

Mobile HTML5 Applications

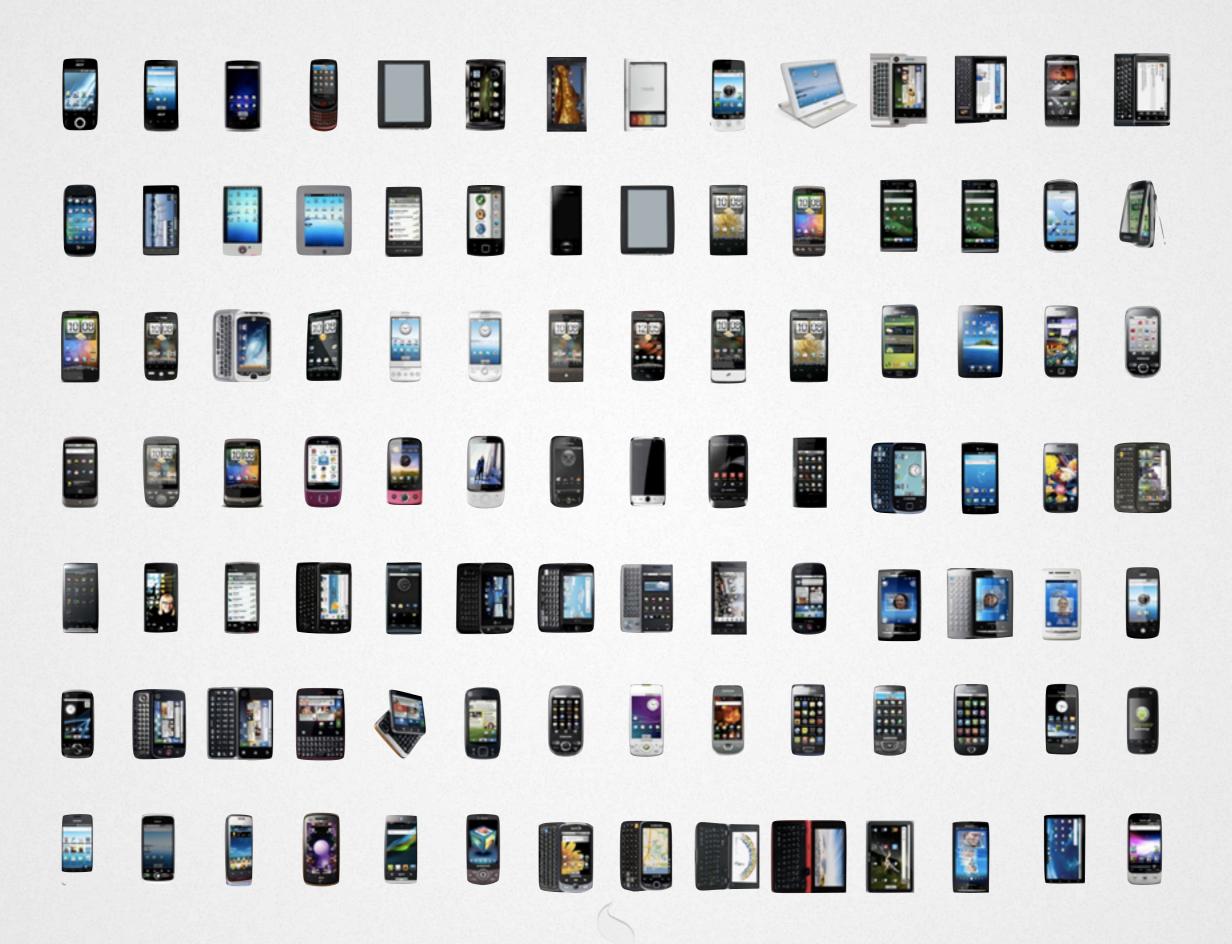
In Hours, Not Days.

