

jQuery Mobile on Rails

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JQUERY MOBILE 1.0 BETA 2 RELEASED!

jQuery Mobile: Touch-Optimized Web Framework for Smartphones & Tablets

A unified user interface system across all popular mobile device platforms, built on the rock-solid jQuery and jQuery UI foundation. Its lightweight code is built with progressive enhancement, and has a flexible, easily themeable design. Beta 2 Release Notes



Project Goals and Strategy

Seriously cross-platform & cross-device

jQuery mobile framework takes the "write less, do more" mantra to the next level: Instead of writing unique apps for each mobile device or OS, the jQuery mobile framework will allow you to design a single highly branded and customized web application that will work on all popular smartphone and tablet platforms. Device support grid



Goals

Cross-device

Cross-browser

Progressive Enhancement

Accessible

About It

**Powerful Stuff
Quickly**

Like Rails

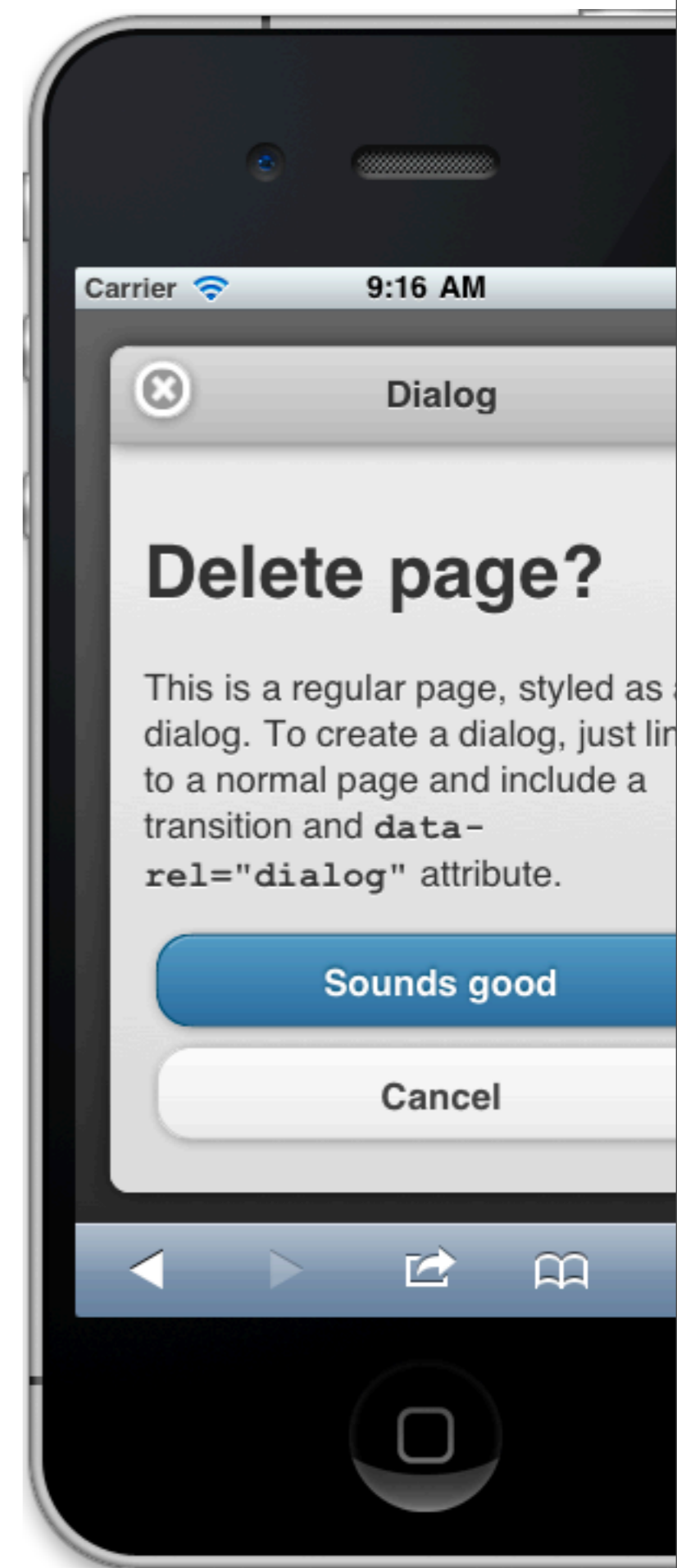
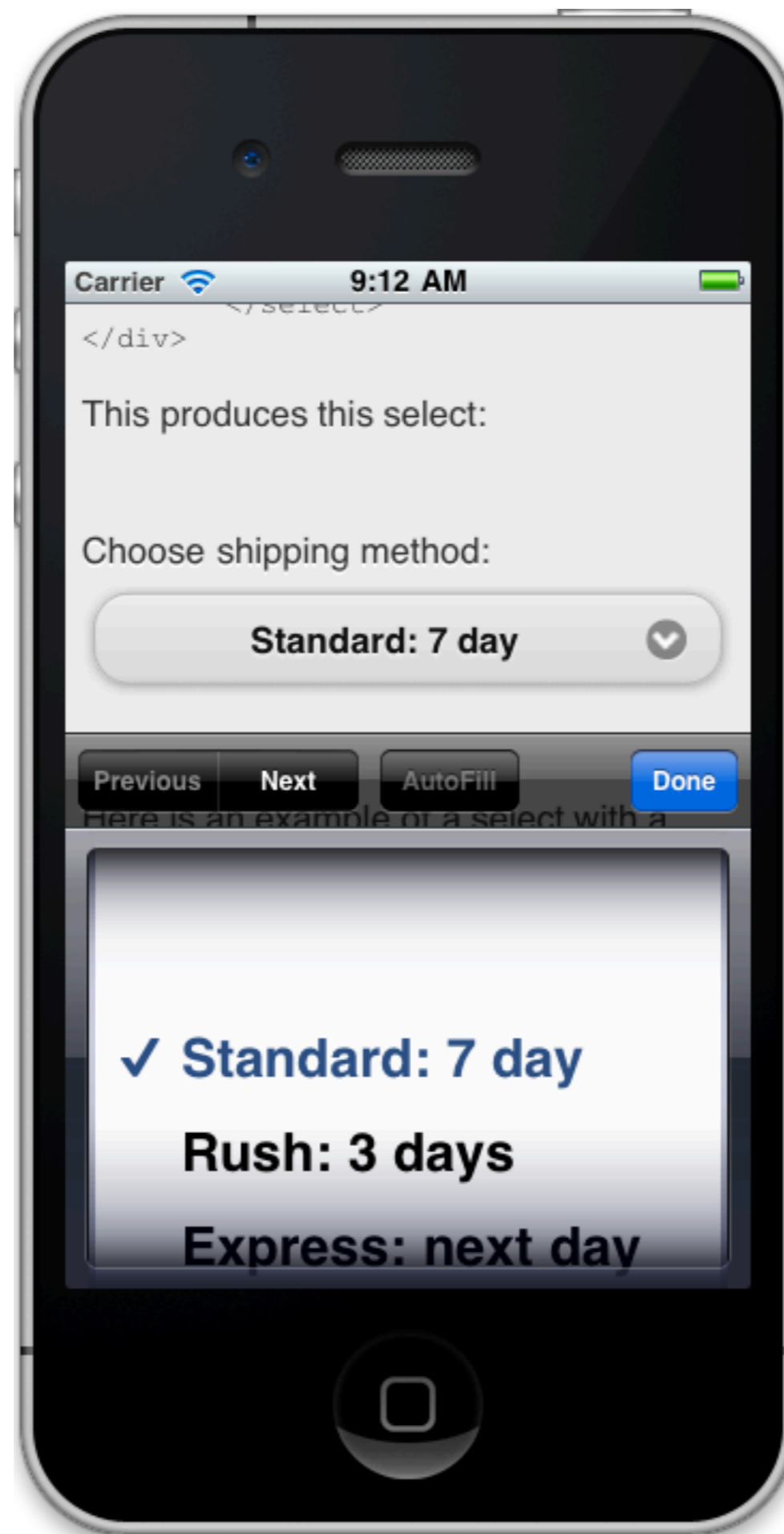
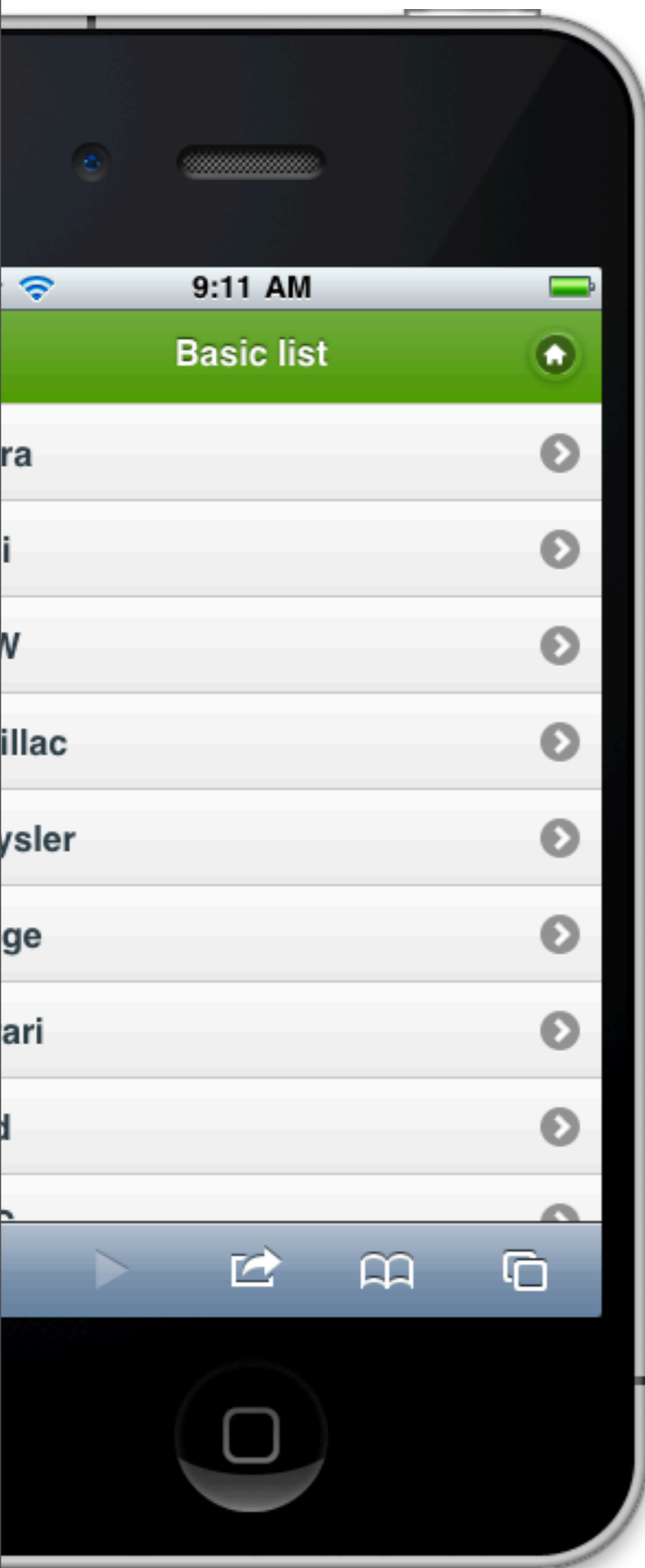
Opinionated

