

# **Sencha Touch 2.0: HTML5 Mobile Apps**

Build Amazing Apps with Web Standards





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pages

interactive

apps



# Build Amazing Apps with Web Standards



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pages

interactive

apps





Carrier



3:36 PM



# Travel Mate

jag.gr





Carrier



3:10 PM



Quality Online Takeaways



Enter your postcode or town:

eg CV32 5QZ

Go!

or hit 'Go' for a demo





“Sencha Touch is built from the ground up to leverage HTML5, CSS3, and JavaScript enabling us to build rich Web applications that look and feel native right out of the box.”

– Craig Walker, CTO of Xero



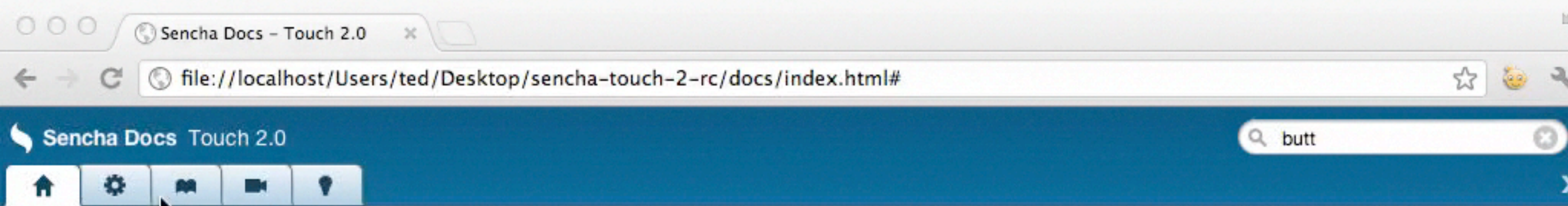
[Logout](#)**My Xero**[Demo](#)

## Getting Started

- 1 To start your free trial, check your email and login from your computer.
- 2 Once your setup is complete your trial will appear here.
- 3 To get a feel for Xero Touch now, have a play with our Demo Company.

[Try the Demo Company](#)





# Sencha Touch 2.0: Making the web mobile.

## Get Started

Follow this simple guide to get started with Sencha Touch 2. We'll build a small website app with a welcome page, a list and a form.

## What's New

Sencha Touch 2 is all about performance, ease of use and great docs. Here's a guide to all that's new.

## API Documentation

Dive right in and explore our detailed documentation.



## Guides [View all »](#)

[Migrating from 1.x](#)  
[Intro to Applications](#)

[Layouts](#)  
[The Class System](#)

## Examples [View all »](#)

[Kitchen Sink App](#)  
[Twitter App](#)

[Carousel](#)  
[Icons](#)



# HTML



## MY APPLICATION



**Sencha Touch**  
Mobile



**Ext JS**  
Desktop

## BROWSER ENGINES

HTML

JavaScript

CSS

## SERVERS & SERVICES

HTTP/HTTPS

Sencha.io

WebSocket



## MY APPLICATION

- Mobile framework
- Native packaging
- Modern mobile UI



**Sencha Touch**  
Mobile

- Desktop framework
- Cross-Browser
- Modern desktop UI



**Ext JS**  
Desktop

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# Sencha Customers

Products used by over 8,800 customers worldwide.



## MY APPLICATION

**UI: Controls + Containers**

**Data: Models + Stores + Connectors**

**Foundation: OOP + MVC + Library**



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# Foundation





# Class System

Packages

Inheritance

Scope Management

Class Loading

Mix-ins





# Class System

```
Ext.define( 'class_name', {} );
```

```
Ext.create( 'class_name', {} );
```



# Classes

```
Ext.define( 'Animal', {  
    config: {  
        name: null  
    },  
    constructor: function( config ) {  
        this.initConfig( config );  
    }  
});
```





# Classes

```
Ext.define( 'Animal', {  
    config: {  
        name: null  
    },  
    constructor: function( config ) {  
        this.initConfig( config );  
    }  
});
```

```
Ext.define( 'Human', {  
    extend: 'Animal',  
    speak: function() {  
        console.log( this.getName() );  
    }  
});
```



# Classes

```
Ext.define( 'Animal', {
  config: {
    name: null
  },
  constructor: function( config ) {
    this.initConfig( config );
  }
});

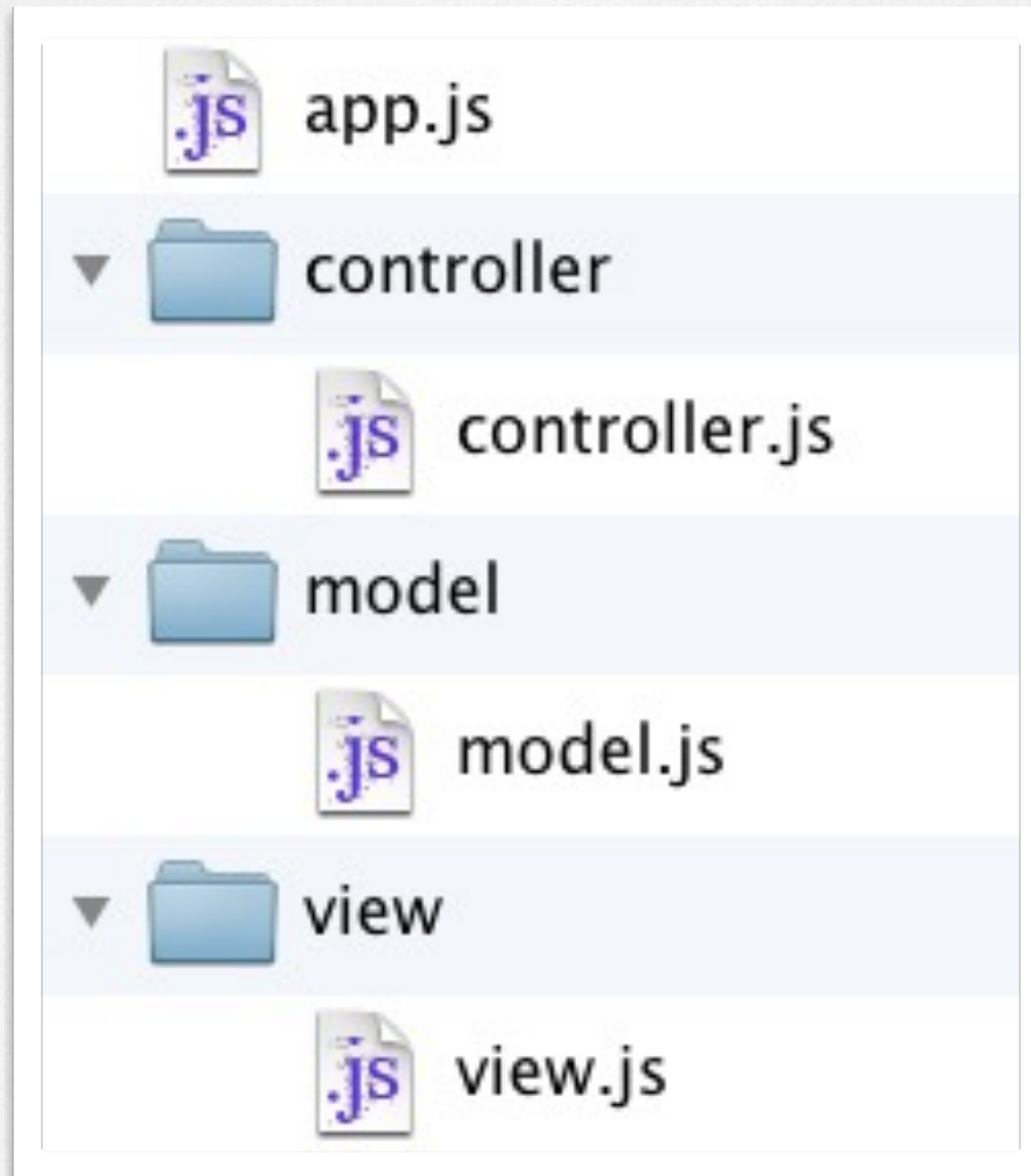
Ext.define( 'Human', {
  extend: 'Animal',
  speak: function() {
    console.log( this.getName() );
  }
});

var bob = Ext.create('Human', { name: 'Bob' });
bob.speak(); //console: 'Bob'
```