Build Amazing Apps with Web Standards
QCon SF
@adityabansod

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 aditya@sencha

Mobile app development is hard



The Native Route







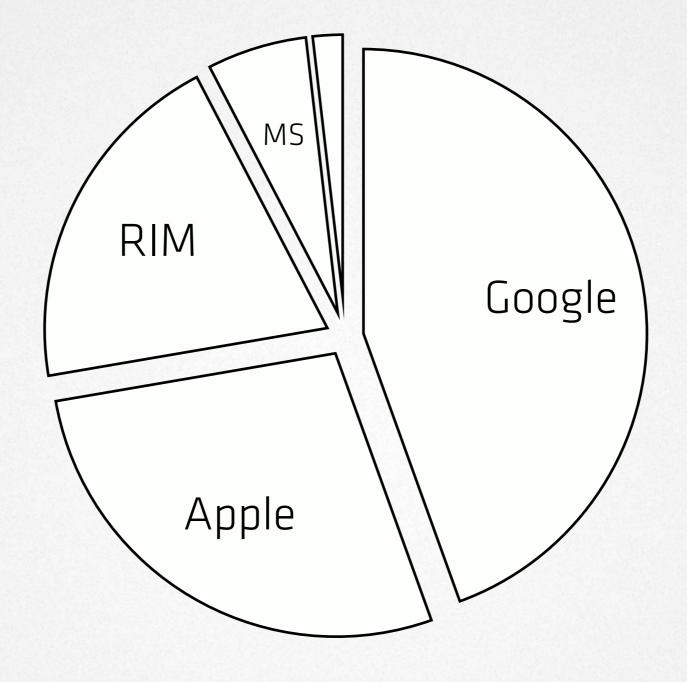




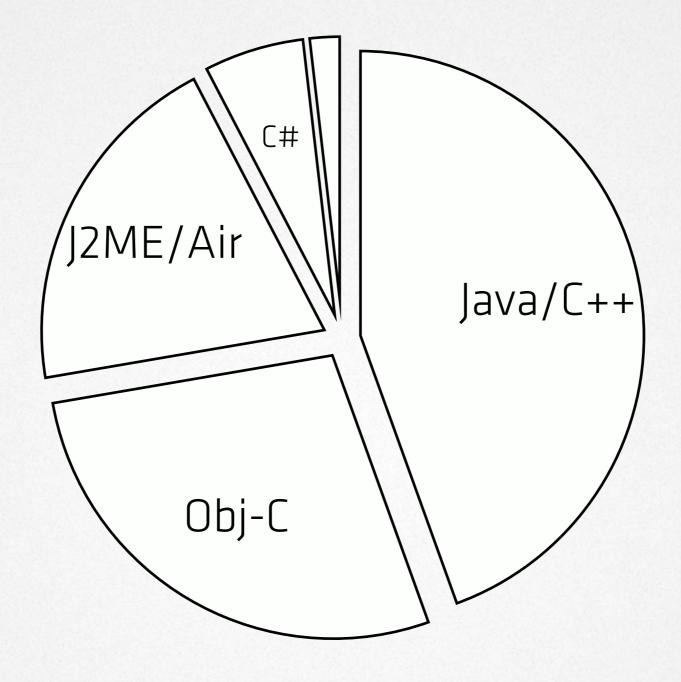




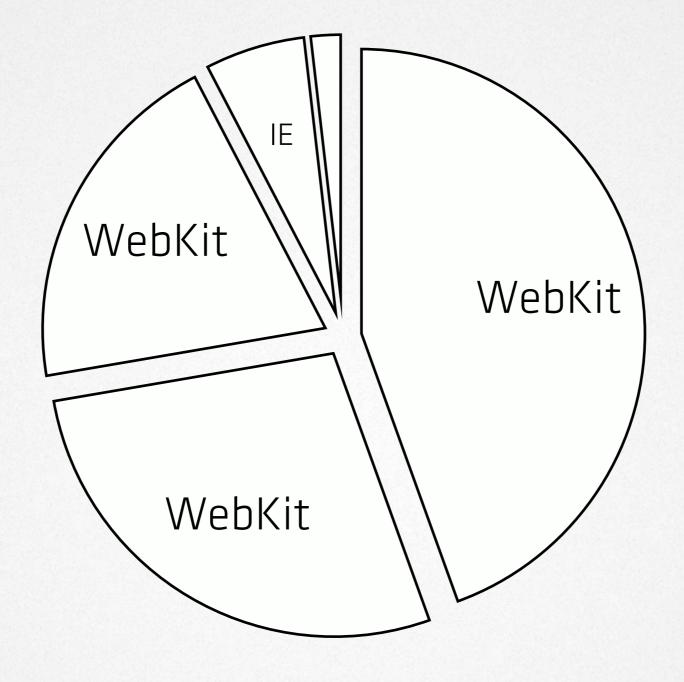
A badge for all these ways the web is changing



Top US Smartphone Platforms August 2011, comScore MobiLens



Native **programming languages** you'll need US Smartphones, August 2011



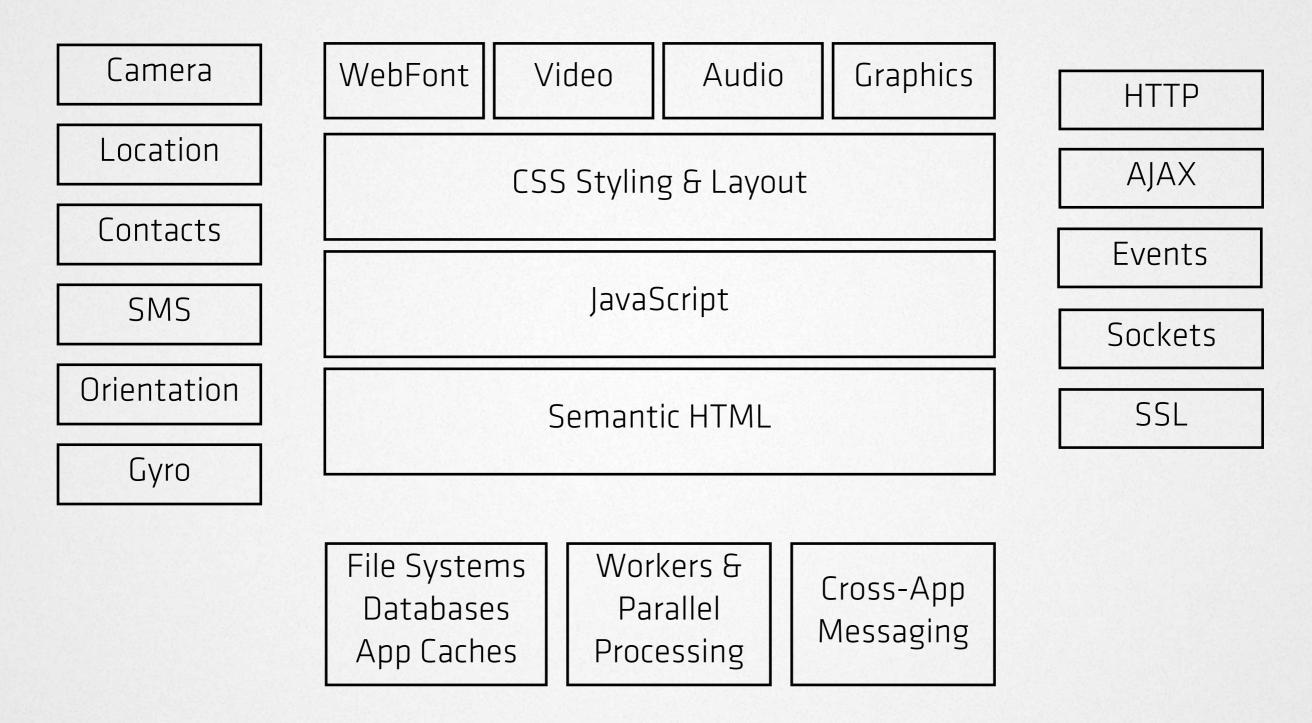
Browser platforms to target US Smartphones, August 2011

But at least we are using one language, one markup, one style system

One Stack







(all the elements of a modern application platform)

	IE	Chrome	Safari	Firefox	iOS	BB10	Android
@font-face							
Canvas							
HTML5 Audio & Video							
rgba(), hsla()							
border-image:							
border-radius:							
box-shadow:							
text-shadow:							
opacity:							
Multiple backgrounds							
Flexible Box Model							
CSS Animations							
CSS Columns							
CSS Gradients							
CSS Reflections							
CSS 2D Transforms				_	100		
CSS 3D Transforms							
CSS Transitions							
Geolocation API							
local/sessionStorage							
SVG/SVG Clipping							
SMIL							
Inline SVG							
Drag and Drop							
hashchange							
X-window Messaging							
History Management							
applicationCache							
Web Sockets							
Web Workers							
Web SQL Database							
WebGL							
IndexedDB							

Stay on top of diversity

Can I Use?

