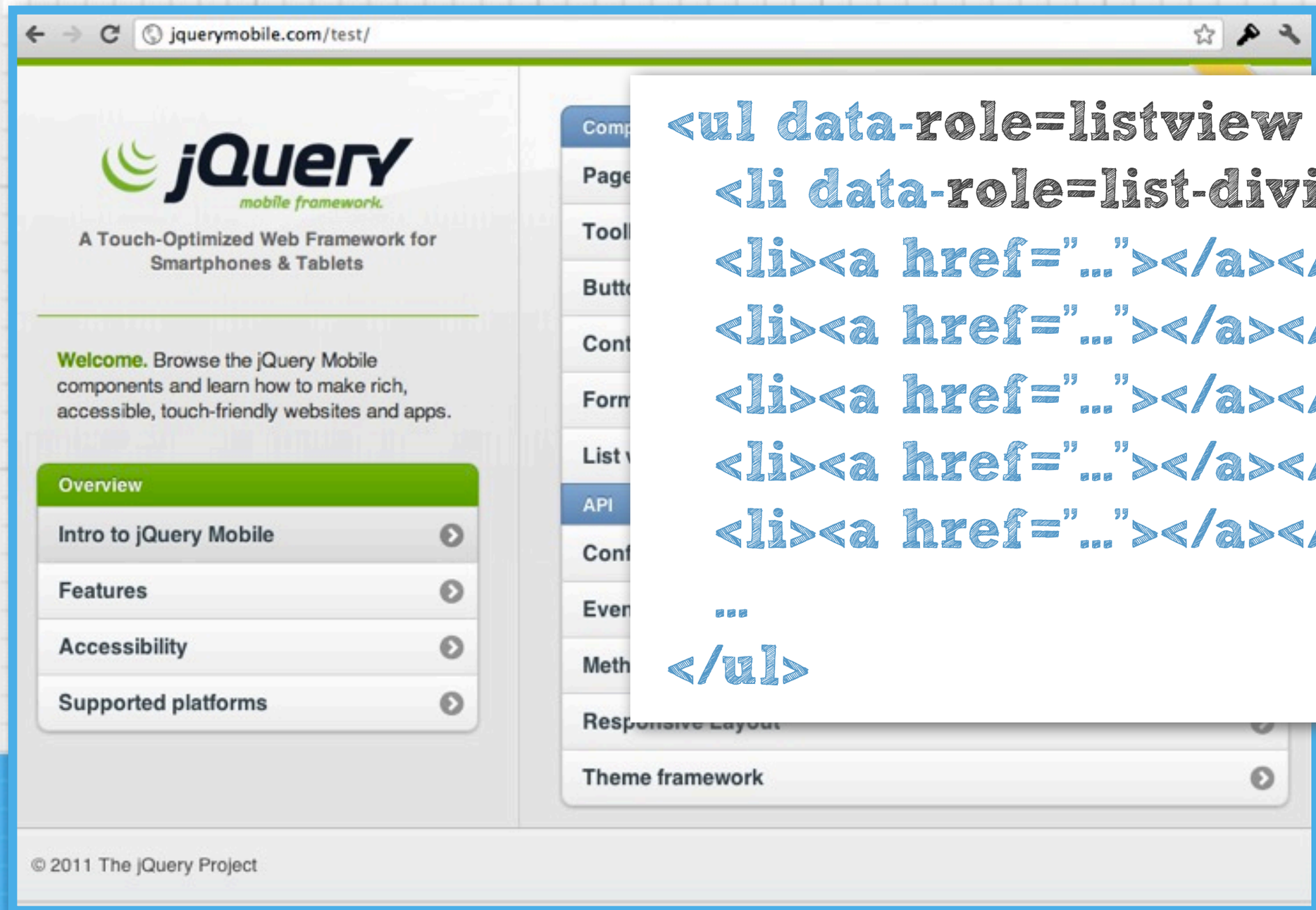
Docs Structure



Listview


jquerymobile.com/test/
jQuery
mobile framework.
A Touch-Optimized Web Framework for Smartphones & Tablets
Welcome. Browse the jQuery Mobile components and learn how to make rich, accessible, touch-friendly websites and apps.
Overview
Intro to jQuery Mobile
Features
Accessibility
Supported platforms
Beta 2
Components
Pages & dialogs
Toolbars
Buttons
Content formatting
Form elements
List views
API
Configuring defaults
Events
Methods & Utilities
Responsive Layout
Theme framework
© 2011 The jQuery Project

Listview



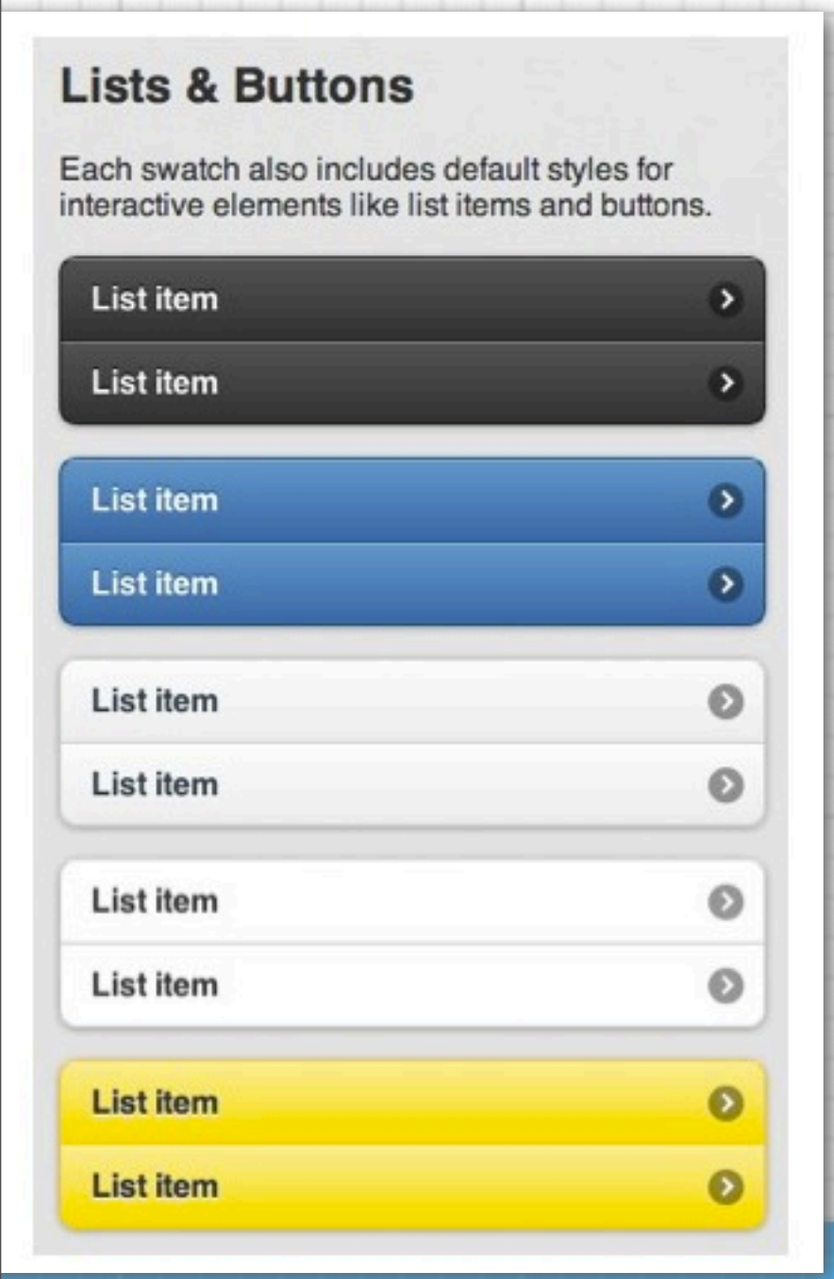

```
<ul data-role=listview ...>
  <li data-role=list-divider>...</li>
  <li><a href="..."></a></li>
  <li><a href="..."></a></li>
  <li><a href="..."></a></li>
  <li><a href="..."></a></li>
  <li><a href="..."></a></li>
  ...
</ul>
```

data-* Theme Attributes

- data-theme=[a-f]
- data-[element]theme=[a-f]
- <ul data-dividertheme=[a-f]>
- <ul data-inset=true>

