

# Week8- Topics

jQuery Mobile

jQuery Mobile lab

# jQuery Mobile

Guest Lecture: Mikael Blomberg, SC5

Examples jQM

Tutorial on vimeo (1h 06 min)

[http://player.vimeo.com/video/53223683?  
title=0&amp;amp;byline=0&amp;amp;portrait=0](http://player.vimeo.com/video/53223683?title=0&amp;amp;byline=0&amp;amp;portrait=0)

# jQuery Mobile

jQuery Mobile is a HTML5-based user interface system designed to make responsive web sites and apps that are accessible on all smartphone, tablet and desktop devices.

- built on jQuery foundation

- has lightweight code

- built with progressive enhancement

- has a flexible, easily theme-oriented design

# jQuery Mobile:

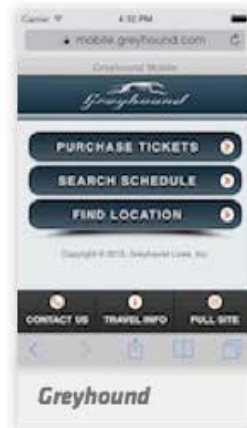
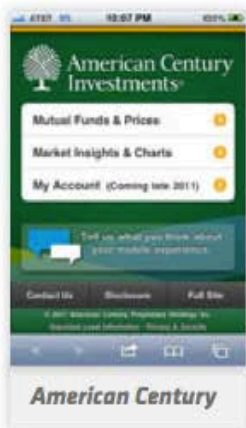
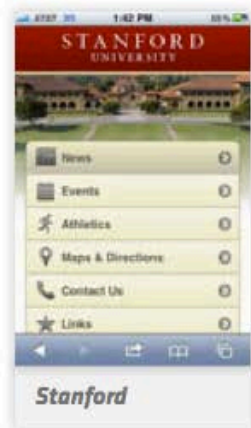
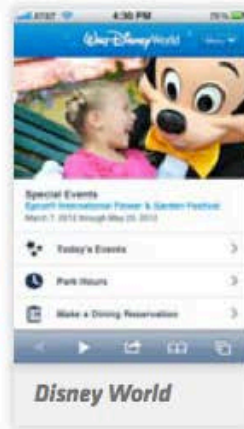
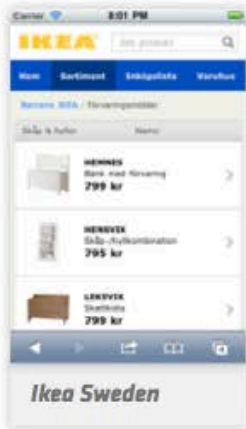
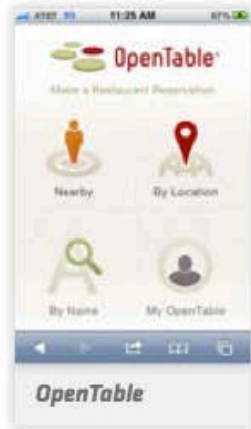
is super easy to use

uses a declarative style

similar to writing regular HTML

builds on HTML / JQuery / jQuery UI

# jQuery Mobile Gallery



# jQuery Mobile

Started in August 2010

Current version: 1.8.3

# jQuery Mobile:

handles navigation for mobile sites/apps

offers mobile-focused widgets, toolbars, page transitions, effects...

Powerful CSS-based theme engine

Uses HTML5 custom data-\* attributes to specify structure of internal pages

# jQuery Mobile

pages

- content

- header

- footer

page transitions

lists (collapsible lists)

forms

tables (columns)

events

navigation bars (accordions)



# jQuery Mobile

All pages can be stored in a single HTML file

- each mobile screen is represented by a "div" element with attribute `data-role="page"`
- each mobile screen has a "div" with `data-role="content"`
- screens (pages) can have "header" and "footer"

jQueryMobile relies on attributes `data-role="page"`

#ID is used for navigation between screens (pages)

# jQuery Mobile:

automatically takes care of internal navigation using properly structured pages with data-role attributes

Pages can be linked:

- internally with *#page1* and *#page2*
- externally (*page3.html*)

Examples: *JQM8\_pages.html* & *page3.html*

- *page3.html* is linked externally
- jQuery Mobile extracts the first `data-role="page"` element from it and injects that on screen

# jQuery Mobile:

```
<section data-role="page" id="page1">  
  <header data-role="header">  
    <h1>This is page one</h1>  
  </header>  
  <section data-role="content">  
    <p><a href="#page2">Link to page 2</a></p>  
  </section>  
  <footer data-role="footer">  
    <p>footer</p>  
  </footer>  
</section>
```



A Touch-Optimized UI Framework built with  
jQuery and HTML5.