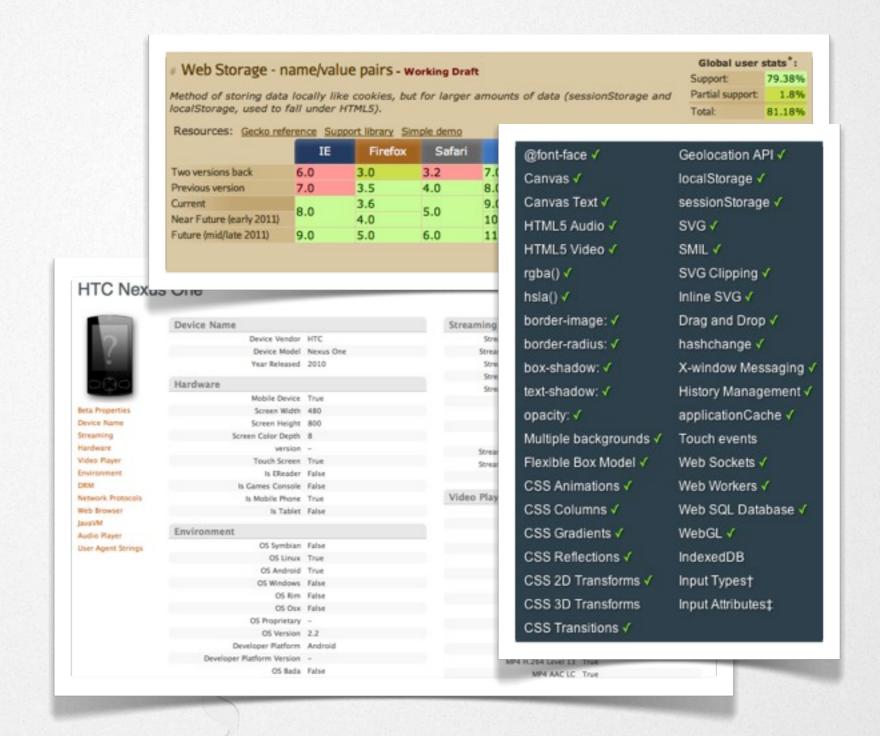
http://caniuse.com

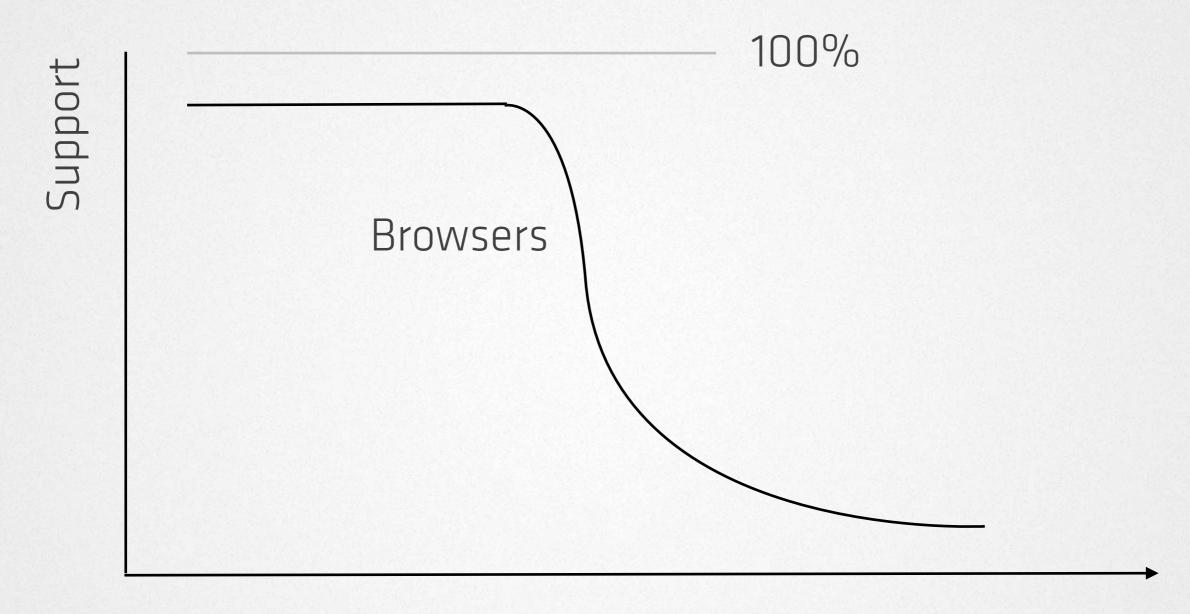
Modernizr

http://modernizr.com

DeviceAtlas

http://deviceatlas.com





Capabilities & specifications

Capabilities & specifications



pages interactive apps



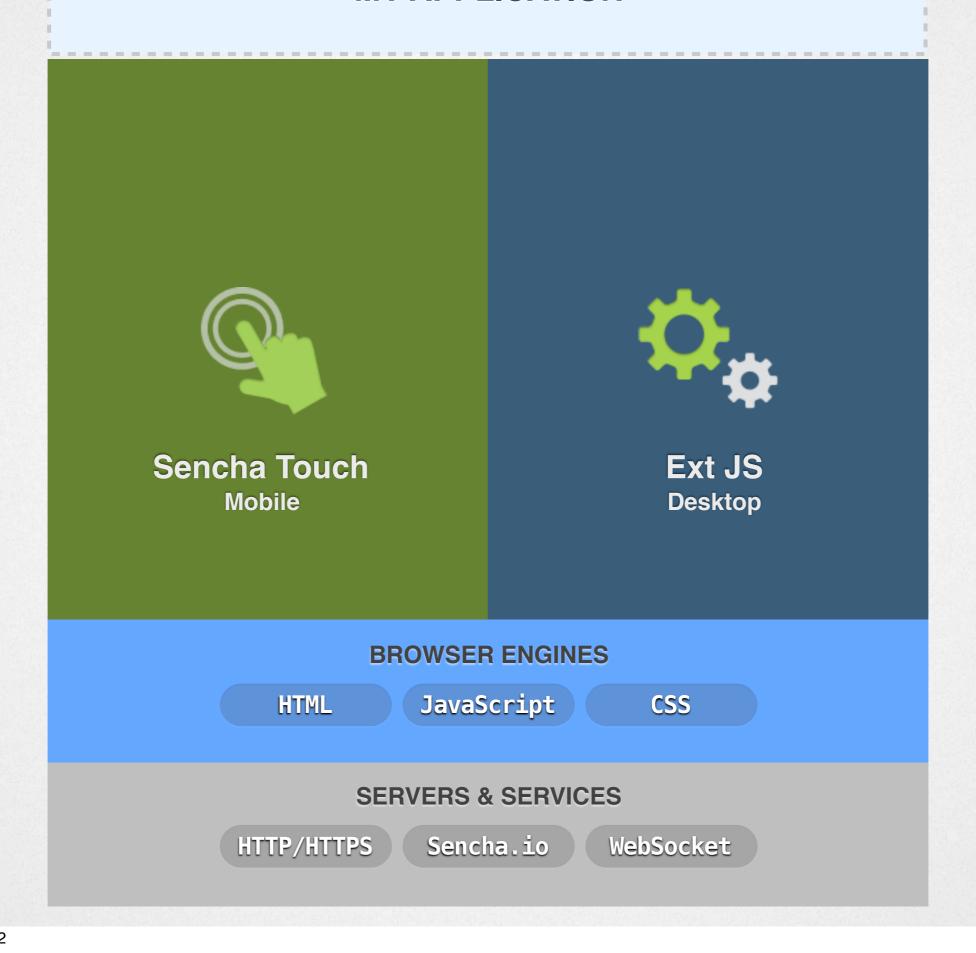
Build Amazing Apps with Web Standards



pages interactive apps



MY APPLICATION



MY APPLICATION

- Mobile framework
- Native packaging
- Modern mobile UI



- Desktop framework
- Cross-Browser
- Modern desktop Ul



Sencha Touch Mobile Ext JS Desktop

BROWSER ENGINES

HTML

JavaScript

CSS

SERVERS & SERVICES

HTTP/HTTPS

Sencha.io

WebSocket

MY APPLICATION

UI: Controls + Containers

Data: Models + Stores + Connectors

Foundation: 00P + MVC + Library



Sencha Touch Mobile



Ext JS
Desktop

BROWSER ENGINES

HTML

JavaScript

CSS

SERVERS & SERVICES

HTTP/HTTPS

Sencha.io

WebSocket

Sencha Touch 2

A JavaScript framework for building rich mobile apps with web standards















www.sencha.com/apps





Sencha Basics

Class System

Packages
Inheritance
Scope Management
Class Loading
Mix-ins



Class System

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

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



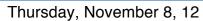
```
Ext.define( 'Animal', {
    config: {
        name: null
    },
    constructor: function( config ) {
        this.initConfig( config );
    }
});
```

