PhoneGap
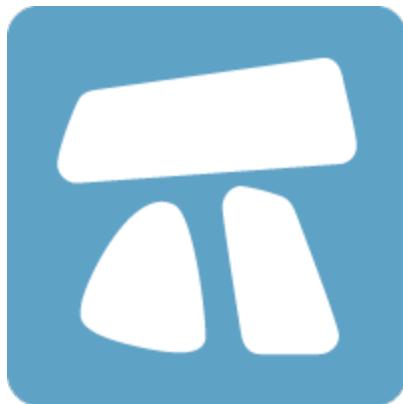
Easy Mobile Development

Rob Ellis

PhoneGap.com

Nitobi.com - My Work
silentrob.me - My Site

http://twitter.com/rob_ellis
http://github.com/silentrob
rob.ellis@nitobi.com

History

iPhoneDevCamp '08

What is PhoneGap?

Cross Platform

Mobile Framework

MIT

free as in do what you like

Objective C is HARD

Cluster Fork

Platform	Language	Osim?
iPhone	Objective-C	not really
Android	Java (Dalvik VM)	ok
BlackBerry	Java (Who Knows)	no
Windows Mobile	.Net and/or C++	sorry
Nokia	C++, Java,Flash, web, python	sorta
Palm	web tech	Exactly

Sound Familiar?

HTML / CSS / JS

NO MATTER WHAT

You will NEVER party this hard

Webkit

HTML 5

vibrate

```
navigator.notification.vibrate(0);
```

beep

```
navigator.notification.beep(2);
```

telephony

```
<a href="tel:411">Call 411</a>
```

geolocation (a)

```
navigator.geolocation.getCurrentPosition(win,fail)
;
```

geolocation (b)

```
var getLocation = function() {
   var win = function(p){
       alert(p.coords.latitude);
       alert(p.coords.longitude);
   };
   var fail = function(){};
   navigator.geolocation.getCurrentPosition(win,fail);
};


...


<body onload="getLocation();">
```

accelerometer (a)

```
navigator.accelerometer.watchAcceleration(win, fail,
opt);
```

accelerometer (b)

```
function watchAccel() {
  var win = function(a){
      document.getElementById('x').innerHTML = a.x;
      document.getElementById('y').innerHTML = a.y;
      document.getElementById('z').innerHTML = a.z;
  };
  var fail = function(){};
  var opt = {};
  opt.frequency = 100;
  navigator.accelerometer.watchAcceleration(win,fail,opt);
}
```

What else?

- Camera
- Sound
- Contact Support
- and more...

Where?

- iPhone
- Android
- Blackberry
- WRT (s60)
- winMO (sorta)
- Palm (almost)

bridging the GAP:

```
gap://CommandHandler.method?arg1Name=arg1Value&arg2Name=arg2Value
```

gap://

This is a phonegap request and not a request to load a new page.

CommandHandler

This is a subset of device functionality that contains methods. An example would be Accelerometer or Notification

method

Each CommandHandler defines it's own methods arguments

a URL encoded list of arguments that are passed to the method (varies based on the method) Note that phonegap.js will URLEncode the parameters for you.

Objective C land

stringByEvaluatingJavascriptFromString()

DON'T WORRY

I'm from the internet.

XUI

jQuery gone Tiny

selector

x$('a.foo');

more selectors

```
x$(window);                          // The Window
x$(element);                         // An Existing Element
x$('ul#globalnav li a.selected');    // A CSS3 Selector
x$(['li','div#foo']);                // An Array of Selectors
x$('li','.selected','#some_id');     // A comma list of CSS3
Selectors
```

event

```
x$('a.foo').touchstart(function(){ alert("hi") });
```

more hotness

```
x$('.save').touchstart( function(evt){
    alert('tee hee!')
});


x$('.foo').addClass('awesome');
x$('.foo').removeClass('className');
```

xhr

```
x$('#tweets').xhr('/tweet.html');
```

PhoneGap Philosophy

device agnostic / open standards / open source

Future

Announcement

PhoneGap

Demo?

Thanks

Resources

Get involved, wiki, google group...
phonegap.com

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rob.ellis@nitobi.com

nitobi.com