

# DESIGN MVC MOBILE APP VISUALLY IN HOURS

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HOURS

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# Agenda

- Hello World
- What is Sencha Touch
- MVC anyone?
- What is Architect (Why / Fit / History)
- Prototyping stages
- Demo Project
- Getting Started Projects
  
- Alternate Tools (time permitting)



# Hola!

- Bilal Soylu
  - CTO Verian Technologies LLC ([www.verian.com](http://www.verian.com))
  - ColdFusion since mid 90s
  - Enough mistakes to know better ;o)
  - Sencha User Group Manager Charlotte
- Blog
  - <http://BonCode.blogspot.com>
  - @BmanClt



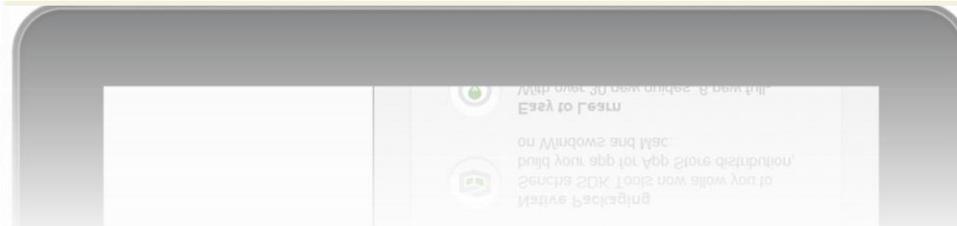
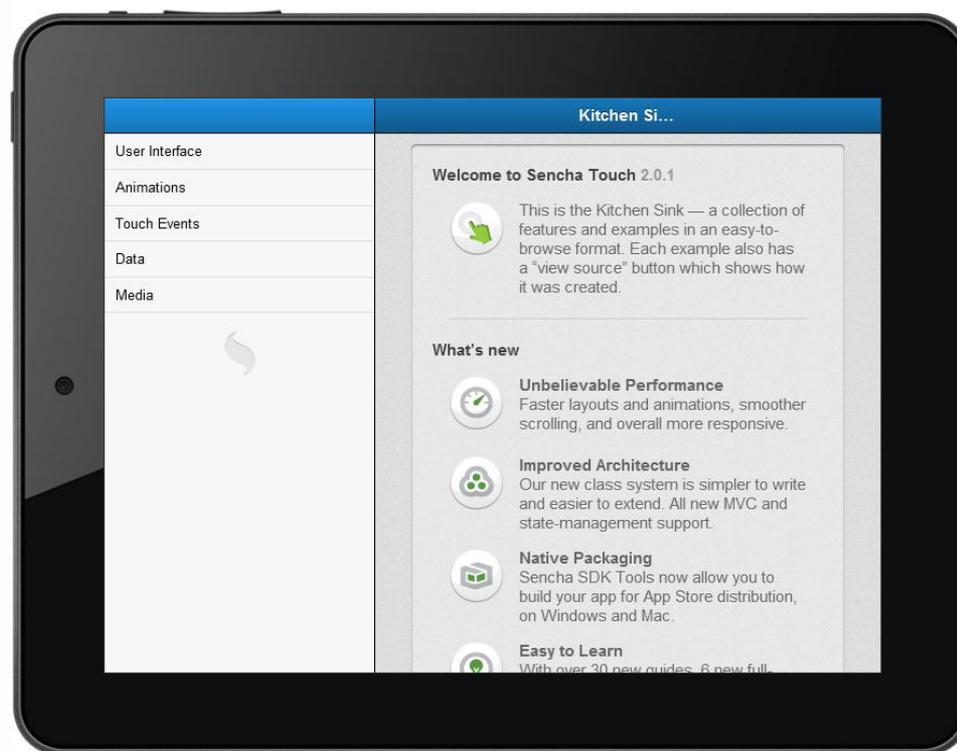
# Sencha Touch

- Library to help build mobile apps with HTML5, CSS3, and JavaScript
- Webkit centric, mobile optimized
  - Touch Events (Tap, Double tap, Tap and hold, Swipe, Rotate, D&D)
  - Scroller (Momentum, Bounce)
  - Orientations
  - Layouts
  - Animations
  - Theming and Icons
  - Components (Lists, Picker, Toolbars, Buttons)
  - HTML5 (Audio, Video, GeoLocation)
- Current Release 2.0.1; release 2.1 in Beta

