



WebClient i+ for CA Plex

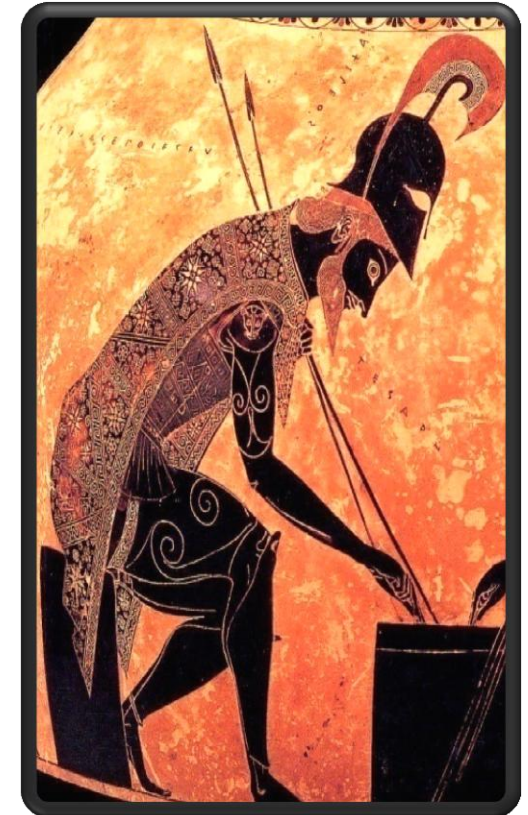
Mobile Development

Chicago, June 2011



- **Mobile from CA Plex?**
 - Without learning anything (or much new?)
 - With standard action diagrams and patterns?
 - Does it look good?
 - Native apps?
 - **Really?**

Ajax in Greek mythology



Statistics

The world is going mobile

- **50 million** iPhones sold to date
- **200,000** Android devices sold each day
- **8.5 million** iPads sold to date
- **70 million** tablets predicted by the end of 2012
- **2/3** of the Fortune 100 have started deploying iPads for Enterprise use