http://jquerymobile.com/demos/1.1.1/docs/api/themes.html

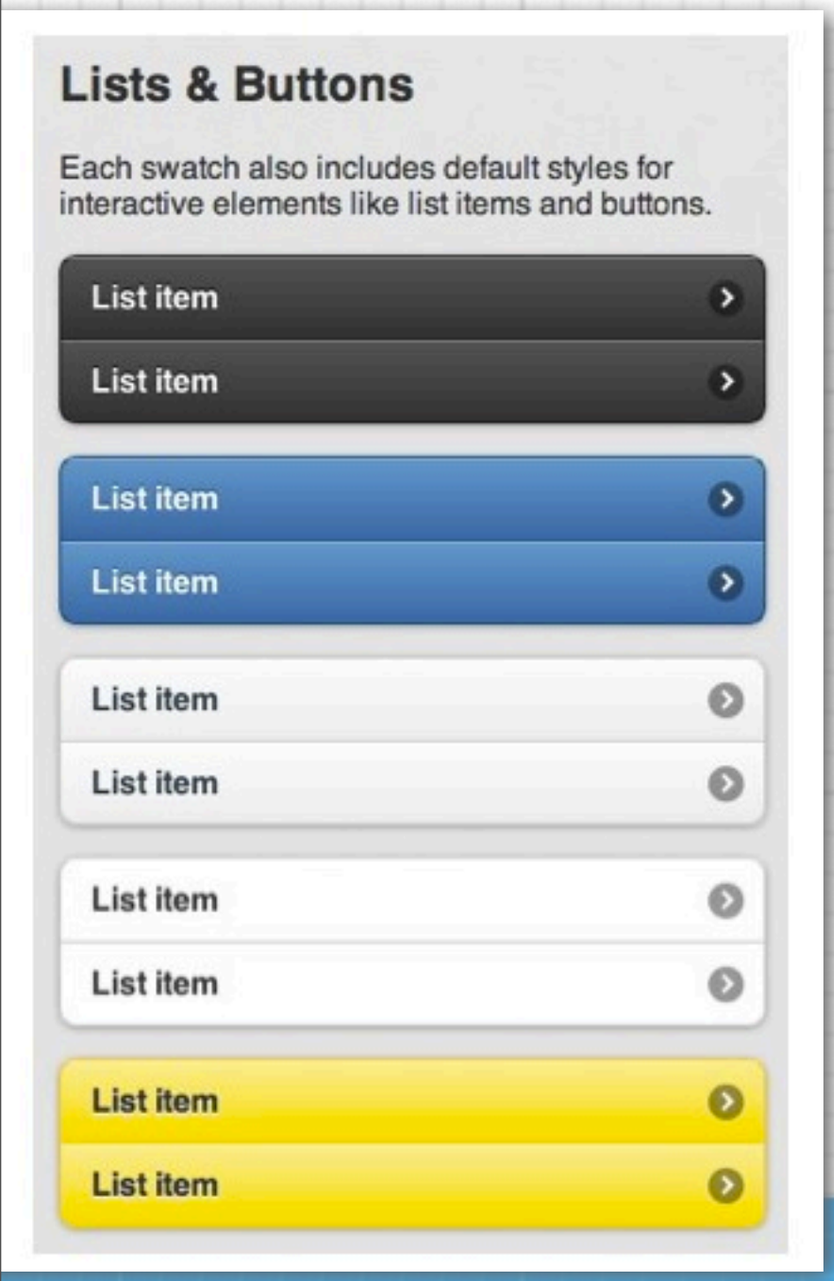
List Theming



<ul data-theme=[a-f]>

http://jquerymobile.com/demos/1.1.1/docs/api/themes.html

List Theming



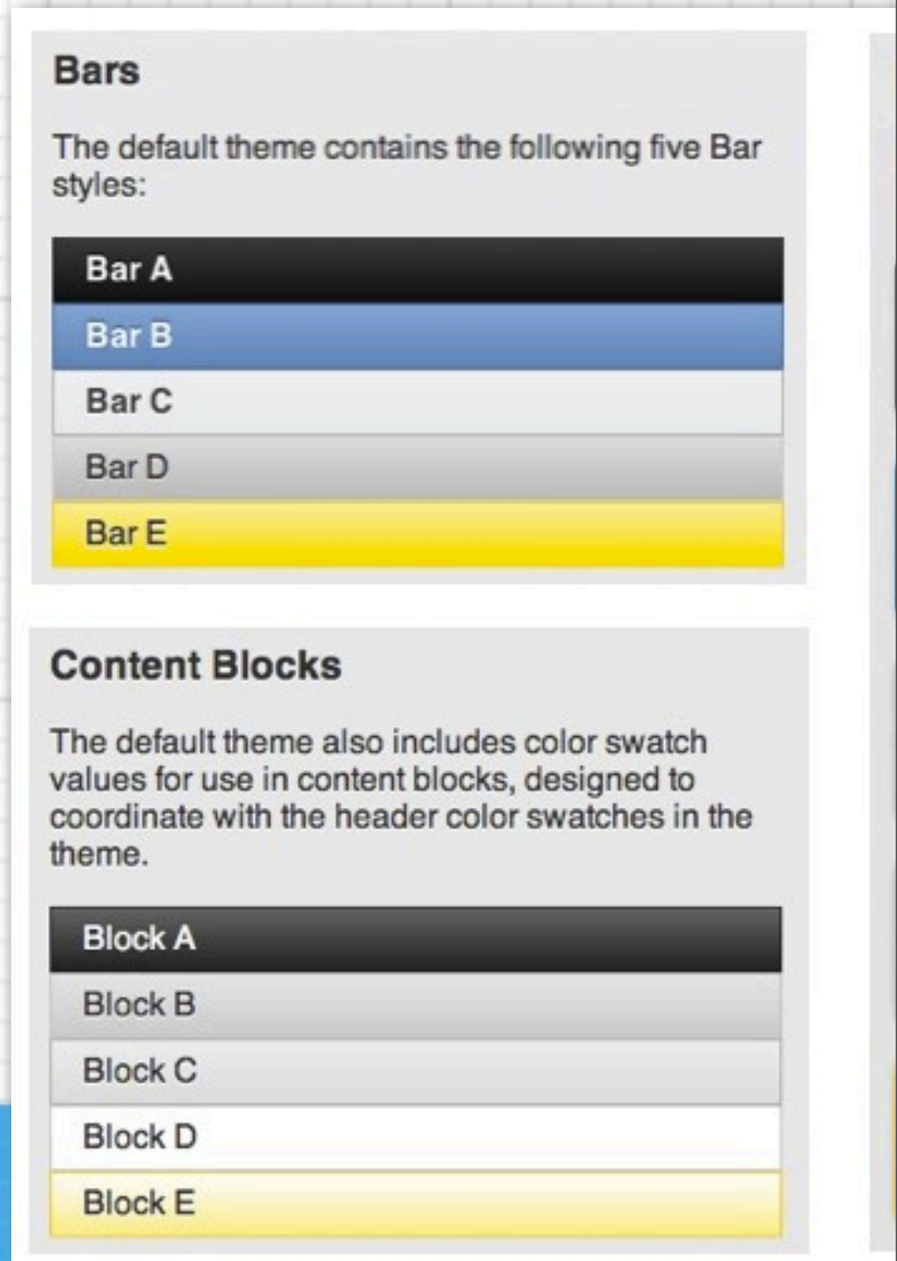

```
<ul data-theme=b>
  <li>...</li>
  <li>...</li>
</ul>
```

Content Theming

ui-[body|bar]-[a-f]

class="ui-bar ui-bar-c"

class="ui-body ui-body-b"



e.g. Docs Theming

jquerymobile.com/test/

jQuery mobile framework

A Touch-Optimized Web Framework for Smartphones & Tablets

Beta 2

Components

Pages & dialogs

Toolbars

List views

API

Theme framework

Overview

Intro to jQuery Mobile

Features

Accessibility

Supported platforms

© 2011 The jQuery Project

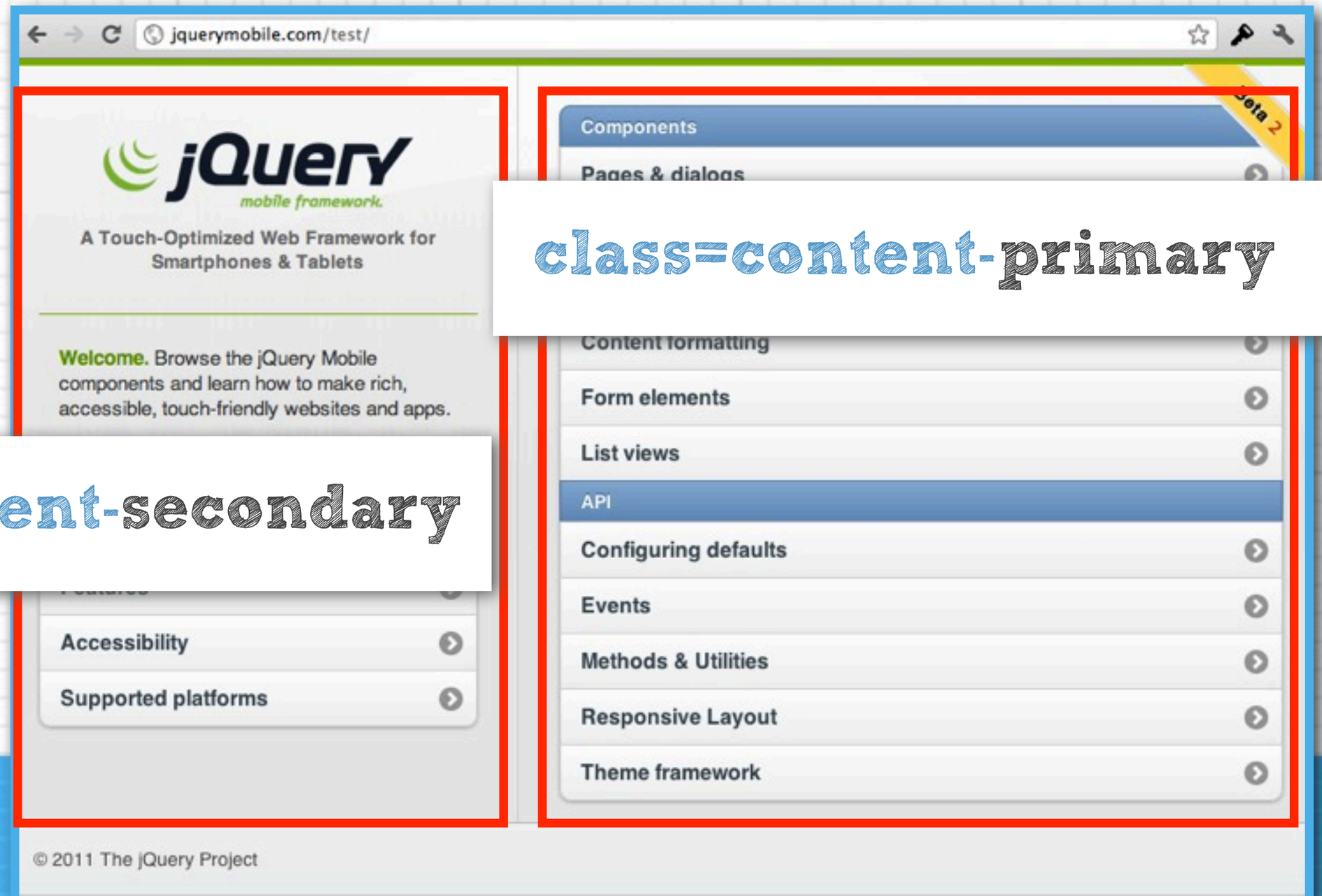
```
<ul data-inset=true
    data-dividertheme=b ...>
```

```
<ul data-inset=true
    data-dividertheme=f ...>
```