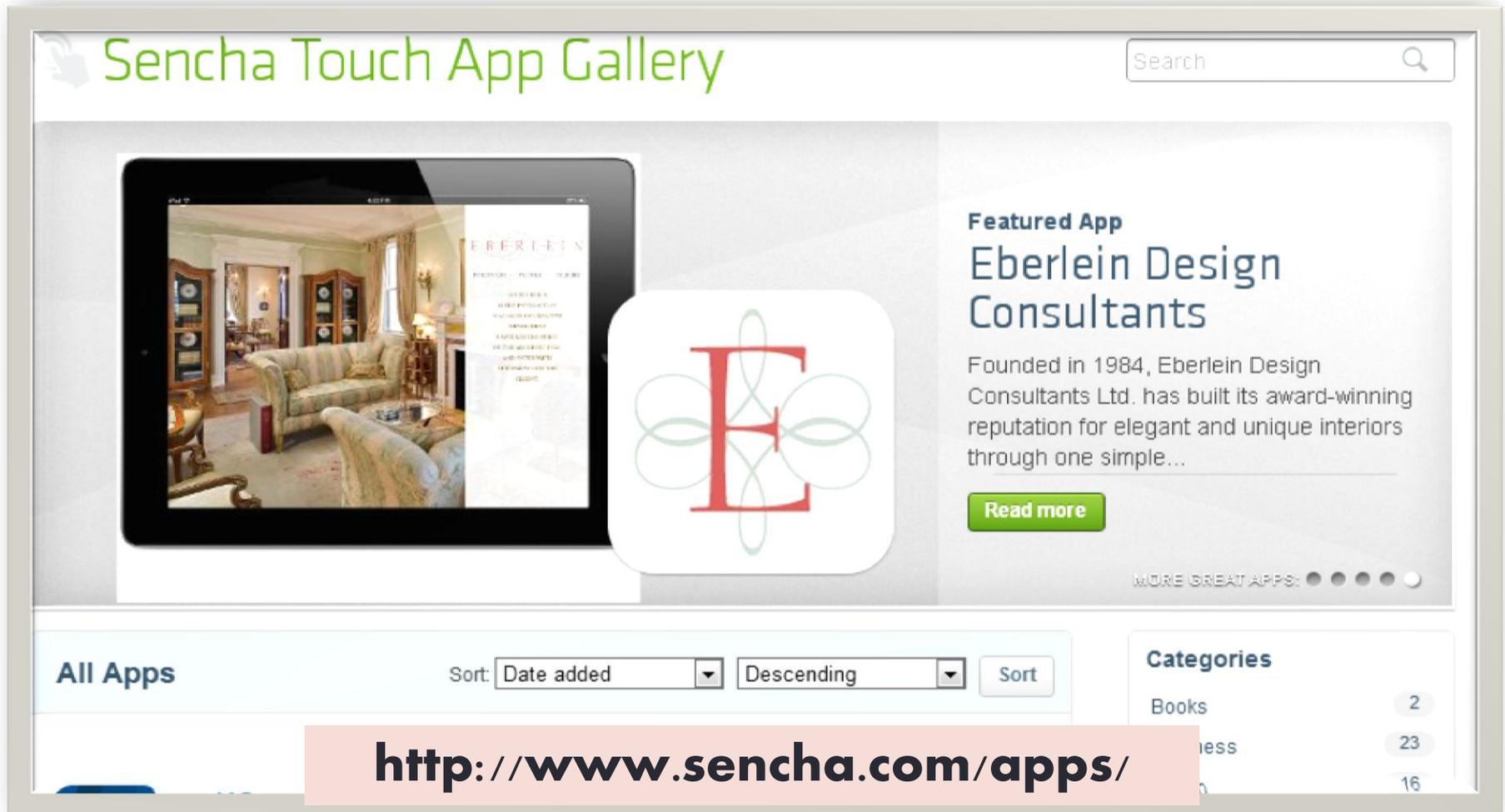


# Experimenting with Library Components

- <http://docs.sencha.com/touch/2-0/#!/example/kitchen-sink>



# Sample of Apps with Touch



The screenshot displays the Sencha Touch App Gallery website. At the top left, the title "Sencha Touch App Gallery" is shown in green text next to a hand cursor icon. A search bar is located at the top right. The main content area features a large image of a tablet displaying an interior design app interface, a circular logo for Eberlein Design Consultants (a stylized red 'E' with green floral patterns), and a text block for the featured app. Below the featured app section, there are sorting options and a categories list.