# MVC



# Standard Library

## Native Classes

Array  
Boolean  
Date  
Function  
Number  
Object  
RegExp  
String 3

## Native Extensions

Ext.Array 7  
Ext.Number  
Ext.Object 3  
Ext.String  
Ext.JSON 3  
Ext.Date 2  
Ext.Function  
Ext.Error

## Utility

Ext.AbstractManager 1  
Ext.util.Filter  
Ext.util.Format  
Ext.util.Inflector 1  
Ext.util.KeyMap  
Ext.util.KeyNav  
Ext.util.Point  
Ext.util.Region  
Ext.util.TextMetrics 1  
Ext.util.MixedCollection  
Ext.util.Grouper  
Ext.util.HashMap 1  
Ext.util.Sorter  
Ext.util.Sortable 1

## Events

Ext.TaskManager  
Ext.EventManager  
Ext.EventObject  
Ext.util.ClickRepeater  
Ext.util.DelayedTask  
Ext.util.Observable 11  
Ext.util.TaskRunner 1





# xtype

```
{
  title: 'Basic',
  xtype: 'form',
  id: 'basicform',
  scroll: 'vertical',
  items: [{
    xtype: 'fieldset',
    title: 'Personal Info',
    defaults: {
      labelWidth: '35%'
    },
    items: [{
      xtype: 'textfield',
      name: 'name',
      label: 'Name',
      placeholder: 'Enter Name'
    }, {
      xtype: 'passwordfield',
      name: 'password',
      label: 'Password',
      placeholder: 'Enter Password'
    }
  ]
}]
}
```

# xtemplate

```
var template = new Ext.XTemplate(
    '<p>Name: {name}</p>',
    '<p>Kids: ',
    '<tpl for="kids">',
        '<tpl if="age > 1">',
            '<p>{name}</p>',
            '<p>Dad: {parent.name}</p>',
        '</tpl>',
    '</tpl></p>'
);

template.overwrite( panel.body , data );
```

```
var list = Ext.create( 'list', {
    store: store,
    itemTpl: '{firstName} {lastName}',
    grouped: true,
    indexBar: true
});
```





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HTML5

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CSS3

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WebSocket



# Data





# Data: Model & Stores

```
Ext.define( 'User', {  
    extend: 'Ext.data.Model',  
    fields: [  
        { name: 'id', type: 'int' },  
        { name: 'name', type: 'string' }  
    ]  
});
```



# Data: Model & Stores

```
Ext.define( 'User', {  
    extend: 'Ext.data.Model',  
    fields: [  
        { name: 'id', type: 'int' },  
        { name: 'name', type: 'string' }  
    ]  
});
```

```
Ext.create( 'Ext.data.Store', {  
    model: 'User',  
    proxy: {  
        type: 'ajax',  
        url : 'users.json',  
        reader: 'json'  
    },  
    autoLoad: true  
});
```





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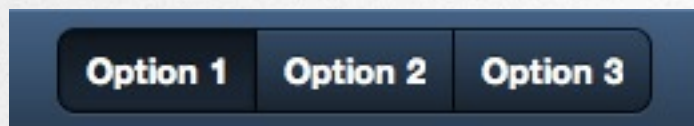
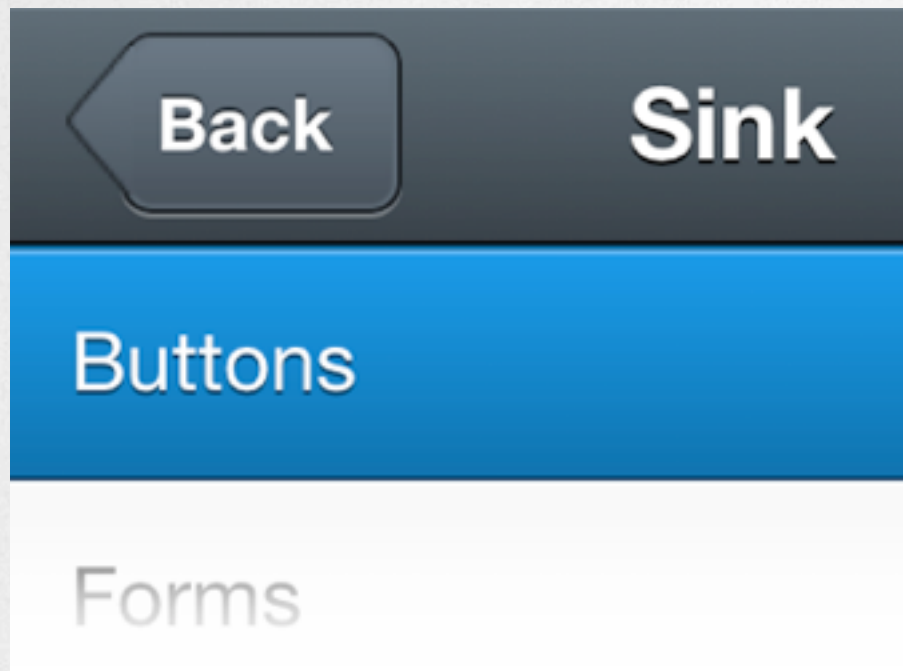