iPhone/iPad/Android/BB6

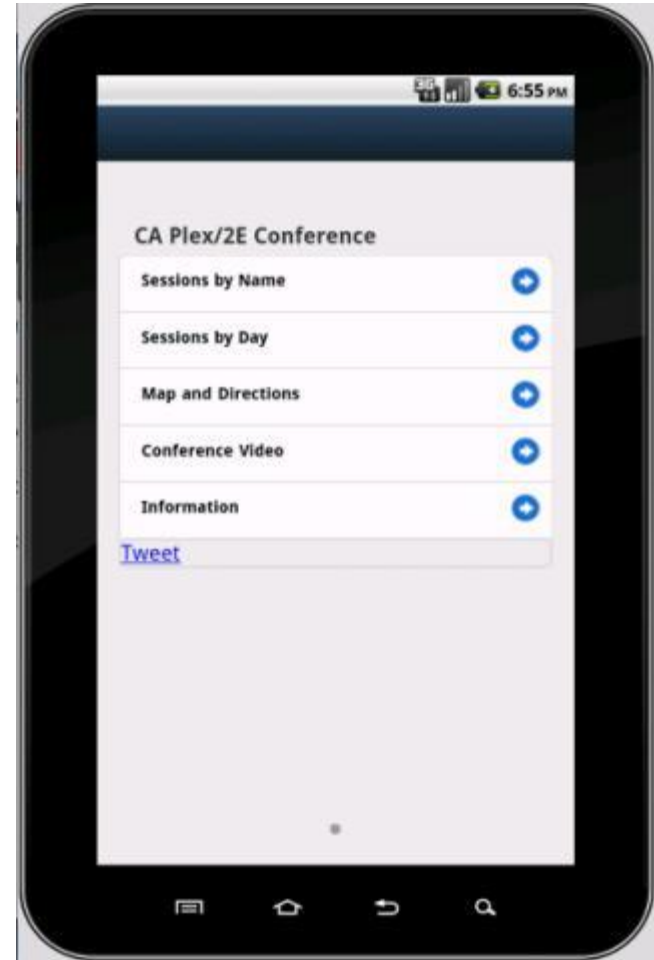
Web App with Native Optimization

mobileportal.cmfirsttech.com/Plex2EWeb/wcs



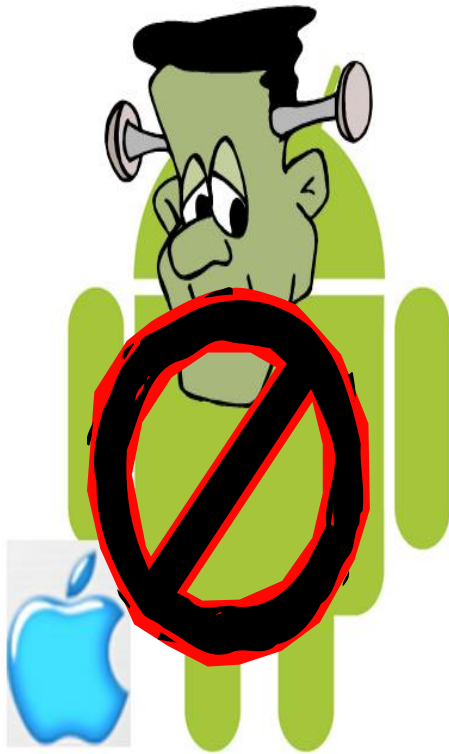
Native App - Android Market

<http://market.android.com>



Creating Mobile Apps

Finding a better process



- One primary skill set – Plex
- Use Plex Strengths
 - action diagram
 - panel design
 - existing code
- But – Need First Class Mobile App