**Sencha Touch App Gallery** Search

**Featured App**  
**Eberlein Design Consultants**

Founded in 1984, Eberlein Design Consultants Ltd. has built its award-winning reputation for elegant and unique interiors through one simple...

[Read more](#)

MORE GREAT APPS: ● ● ● ● ●

**All Apps** Sort:

**Categories**

Books	2
Business	23
...	16

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

# New World

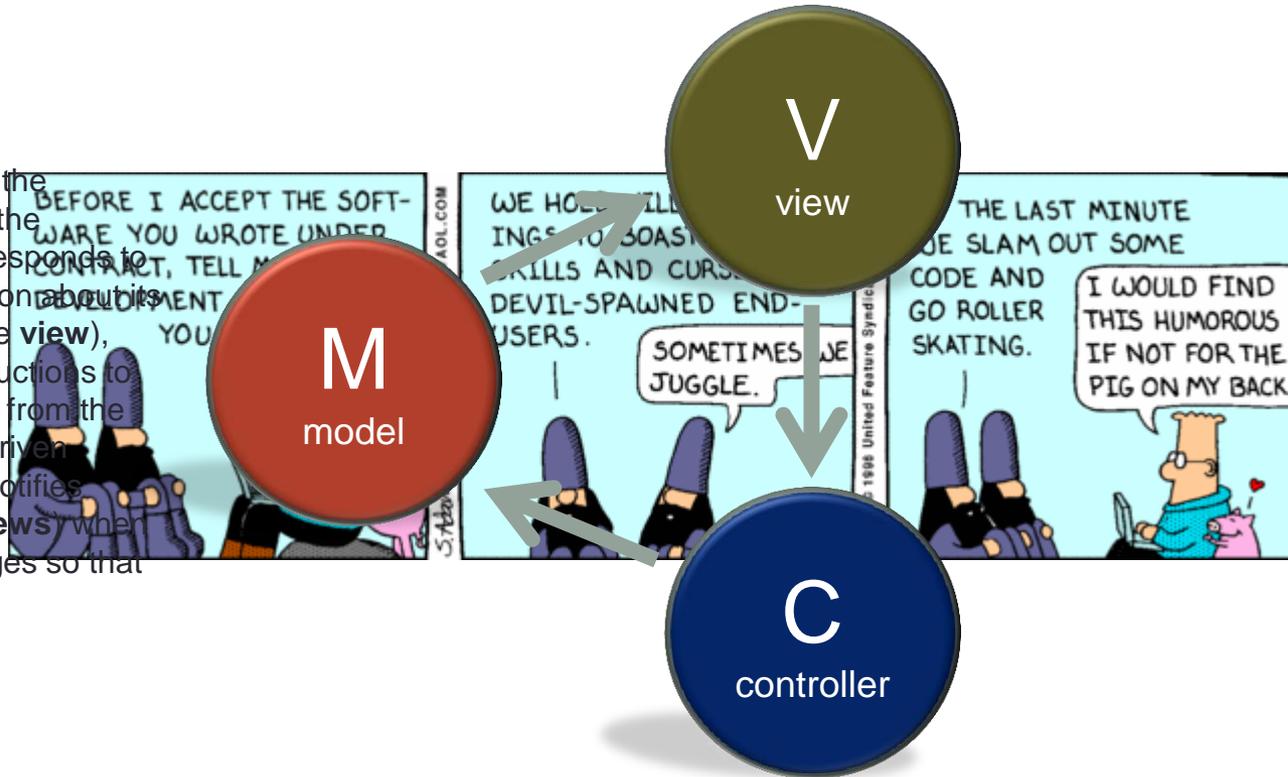
“Architecture is critical to server-side application, so why shouldn’t the same apply to client-side apps?” \*