Responsive Docs Example

Tablet and Desktop

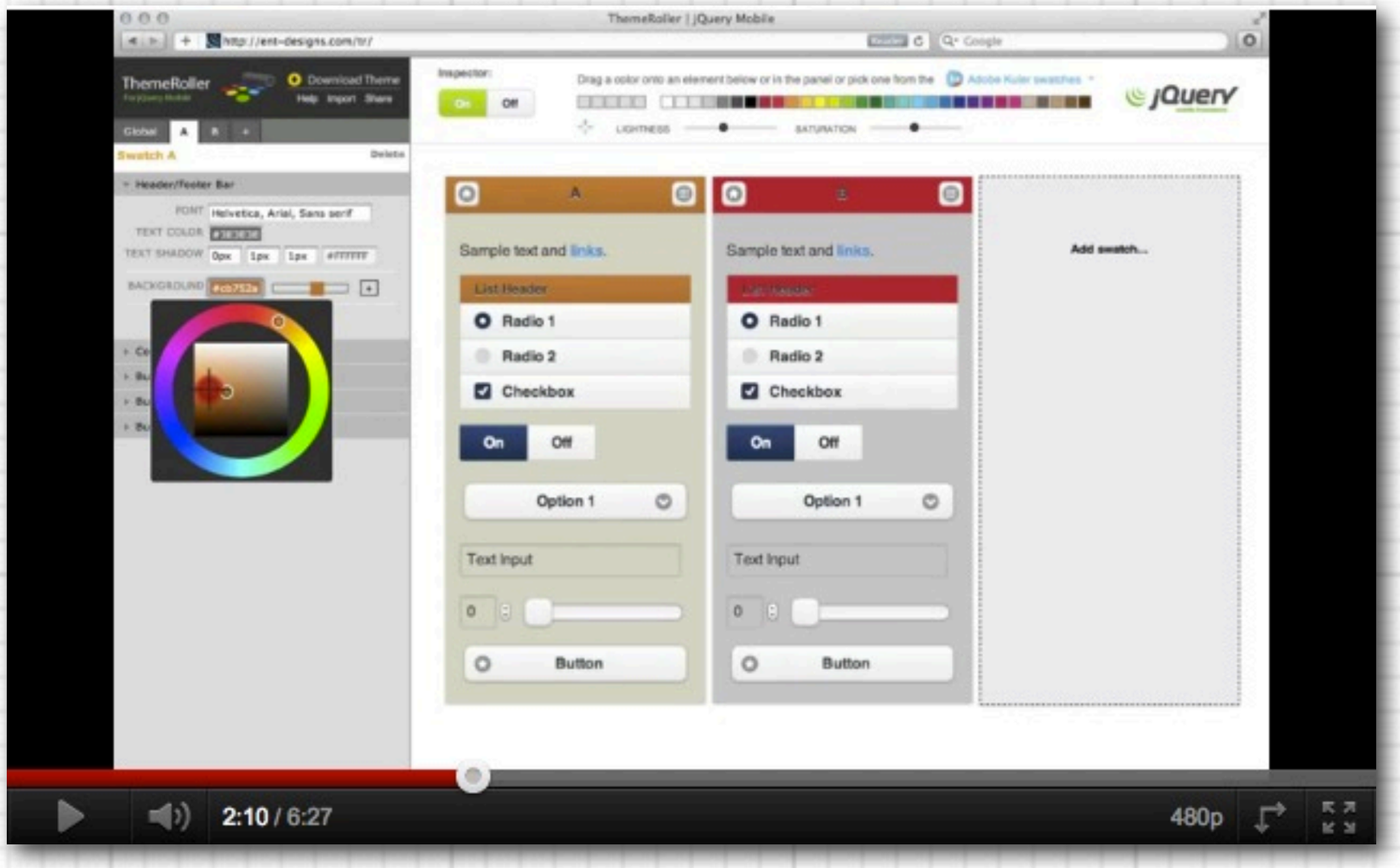
Mobile



class=content-primary

class=content-secondary

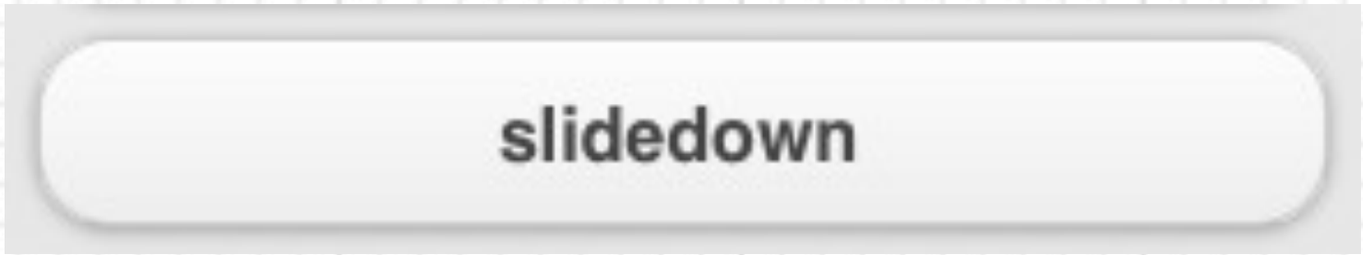
jQuery Mobile ThemeRoller



http://jquerymobile.com/themeroller/index.php

Reusable Widgets

Buttons

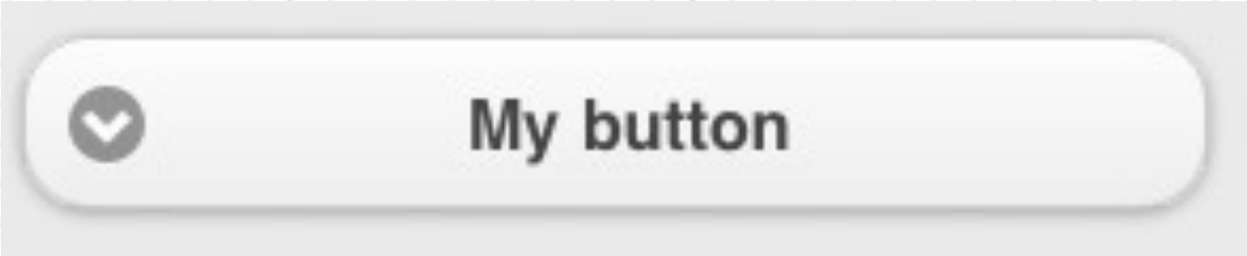


Link as a button

<a data-role=button ...>slidedown

http://jquerymobile.com/test/docs/buttons/buttons-types.html

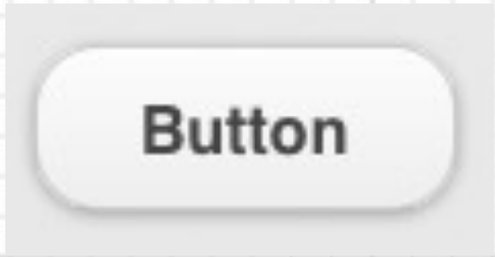
data-* Button Theming



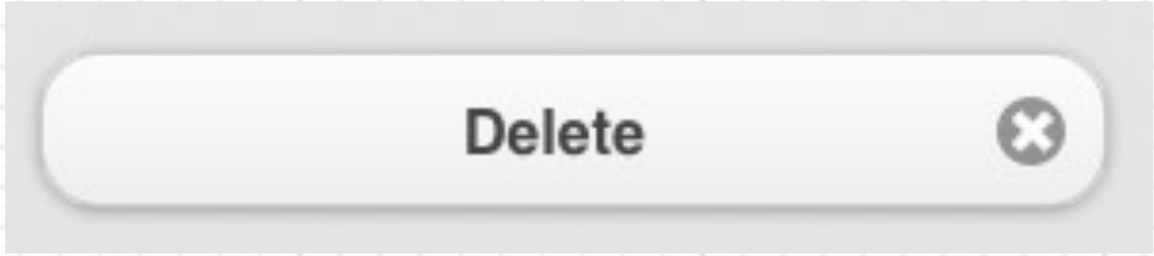
<button data-icon=*>
arrow-r, delete, plus, minus, gear, grid, refresh, etc.