Classes



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

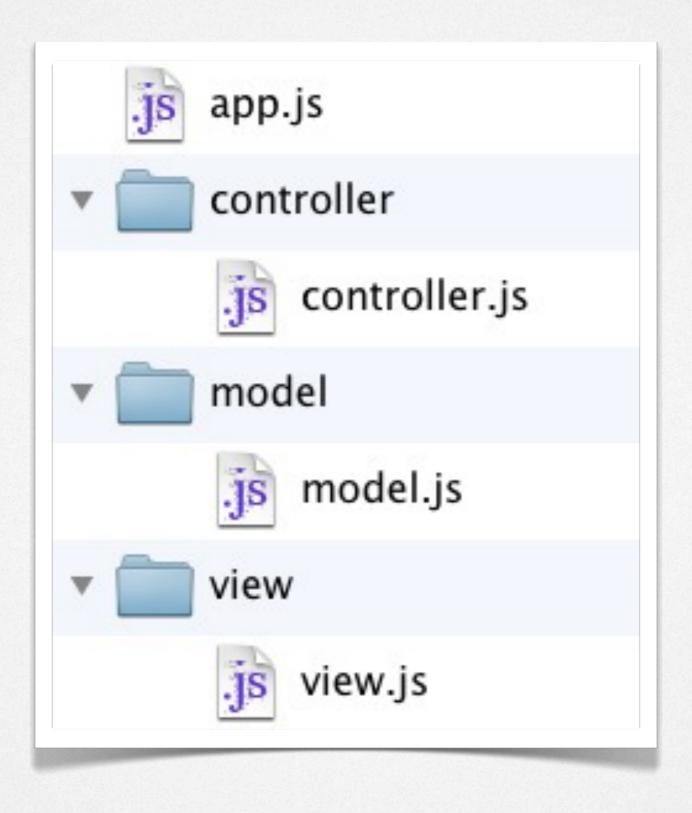
Classes

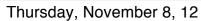


```
Ext.define( 'Animal', {
    config: {
        name: null
    },
    constructor: function( config ) {
        this.initConfig( config );
});
Ext.define( 'Human', {
    extend: 'Animal',
    speak: function() {
        console.log( this.getName() );
});
var bob = Ext.create('Human', { name: 'Bob' });
bob.speak(); //console: 'Bob'
```

Classes

MVC





```
{
    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'
        }]
    }]
```