A better way – Plex+WebClient with Sencha Touch

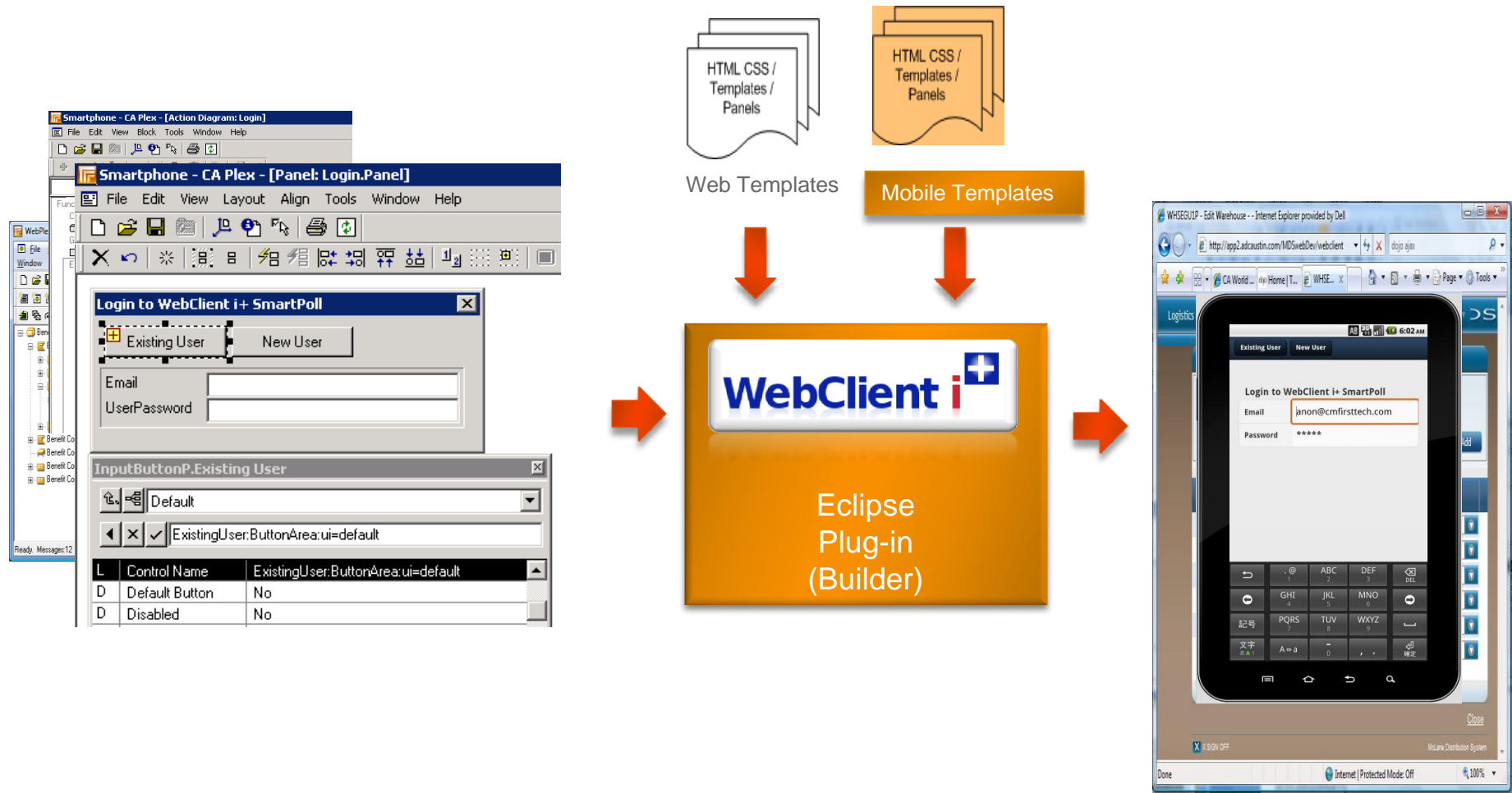


Android + iOS



- Covers 93% of mobile traffic
- HTML 5, CSS3, ExtJS
- SaSS
- Local Storage
- Media/Geo

Mobile template library





Mobile Design



Designing Mobile Apps

Principals



- Blurry Vision
- Get it done quick
- Double Tap, Pinch, Twist, What?
- Clumsy Fingers