UI





# Touch Components

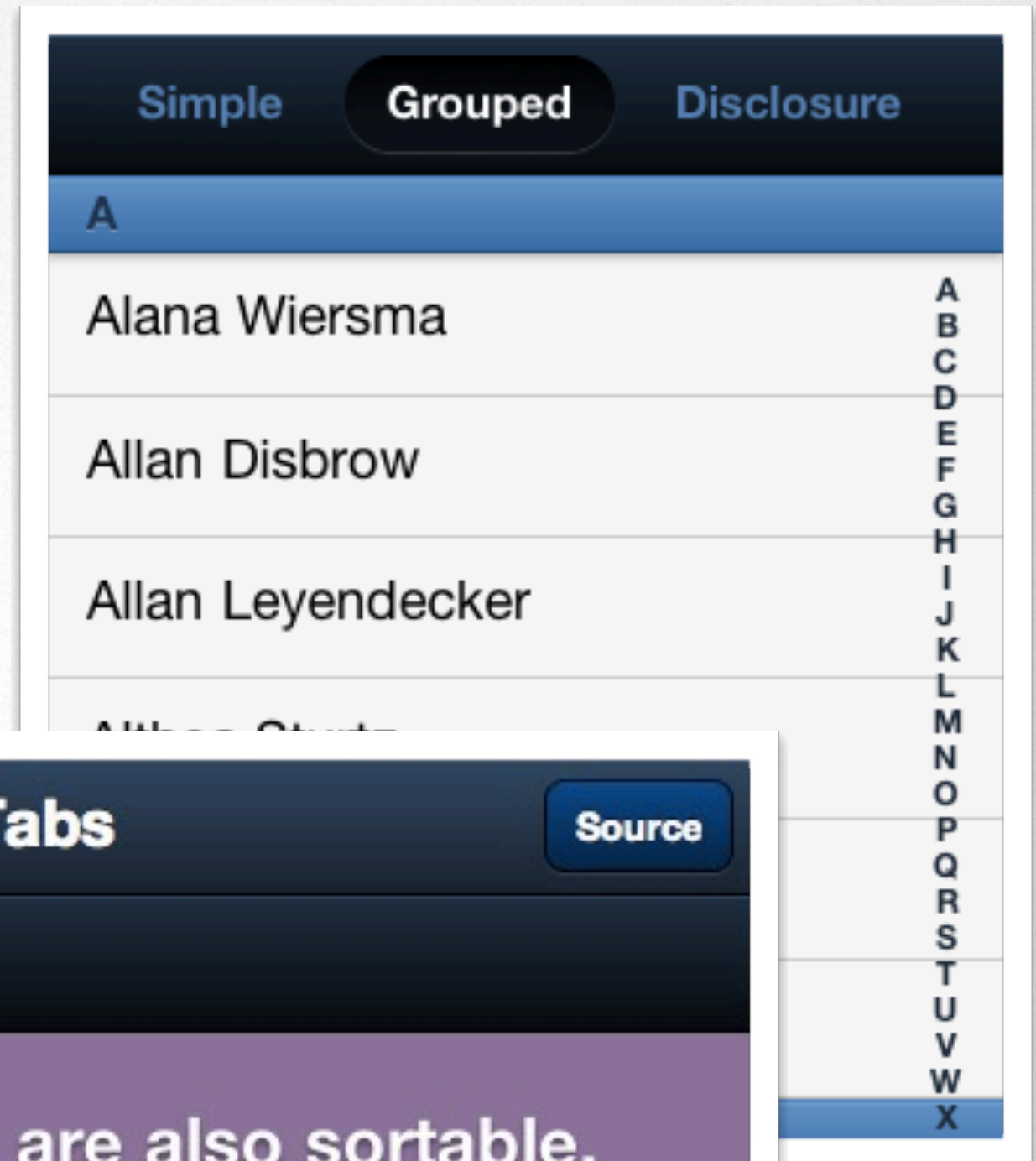
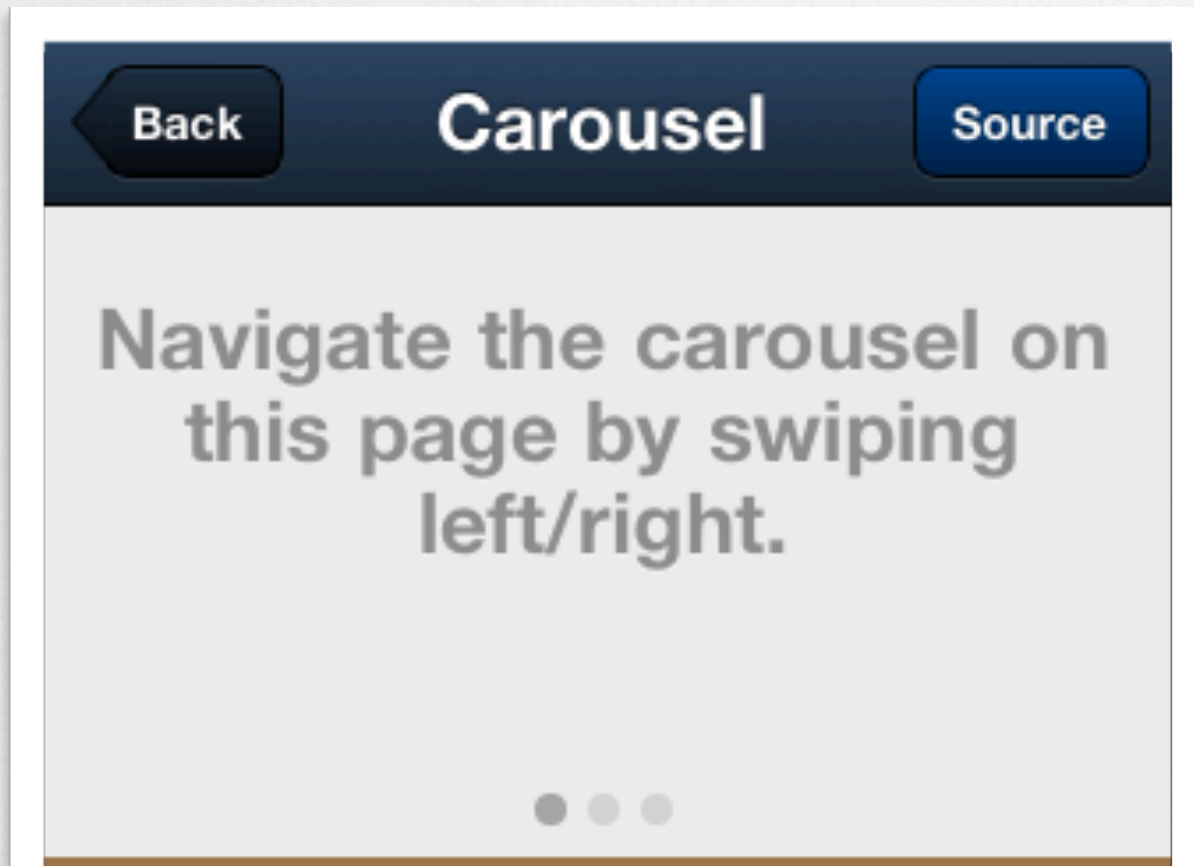


Name*	Ted Patrick	✕
Password	••••••••	✕
Email	ted.patrick@sencha.com	✕
Url	http://sencha.com	
Cool		✓
Birthday	05/03/1973	▼
Rank	Journeyman	▼
Bio		