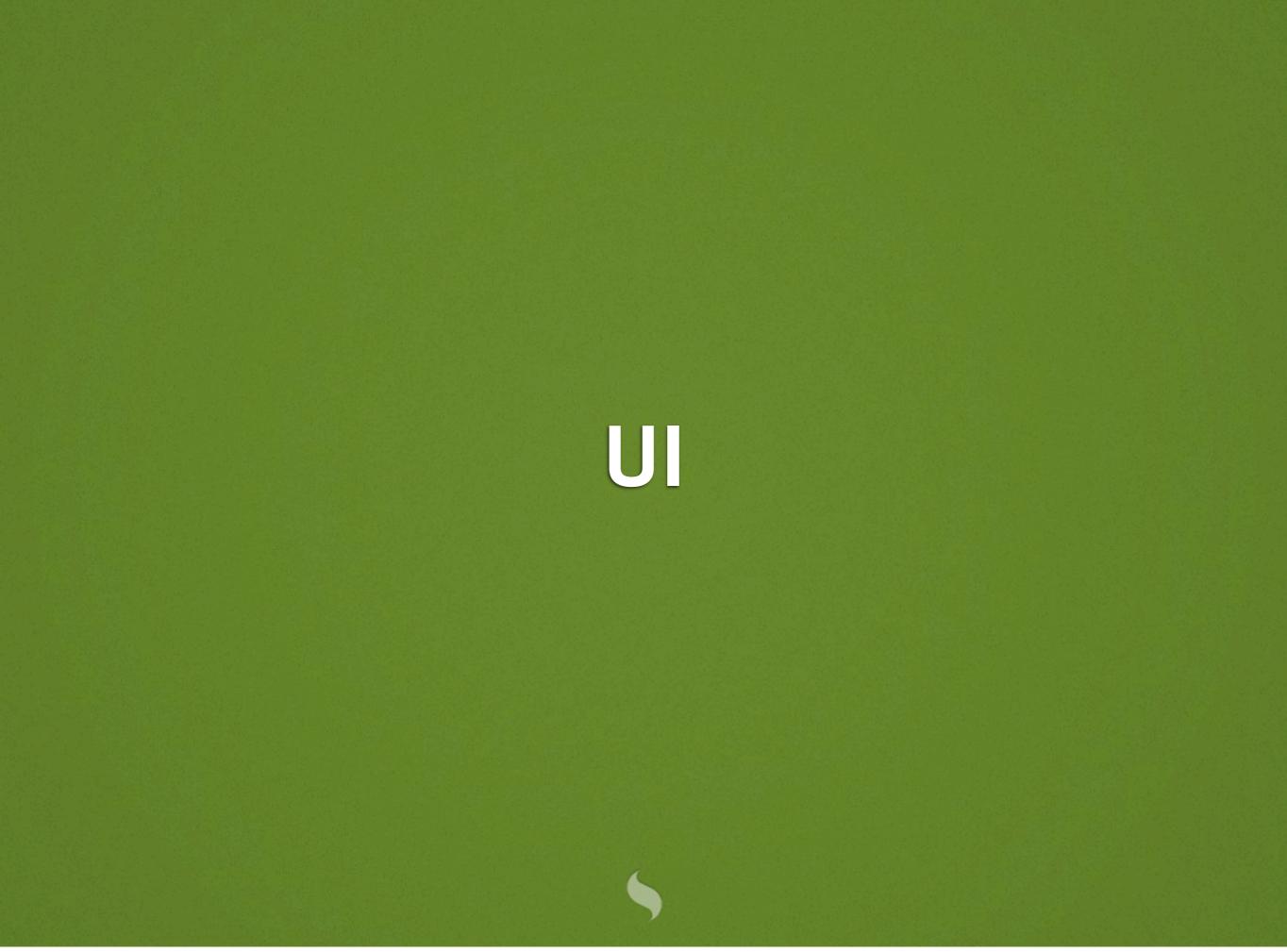
xtype

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

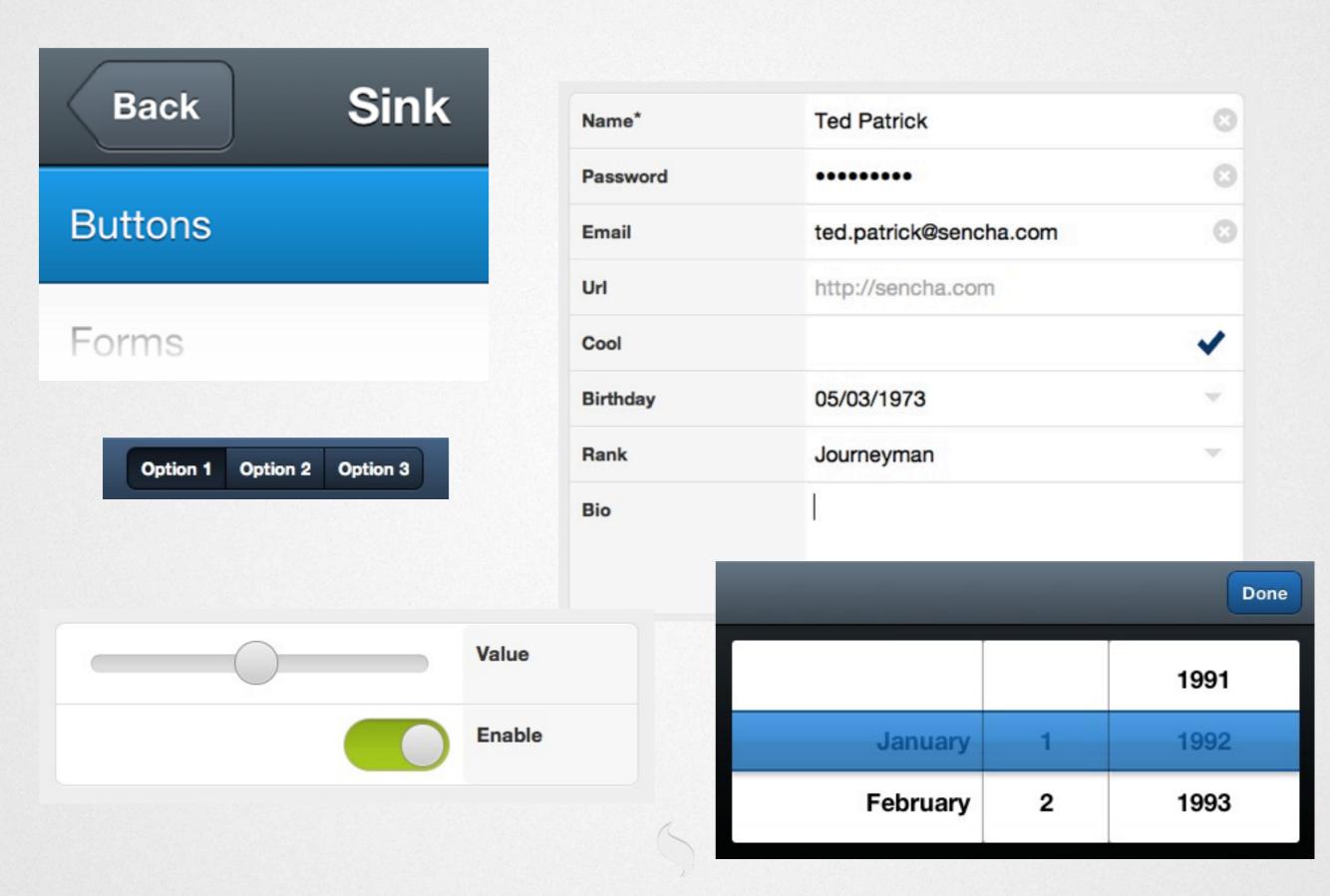
template.overwrite( panel.body , data );
```

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

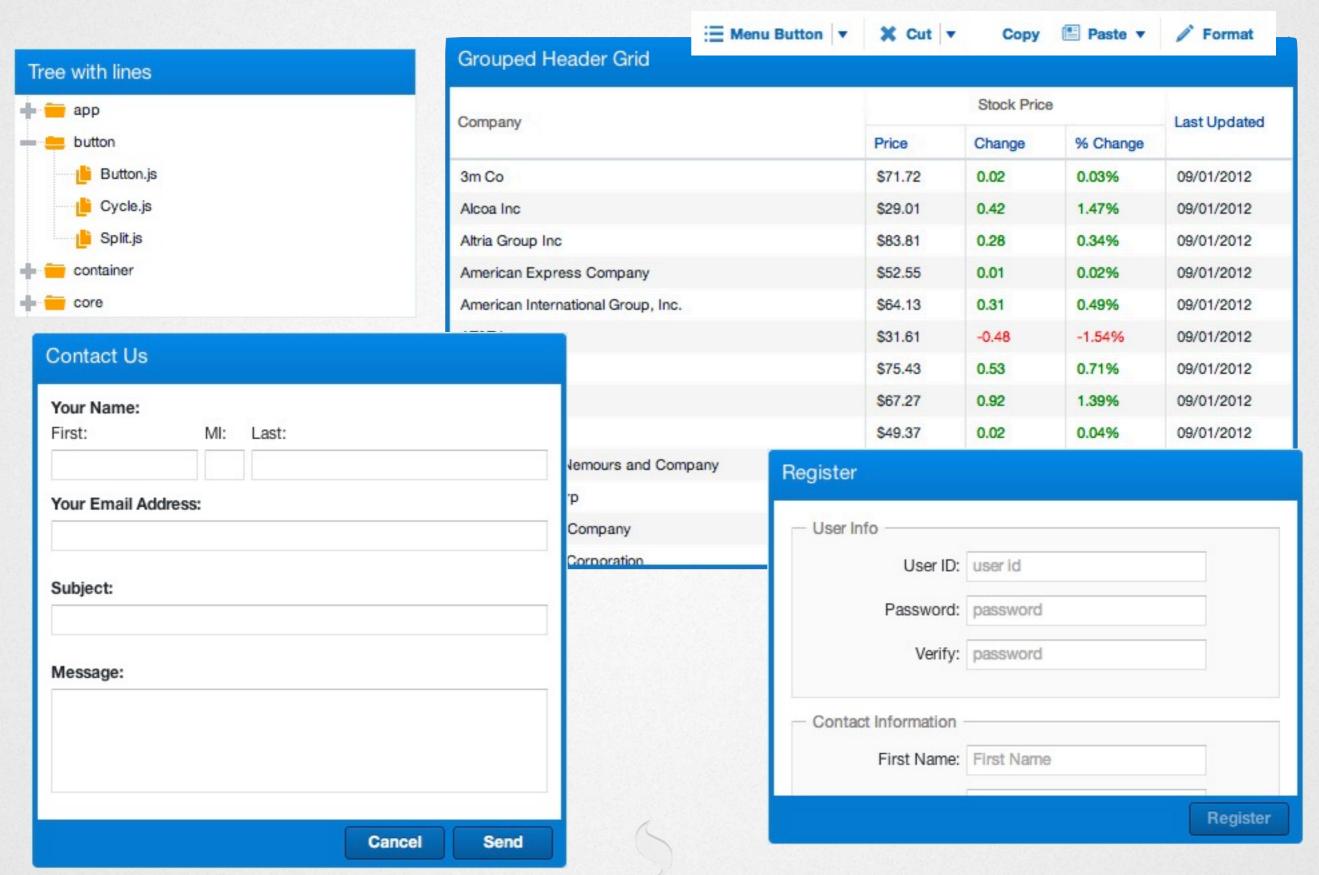
xtemplate



Touch Components



