



Drupal Mobile

#drupalmobile





~~Theming~~



Drupal for Mobile Apps

Drupal as REST Server





Concepts





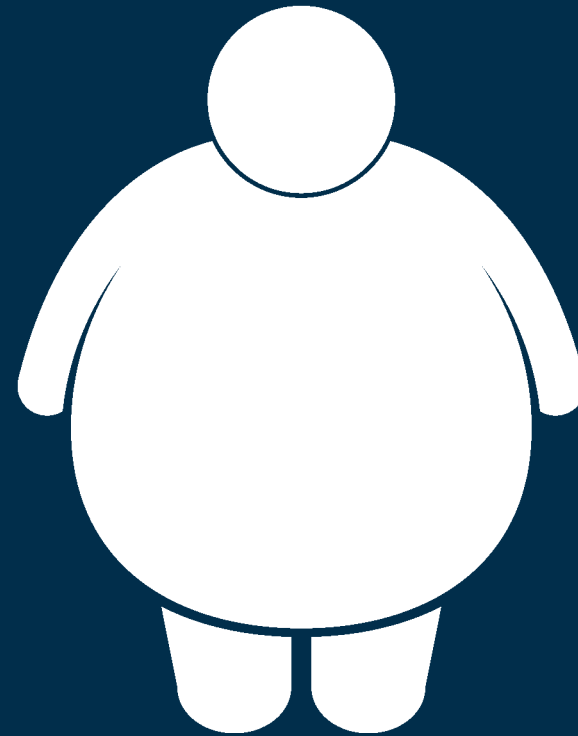
JSON



JSON



XML





JSON Format

```
{
  "firstName": "Hommer",
  "lastName": "Simpson",
  "age": 36,
  "address": {
    "streetAddress": "742 Evergreen Terrace",
    "city": "Springfield",
    "state": "Unknown",
    "postalCode": "80085"
  },
  "phoneNumber": [
    {
      "type": "home",
      "number": "555 123-4567"
    },
    {
      "type": "mobile",
      "number": "555 987-6543"
    }
  ]
}
```





