The story behind PF2014

http://pf2014.sinusgear.com

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Creativity is just connecting things.

- Jobs
Motivation

Create something new

Learn something new

Do something new
PF 2010
PF 2011
PF 2012

HTML5 Canvas
PF 2013

Webfonts
PF 2014?

Mobile

Touch
Apache Cordova
Install NodeJS
Install Cordova

```
PS C:\idea> npm install -g cordova
```

16 Dec 2013 » Apache Cordova 3.3.0

On Friday, Cordova 3.3 went live on npm. Woohoo!

This release brings with it initial support for Ubuntu Touch as well as Amazon Fire.

To upgrade: (replace android with the platform you want to update):

```
npm install -g cordova
cd my_project
cordova platform update android
```
Create project

Create the App

Go to the directory where you maintain your source code, and run a command such as the following:

```bash
$ cordova create hello com.example.hello HelloWorld
```
Add platform

Add Platforms

All subsequent commands need to be run within the project's directory, or any subdirectories within its scope.

Before you can build the project, you need to specify a set of target platforms. Your ability to run these commands depends on whether your machine supports each SDK, and whether you have already installed each SDK. Run any of these from a terminal window:

```
$ cd hello
```
Build

Build the App

By default, the cordova create script generates a skeletal web-based application whose home page is the www/index.html file. Edit this application however you want, but any initialization should be specified as a prevent handler, referenced by default from www/js/index.js.

Run the following command to iteratively build the project:
Emulate - AVD Manager
Import to Idea
Correction of modules
Run/Emulate from Idea
Logs
Cordova project structure

- platforms
  - android
  - ios
- plugins
- www (edit code here)
Testing in browser
HTML5 Canvas - EaselJS

A Javascript library that makes working with the HTML5 Canvas element easy.
performance: Caching demo - 2 FPS - Samsung Galaxy S
worse tooling than HTML :-(

Problems
Constellations
Tracing Paper tool

http://tp.sinusgear.com
Display stars

```html
<i class="positionMarker fa fa-star"
   data-index="${$index}" 
   ng-repeat="item in visibleStars"
   ng-style="getStarStyle(item)">
</i>
```
Font Awesome
THE ICONIC FONT DESIGNED FOR Bootstrap

Download

http://fontawesome.io/
Use Font Awesome in Cordova

```html
<title>PF 2014</title>
<link href="css/font-awesome-4.0.3/css/font-awesome.min.css" rel="stylesheet">
```
Drag the star

Angular-drag-drop, Angular-touch

```javascript
angular.module('app', ['ngTouch', 'ngDragDrop'])
  .controller('ConstellationController',...)
```
Drag’n’drop

jQuery-ui - animation
drag by mouse
No Canvas?

How to draw a line?!
Div + CSS3

.line {
  width: 100px;
  height: 2px;
  transform: rotate(120deg);
  background: lightyellow; 
...
AngularJS dynamic style

```html
<div class="line"
    ng-repeat="line in visibleLines" ng-style="getLineStyle(line)"
>
</div>
```
Chrome Developer Tools - F12
Get on the bleeding edge of the web

Google Chrome Canary has the newest of the new Chrome features. Be forewarned: it's designed for developers and early adopters, and can sometimes break down completely.

Download Chrome Canary

For Windows 8/7/Vista/XP
Mobile device emulation
Hups!

Drag’n’drop does not work on mobile!
Event mapping override

```javascript
switch(event.type)
{
    case "touchstart": type = "mousedown"; break;
    case "touchmove": type = "mousemove"; break;
    case "touchend": type = "mouseup"; break;
    default: return;
}
```
Persisting game state
Angular local storage

```javascript
angular.module('app', ['ngTouch', 'ngDragDrop', 'LocalStorageModule'])
  .controller('ConstellationController', function($scope, $timeout, $window, $locale, localStorageSyncService) {
    $scope.storeConfiguration = function() {
      if (!localStorageSyncService.isSupported) {
        return;
      }
      localStorageSyncService.add('levelLock', $scope.levelLock);
    };
  });
```
Going mobile

Android App on Google Play

Available on the App Store

Windows Phone

Available at Amazon Appstore for Android
https://play.google.com/apps/publish
Registration: 25$
- one time payment for developer
Signed APK
Prepare and publish

https://play.google.com/apps/publish
Review ~ 1 day
Going live
Analytics
http://developer.apple.com
Registration: 99$ / year
Approved bank account: ~2 days
How to play:

Select level:

1  2  3

Locked
Build: only Mac OS X
- requires: XCode
- sign by valid Apple certificate
Review: 5-7 days
http://www.windowsphone.com/
Registration: 19$/year
Build: WP8 requires Windows 8
https://developer.amazon.com/home.html

Registration: free
Review: ~1 day
Touch Stars - PF2014
by SinusGear
Platform: Android  Rated: All Ages
Be the first to review this item

Price: $0.00  Price inclusive of VAT if applicable.

Available instantly for your Android device
PF 2014 summary

Web: 188 visits
Google Play: 25
Amazon: 6
Apple App Store: 0, still waiting for approval

Campaign channels: Mail, Skype, Google+
Grab the source code :-)

https://github.com/georgik/pf2014
Share and enjoy


PF 2013: http://georgik.sinusgear.com/2012/12/22/pf-2013/