Ext JS Components





I want to go fast...,



DEVELOPMENT WORKFLOW

- Ext JS interface builder
- Support for Ext JS Charts
- Code generation for complex UI layouts
- JSON/XML data connectivity
- Export projects and code



Ext Designer



Everything from Ext Designer 1.2



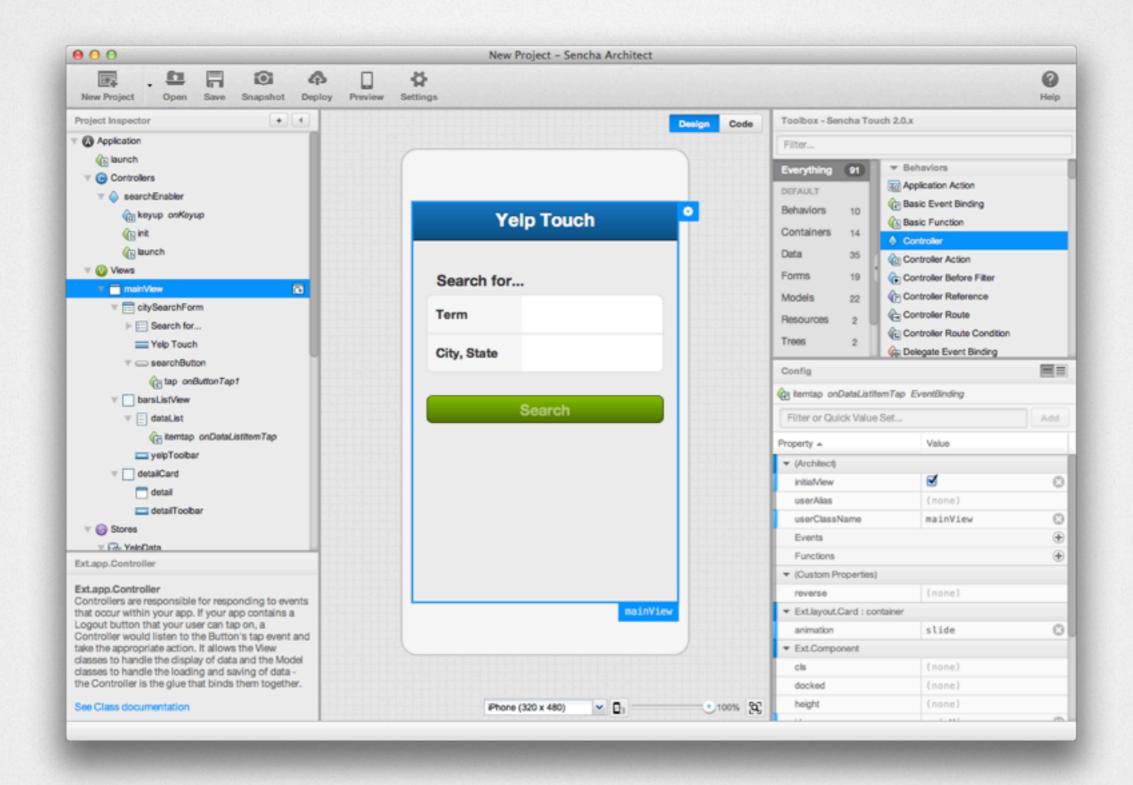