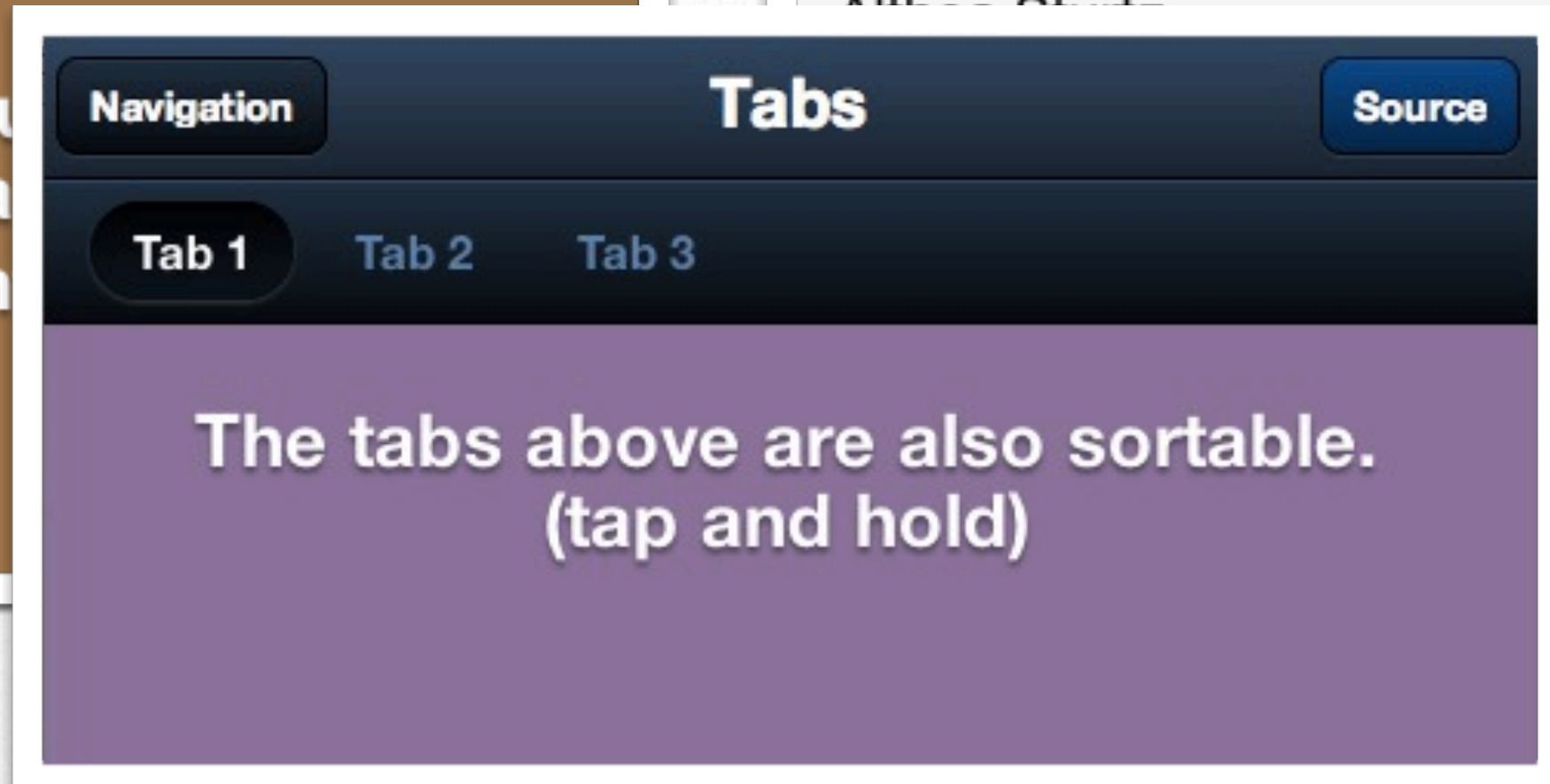
	Value
	Enable

Done		
		1991
January	1	1992
February	2	1993

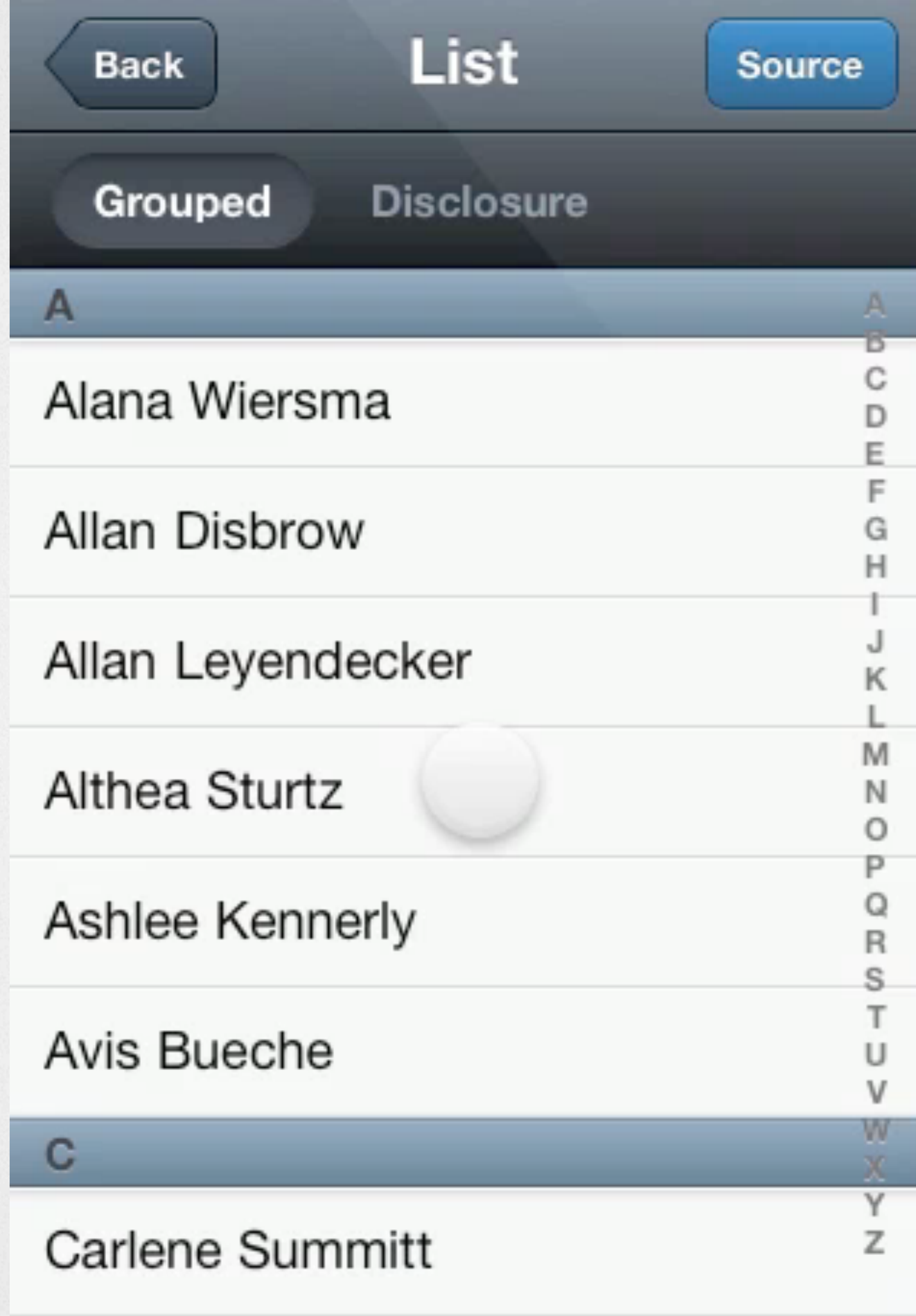
# Touch Containers



Carou  
vertical a  
'ligh







# Touch Scrolling

# Touch Events

Built on native events

Abstracted for performance

Additional events

Tap

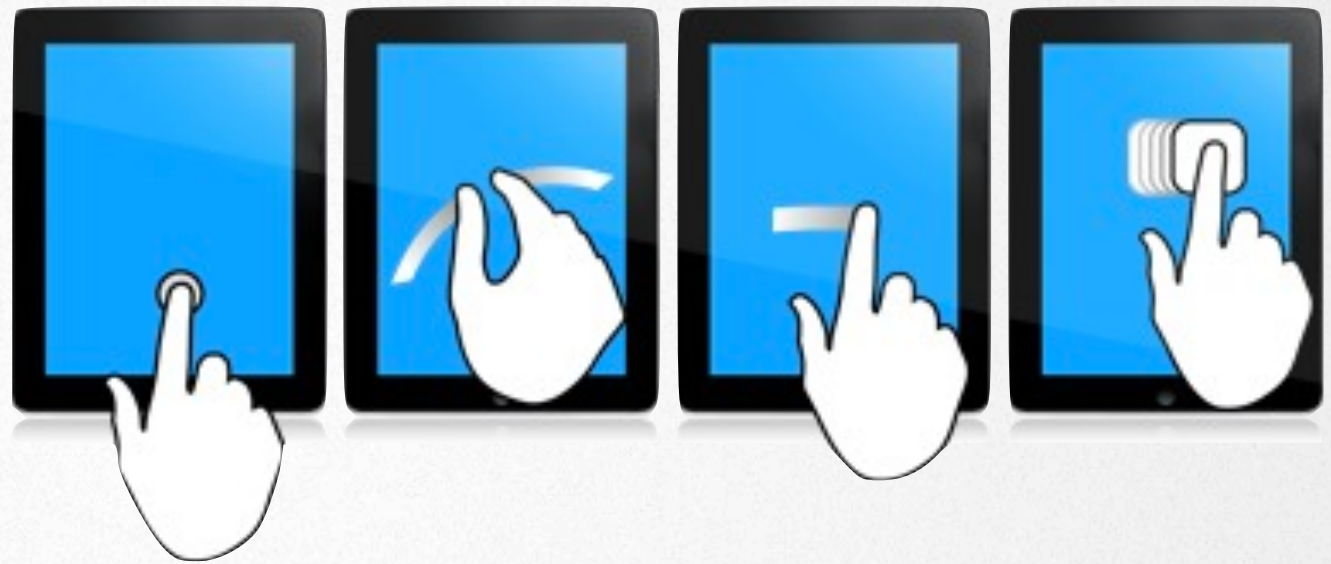
Double tap

Tap and hold

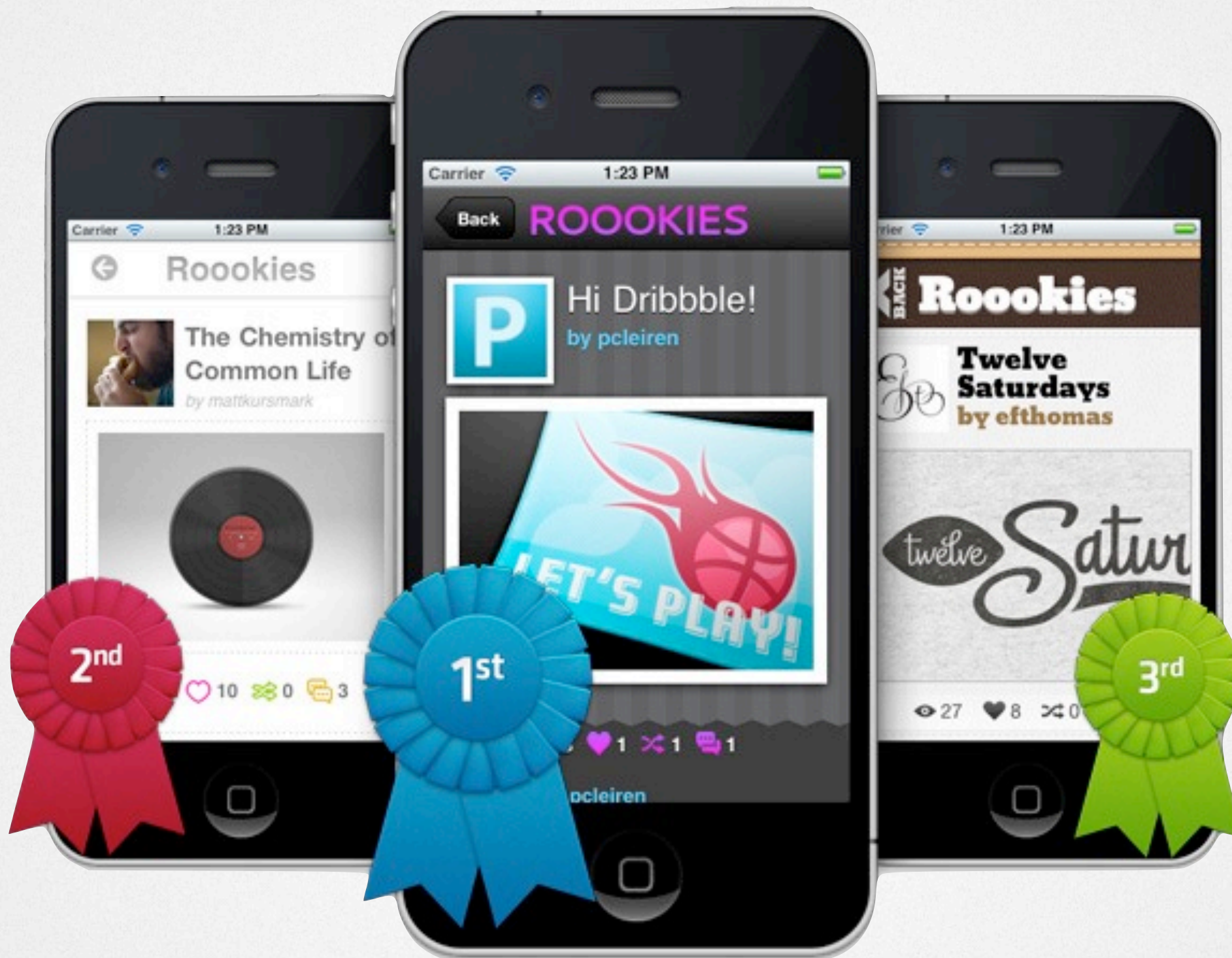
Swipe

Pinch

Drag & drop



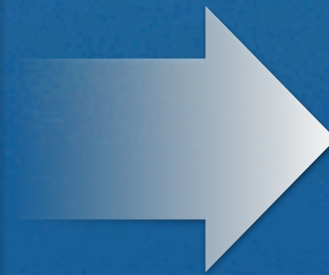






# Styling with Sass

```
/* Compass + Sass */
$blue: #3bbfce;
$margin: 16px;
.content-navigation {
  border-color: $blue;
  color: darken($blue, 9%);
}
.border {
  padding: $margin / 2;
  margin: $margin / 2;
  border-color: $blue;
}
```



```
/* Compiled CSS */
.content-navigation {
  border-color: #3bbfce;
  color: #2b9eab;
}
.border {
  padding: 8px;
  margin: 8px;
  border-color: #3bbfce;
}
```

