



PhoneGap

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Tecnología puente entre aplicaciones web y dispositivos móviles

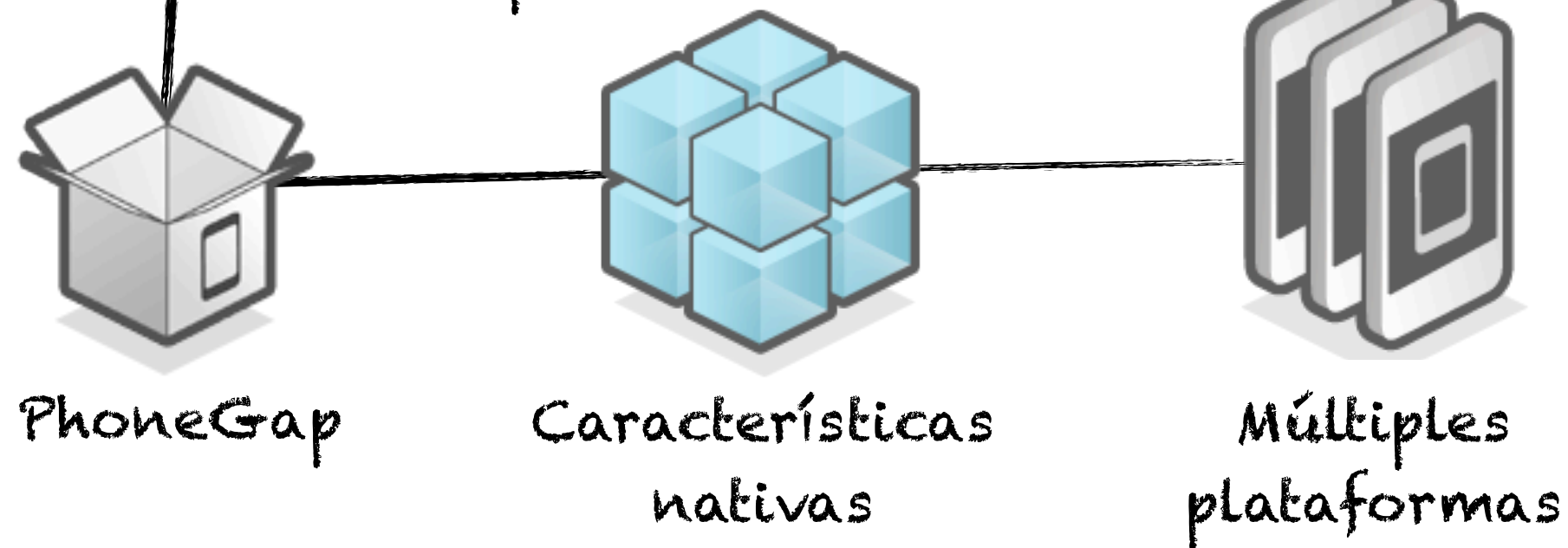
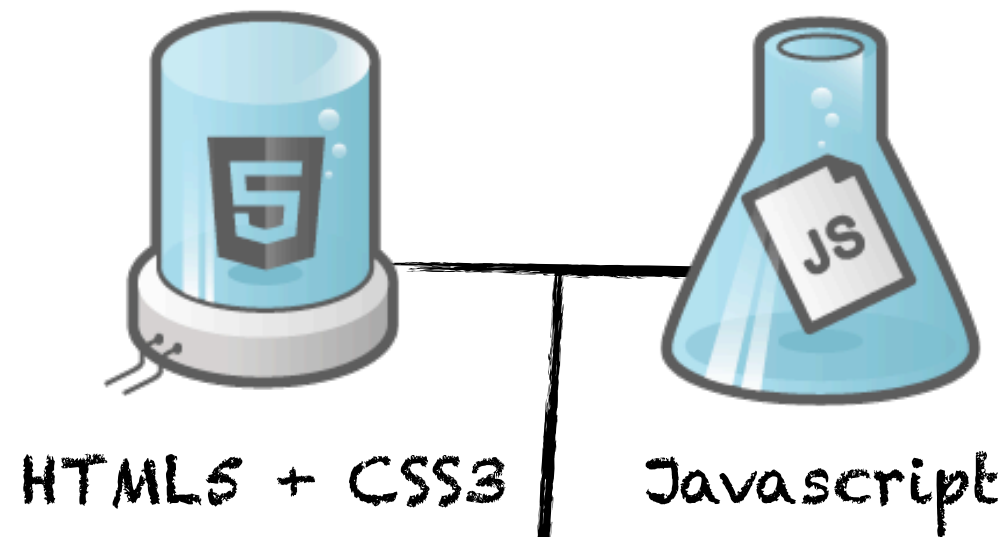