- · Sencha Touch 2
- Code Editing
- · MVC
- · Native Deployment



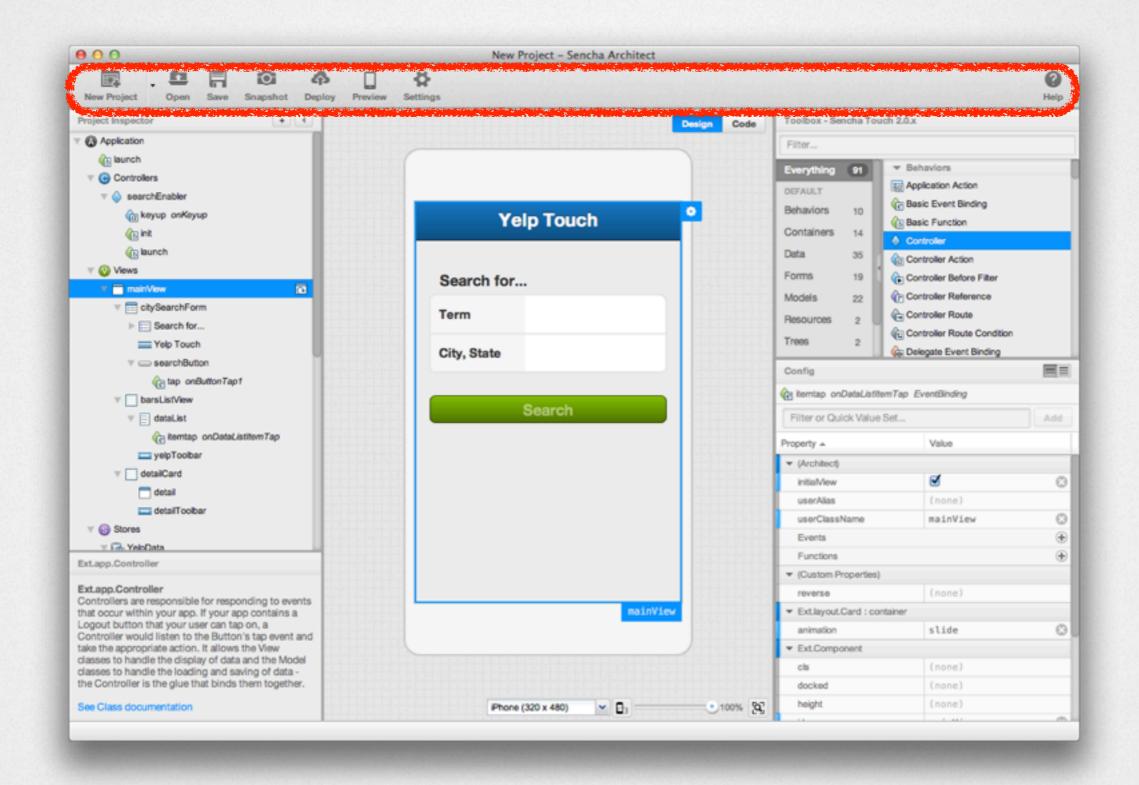
Sencha Architect 2



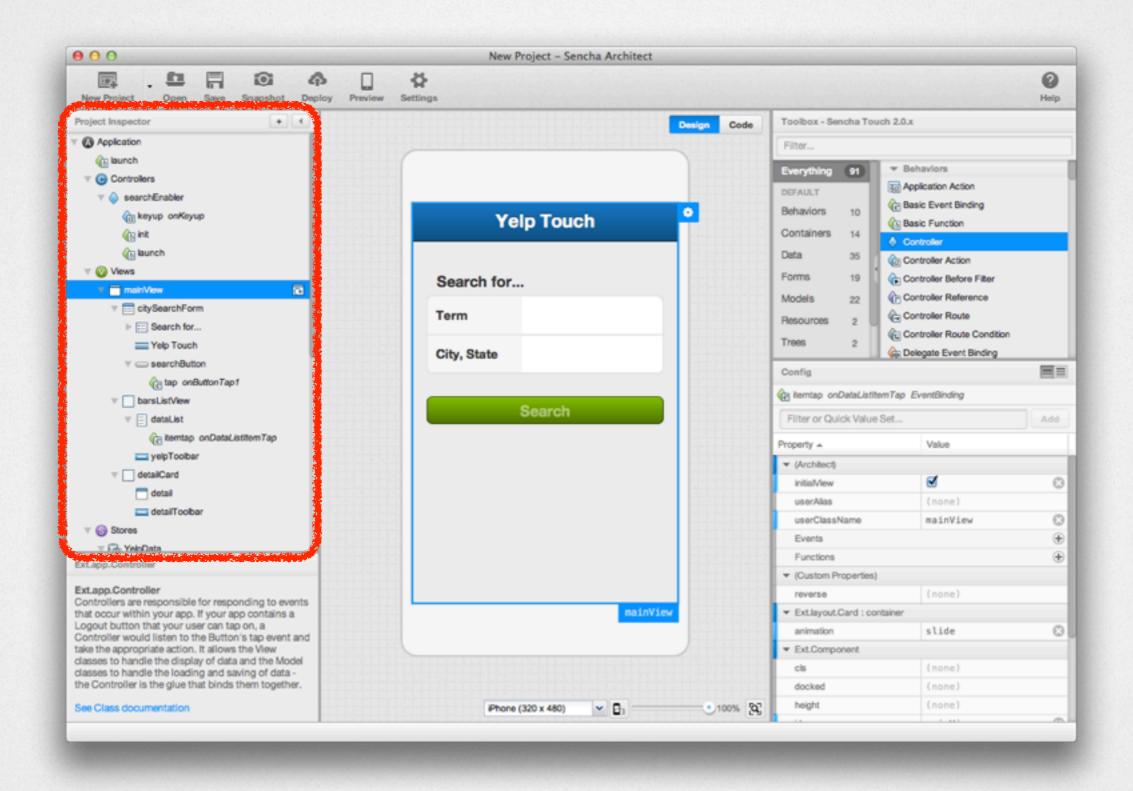
Let's take a closer look



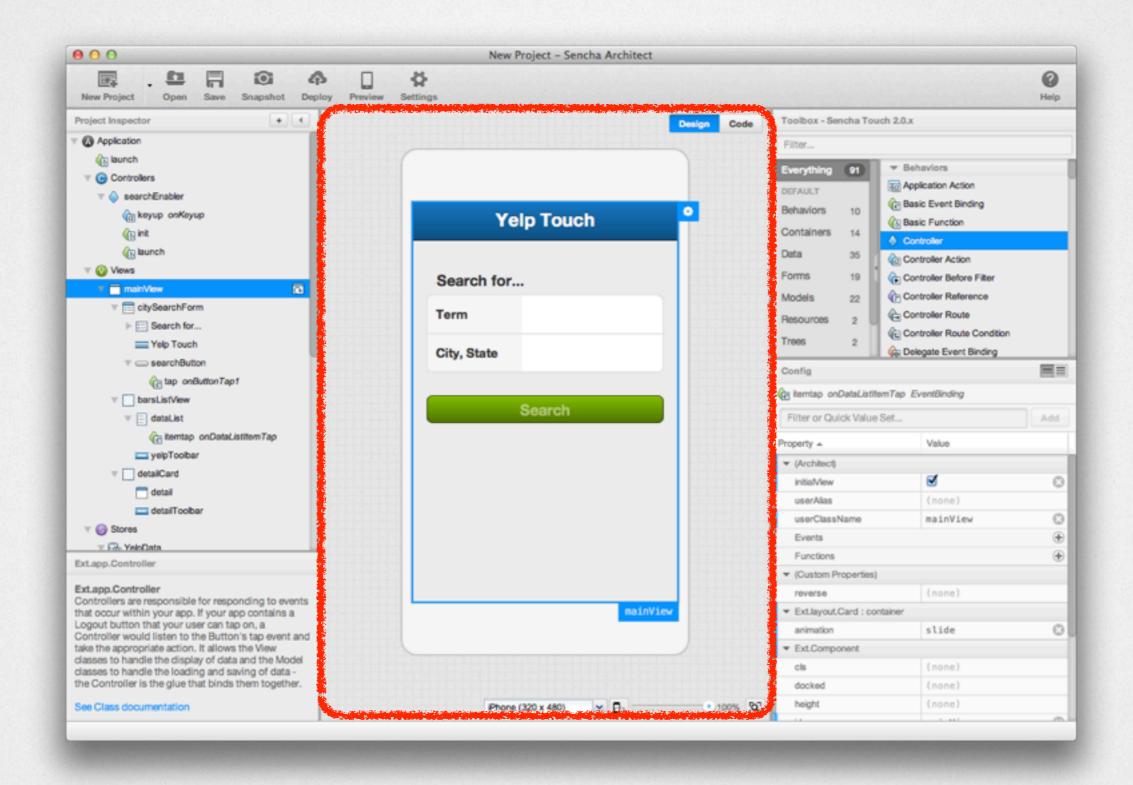
Architect's workspace



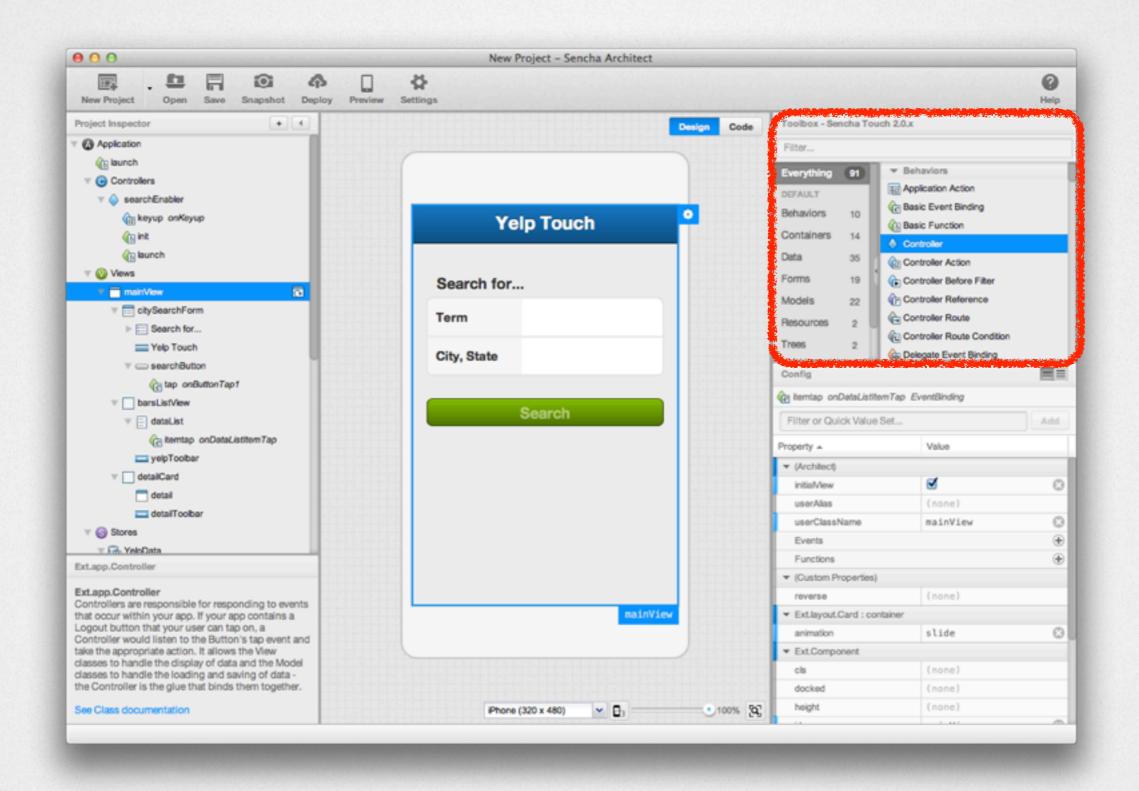