http://jquerymobile.com/test/docs/buttons/buttons-icons.html

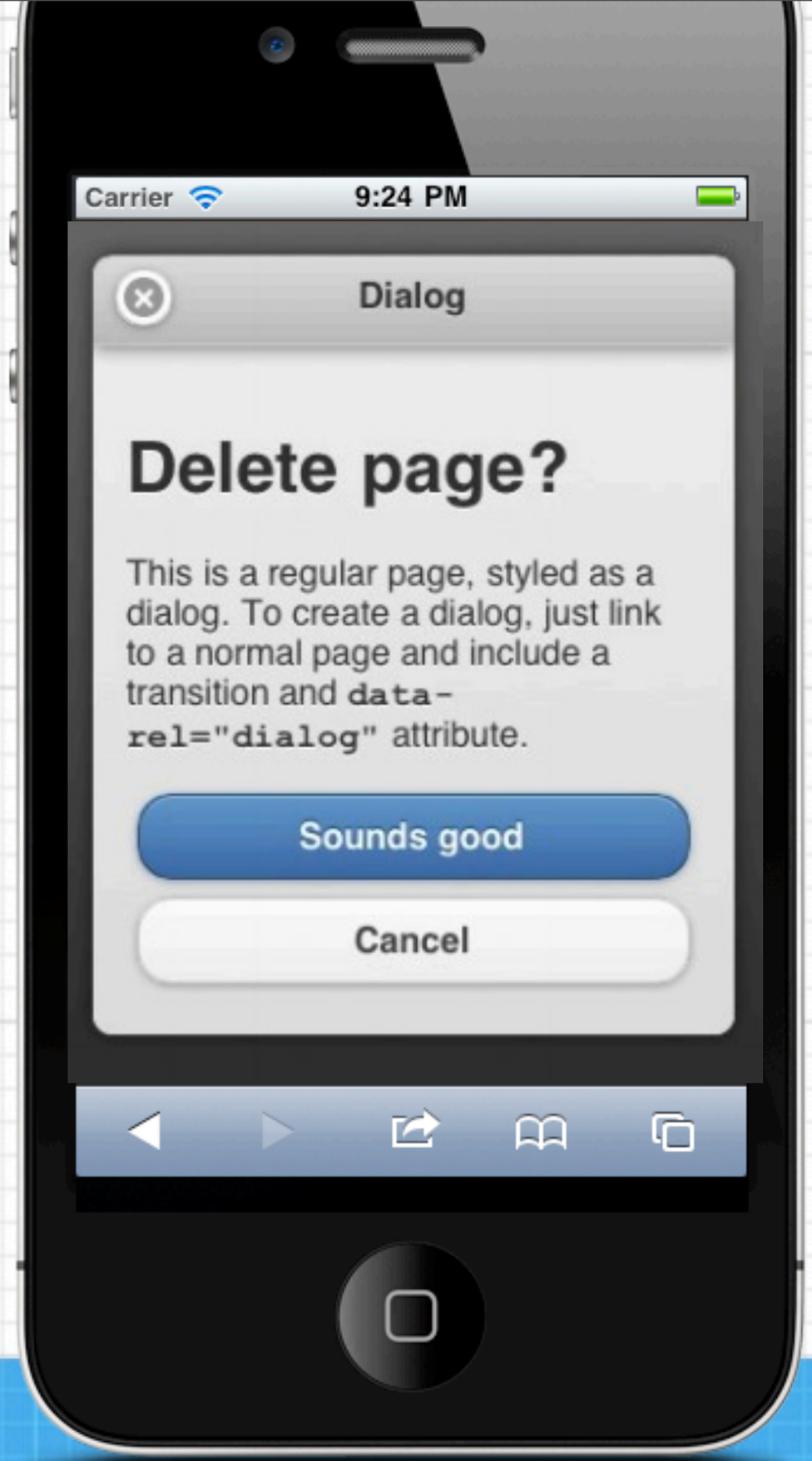
data-* Button Theming




```
<button data-inline=true>
<button data-icon=delete
        data-iconpos=right>
```



http://jquerymobile.com/test/docs/buttons/buttons-icons.html

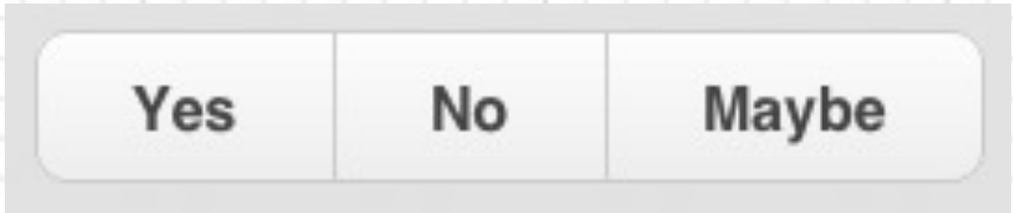


Dialog

<a data-rel=dialog>

http://jquerymobile.com/test/docs/pages/page-dialogs.html

Control Group




```
<div data-role=controlgroup
    data-type=horizontal>
  <a data-role=button>Yes</a>
  <a data-role=button>No</a>
  <a data-role=button>Maybe</a>
</div>
```

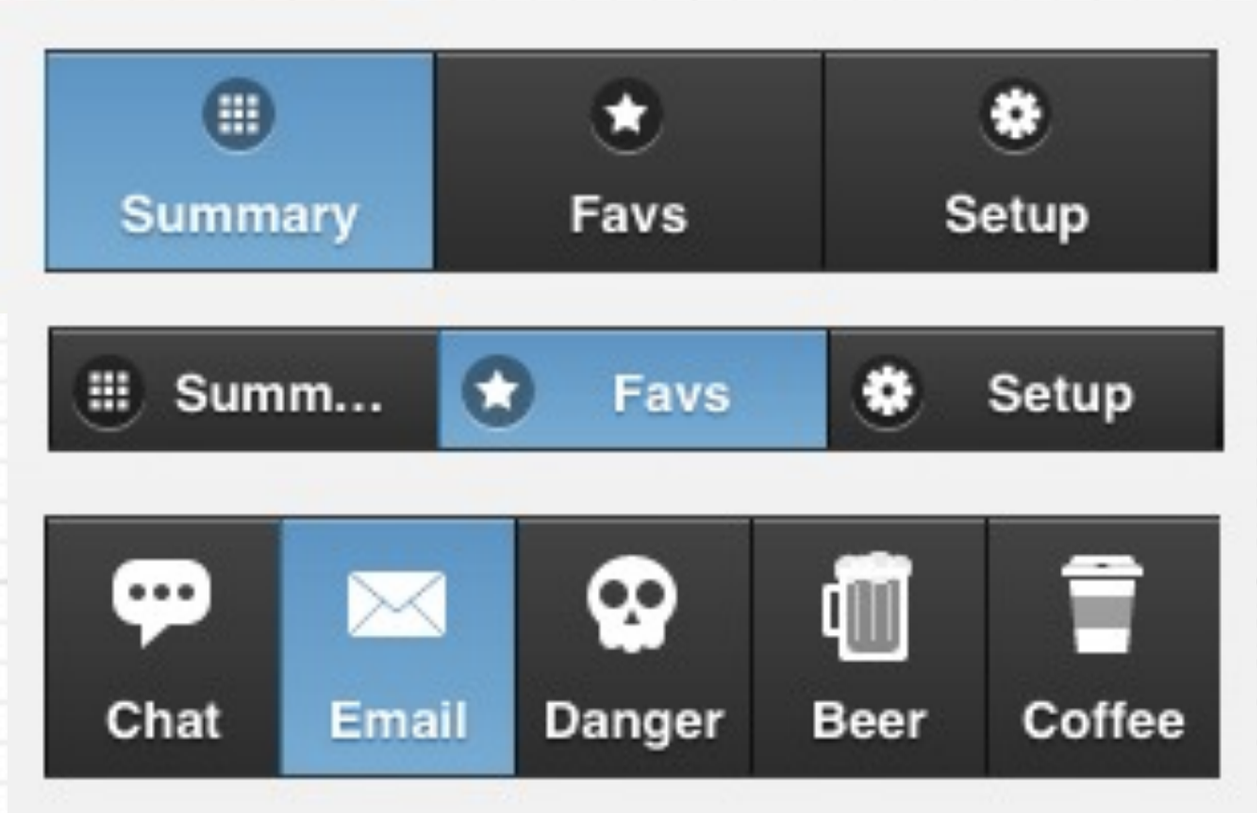
http://jquerymobile.com/test/docs/buttons/buttons-grouped.html