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PhoneGap Compatibilidad



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	 iOS <small>iPhone / iPhone 3G</small>	 iOS <small>iPhone 3GS and newer</small>	 Android	 OS 4.6-4.7	 OS 5.x	 OS 6.0+	 WebOS	 WP7	 Symbian	 Bada
ACCELEROMETER	✓	✓	✓	✗	✓	✓	✓	✓	✓	✓
CAMERA	✓	✓	✓	✗	✓	✓	✓	✓	✓	✓
COMPASS	✗	✓	✓	✗	✗	✗	✗	✓	✗	✓
CONTACTS	✓	✓	✓	✗	✓	✓	✗	✓	✓	✓
FILE	✓	✓	✓	✗	✓	✓	✗	✓	✗	✗
GEOLOCATION	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
MEDIA	✓	✓	✓	✗	✗	✗	✗	✓	✗	✗
NETWORK	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
NOTIFICATION (ALERT)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
NOTIFICATION (SOUND)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
NOTIFICATION (VIBRATION)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
STORAGE	✓	✓	✓	✗	⚠	✓	✓	⚠	✓	✗

iOS



webOS

symbian

bada

PhoneGap API



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- * Accelerometer
Gestiona el sensor de movimiento del dispositivo.
- * Camera
Captura fotos usando la cámara del dispositivo.
- * Capture
Obtiene archivos multimedia usando las aplicaciones de captura.
- * Compass
Obtiene la dirección a la que mira el dispositivo.
- * Connection
Comprueba el estado de la red e información de la red móvil.
- * Contacts
Gestiona la agenda del dispositivo.
- * Device
Obtiene información específica del dispositivo.
- * Events
Eventos nativos a través de JavaScript.
- * File
Sistema de ficheros nativos a través de Javascript.
- * Geolocation
Conozca donde se encuentra.
- * Media
Graba y reproduce ficheros de audio.
- * Notification
Notificaciones visuales, audibles y táctiles.
- * Storage
Acceda a las posibilidades de almacenamiento nativas del dispositivo.

PhoneGap API: Device



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device.name
device.phonegap
device.platform
device.uuid
device.version

```
<!DOCTYPE html>
<html>
  <head>
    <title>Device Properties Example</title>

    <script type="text/javascript" charset="utf-8" src="phonegap.js"></script>
    <script type="text/javascript" charset="utf-8">

      // Wait for PhoneGap to load
      //
      document.addEventListener("deviceready", onDeviceReady, false);

      // PhoneGap is ready
      //
      function onDeviceReady() {
        var element = document.getElementById('deviceProperties');

        element.innerHTML = 'Device Name: ' + device.name + '<br />' +
          'Device PhoneGap: ' + device.phonegap + '<br />' +
          'Device Platform: ' + device.platform + '<br />' +
          'Device UUID: ' + device.uuid + '<br />' +
          'Device Version: ' + device.version + '<br />';
      }

    </script>
  </head>
  <body>
    <p id="deviceProperties">Loading device properties...</p>
  </body>
</html>
```

PhoneGap API: Camera



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camera.getPicture

```
navigator.camera.getPicture( cameraSuccess, cameraError, [ cameraOptions ] );
```

```
navigator.camera.getPicture(onSuccess, onFail, { quality: 50 });

function onSuccess(imageData) {
    var image = document.getElementById('myImage');
    image.src = "data:image/jpeg;base64," + imageData;
}

function onFail(message) {
    alert('Failed because: ' + message);
}
```

```
navigator.camera.getPicture(onSuccess, onFail, { quality: 50,
    destinationType: Camera.DestinationType.FILE_URI });

function onSuccess(imageURI) {
    var image = document.getElementById('myImage');
    image.src = imageURI;
}

function onFail(message) {
    alert('Failed because: ' + message);
}
```