**Welcome.** jQuery Mobile is the easiest way to build sites and apps that are accessible on all popular smartphone, tablet and desktop devices. For jQuery 1.7.0 to 1.8.3.

## Overview

[Intro to jQuery Mobile](#)

[Quick start guide](#)

[Features](#)

[Accessibility](#)

[Supported platforms](#)

## Components

[Pages & dialogs](#)

[Toolbars](#)

[Buttons](#)

[Content formatting](#)

[Form elements](#)

[Listviews](#)

## API

[Configuring defaults](#)

[Events](#)

[Methods & Utilities](#)

[Data attribute reference](#)

[Theme framework](#)

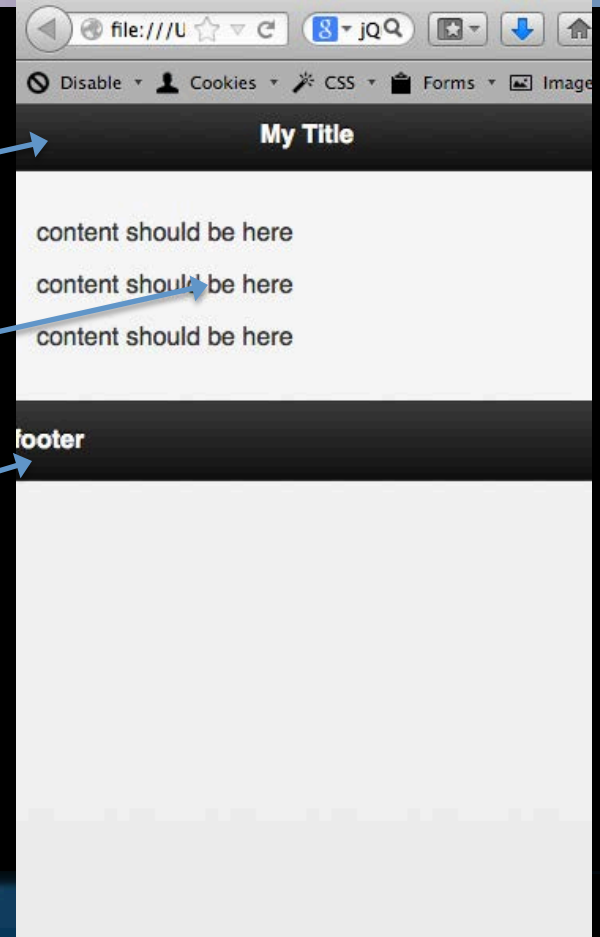
Final

# jQuery Mobile – link to the library and the CSS

```
<!DOCTYPE html>
<html>
<head>
  <title>My Page</title>
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <link rel="stylesheet" href="http://code.jquery.com/mobile/1.2.1/
    jquery.mobile-1.2.1.min.css" />
  <script src="http://code.jquery.com/jquery-1.8.3.min.js"></script>
  <script src="http://code.jquery.com/mobile/1.2.1/
    jquery.mobile-1.2.1.min.js"></script>
</head>
<body>
```

# jQuery Mobile

```
<body>
<div data-role="page">
  <div data-role="header">
    <h1>My Title</h1>
  </div><!-- /header →
  <div data-role="content">
    <p>content should be here</p>
  </div><!-- /content →
  <div data-role="footer">
    <p>footer</p>
  </div><!-- /footer→
</div><!-- /page →
</body>
</html>
```



# jQuery Mobile

```
<section data-role="page" id="page1">
  <header data-role="header">
    <h1>This is page one</h1>
  </header>
  <section data-role="content">
    <p><a href="#page2">Link to page 2</a></p>
  </section>
  <footer data-role="footer">
    <p>footer</p>
  </footer>
</section>
```

internal linking

```
<section data-role="page" id="page2">
  <header data-role="header">
    <h1>This is page two</h1>
  </header>
  <section data-role="content">
    <p><a href="#page1">Link to page 1</a></p>
  </section>
```

