

Making your Campus Map Mobile Friendly

One Map to Rule Them All
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Google Maps API Version 2

- Everything but the kitchen sink
- Synchronous API – tiles can't be downloaded until the very end of the loading process
- Not designed for mobile devices
- 17-19 seconds for tiles to load on an iPhone 3G

Google Maps API Version 3

- Specifically designed for Android and the iPhone
- Initially launched in May 2009 with very limited features
- Released as the official API at Google I/O 2010.
- Developers have 3 years to update their maps

Developing a Mobile Map

- Each platform/device has their own SDK for maps.
- Maps API v3 can now run the **same code** on all of them. Don't use the native SDKs.
- Should truly be thought of as an Application. It just happens to be one that you use web technologies to build.

Mobile Map Template

<http://search.missouristate.edu/map/mobile/examples/template.htm>

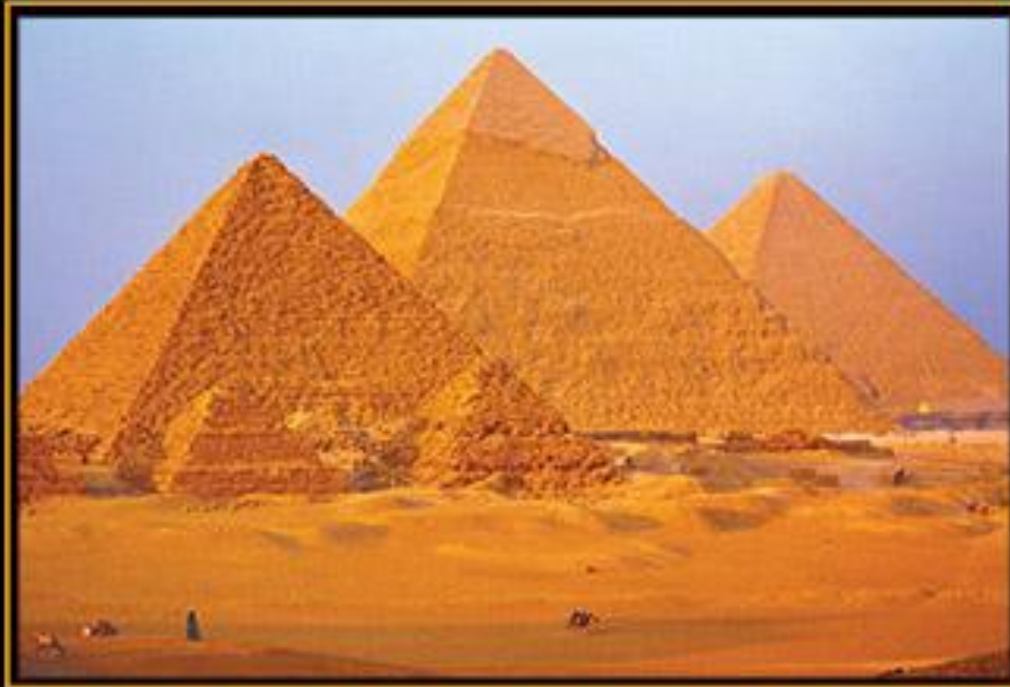
<http://bit.ly/du3YaE>

- Asynchronously load scripts
- Use conflicting absolute positions to handle full screen
- Uses the special meta tags in the head
- Show user feedback

KML Layers are Your Friend

- Kml Reference

<http://code.google.com/apis/kml/documentation/kmlreference.html>

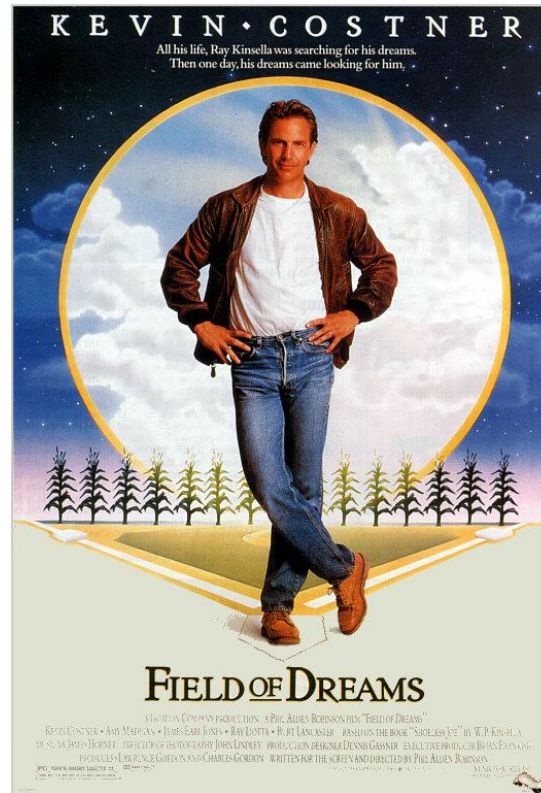


ACHIEVEMENT

YOU CAN DO ANYTHING YOU SET YOUR MIND TO WHEN YOU HAVE VISION,
DETERMINATION, AND AN ENDLESS SUPPLY OF EXPENDABLE LABOR.