PhoneGap API: Capture



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capture.captureAudio
capture.captureImage
capture.captureVideo

```
// capture callback
var captureSuccess = function(mediaFiles) {
    var i, path, len;
    for (i = 0, len = mediaFiles.length; i < len; i += 1) {
        path = mediaFiles[i].fullPath;
        // do something interesting with the file
    }
};

// capture error callback
var captureError = function(error) {
    navigator.notification.alert('Error code: ' + error.code, null, 'Capture Error');
};

// start audio capture
navigator.device.capture.captureAudio(captureSuccess, captureError, {limit:2});
```

```
navigator.device.capture.captureImage(
    CaptureCB captureSuccess, CaptureErrorCB captureError, [CaptureImageOptions options]
);
```

```
navigator.device.capture.captureVideo(
    CaptureCB captureSuccess, CaptureErrorCB captureError, [CaptureVideoOptions options]
);
```


PhoneGap API: Geolocation



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geolocation.getCurrentPosition
geolocation.watchPosition
geolocation.clearWatch

```
// onSuccess Callback
// This method accepts a 'Position' object, which contains
// the current GPS coordinates
//
var onSuccess = function(position) {
    alert('Latitude: '    + position.coords.latitude      + '\n' +
          'Longitude: '   + position.coords.longitude     + '\n' +
          'Altitude: '    + position.coords.altitude      + '\n' +
          'Accuracy: '    + position.coords.accuracy       + '\n' +
          'Altitude Accuracy: ' + position.coords.altitudeAccuracy + '\n' +
          'Heading: '     + position.coords.heading        + '\n' +
          'Speed: '       + position.coords.speed          + '\n' +
          'Timestamp: '   + new Date(position.timestamp)   + '\n');
};

// onError Callback receives a PositionError object
//
function onError(error) {
    alert('code: '      + error.code    + '\n' +
          'message: '   + error.message + '\n');
}

navigator.geolocation.getCurrentPosition(onSuccess, onError);
```

```
var watchId = navigator.geolocation.watchPosition(geolocationSuccess,
                                                    [geolocationError],
                                                    [geolocationOptions]);
```

```
navigator.geolocation.clearWatch(watchID);
```


PhoneGap API: Connection



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connection.type

```
function checkConnection() {  
    var networkState = navigator.network.connection.type;  
  
    var states = {};  
    states[Connection.UNKNOWN] = 'Unknown connection';  
    states[Connection.ETHERNET] = 'Ethernet connection';  
    states[Connection.WIFI] = 'WiFi connection';  
    states[Connection.CELL_2G] = 'Cell 2G connection';  
    states[Connection.CELL_3G] = 'Cell 3G connection';  
    states[Connection.CELL_4G] = 'Cell 4G connection';  
    states[Connection.NONE] = 'No network connection';  
  
    alert('Connection type: ' + states[networkState]);  
}  
  
checkConnection();
```

PhoneGap API: Storage



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```
var db = window.openDatabase("test", "1.0", "Test DB", 1000000);
```

```
function populateDB(tx) {  
    tx.executeSql('DROP TABLE IF EXISTS DEMO');  
    tx.executeSql('CREATE TABLE IF NOT EXISTS DEMO (id unique, data)');  
    tx.executeSql('INSERT INTO DEMO (id, data) VALUES (1, "First row")');  
    tx.executeSql('INSERT INTO DEMO (id, data) VALUES (2, "Second row")');  
}  
  
function errorCallback(err) {  
    alert("Error processing SQL: "+err.code);  
}  
  
function successCB() {  
    alert("success!");  
}  
  
var db = window.openDatabase("Database", "1.0", "PhoneGap Demo", 200000);  
db.transaction(populateDB, errorCallback, successCB);
```

openDatabase

PhoneGap API: File



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File.fullPath

File.type

File.size

FileEntry.isFile

FileEntry.isDirectory

FileEntry.moveTo

FileEntry.copyTo

FileEntry.getParent

FileReader.readAsDataURL

FileReader.readAsText

FileWriter.write

FileWriter.seek

FileWriter.truncate

FileWriter.append

DirectoryReader

FileTransfer

```
function win(file) {  
    var reader = new FileReader();  
    reader.onloadend = function(evt) {  
        console.log("read success");  
        console.log(evt.target.result);  
    };  
    reader.readAsText(file);  
};  
  
var fail = function(evt) {  
    console.log(error.code);  
};  
  
entry.file(win, fail);
```

```
function win(writer) {  
    writer.onwrite = function(evt) {  
        console.log("write success");  
    };  
    writer.write("some sample text");  
};  
  
var fail = function(evt) {  
    console.log(error.code);  
};  
  
entry.createWriter(win, fail);
```