\*Alex MacCaw – author “JavaScript Web Applications”

# MVC Generic

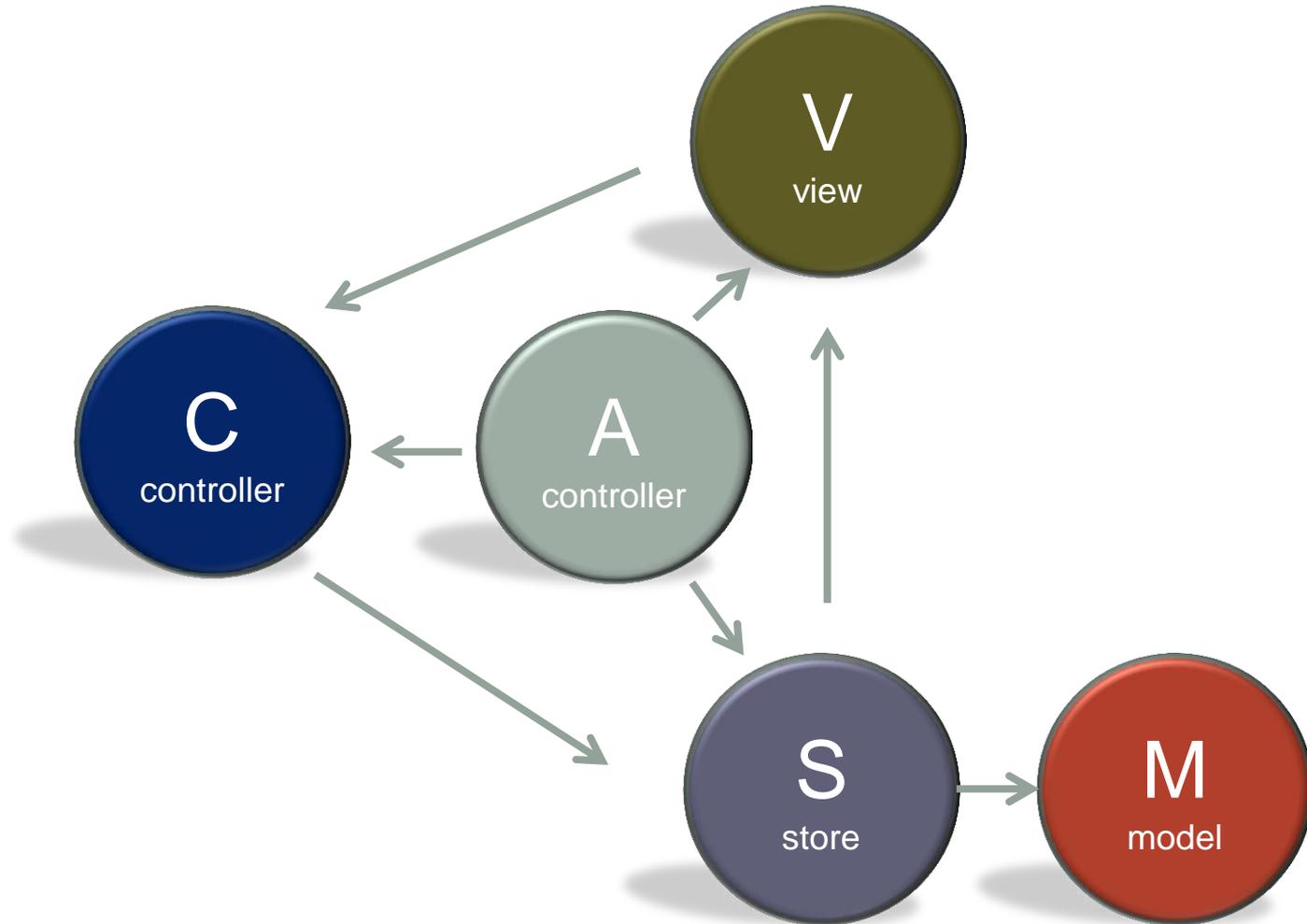
The **View** renders the model into a form suitable for interaction, typically a user interface element. Multiple views can exist for a single model for different purposes. A view port typically has a one to one correspondence with a display surface and knows how to render to it.

