

# Hi

**Slides, outline: <http://sia.tw/hezYX6>**

**Alex Kessinger**

**jQuery Con 2011**

My name is alex kessinger

# Path to hybrid

**Alex Kessinger**

**jQuery Con 2011**

- Introduction
  - What is hybrid?
  - Path
  - Stages
    - Stage 1 novice
    - Stage 2 the fight
    - Stage 3 enlightenment

# **jQuery Mobile is awesome, but ...**

# App Like

```
<meta name="viewport" content="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" />  
<link rel="apple-touch-icon" href="iphone_tetris_icon.png"/>  
<link rel="apple-touch-startup-image" href="startup.png" />
```

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- Mobile web page stage
  - My journey started
  - What app like
    - Chromeless
  - It works, but mobiles suck



found on flickr by [radioedit](#)

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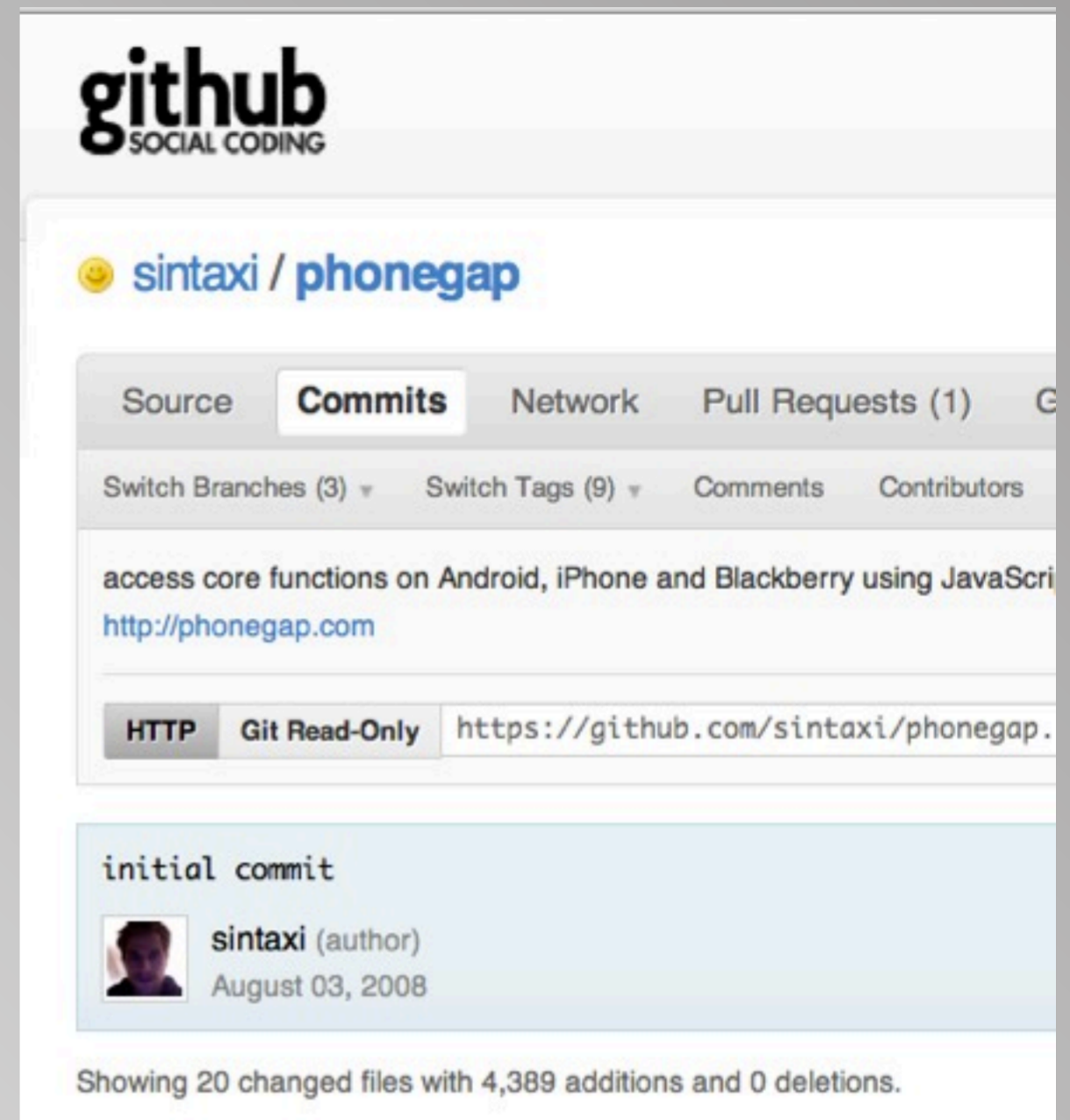
**jQuery Con 2011**