# jQuery Mobile Page Transitions

Page Transitions

Slide

Slideup

Slidedown

Pop

fade

flip

```
<li><a href="2.html" data-transition="flip">example page</a></li>
```



# jQuery Mobile Page Transitions

Some browsers have issues with jQM page transitions

Workaround:

```
.ui-page { -webkit-backface-visibility: hidden; }
```

# jQuery Mobile Events- JQM8\_events.html

## Touch events

tap

taphold

swipe

swipeleft

swiperight

## Orientation change event

orientationchange

## Page show/hide events

pagebeforeshow

pagebeforehide

pageshow

pagehide

## Page initialization events

pagebeforecreate

pagecreate

# jQuery Mobile Tools



[Get Started with AppLaud](#) [Demos](#) [Video Demos](#) [Tutorials](#) [Forum](#) [Blog](#)

[Enabling Web Developers to Create Android Apps](#) > [Get Started with AppLaud](#) >

## Two Minute Tutorials using AppLaud

### TMT0

Use **AppLaud** to create a Web App Project, Run it on a Device or Simulator

#### Primer tutorial for MDS **AppLaud 1.2 Eclipse Plugin for Phonegap for Android**

The first Two-Minute Tutorial ([TMT0](#)) presents in detail the steps to create a new project, understand project and file contents, enable and review JSLint settings, and run the app on a device or simulator. Users who have already created and run an app using **AppLaud** on a device or simulator may prefer to start with [TMT1](#) - Use PhoneGap APIs and jQuery Mobile UI Framework.

### TMT0.1

User tips for **AppLaud** including DDMS and AVD

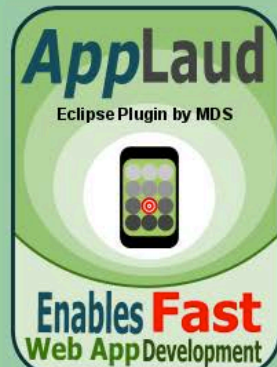
Ramp up your mobile app development by reviewing these tips and recommendations for AppLaud users.

### TMT1 Part 1

**Media Player: Use PhoneGap Media API and jQuery Mobile**

Use jQuery Mobile to create an app that lets the user Play/Pause/Stop a media (audio) file, and update the status on the app page. Uses: **PhoneGap Media API, jQuery Mobile** (buttons, dynamic page update).

### TMT1 Part 2



Announcements

[Get Started with AppLaud](#)

[Video Demos](#)

[Download Info](#)

[Get the Source Code](#)

# jQuery Mobile Resources

[Plugins](#)[Contribute](#)[Events](#)[Support](#)[jQuery Foundation](#)

## JQUERY.TO();

TORONTO, CANADA | MARCH 15-16TH, 2014

[Demos](#)[Download](#)[API Documentation](#)[Themes](#)[Resources](#)[Blog](#)[About](#)

## Resources

In this section, we have gathered useful resources that will help you learn more about jQuery Mobile, find tools to develop jQuery Mobile application designs and mockups, tutorials and tools to guide your through the development of simple or more complex applications and related articles.

[Featured sites](#) | [Books](#) | [Apps & Frameworks](#) | [Plugins](#) | [Extensions](#) | [Tools](#) | [Themes](#) | [Articles & Tutorials](#)

### Featured jQuery Mobile sites from jQMGallery.com

You will find below a great sample collection of Mobile sites built with jQuery Mobile. More examples can be found in the [jQM Gallery](#).

# jQuery Mobile Design

User Interface System

Mobile Web Applications

HTML5 based

One single app or site

All popular mobile device platforms

Tested on a large set of devices and platforms

# jQuery Mobile Design

easy to use

- Semantic markup

- Use regular HTML with data-\*\*\* attributes

flexible

- Themes

- CSS styles

- Scripting

# jQuery Mobile

JQM\_datarolls.html

simple page

header - data-role="header"

Footer - data-role="footer"

Content - data-role="content"

# jQuery Mobile

JQM3\_pages.html

Dialog - data-rel="dialog"

Back button - data-add-back-btn="true"



# jQuery Mobile

JQM4\_listviews.html

Listviews typically used for navigation between pages

<ul> and <li> elements

Listviews- data-role="listview"

inset appearance: data-inset="true"

data-filter="true"

Listheaders

– data---divider---theme (on the <ul> element)

Divider - data-role="divider"