www.despair.com

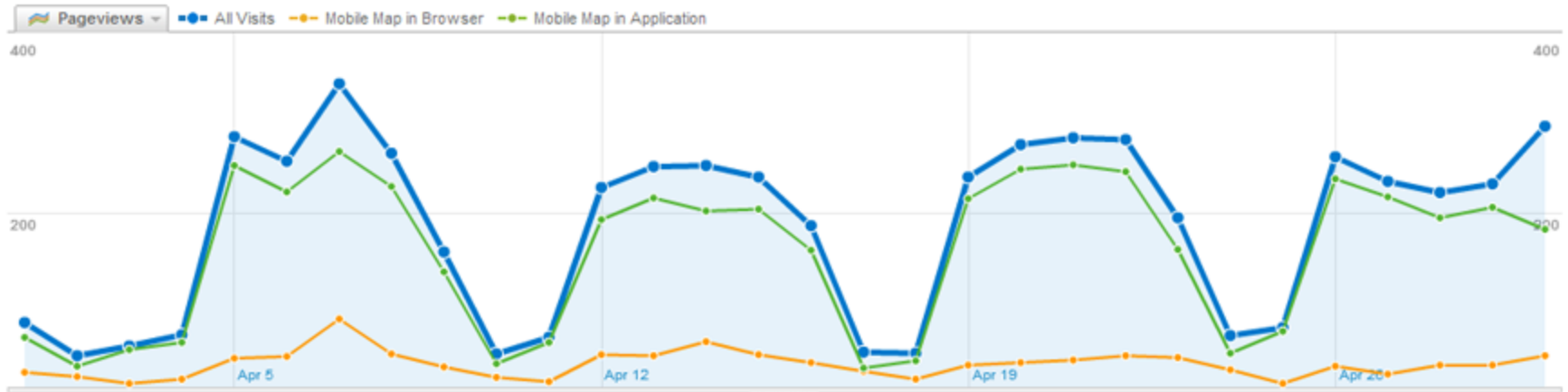
If You Build It, They Will Come



Is There an App for That?



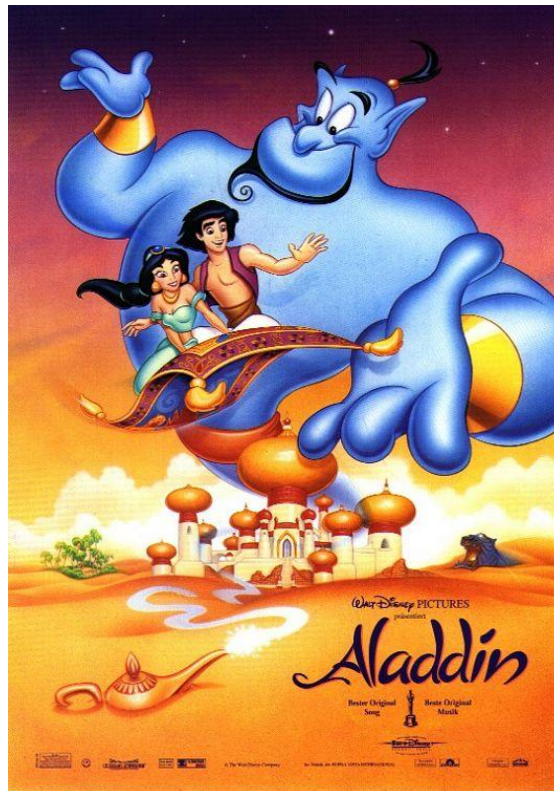
Mobile Map Usage



Hybrid Application

- Write a very basic wrapper application
- Embed a web view
- Point the web view at your map
- <http://code.google.com/apis/maps/documentation/javascript/articles.html>

Phenomenal Cosmic Powers Itty Bitty Living Space



Must Go Faster



Recommended Optimizations

- Avoid extra JavaScript libraries
- Compress your JavaScript
- Use HTML5 Local Storage (Cache-manifest)
- Use Google Page Speed (FireFox Addon)

Resources

- This presentation
<http://blogs.missouristate.edu/web/2010/06/08/psuweb10/>
- Google Maps API v3 Documentation
<http://code.google.com/apis/maps/documentation/javascript/>
- Google Maps API v3 Group
<http://groups.google.com/group/google-maps-js-api-v3/>

Questions

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