Light bulb moment  
Web Apps with web technology

# Not New



2009



2008

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- Not a secret
  - book, project
- Smartest people I knew
  - Of course it would work, why not

# SixRevisions.com



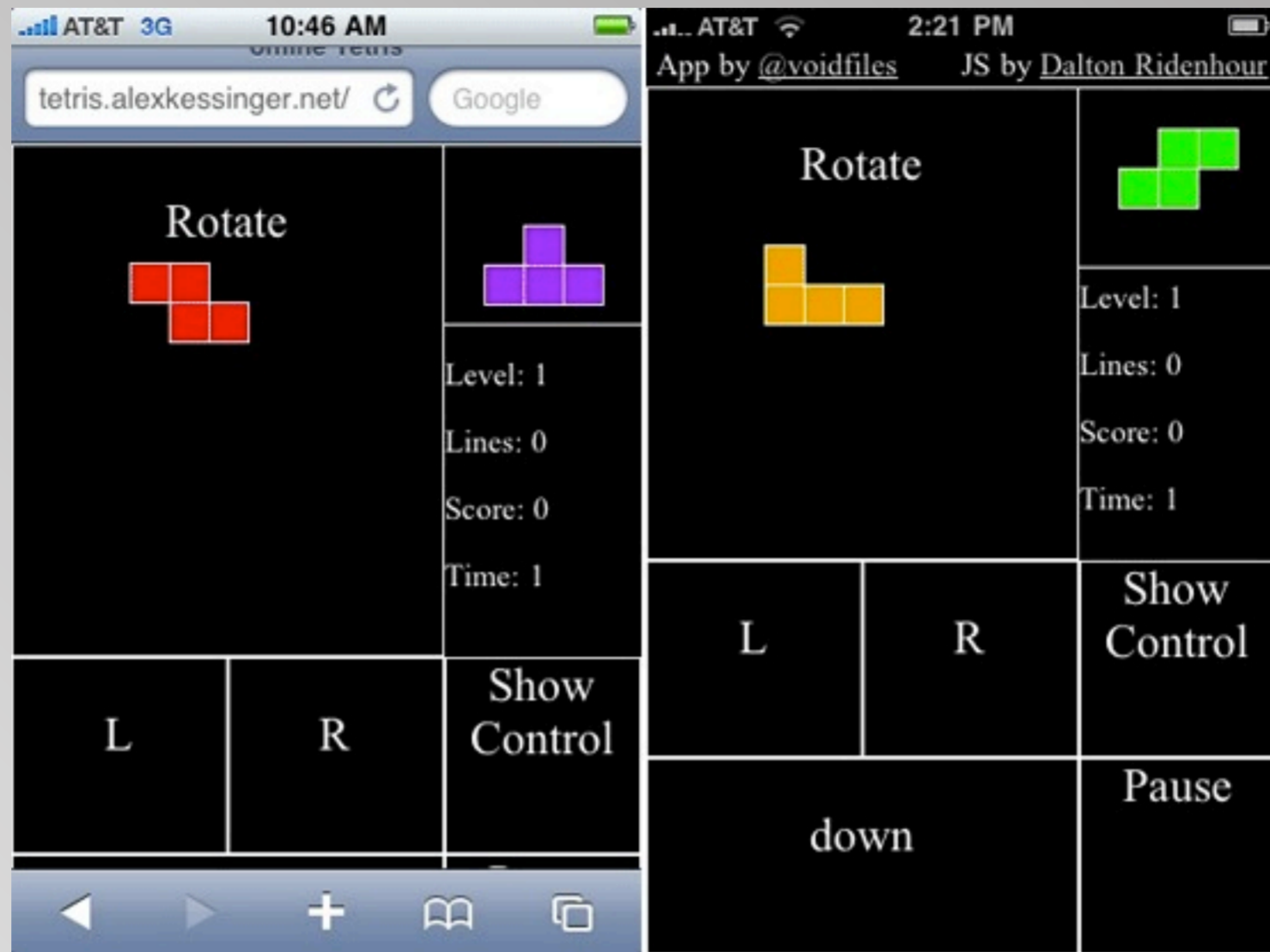
**2010**

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- Not enough people talking
  - Didn't know if people were interested
- sixrevisions
  - You think this will be cool
  - Yea