<span class="ui-li-count">7</span>

# jQuery Mobile

JQM5\_buttons.html

## Buttons

```
data-role="button"  
data-inline="true"  
data-theme="a"  
data-icon="gear"
```



```
<div data-role="controlgroup" data-type="horizontal">
```

# jQuery Mobile

JQM6\_formelements.html

Forms

- regular HTML5 Forms

- styling

- data-role="fieldcontain"

Group a set of controls

- data-role="controlgroup"

# jQuery Mobile

JQM6\_formelements.html

Forms

Search - `<input type="search" name="search" id="search" value="" /`

Textfield - `<input type="text" name="name" id="plain"  
placeholder="Hidden Label"/>`

Radio button - `<input type="radio" name="radio" id="radio1"  
value="1" checked="checked" />`

Checkbox - `<input type="checkbox" name="checkbox-1"  
id="checkbox-1" />`

Slider - `<input type="range" name="slider" id="slider" value="75"  
min="0" max="100" step="5" data-highlight="true" data-  
mini="true" />`

# jQuery Mobile

JQM6\_toolbars.html

Navigation bar - data-role="navbar"

Transitions between pages

data-transition="slide"

Different transition types (pop, slide, etc)

# jQuery Mobile

JQM7\_contentformatting.html

## Collapsible menu

```
<div data-role="collapsible">  
  <h3>Header</h3>  
  <p>Content</p>  
</div>
```

# jQuery Mobile

## Navigation

jQuery Mobile includes a navigation system to load pages into the DOM via Ajax, enhance the new content, then display pages with a rich set of animated transitions.

## AJAX – Asynchronous JavaScript and XML

Client side technique that allows the browser to make a request to the server “behind the scenes” without changing the URL of the page and without blocking the UI while loading.

# jQuery Mobile

## Hijax

jQuery Mobile makes AJAX requests between page navigations, requesting the whole target HTML document as plain text for later parsing while still having a normal HTML link in the markup.

This pattern is known as Hijax

it includes the use of progressive enhancement techniques to make it work



# Codiqa – JQM GUI tool



[Tour](#)

[Pricing](#)

[Customers](#)

[Blog](#)

[Sign In](#)

## Build jQuery Mobile apps, the easy way.

Codiqa is a powerful drag-and-drop builder for creating cross-platform HTML5 mobile apps and websites. It's simple, easy to use, and so damn useful.

**Get started now!**

▶ Or try the demo



readwrite



appstorm

THE WALL STREET JOURNAL

Forbes

# Themeroles – CSS themes GUI

jQM allows to customize the entire UI through themes and CSS

Theme – set of color swatches defining

- text colors

- background colors and gradients

- font/s

- effects – shadows, rounded corners, etc.

- active states of buttons and other controls

[Home](#)[Introduction](#)[Buttons](#)[Button widget](#)[Checkboxradio widget](#)[Collapsible \(set\) widget](#)[Controlgroup widget](#)[Datepicker](#)[Events](#)[Filterable widget](#)[Flipswitch widget](#)[Forms](#)

## Button markup

Add classes to style `a` and `button` elements. `input` buttons are enhanced by the button widget. See [this page](#) for examples.

Note that in 1.4 `data-` attributes will still work. The deprecated `buttonMarkup` method will add the applicable classes to `a` (with `data-role="button"`) and `button` elements. This method also adds the `role="button"` attribute to anchor elements.

[Quick Links](#) <

### Basic markup

**Anchor**

**Button**

[View Source](#)

# Themeroller – CSS themes GUI

ThemeRoller For jQuery Mobile

jQuery Mobile Version 1.4.1

undo redo Inspector off Download theme zip file Import or upgrade Share theme link Help center

Global A B C +

Theme Settings

- Font Family
- Corner Radii
- Icon
- Box Shadow

Drag a color onto an element below or pick from the [Adobe Kuler swatches](#)

Recent Colors [colors...](#)

LIGHTNESS SATURATION

A B C

Body  
Sample text and [links](#).

List Header

Read-only list item

Linked list item

Radio

Checkbox

On Off

Option 1

A B C

# jQuery Mobile

## Scripting

Pageinit / pageshow events

- Form submit

jQuery Mobile pages by Chris Johnson

<http://www.youtube.com/watch?v=pzbrixFXqzQ&feature=youtu.be>

[http://www.youtube.com/watch?v=RtbDC3i\\_iVc&feature=youtu.be](http://www.youtube.com/watch?v=RtbDC3i_iVc&feature=youtu.be)