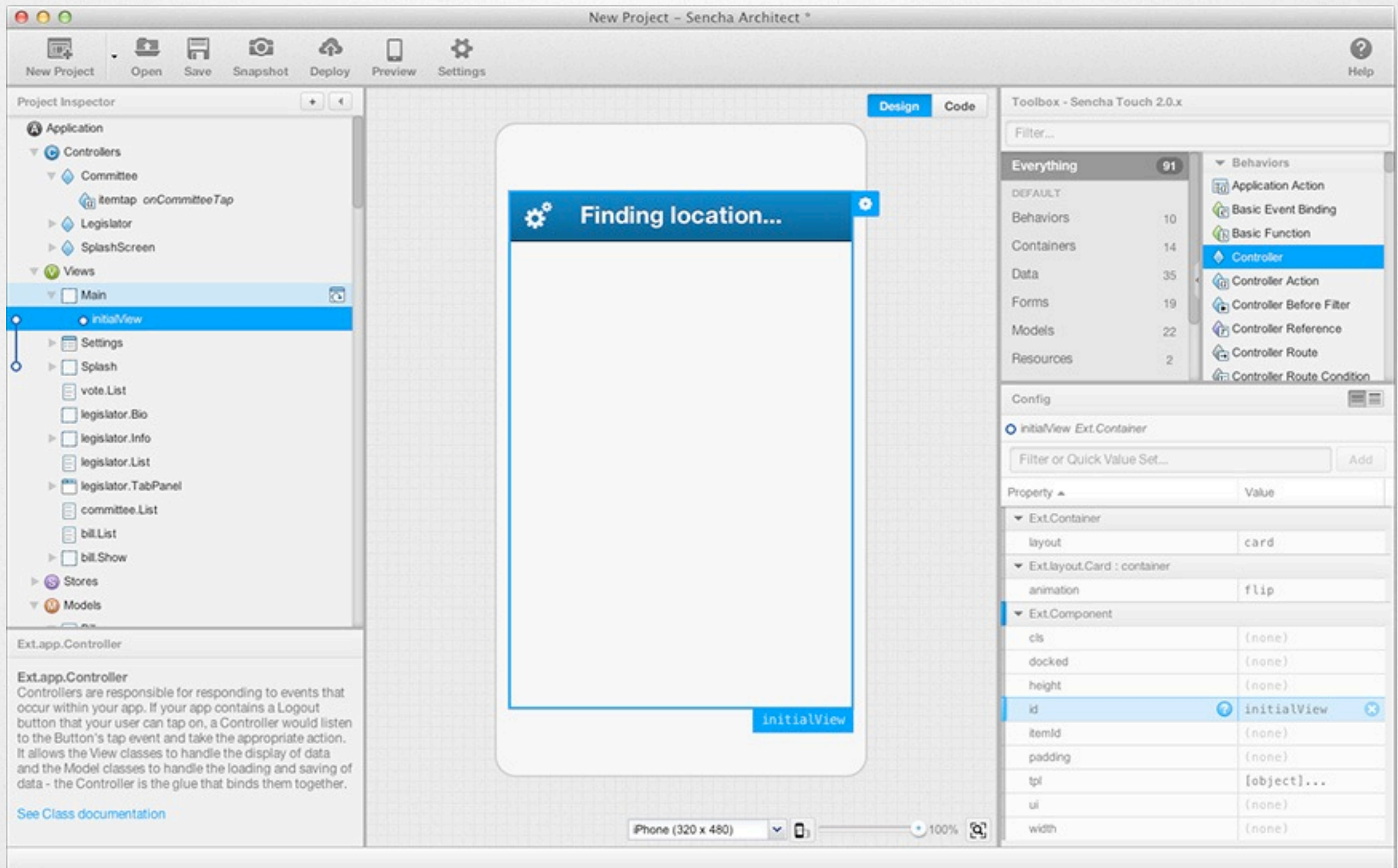


# Tooling



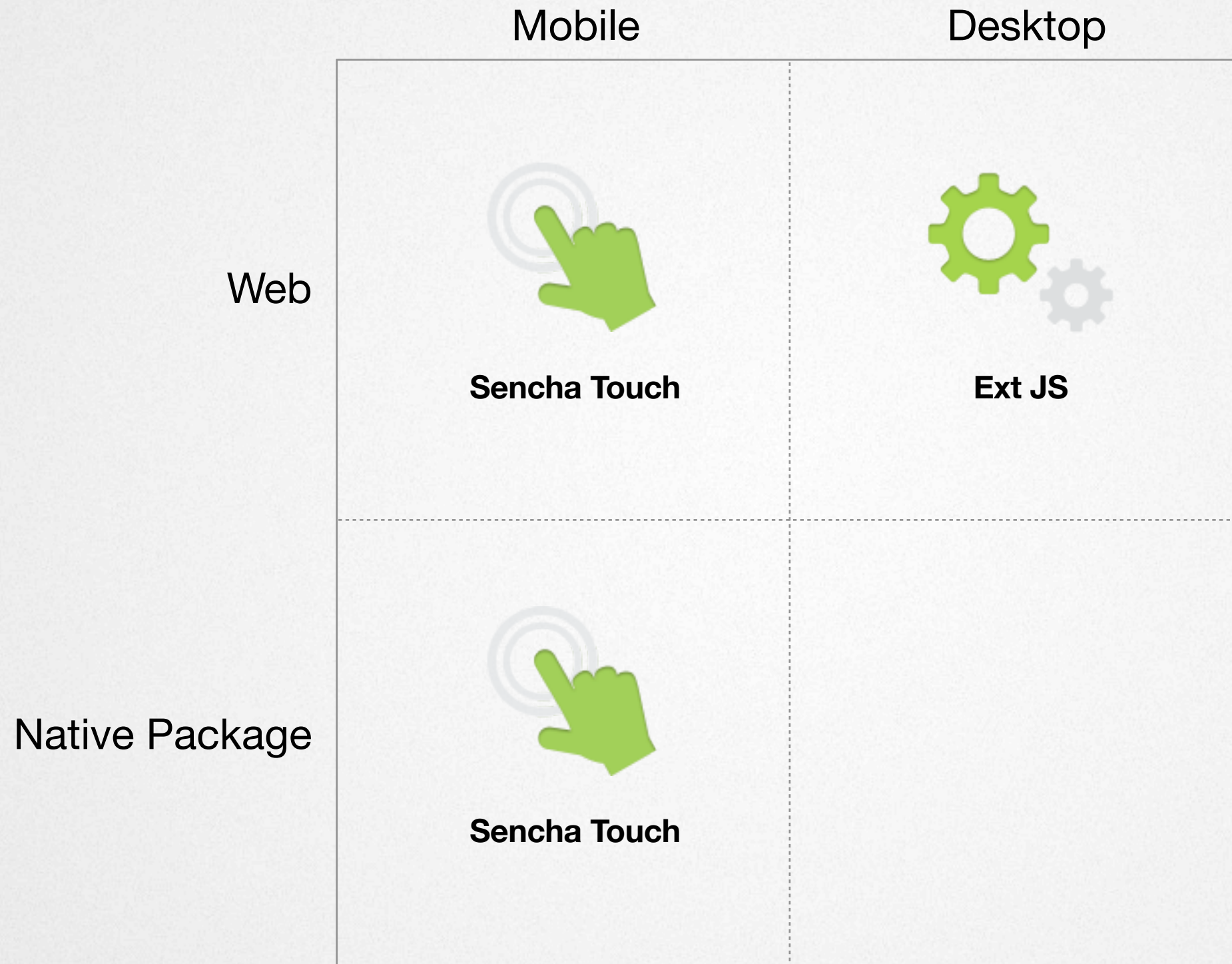


# Sencha Architect 2





# Sencha Deployment





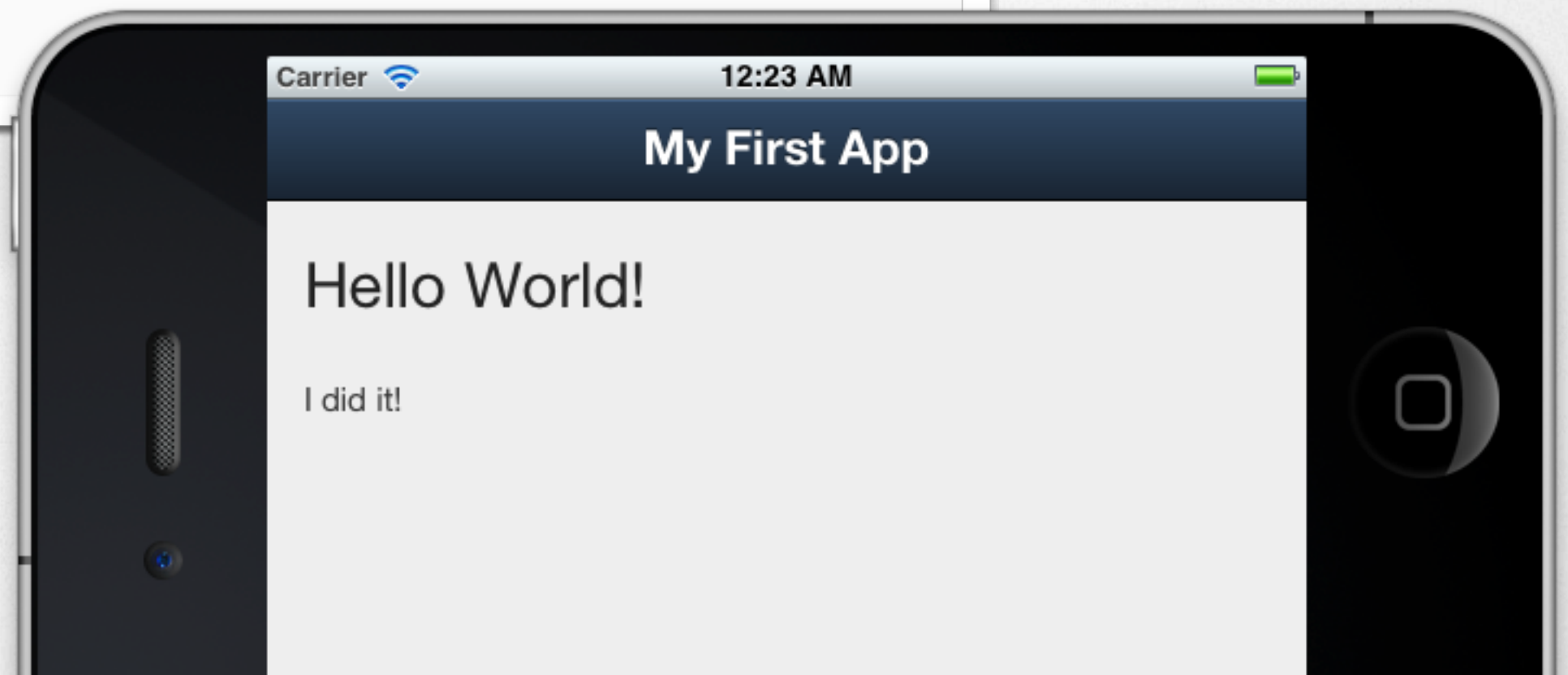
# Code!





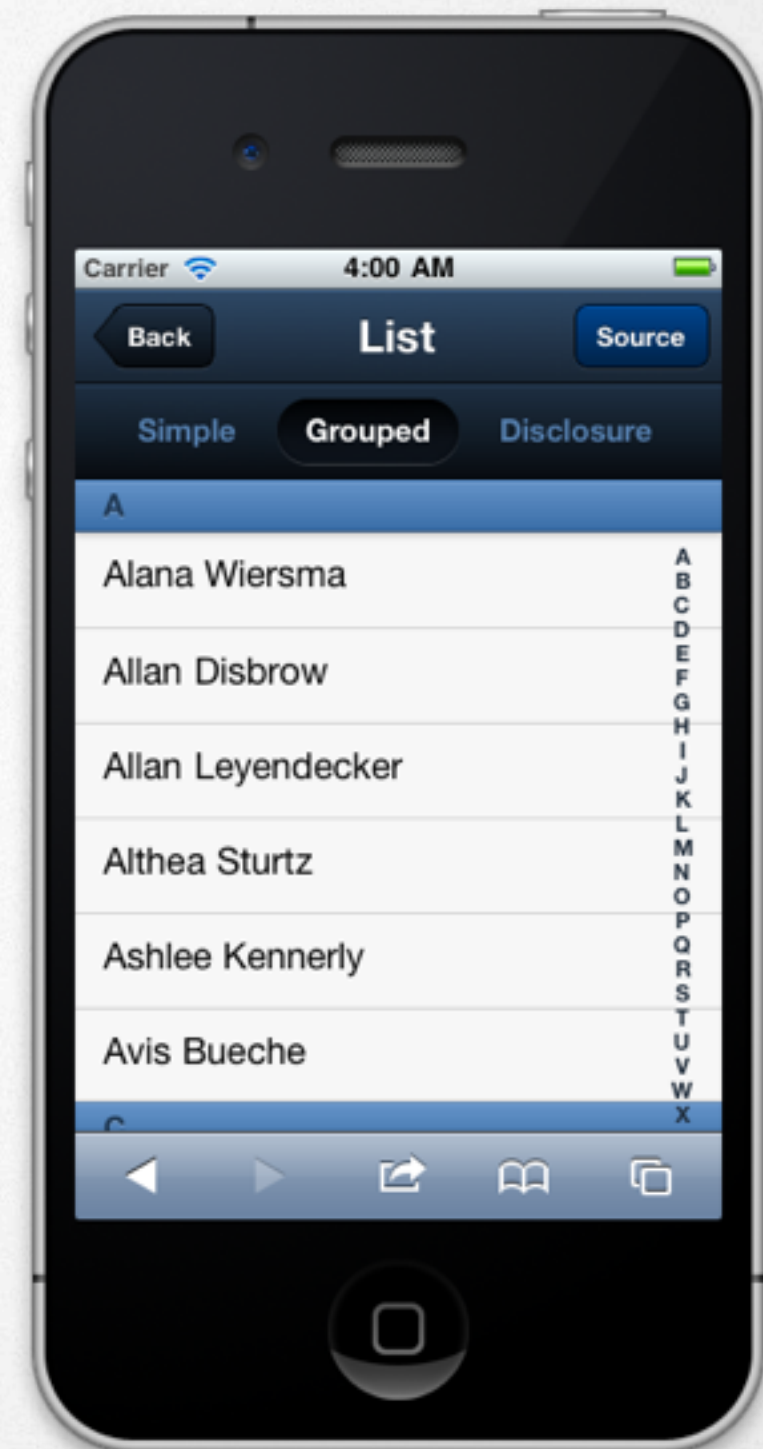
```
<!DOCTYPE html>
<html>
  <head>
    <title>Hello World</title>
    <script src="sencha-touch.js" type="text/javascript"></script>
    <link href="sencha-touch.css" rel="stylesheet" type="text/css" />
    <script src="myapp.js" type="text/javascript"></script>
  </head>
  <body></body>
</html>
```

```
Ext.application({
  launch: function() {
    Ext.create( 'Ext.Panel', {
      fullscreen: true,
      items: [{
        docked: 'top',
        xtype: 'toolbar',
        title: 'My First App'
      }],
      layout: 'fit',
      styleHtmlContent: true,
      html: '<h2>Hello World!</h2>I did it!'
    });
  }
});
```