# App Like



<http://tetris.alexkessinger.net>

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- Wrote the article
  - Lot's of attention
  - First time it was seen
  - attention was nice, but people were interested
- This is what I made,  
be kind



# Interest in Mobile

good, and bad

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- There was, and still is a debate
- Web developers start with what they know, but the web isn't the answer to everything.
- Minted developer
  - written a few apps, but something was wrong
- Not sure you need to fail
- Thought it was going to be easy
  - Cash in
  - No one-to-one
  - No golden bullet
  - Not a lot of people trying
  - Needed to really start building apps

# We can do better

## stage 2

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- The start of stage 2
  - Prototypical zealot
  - Progressive Enhancement
    - better at playing buzzword bingo, then apps

# The Middle Way

## hybrid apps

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- Throw out the book, and just do what works
- The middle way
- Hybrid apps
  - What are they
  - How can i
  - What do you have access to
- If you are starting now

**It's not all pop  
rocks, and cotton  
candy.**

- Besides hybrid, you might also start using HTML5
- Great talk by kent brewster
- Wins, and problems, but you can take them one at a time

# CSS3

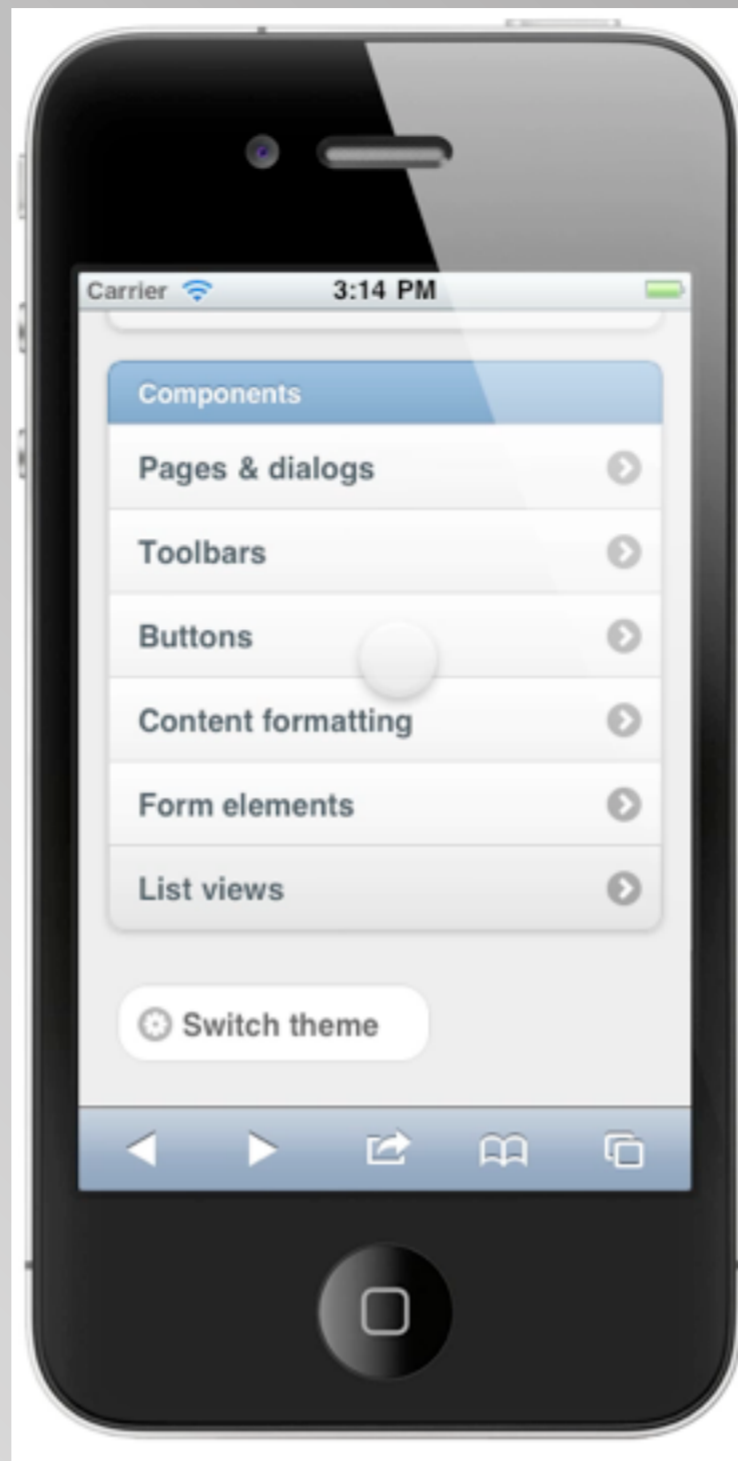
## Animations and transitions

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- CSS3 Animated Transitions
  - Jerky, especially if you are trying to use them intensely
  - But there getting better

# CSS3 Demo



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iOS app developer might laugh at you.

- Current Problem
- Scrolling window

# Touch Events

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- Fast Click is awesome, I wish I had figured it out
- Android 2.1 will make you want to tear your hair out

# localStorage

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- LocalStorage
- Limit
- Lawnchair
- LRU
- jQuery Offline



# localStorage

- **5mb limit**
- **Lawnchair: <http://sia.tw/eQTYoZ>**
- **jquery-offline: <http://sia.tw/eQTYoZ>**
- **LRU**

# AppCache

**Gmail: <http://sia.tw/g8Nt0s>**

# Inline Everything

```
CACHE MANIFEST
```

```
# Product: VERSION_NUMBER
```