Designing Mobile Apps

Principals

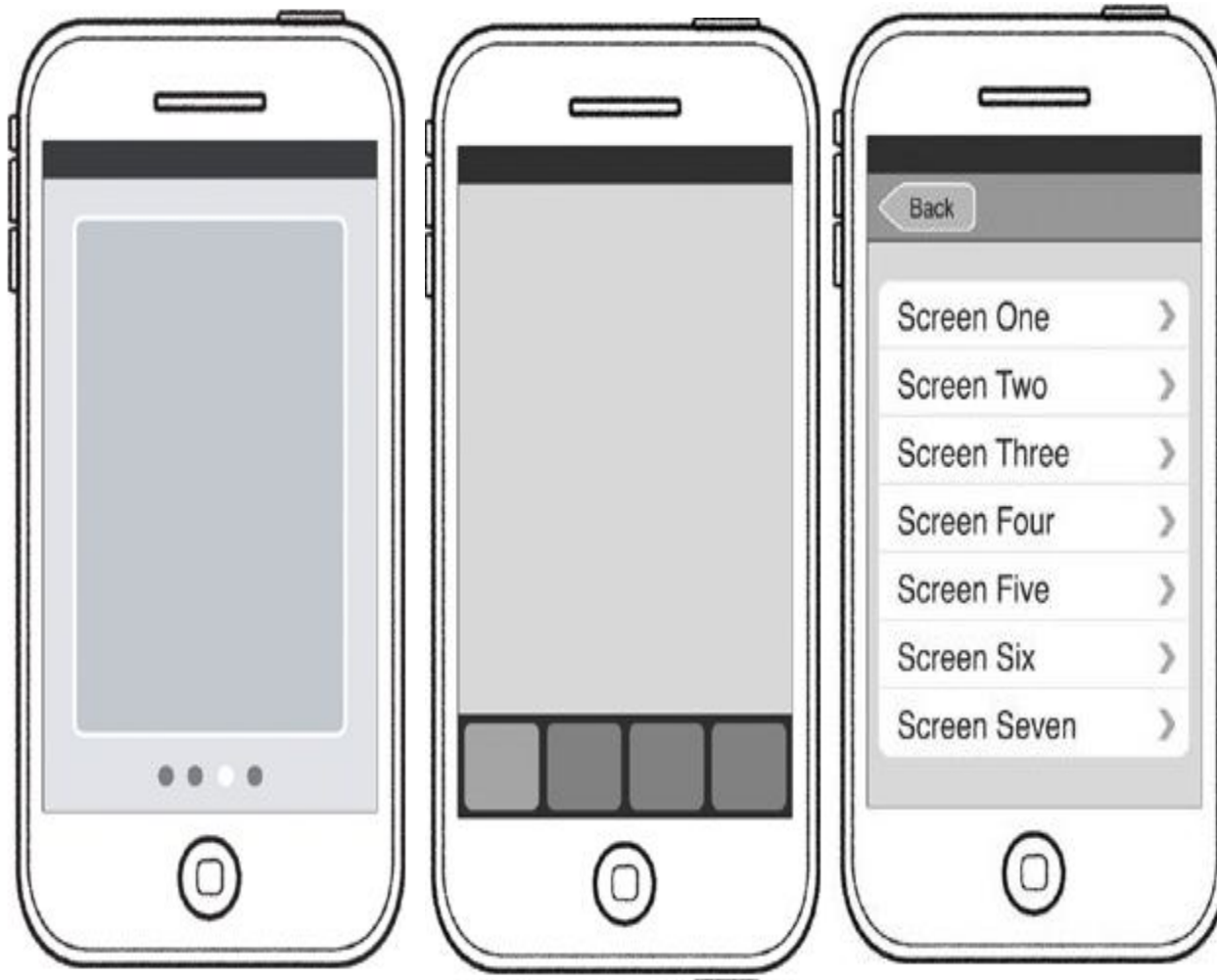


Figure 1-4. Photo: Adam Frederick

- Simplicity
- Ease
- Elegance
- Your App Doesn't have to do it all

Navigation Models

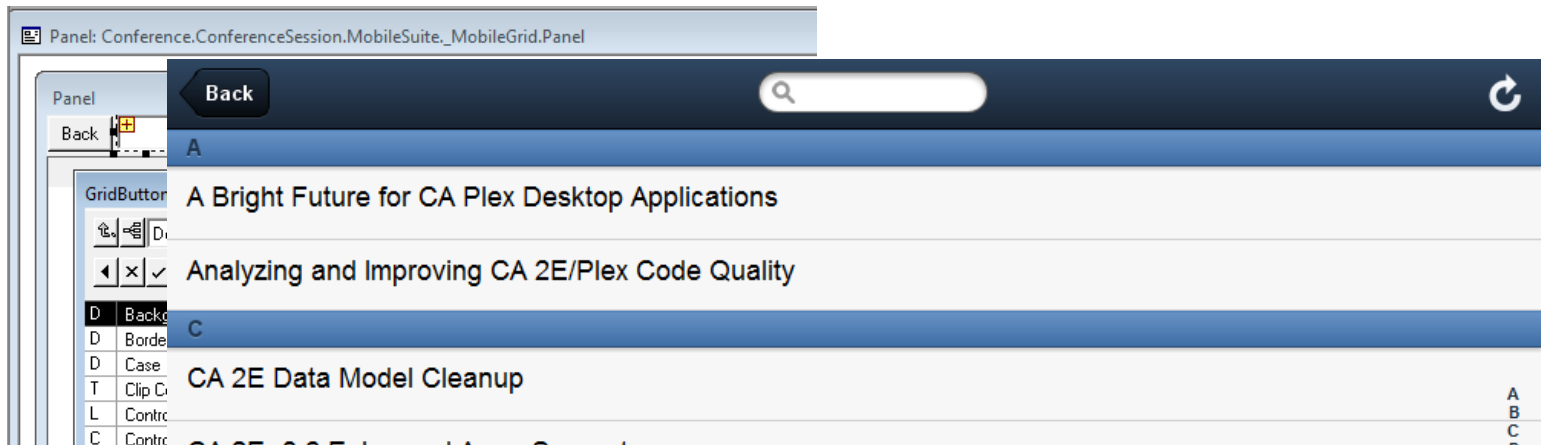
Principals



Combine

How do we do this in Plex?

