



# Introduction to Cordova

BY CHRISTOFFER BJERREGAARD

# Who am I?

- ▶ Christoffer Bjerregaard
- ▶ 27 years old
- ▶ Web developer @ Webitall ApS
- ▶ Graduated in Multimedia Design and Computer Science
- ▶ Currently studying PBA Software Development
- ▶ Used Cordova for around 1 year

# What is Cordova?

- ▶ Free and Open Source!
- ▶ Easy to use and get started
- ▶ Provides API's for your device.
- ▶ You can create your own plugins

# What is it used for?

- ▶ Making cross platform mobile applications
- ▶ Some browser / desktop applications

# Why use Cordova?

- ▶ Don't need to know native code
- ▶ Fast prototyping.
- ▶ Extendable with plugins

# What do I need to know or learn?

- ▶ Web technologies
  - ▶ HTML / 5
  - ▶ CSS / LESS / SASS
  - ▶ JavaScript
- ▶ Web frameworks (Javascript MV frameworks)
  - ▶ <http://todomvc.com/>

# What do I need to use?

For a local build environment

- ▶ Node JS / NPM - <https://nodejs.org/en/>
- ▶ Cordova cli - <https://cordova.apache.org/>
- ▶ Any IDE capable of opening HTML,CSS and JS files
  - ▶ Webstorm, Visual Studio, Atom, Notepad ++
- ▶ For Android
  - ▶ Any PC
  - ▶ Java development kit, Apache Ant, Android SDK
- ▶ For IOS
  - ▶ A mac
  - ▶ Xcode + developer images

# Building

- ▶ Locally
  - ▶ Pro's
  - ▶ Cons
- ▶ Remotely
  - ▶ Pro's
  - ▶ Cons



# What do I need to use?

- ▶ Locally
  - ▶ Cordova CLI
- ▶ Remotely
  - ▶ Phonegap build
  - ▶ Ionic build

# Console commands for a local environment.

- ▶ `cordova create [AppName]`
- ▶ `cordova platform add [Platform]`
- ▶ `cordova plugin add [Url, Packagename or Git uri]`
- ▶ `cordova prepare`
- ▶ `cordova build`
- ▶ `cordova run [Platform]`

# Debugging

- ▶ Gapdebug
- ▶ Logcat

# My app is boring! How do I make it fun?

- ▶ Explore open API's
  - ▶ Mashape
- ▶ Build something you think is fun
  - ▶ Build your own API and use it

# My app is ugly! How do I make it look awesome?

- ▶ Use a UI framework!
  - ▶ Ionic
  - ▶ OnsenUI
  - ▶ KendoUI
- ▶ But I want to style it myself?
  - ▶ You can, but it's tough

# Demo!

- ▶ App and Gapdebug

# Resources

- ▶ Tools

- ▶ <http://cordova.apache.org/>
- ▶ <https://build.phonegap.com>

- ▶ Open API's

- ▶ <https://market.mashape.com>
- ▶ <http://labs.rejseplanen.dk/api>
- ▶ <https://restcountries.eu/>

# Resources

- ▶ Frameworks

- ▶ <https://angularjs.org/>
- ▶ <http://ionicframework.com>
- ▶ <http://onsen.io/>
- ▶ <http://ngcordova.com/>

- ▶ Plugins demoed (documentation):

- ▶ <https://www.npmjs.com/package/cordova-plugin-camera>
- ▶ <https://www.npmjs.com/package/cordova-plugin-device-orientation>



# Resources

- ▶ Android
  - ▶ Java SDK
    - ▶ <http://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html>
  - ▶ SDK
    - ▶ <https://developer.android.com/sdk/index.html#Other>
  - ▶ Ant
    - ▶ <http://ant.apache.org/bindownload.cgi>
- ▶ Install and add them to your PATH variables.

# Resources

- ▶ Prototyping

- ▶ <https://creator.ionic.io/>