Application Toolbar



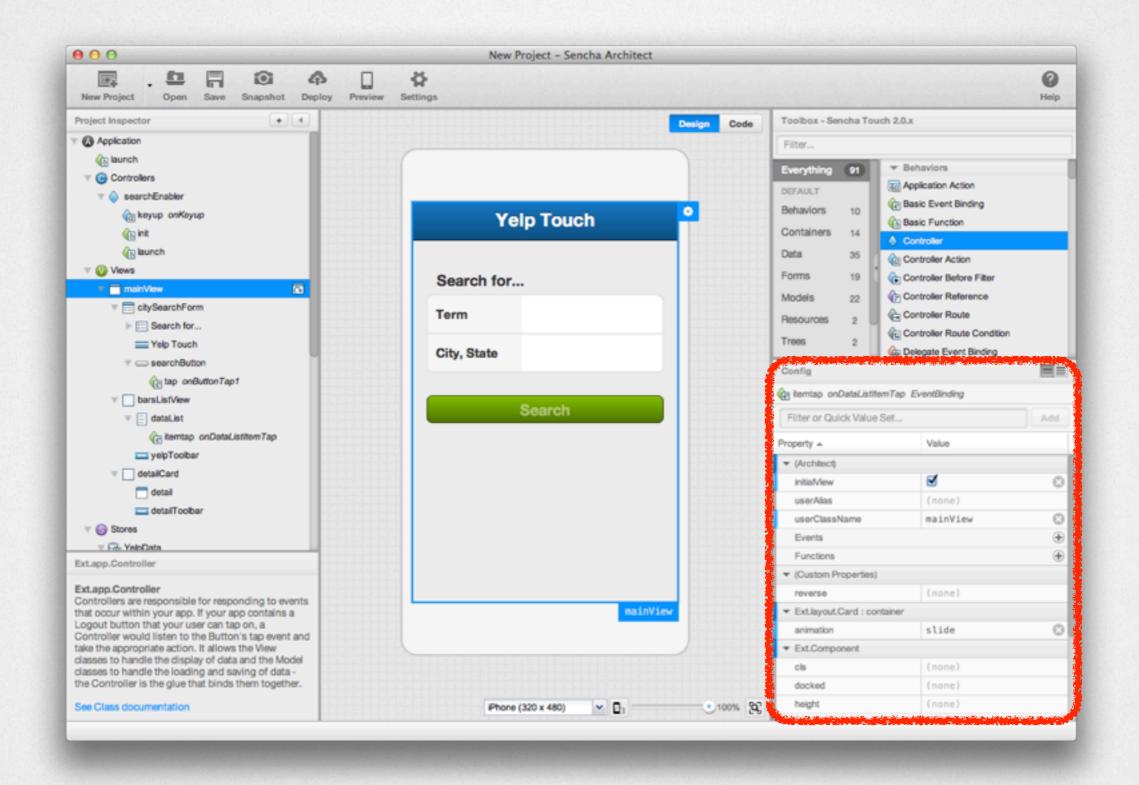
Project Inspector



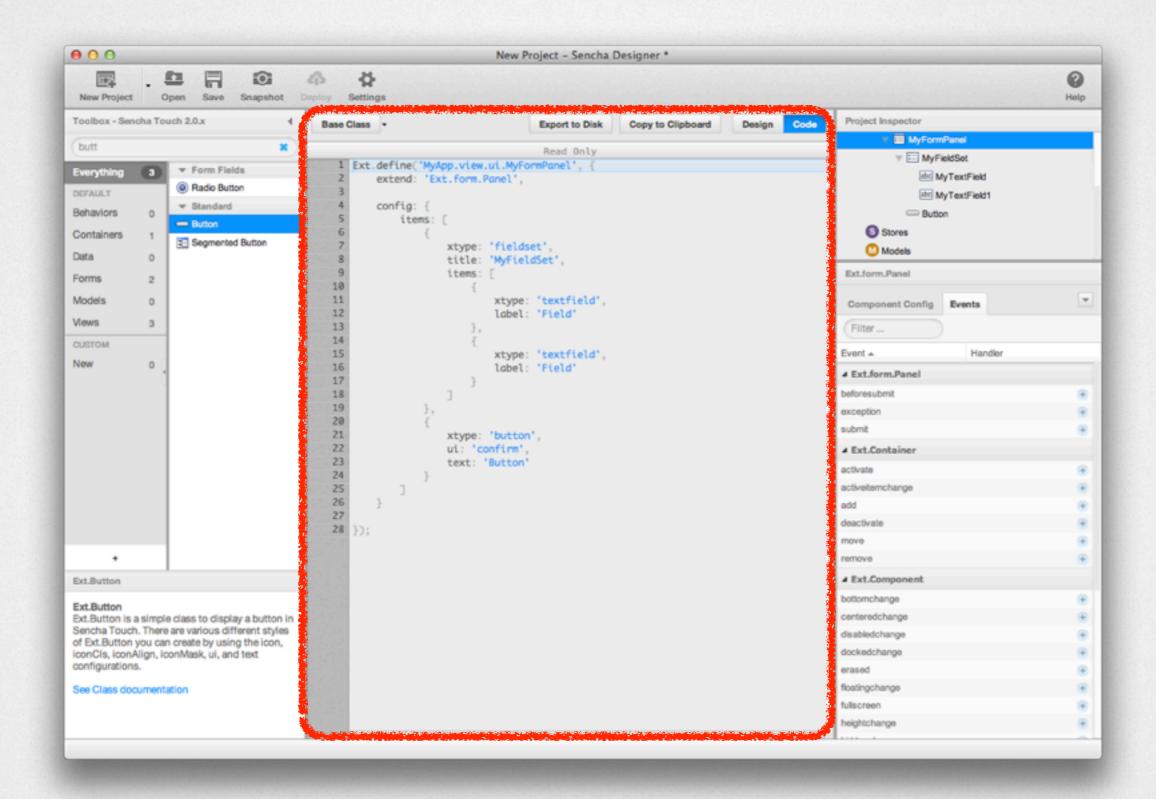
Design Canvas



Toolbox



Configuration



Code Editor



Wear your helmets for the live demo!





Thanks Qcon NYC!

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