- By adding Control Name Directives
- `ControlName:AttachPoint:parameter=xxx`
- Examples:
 - `BackButton:ToolBarArea:toolbar=1:align=left:ui=back`
 - `Search:ToolBarArea:toolbar=1:align=center:template=WebSearch`
 - `RefreshButton:ToolBarArea:toolbar=1:align=right:iconCls=refresh`
 - `GridP:FullscreenArea:grouped=true:indexBar=true`



ToolBarArea, align, toolbarNum

The screenshot shows a web application interface with a dark blue header bar. On the left of the header is a 'Back' button with a left-pointing arrow. In the center is a search bar with a magnifying glass icon. On the right is a circular refresh icon. Below the header, the content is organized into sections. A blue bar labeled 'A' is followed by two list items: 'A Bright Future for CA Plex Desktop Applications' and 'Analyzing and Improving CA 2E/Plex Code Quality'. Another blue bar labeled 'C' is followed by a list of items: 'CA 2E Data Model Cleanup', 'CA 2E r8.6 Enhanced Array Support', 'CA 2E r8.6 Technical Update', 'CA 2E to Java/.Net, the Cloud, and Beyond', 'CA Plex .NET Client Generator – In Practice', 'CA Plex for CA 2E Developers', 'CA Plex Unicode support update Java, .NET and IBM i', and 'CA Plex WCF Services in the Cloud'. A blue bar labeled 'D' is followed by 'Customer Case: Service-Oriented Design In a Large CA Plex Project' and 'DB2 for i: What is it today, and'. On the right side of the content area, there is a vertical alphabetical index from 'A' to 'Z'. Two red rectangular boxes with white text are overlaid on the interface: 'FullscreenArea' is positioned over the 'CA 2E r8.6 Enhanced Array Support' item, and 'TabbarArea' is positioned over the 'DB2 for i: What is it today, and' item.

Back

Search

Refresh

A

A Bright Future for CA Plex Desktop Applications

Analyzing and Improving CA 2E/Plex Code Quality

C

CA 2E Data Model Cleanup

CA 2E r8.6 Enhanced Array Support

CA 2E r8.6 Technical Update

CA 2E to Java/.Net, the Cloud, and Beyond

CA Plex .NET Client Generator – In Practice

CA Plex for CA 2E Developers

CA Plex Unicode support update Java, .NET and IBM i

CA Plex WCF Services in the Cloud

Customer Case: Service-Oriented Design In a Large CA Plex Project

D

DB2 for i: What is it today, and

FullscreenArea


TabbarArea

A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P
Q
R
S
T
U
V
W
X
Y
Z

Attach Points

[Back](#)

ToolbarArea, align, toolbarNum

 Add to My Favorites

Info

Title	Analyzing and Improving CA 2E/Plex Code Quality
Speaker	J. Rhodes / C. Wilt
Time	Jun 3 10:00

MainArea, fieldSet

More

Abstract

More Info

Media

TabbarArea

Buttons, Toolbar and Disclosure

Partial iconCls list (see sencha documentation)

action
add
arrow_down
arrow_left
arrow_right
arrow_up
compose
delete
organize
refresh
reply
search
settings
...