```
NETWORK:
```

```
*
```

# Android 2.1 vs 2.2

## No Whitelist

2.1

```
104     else if (mode == Explicit || mode == OnlineWhitelist) {
105         const UChar* p = line.characters();
106         const UChar* lineEnd = p + line.length();
107
108         // Look for whitespace separating the URL from subsequent ignored tokens.
109         while (p < lineEnd && *p != '\t' && *p != ' ')
110             p++;
111
112         KURL url(manifestURL, String(line.characters(), p - line.characters()));
113
114         if (!url.isValid())
115             continue;
116
117         if (url.hasFragmentIdentifier())
118             url.removeFragmentIdentifier();
```

## Whitelist

2.2

```
105     else if (mode == Explicit || mode == OnlineWhitelist) {
106         const UChar* p = line.characters();
107         const UChar* lineEnd = p + line.length();
108
109         // Look for whitespace separating the URL from subsequent ignored tokens.
110         while (p < lineEnd && *p != '\t' && *p != ' ')
111             p++;
112
113         if (mode == OnlineWhitelist && p - line.characters() == 1 && *line.characters() == '*') {
114             // Wildcard was found.
115             manifest.allowAllNetworkRequests = true;
116             continue;
117         }
118
119         KURL url(manifestURL, String(line.characters(), p - line.characters()));
```

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<http://android.git.kernel.org/?p=platform/external/webkit.git;a=blob;f=WebCore/loader/appcache/ManifestParser.cpp;h=a2df825c6c6df0d202c2d1cf71f37d4de2d3d935;hb=e833ef7709fa233c7ce0792e41effc1d2b147022>

<http://android.git.kernel.org/?p=platform/external/webkit.git;a=blob;f=WebCore/loader/appcache/ManifestParser.cpp;h=b001bffec0dcad2bc74beed01307b0939de7e0a7;hb=2943c136f14cf8d0631249dd8764a0b6ab45fb98>

**On, and on ...**  
**forever**

# oh!

## stage 3

- Stage 3 - Enlightenment
  - the web and mobile are fundamentally different
  - Frustrating native app developers
  - That is just how the web works
    - Indoctrinated
  - Phones just react
  - Put object on the screen, and it renders when data
  - Though can't do on the web
    - beaten on DOM

# **Render first worry about the rest later**

@voidfiles

<http://alexkessinger.net>

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