REST



REST Verbs

GET

POST

PUT

DELETE

HEAD

OPTIONS

PATCH



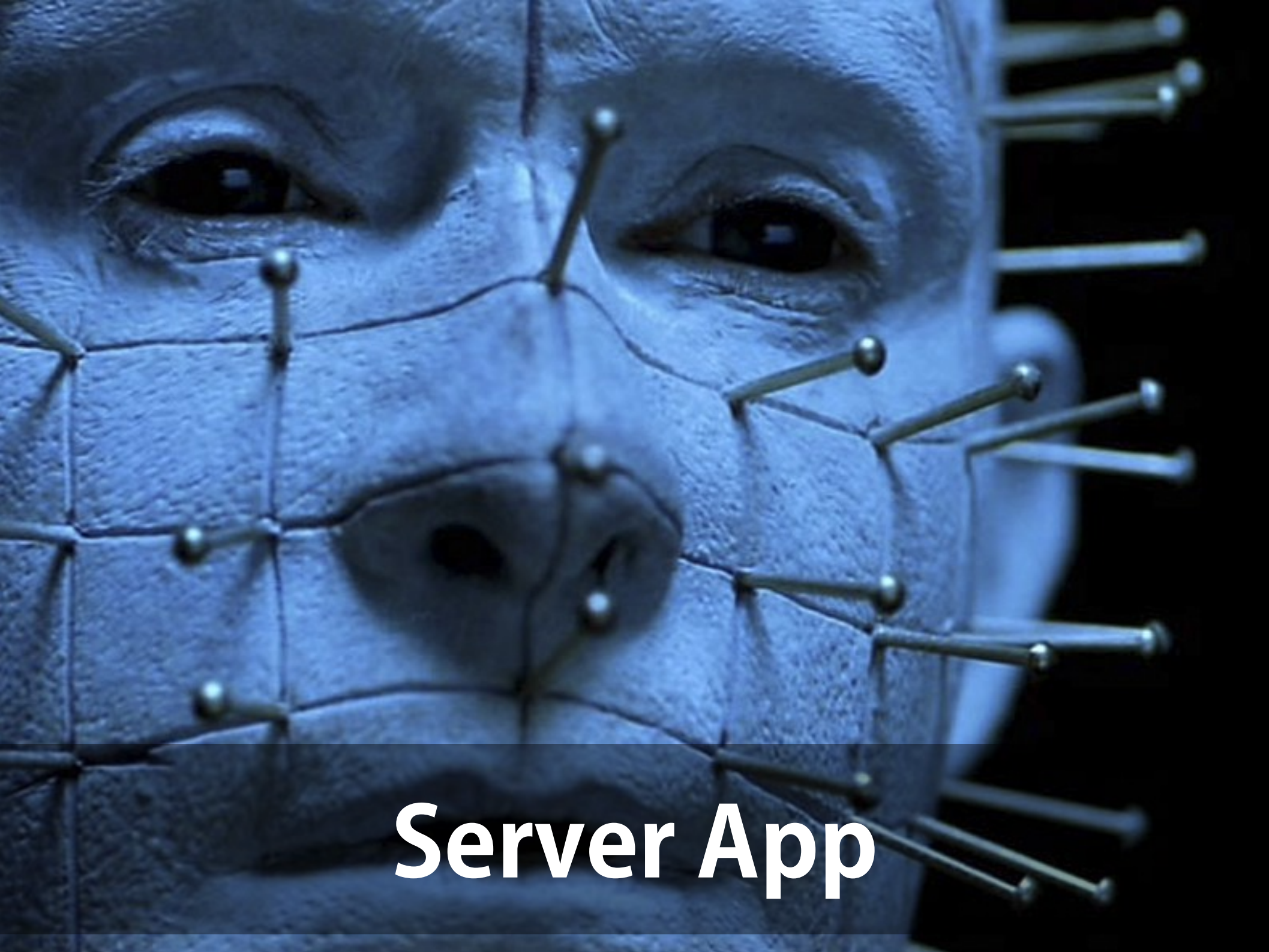


REST URLs

http://host/server/resource/parameter

✓ 200 OK

✗ 400 Bad Request



Server App



Views

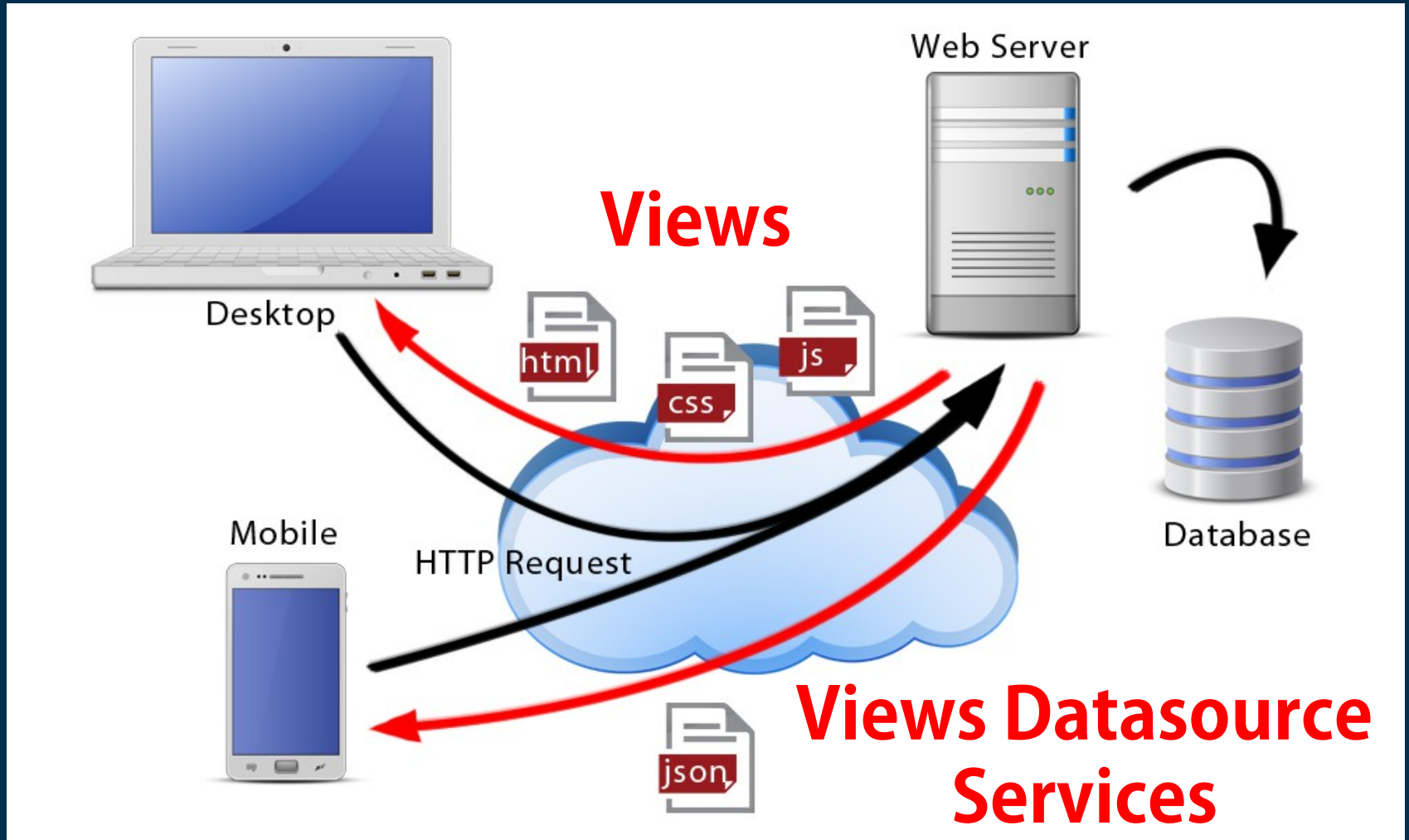
Views Datasource

Services





App Structure





Views Datasource



Views Datasource

Displays

Page [+ Add](#)