Partial ui list (see sencha documentation)

normal
back
round
forward
action

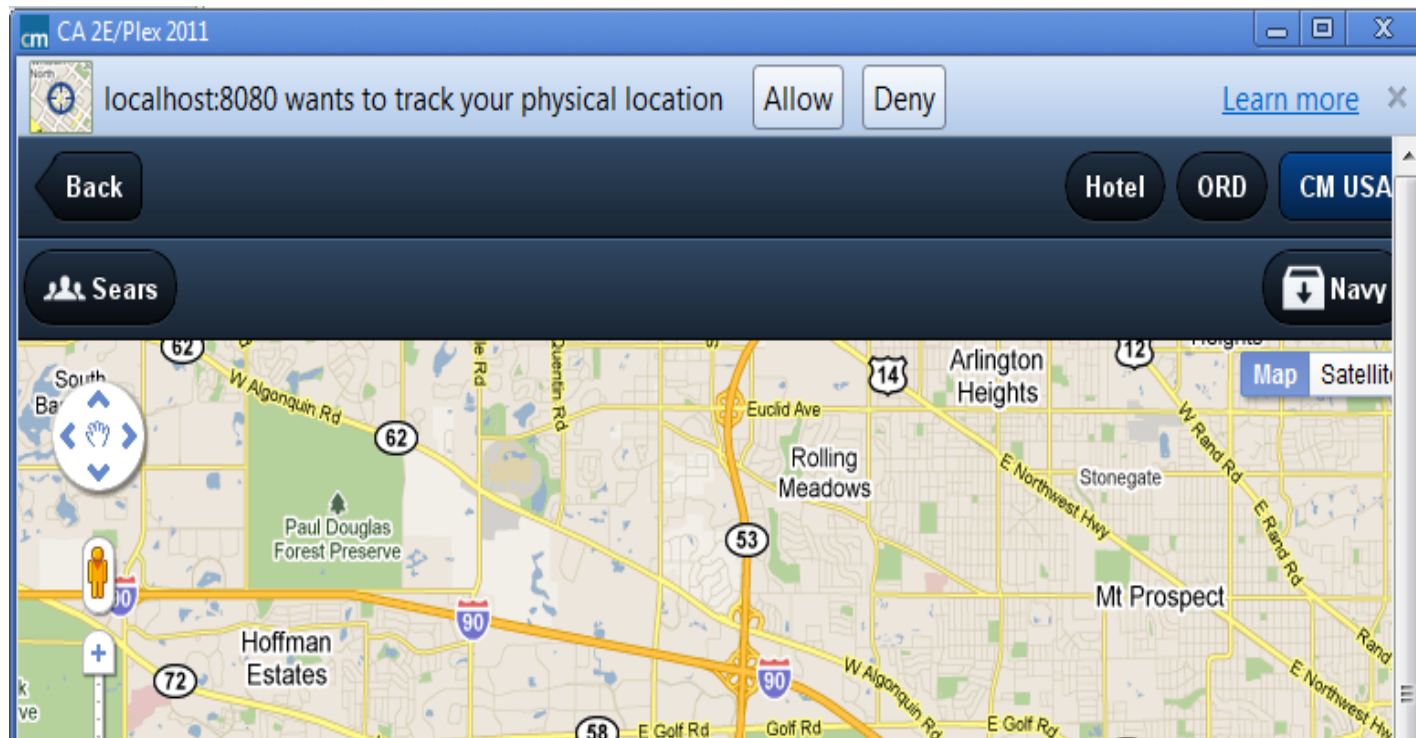


<http://dev.sencha.com/deploy/touch/examples/kitchensink/>

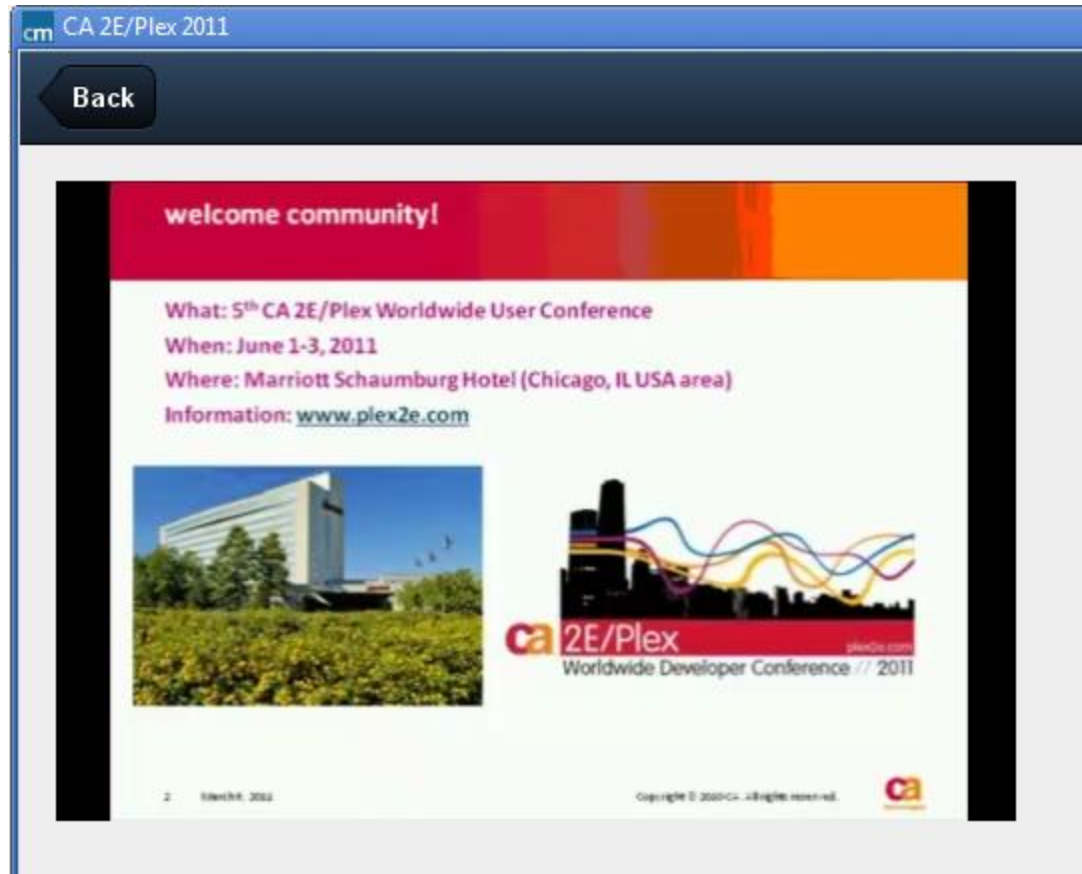
Abstract	➔
More Info	➔
Media	➔

Attach a map template to fields

- MapCoords:FullscreenArea:template=WebMap
- MapLocation:FullscreenArea:template=WebLocation



Attach a video template to fields
Video:FullscreenArea:template=Video



Attach a url template to fields

Tweet:MainArea:template=WebURL:label=Tweet the app link:fieldSet=Links

Links

Tweet the app link

Sign in to Twitter

twitter

Not a member? [Sign up »](#)

Username or email

Password

[Forgot your password?](#)

Sign in

Cancel

New to Twitter?

Sign up »

Get instant updates from your friends, industry experts, favorite celebrities, and what's happening around the world.