The **Model** manages the behavior and data of the application domain, responds to requests for information about its state (usually from the **view**), and responds to instructions to change state (usually from the **controller**). In event-driven systems, the model notifies observers (usually **views**) when the information changes so that they can react.



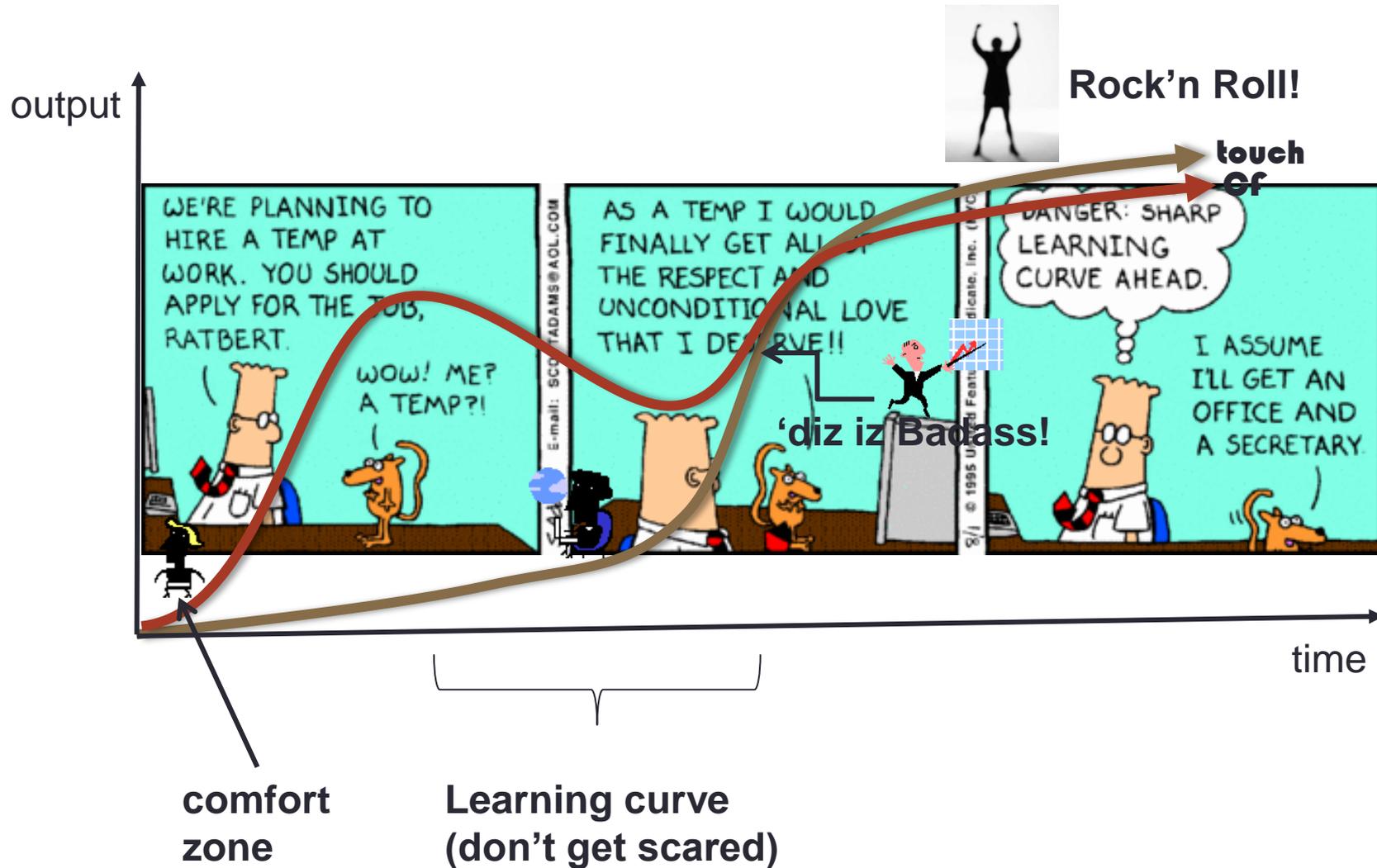
The **Controller** receives user input and initiates a response by making calls on model objects. A controller accepts input from the user and instructs the model and a view port to perform actions based on that input.