▼ **Page details**

Display name: Page

TITLE
Title: Businesses
FORMAT
Format: JSON data document Settings
FIELDS add ▼
Content: Title
Content: Logo
Content: Latitude
Content: Longitude
Content: Address

PAGE SETTINGS
Path: /businesses
Menu: No menu
Access: Permission View
HEADER
FOOTER
PAGER
Use pager: Display all items
More link: No



JSON Format

Businesses

```
{
  "nodes" : [
    {
      "node" : {
        "title" : "Luigi's Restaurant",
        "field_logo" : "sites/default/files/luigis.jpg",
        "field_latitude" : "38.100259",
        "field_longitude" : "-8.037359",
        "field_address" : "Little Italy"
      }
    },
    {
      "node" : {
        "title" : "The Android's Dungeon",
        "field_logo" : "sites/default/files/android.jpg",
        "field_latitude" : "38.133792",
        "field_longitude" : "-6.284128",
        "field_address" : "Springfield",
      }
    }
  ]
}
```





Services



REST Server

REST

Response formatters *

bencode

json

jsonp

php

rss

xml

Select the response formats you want to enable for the rest server.

Request parsing *

application/json

application/vnd.php.serialized



hook_services_resources

```
/**
 * Implements hook_services_resources()
 */
function twittalicious_services_resources() {
  return array(
    'chart' => array(
      'retrieve' => array(
        'help' => 'Demo chart with random data in JSON',
        'file' => array(
          'file' => 'twittalicious.inc',
          'module' => 'twittalicious',
          'type' => 'inc',
        ),
        'callback' => '_twittalicious_chart_json',
        'access callback' => '_twittalicious_resource_access',
        'access arguments' => array('demo'),
        'args' => array(
          array(
            'name' => 'name',
            'type' => 'string',
            'description' => 'The name of the chart',
            'source' => array('path' => '0'),
            'optional' => TRUE,
          ),
        ),
      ),
    ),
  ),
}
```





REST Resources

- ▶ taxonomy_term
- ▶ taxonomy_vocabulary
- ▶ user
- ▶ services_test
- ▼ chart

CRUD operations

- retrieve
Displays a demo chart with random data in JSON format



Mobile App



jQuery Mobile

PhoneGap





jQuery Mobile



jQuery.getJSON

```
$.getJSON("http://twittalicious.com/rest/graph/reputation", function(data)
{
  data.chart.chart.renderTo = "reputation-container-portrait";
  data.chart.chart.width = chart_width_portrait;
  data.chart.chart.height = chart_height_portrait;
  var portraitChart = new Highcharts.Chart(data.chart);
});
});
```





jQuery.post

```
var user = $('#username').val();
var pass = $('#password').val();

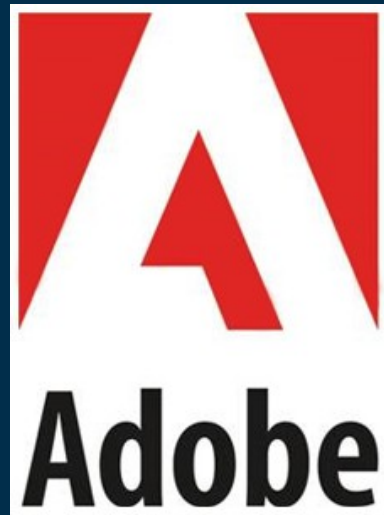
$.post("http://twittalicious.com/rest/user/login",
{ "username": user, "password": pass},
function(data) {
    console.log("Login successful");
}, "json");
```