Markup

Pages

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

Style



Unobtrusive

Progressive Enhancement

Using It

Rails 3.0

rails new mobile

gem 'rails', '3.0.9'

gem "jquery-rails", "~> 1.0.13"

bundle install

rails generate jquery:install

<http://jquerymobile.com/download/>

```
mv ~/Downloads/jquery.mobile-1.0b2/jquery.mobile-1.0b2.min.css public/stylesheets/jquery.mobile.css
```

```
mv ~/Downloads/jquery.mobile-1.0b2/jquery.mobile-1.0b2.min.js public/javascripts/jquery.mobile.js
```

```
mv ~/Downloads/jquery.mobile-1.0b2/images public/stylesheets
```

“Normal” Model/Controller Setup

```
rm public/index.html
rails generate model Task title:string completed:boolean
rails generate controller tasks
bundle exec rake db:create:all
bundle exec rake db:migrate
```

config/routes.rb

```
resources :tasks
root :to => "tasks#index"
```

app/views/layouts/application.html.erb

```
<!DOCTYPE html>
<html>
<head>
  <title>Mobile</title>
  <%= stylesheet_link_tag :all %>
  <%= javascript_include_tag 'jquery', 'jquery_ujs',
    'application', 'jquery.mobile' %>
  <%= csrf_meta_tag %>
</head>
<body>
  <%= yield %>
</body>
</html>
```

Pages

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

app/views/layouts/application.html.erb

```
<div data-role="page">  
  <div data-role="header">  
    <%= yield :header %>  
  </div>  
  
  <div data-role="content">  
    <%= yield %>  
  </div>  
</div>
```

app/views/layouts/application.html.erb

```
<div data-role="page" <%= yield :page_html %>>
  <% if content_for?(:header) %>
    <div data-role="header">
      <%= yield :header %>
    </div>
  <% end %>

  <div data-role="content">
    <%= yield %>
  </div>
</div>
```

app/views/tasks/index.html.erb

```
<% content_for :header do %>  
  <h1>Tasks</h1>  
  <%= link_to "Add", new_task_path %>  
<% end %>
```

```
<ul data-role="listview">  
  <%= render @tasks %>  
</ul>
```

TasksController

```
def create
  @task = Task.new(params[:task])
  if @task.save
    redirect_to root_url
  else
    render :new
  end
end
```

Page Reference Problem

TasksController

```
def create
  @task = Task.new(params[:task])
  if @task.save
    redirect_to root_url
  else
    render :new
  end
end
```

app/views/tasks/index.html.erb

```
<% content_for :page_html, "data-url='/tasks'" %>
```

Everything is AJAX

Demo

Testing It

Cucumber

Capbara

Selenium

Chrome

What Doesn't Work

Selenium iPhone driver

capbara-webkit

akephalos

culerity

Demo

Bonus Round

app/views/layouts/application.html.erb

```
<head>
```

```
<meta name="viewport" content="height=device-height,width=device-width,initial-scale=1.0,maximum-scale=1.0">
```

```
<meta name="apple-mobile-web-app-capable" content="yes"/>
```

```
<meta name="apple-mobile-web-app-status-bar-style" content="black"/>
```

Orientation Change Issue:

<https://github.com/jquery/jquery-mobile/issues/339>

Mixed-App

mobile-fu

<https://github.com/brendanlim/mobile-fu>

Relevant Bug:

<https://github.com/brendanlim/mobile-fu/issues/17>

index.mobile.erb

DRY?

Single Page Apps

Multiple Pages

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

Native Apps

PhoneGap

<https://github.com/phonegap/phonegap>

Questions