# Sencha Touch / ExtJS 4 MVC





# The Dark Side

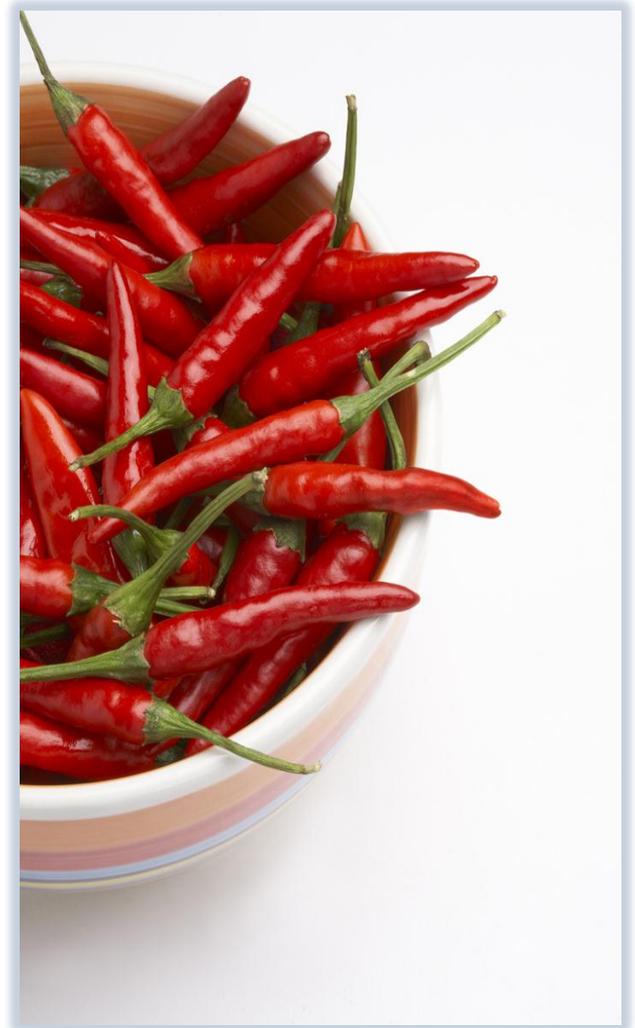


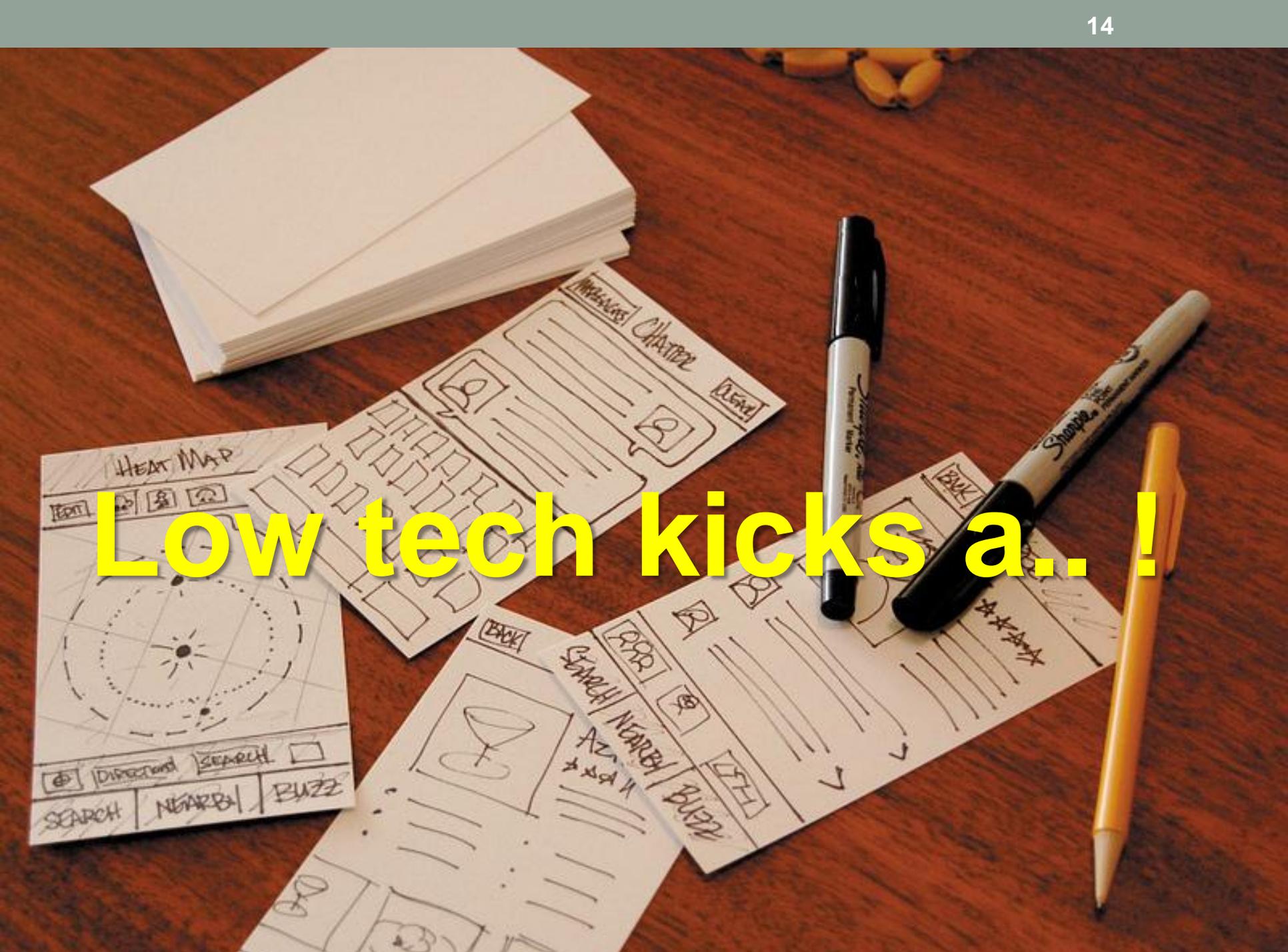
# Sencha Architect, a brief history

- First there was Sencha Designer
  - Automatic Code Generation
  - Audience target: People want to prototype (get started)
  - Show good code for ExtJS 3.x and Touch 1.1
- Problem Areas
  - No Code changes
  - No MVC
  - No support for ExtJS4 and Touch 2
- Most feedback
  - “Interesting”, but I really want to do this instead...

# Architect 2.1

- Name change
- Support ExtJS4 and Touch2
- Best Practices in a box
- Reduce Learning Curve
- Show better code
- Prototype Mobile Apps (in platform)
- Learn about the libraries and dependencies



A collection of hand-drawn wireframes on sticky notes, scattered on a wooden surface. The wireframes include a 'Heat Map' with a grid and a central starburst, a 'Messages' screen with a 'Change' button and a 'Done' button, and a 'SEARCH' screen with 'NEARBY' and 'BUZZ' options. Two black Sharpie markers and one yellow pen are also visible. A stack of blank sticky notes is in the top left.

Low tech kicks a..!