PhoneGap

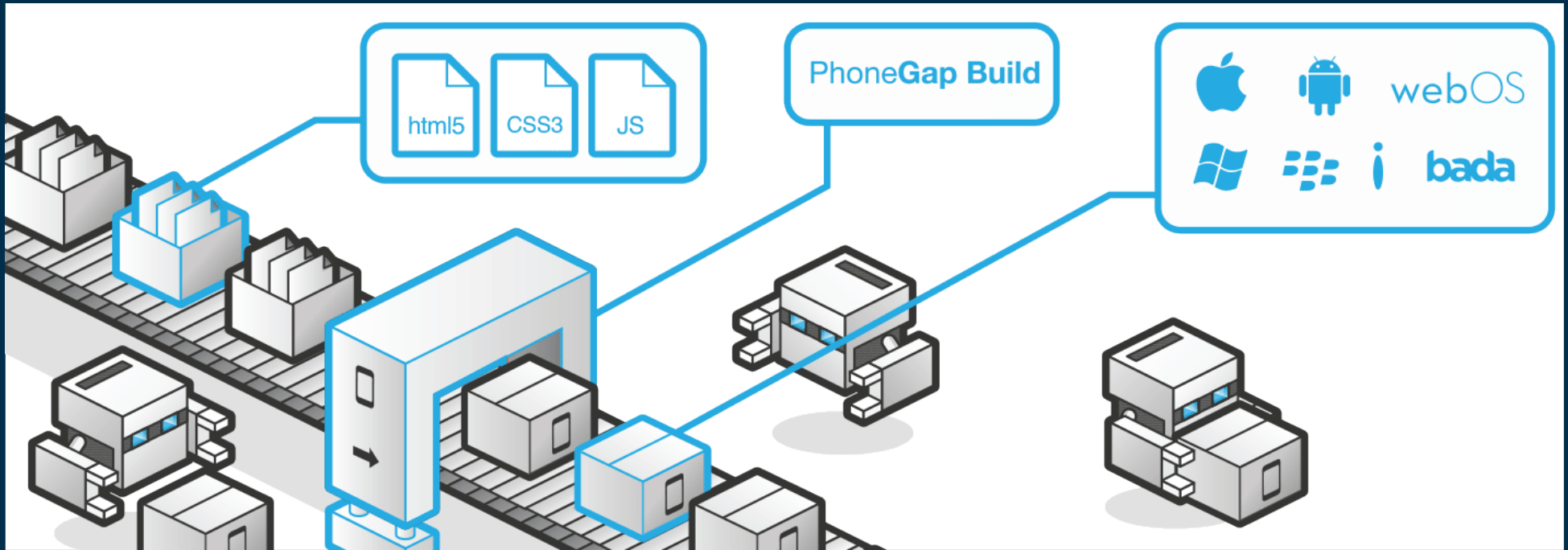


PhoneGap = Cordova





App Build

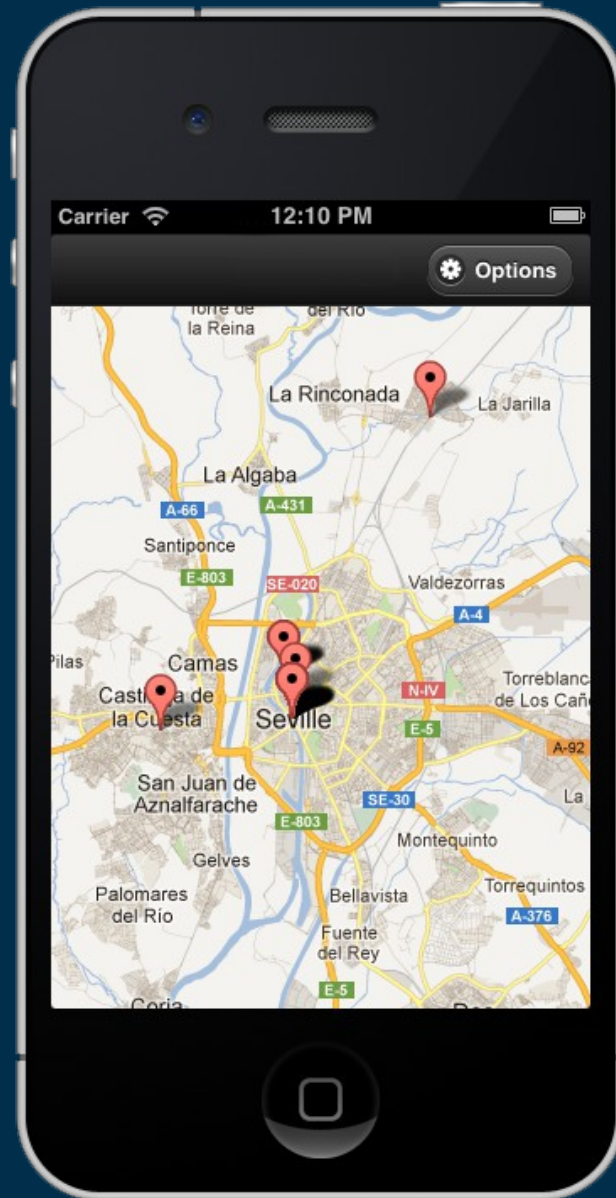


Source: build.phonegap.com





iPhone Application



Questions?



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