Navbar

data-role=navbar

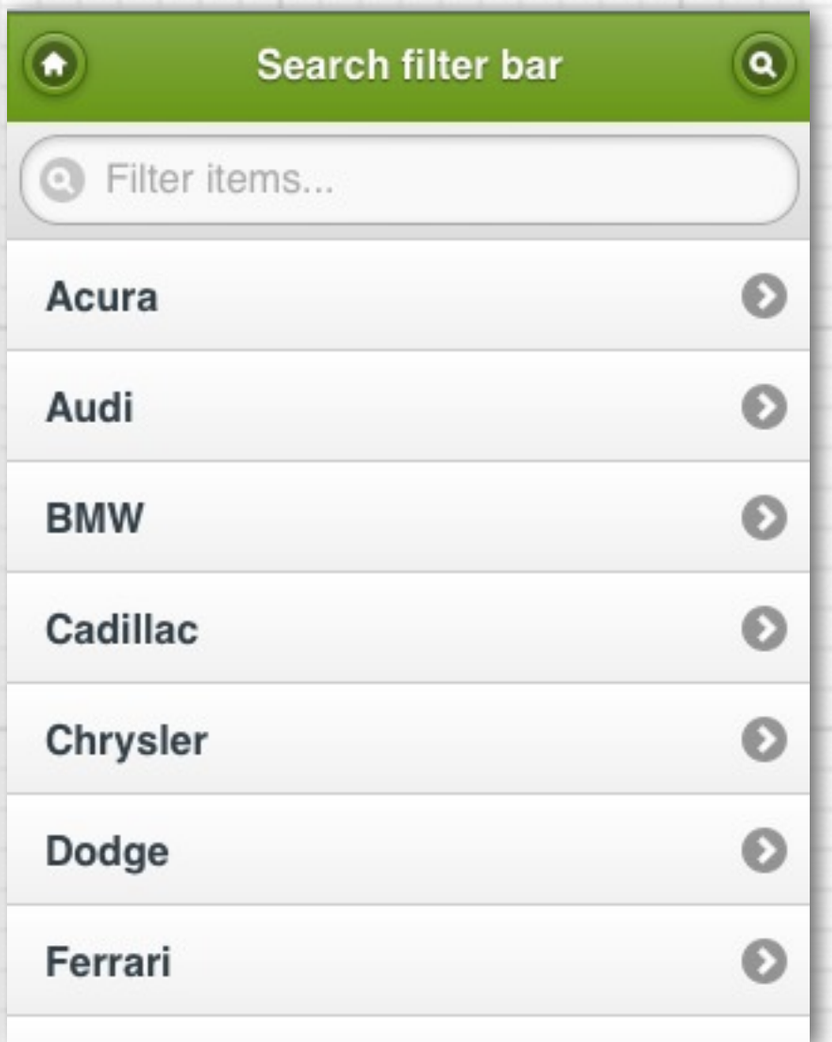
http://jquerymobile.com/demos/1.1.1/docs/toolbars/docs-navbar.html

Navbar w/Icons



http://jquerymobile.com/demos/1.1.1/docs/toolbars/docs-navbar.html

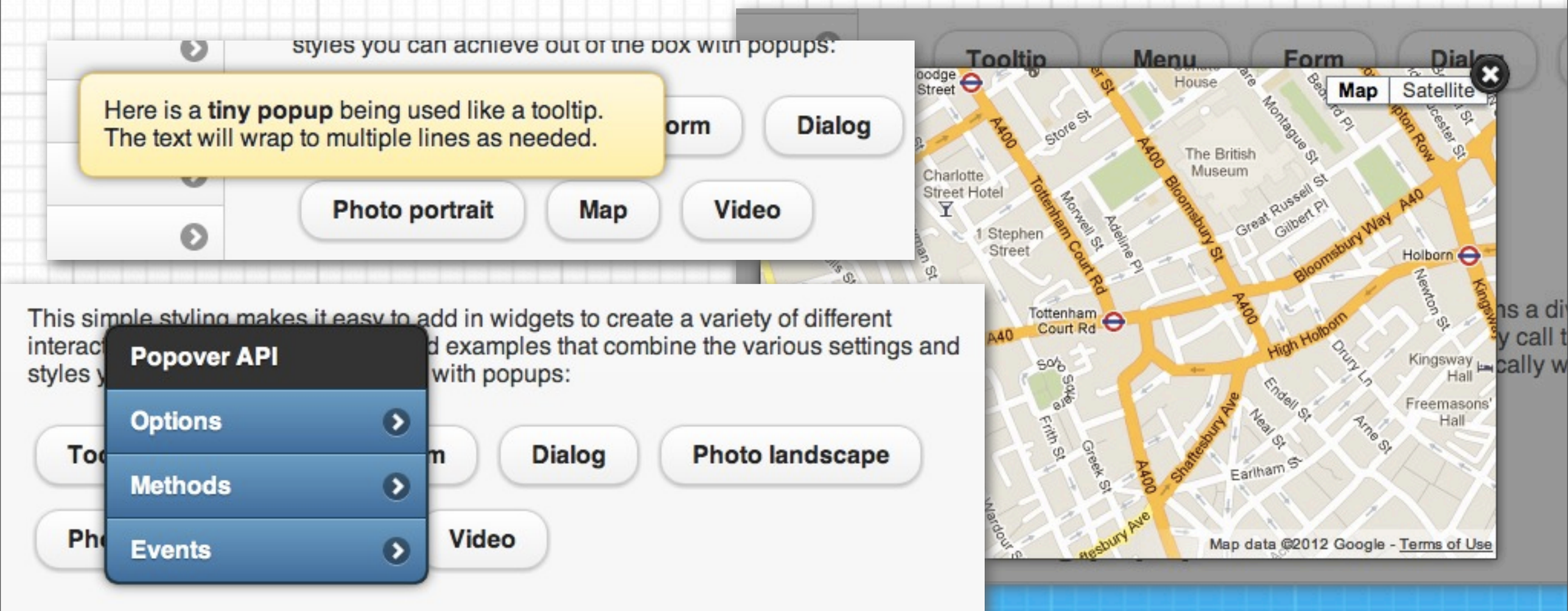
Filter Bar




```
<ul data-filter=true>
```

http://jquerymobile.com/demos/1.1.1/docs/lists/lists-search.html

Popup Widget (in 1.2)