# Levels of Prototyping



- Develop Concept
- Evaluate Ideas
- Quickest Proto
- Business Level / PM
- High Knowledge Users

- Basic UX testing
- Graphic Artists
- Med Knowledge Users

- Full UX testing
- Developers / UX
- Low Knowledge Users

# Movie Finder Project



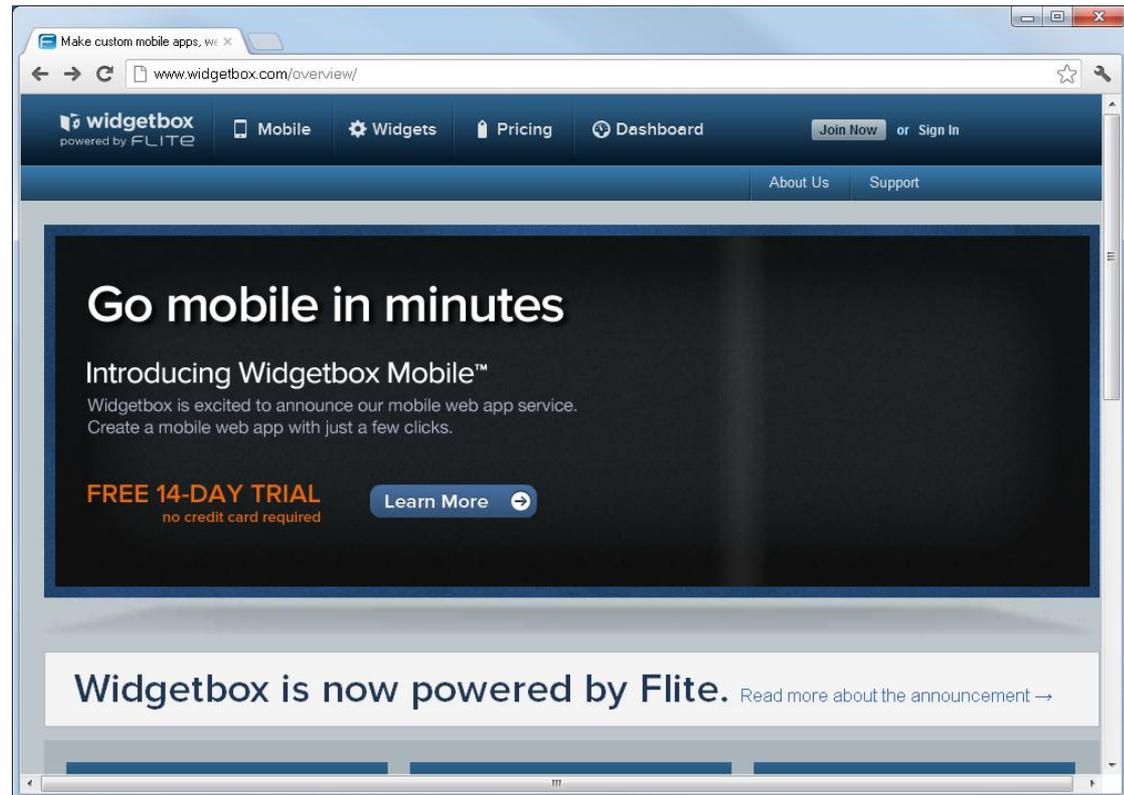
# Sample Architect Projects

- You can download a selection of Projects

<http://cdn.sencha.io/architect/architect-examples.zip>

# Alternate Toolbox

- [www.widgetbox.com](http://www.widgetbox.com)
- Some Simple Scenarios
  - Mashups with Flickr, Google, Twitter



Widgetbox is now powered by Flite. Read more about the announcement →

# Alternate: Mobilize existing site(s)

- [www.capriza.com](https://www.capriza.com)
- Sign up for beta

The screenshot displays the Capriza website in a browser window. The URL is <https://www.capriza.com>. The page features the Capriza logo and a navigation bar with "Hi Bill!", "3 invitations remaining", and "Log Out". The main heading reads "Creating mobile heroes since 2012." Below this, a sub-headline states: "A different (and ridiculously fast) way for YOU to create mobile zApps for work and play. We promise it'll make you feel like a hero..."

A sign-up form is visible, with the text "Enter your work email address.." and a blue "SIGN UP" button. Below the form, there are two mobile devices displaying the Google Analytics dashboard. The desktop version shows a line graph for "Daily Visits" and a pie chart for "Traffic Types". The mobile version shows a similar dashboard with a "help" button and a "sign in" link.

Large white arrows indicate the flow from the desktop dashboard to the mobile app interface, illustrating the process of mobilizing the existing site.

# THANK YOU



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@BmanClt

<http://BonCode.blogspot.com>