Native Wrapper



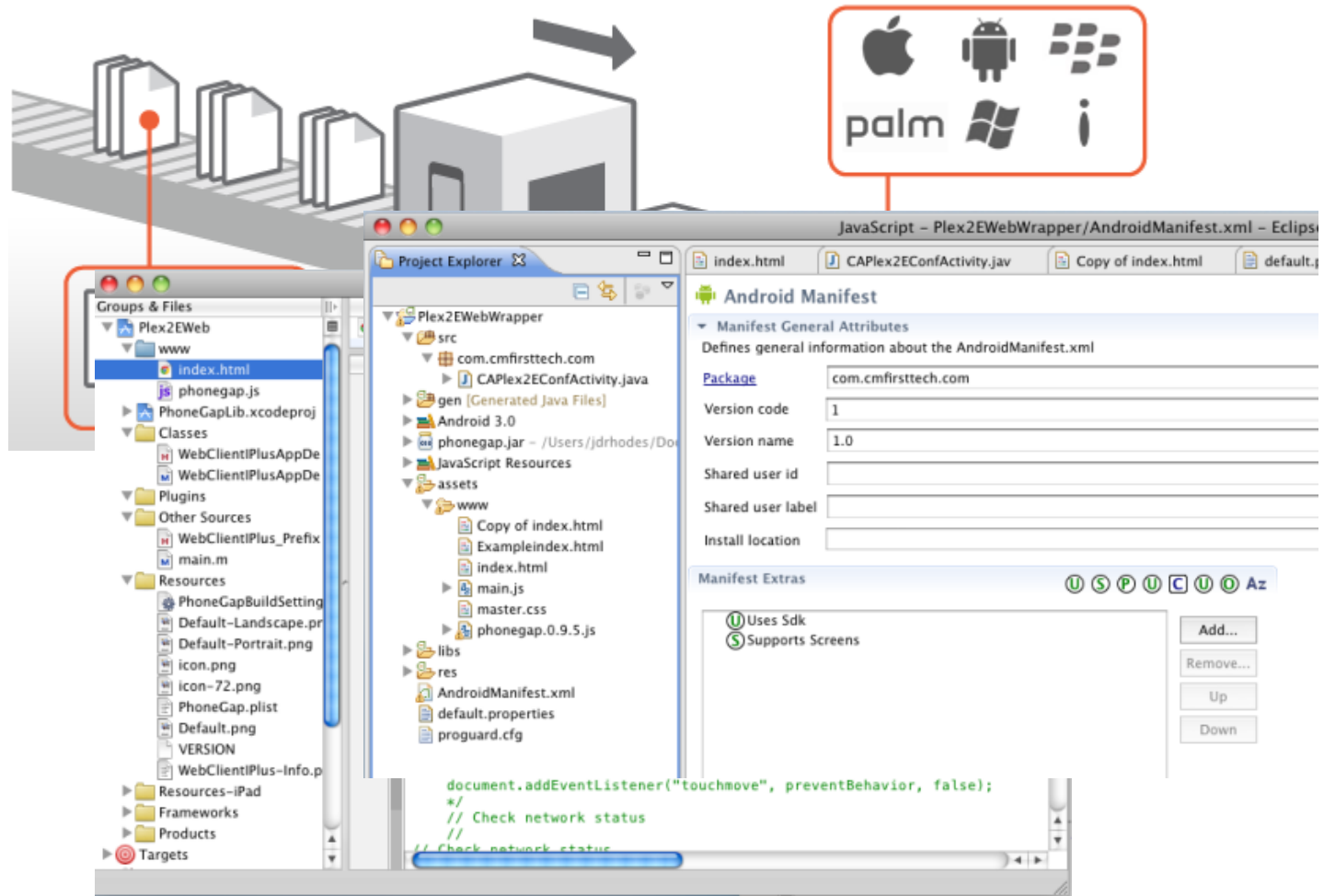
What about hardware?

- Camera
- Compass
- Accelerometer
- App Store



Native Wrapper App

PhoneGap for Eclipse / XCode





Alpha Demo





So what is next?



Full JavaScript Application Generation

**“JavaScript is the next enterprise language”
(Google, et. al.)**

- **Local code (action diagram logic)**
- **Local storage**
- **Direct access to device hardware**

Plus:

- **Cross Platform – run anywhere**
- **JavaScript on the server**

But is this just a dream?

First look

Google Web Toolkit
Showcase of Features

Text Input

Popups

▼ Panels

- Decorator Panel
- Flow Panel
- Horizontal Panel
- Vertical Panel
- Absolute Panel
- Dock Panel
- Disclosure Panel
- Tab Panel**
- Horizontal Split Panel
- Vertical Split Panel

Example CSS Style Source Code

CA 2E/Plex 2011 New Tab

cmfirst.jkerns.com

Panel

Integer A

Integer B

Result

+ - * / %

- Disconnected Operation
- Native Device Storage
- Cross Platform, Device, and Browser

• See Session Tomorrow at 3:15pm



Futures Demo



WebClient Information

(click logo to view)



- webclientiplus.com
 - Wiki
 - Blog
 - Product Downloads / Support