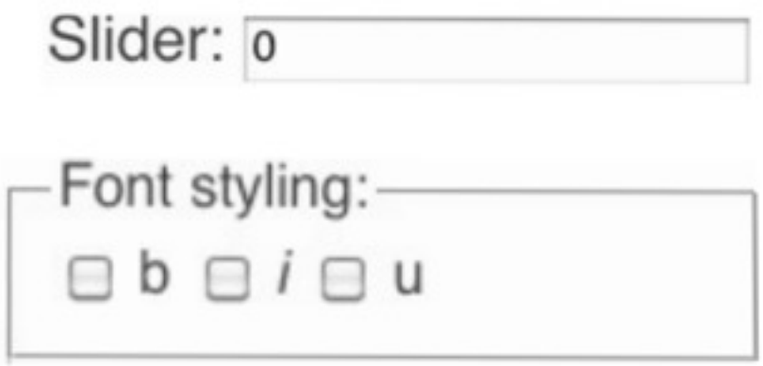


http://jquerymobile.com/test/docs/pages/popup/index.html

#3
Touch-friendly Form Inputs

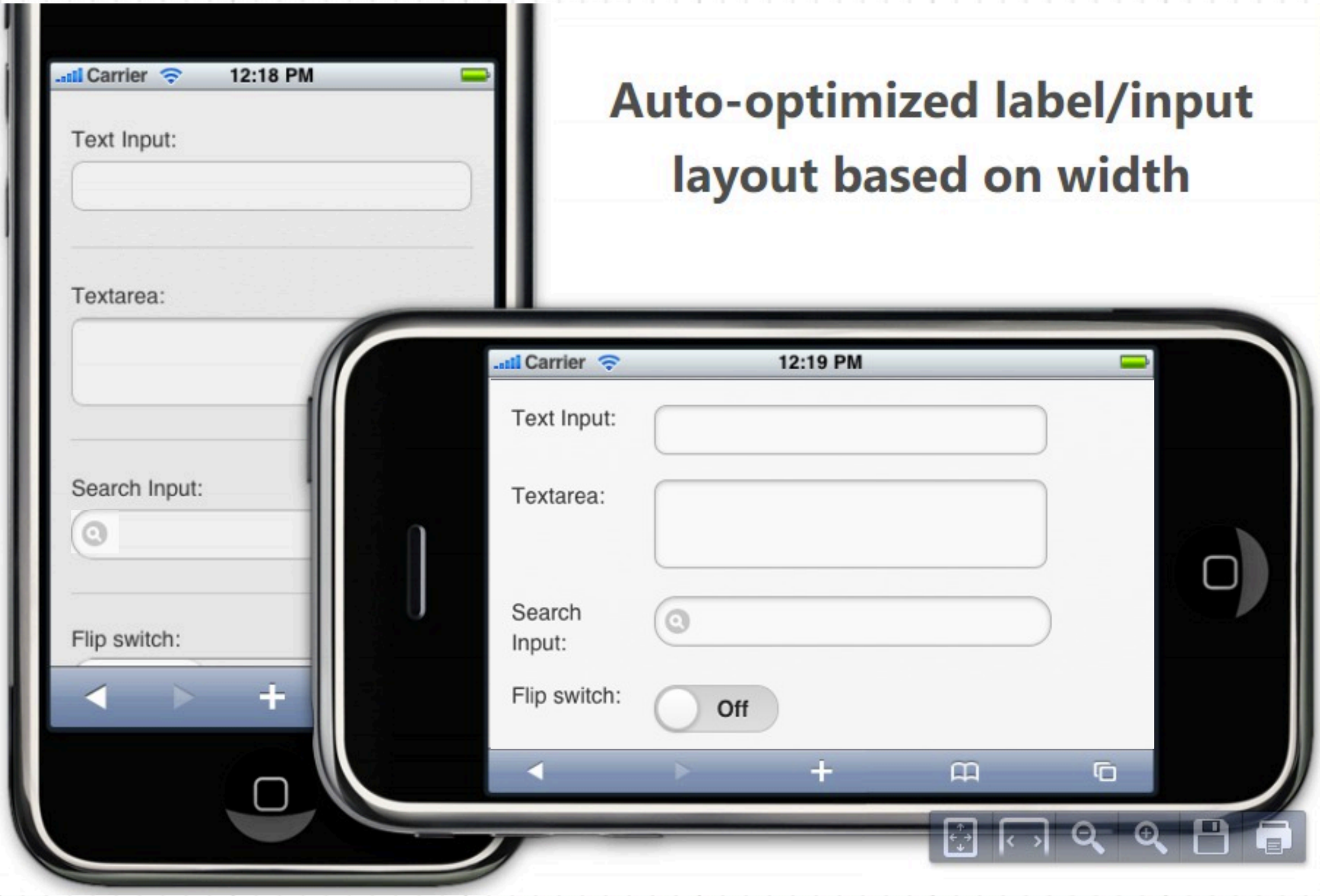
Enhance Form Elements

Default



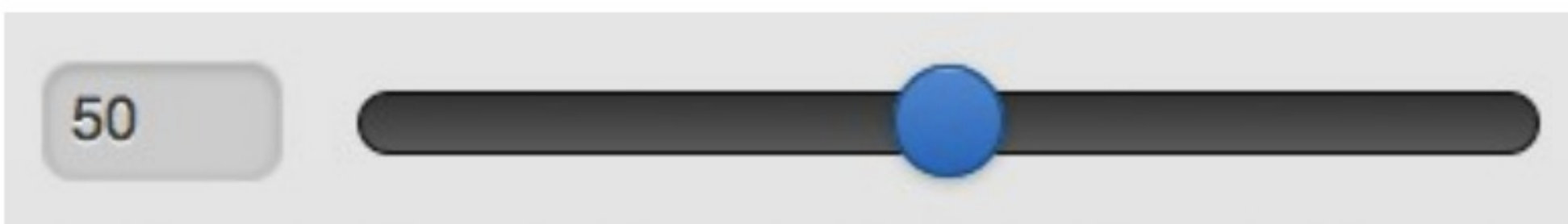
MOBILIZED!

Auto-optimized label/input layout based on width



Slider

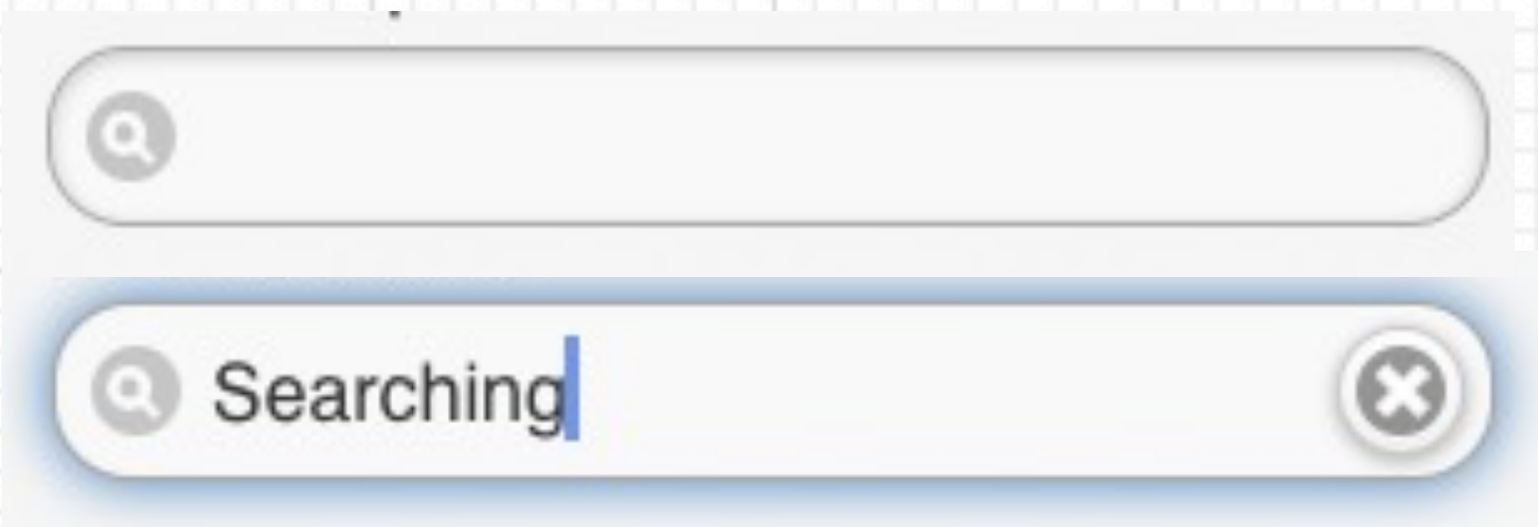
```
<input type=range
 value=50 min=0 max=100>
```