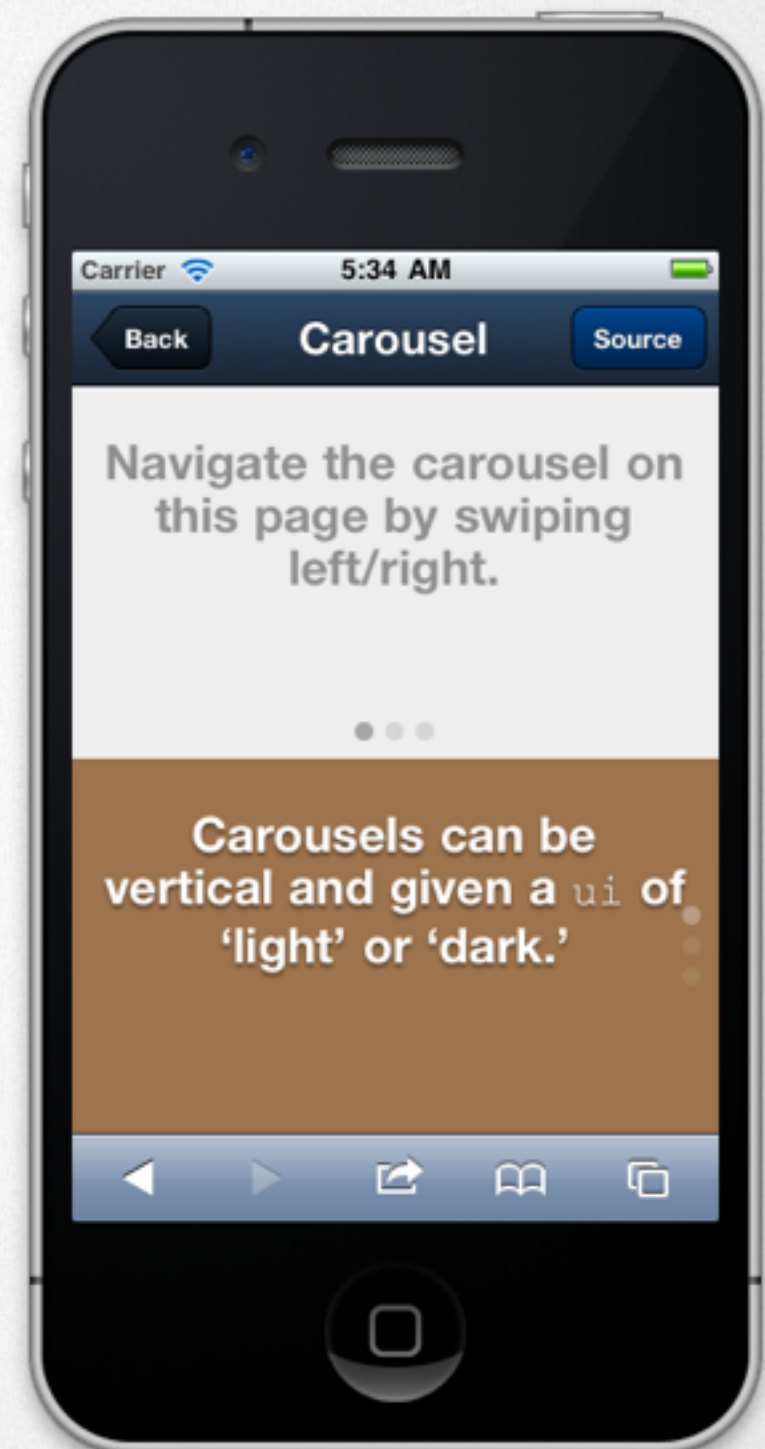




```
var list = Ext.create( 'list', {  
    store: store,  
    itemTpl: '{firstName} {lastName}',  
    grouped: true,  
    indexBar: true  
});
```



```
var hCarousel = Ext.create( 'carousel', {  
    direction: 'horizontal',  
    items: hItems  
});  
  
var vCarousel = Ext.create( 'carousel', {  
    direction: 'vertical',  
    items: vItems  
});  
  
var list = Ext.create( 'container' , {  
    fullscreen: true,  
    layout: 'vbox',  
    defaults: {  
        flex: 1  
    },  
    items: [ hCarousel , vCarousel ]  
});
```





# Get Started!



The screenshot shows the Sencha Learning Center website in a browser window. The browser's address bar displays <http://www.sencha.com/learn>. The page features a dark blue header with the Sencha logo and navigation links: Log in / Register, Forum, App Gallery, Learn, Documentation, Products, Support, Training, Company, Blog, and Store. The main content area is titled "Learning Center" and includes a search bar. It is divided into three columns. The left column, titled "Learn Sencha Touch", shows images of mobile phones and describes the mobile app framework for Android, BlackBerry, and iOS. The middle column, titled "Learn Ext JS", shows a pie chart and line graphs, describing the web app framework for building rich web apps with charts and MVC packages. The right column, titled "Contribute to our Learning Center", encourages users to help out and achieve instant community fame by creating articles or screencasts, with a "Contribute" button. Below these columns are three smaller images: a screenshot of a web application, a screenshot of a web application, and a screenshot of a web application.

<http://www.sencha.com/learn>

<http://sencha.com/learn>