http://jquerymobile.com/demos/1.1.1/docs/forms/slider/

Search Input

<input type=search>

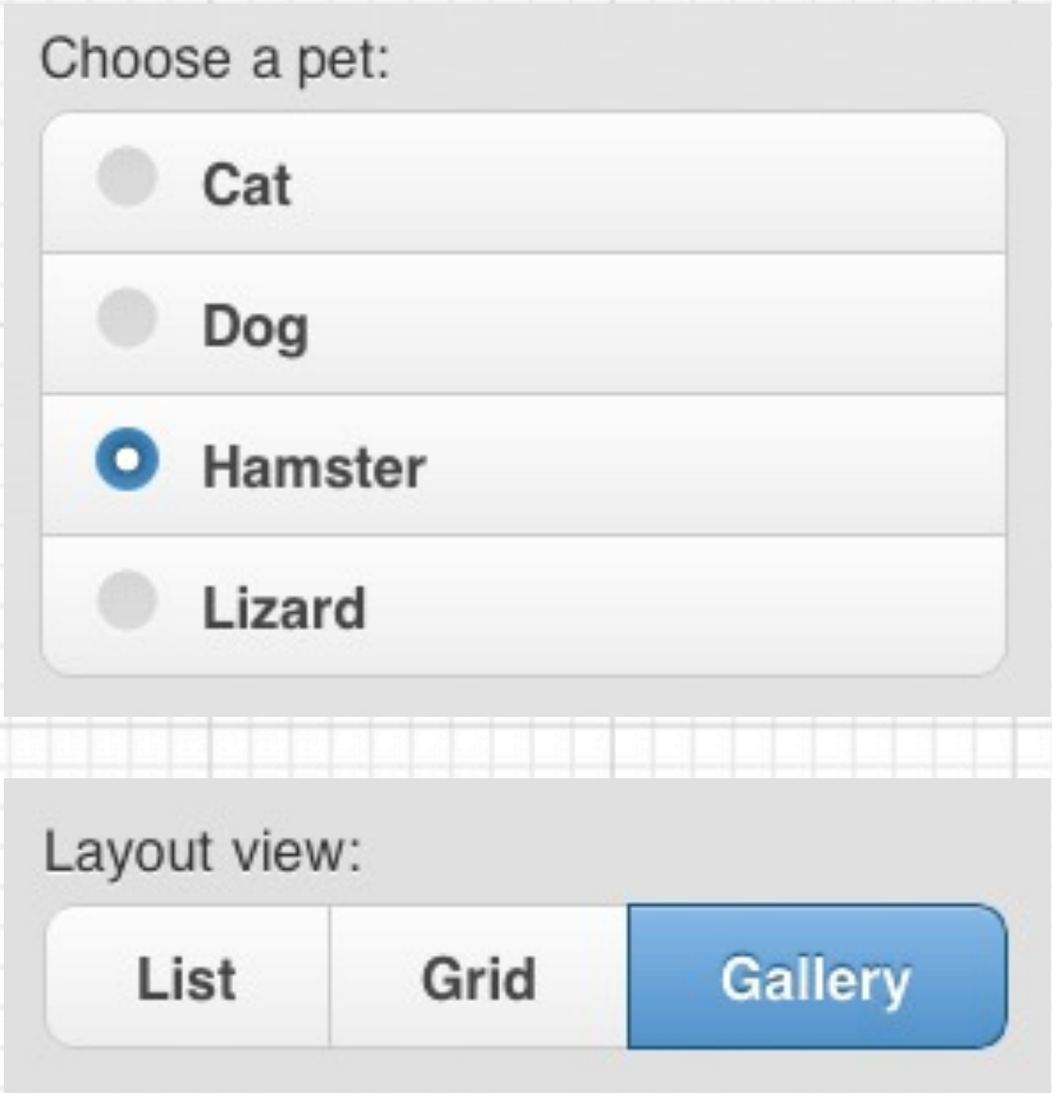


http://jquerymobile.com/demos/1.1.1/docs/forms/search/

Checkbox Set

http://jquerymobile.com/demos/1.1.1/docs/forms/checkboxes/

Radio Button Set



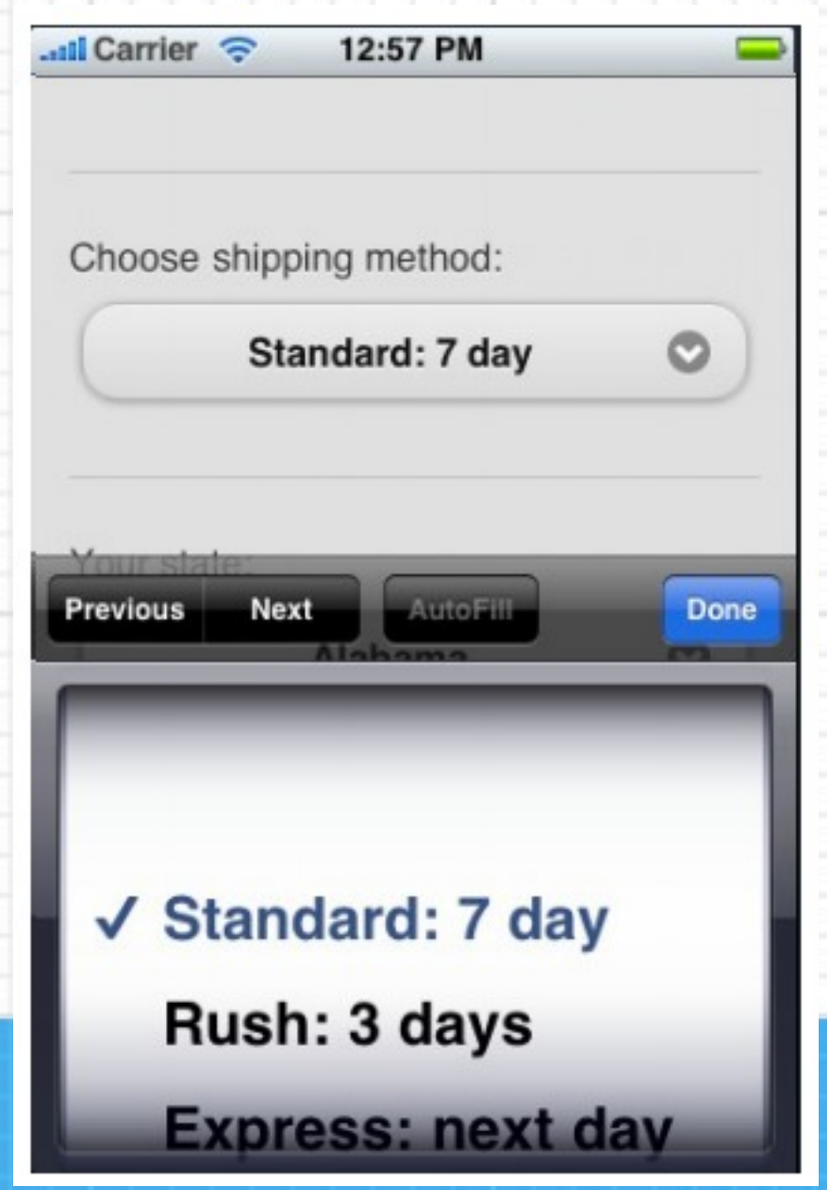
http://jquerymobile.com/demos/1.1.1/docs/forms/radiobuttons/

Flip Switch

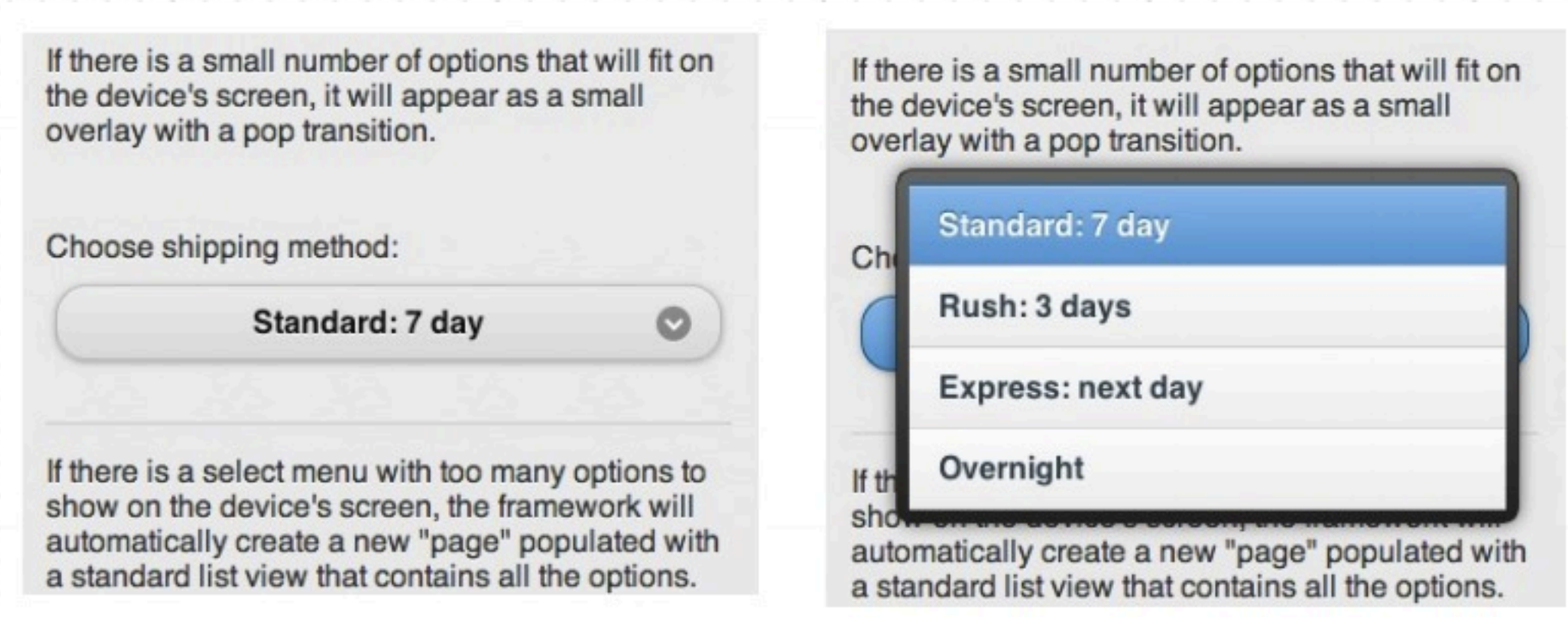
```
<select data-roll=slider>
  <option>Switch Off</option>
  <option>Switch On</option>
</select>
```

http://jquerymobile.com/demos/1.1.1/docs/forms/switch/

data-native-menu=true

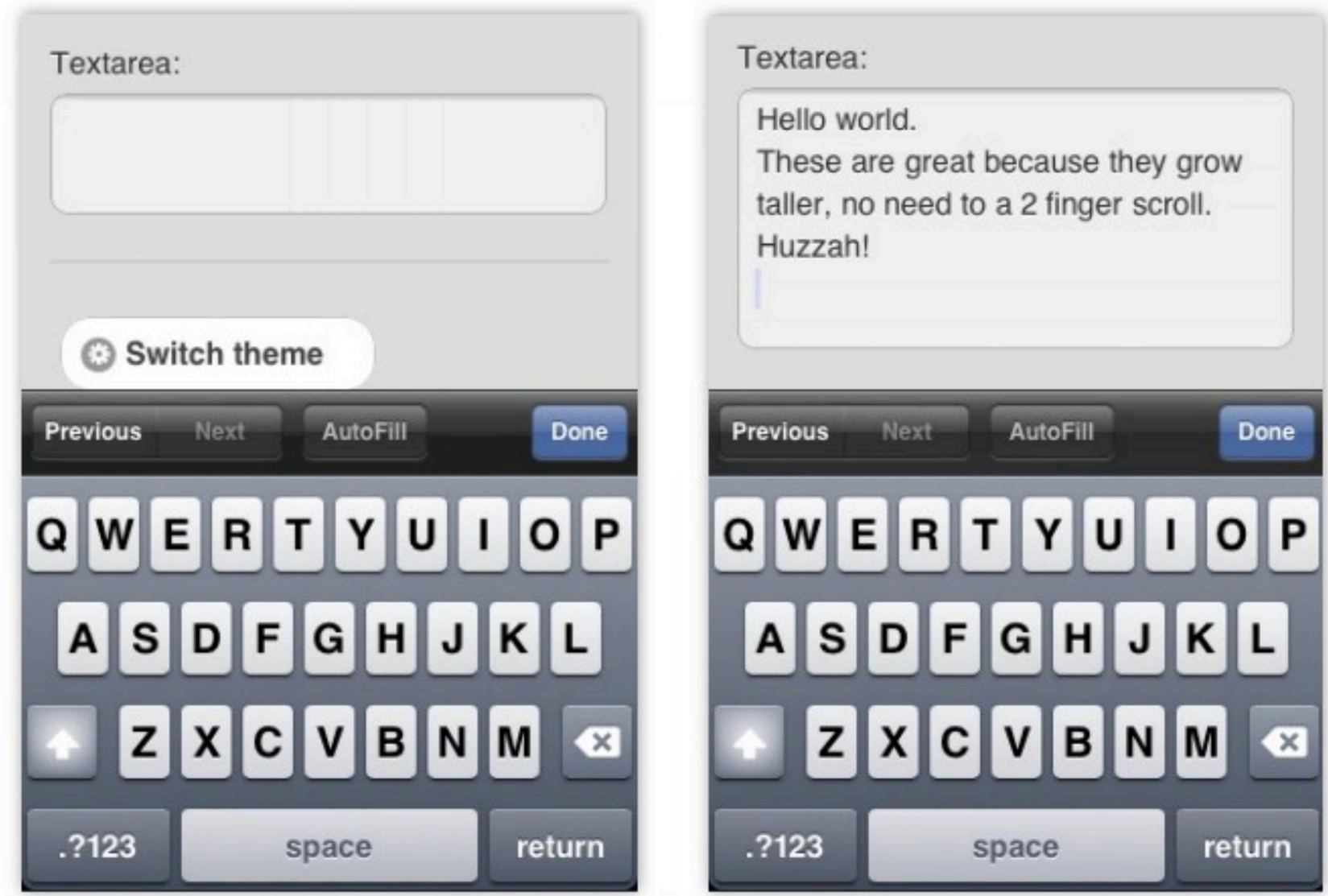


data-native-menu=false



http://jquerymobile.com/demos/1.1.1/docs/forms/selects/custom.html

Auto Grow Textareas



http://jquerymobile.com/demos/1.1.1/docs/forms/textinputs/index.html

HTML5 Input Types

(not just jQuery Mobile)

<input type=password>

<input type=number>

<input type=email>

<input type=url>

<input type=tel>

jQuery mobile framework.

Misc Notes

Widgets

- page sections
- checkboxradio
- select
- slider
- textinput
- links
- collapsible
- popup
- controlgroup
- fieldcontain
- fixheaderfooter
- button
- listview
- navbar
- grid
- dialog

Download Builder

jQuery mobile framework

Docs | Download | Platforms | Themes | Resources | Forum | Blog

jQuery Mobile Download Builder

1.0 Alpha

Customize your jQuery Mobile download by selecting the specific modules you need in the form below. For standard configurations, **download or link to CDN versions** of pre-built packages. Please note that the jQuery Mobile Download Builder is still in alpha, and as such should *not* be used on production websites.

Please report any issues you might find in the **issue tracker**, and thanks!

Select branch

Latest

http://jquerymobile.com/download-builder/

Snippets

Configure jQM

```
$(document).on("mobileinit", function(){
  $.extend($.mobile , { foo: bar });
});
```

New DOM Ready

```
$(document).on("pagecreate", function(e) {
 // do somefin' will ya?
});
```

Modifying DOM

```
$page
  .append("<a data-role=button>Button</a>")
  .trigger('create')
```

Initializes UI components

Viewport Tag

Not auto-injected.

```
<meta name="viewport"
content="width=device-width,
initial-scale=1">
```

No JavaScript Scroll

Native overflow support

-webkit-overflow-scrolling: touch;

No JavaScript "fake scrolling"

Still problems with it

CSS Transitions

- New transitions turn and flow as of 1.1
- Flip on Android is Stupid (does a cartwheel)

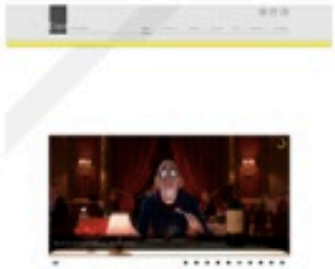
Plugins and Resources

3rd party plugins

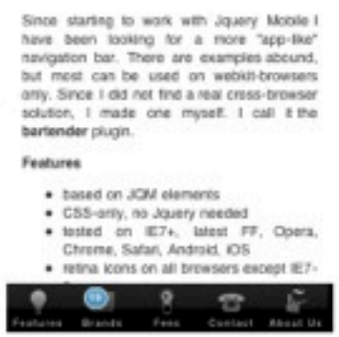
These are all jQuery Mobile compatible plugins, many use the theme framework, auto-initialization and data- attribute configuration features or core mobile widgets.

Pagination

PhotoSwipe



Diapo slideshow



Since starting to work with Jquery Mobile I have been looking for a more "app-like" navigation bar. There are examples abound, but most can be used on webkit-browsers only. Since I did not find a real cross-browser solution, I made one myself. I call it the **bartender** plugin.

Features

- based on *JQM* elements
- CSS-only, no Jquery needed
- tested on IE7+, latest FF, Opera, Chrome, Safari, Android, iOS
- retina icons on all browsers except IE7-

Bartender

Google Maps

Mobiscroll

Datebox

Android-like date picker

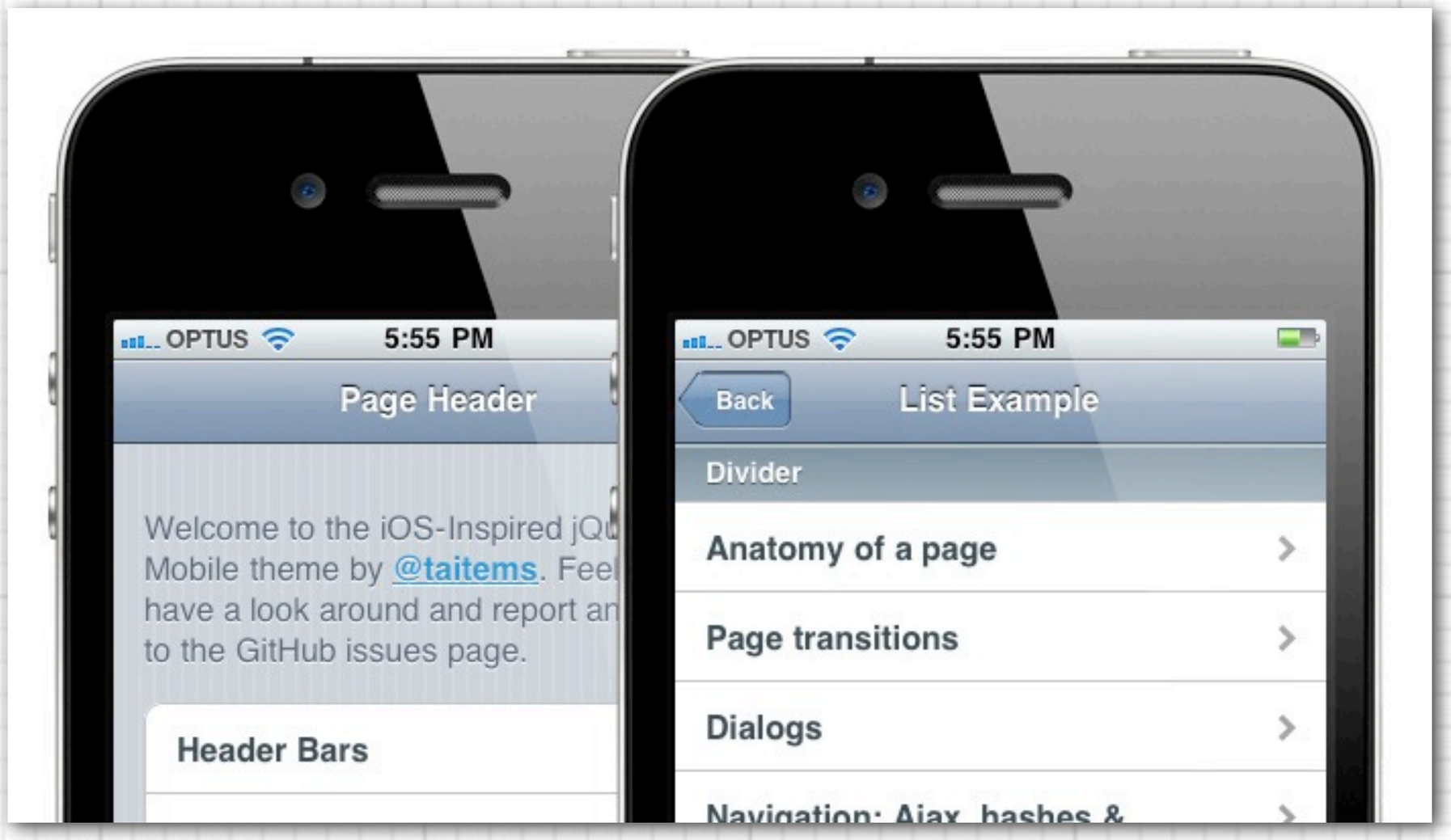
http://jquerymobile.com/resources/

jQuery Mobile Router

```
var approuter = new $.mobile.Router([
    { "#certainPage": { handler: "foo", events: "s" } },
    { "#certainPage": { handler: "bar", events: "h" } }
], {
    foo: function(...){...},
    bar: function(...){...}
}, options);
```

https://github.com/azicchetti/jquerymobile-router

iOS Theme



http://taitems.tumblr.com/post/7240874402/ios-inspired-jquery-mobile-theme-jquery-mobile

Build Latest

1. $ git clone
   git://github.com/jquery/jquery-mobile.git
2. $ npm install
3. $ node node_modules/.bin/grunt js
   $ node node_modules/.bin/grunt css

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