

LECTURE 2

HELLO WORLD AND DESTROY

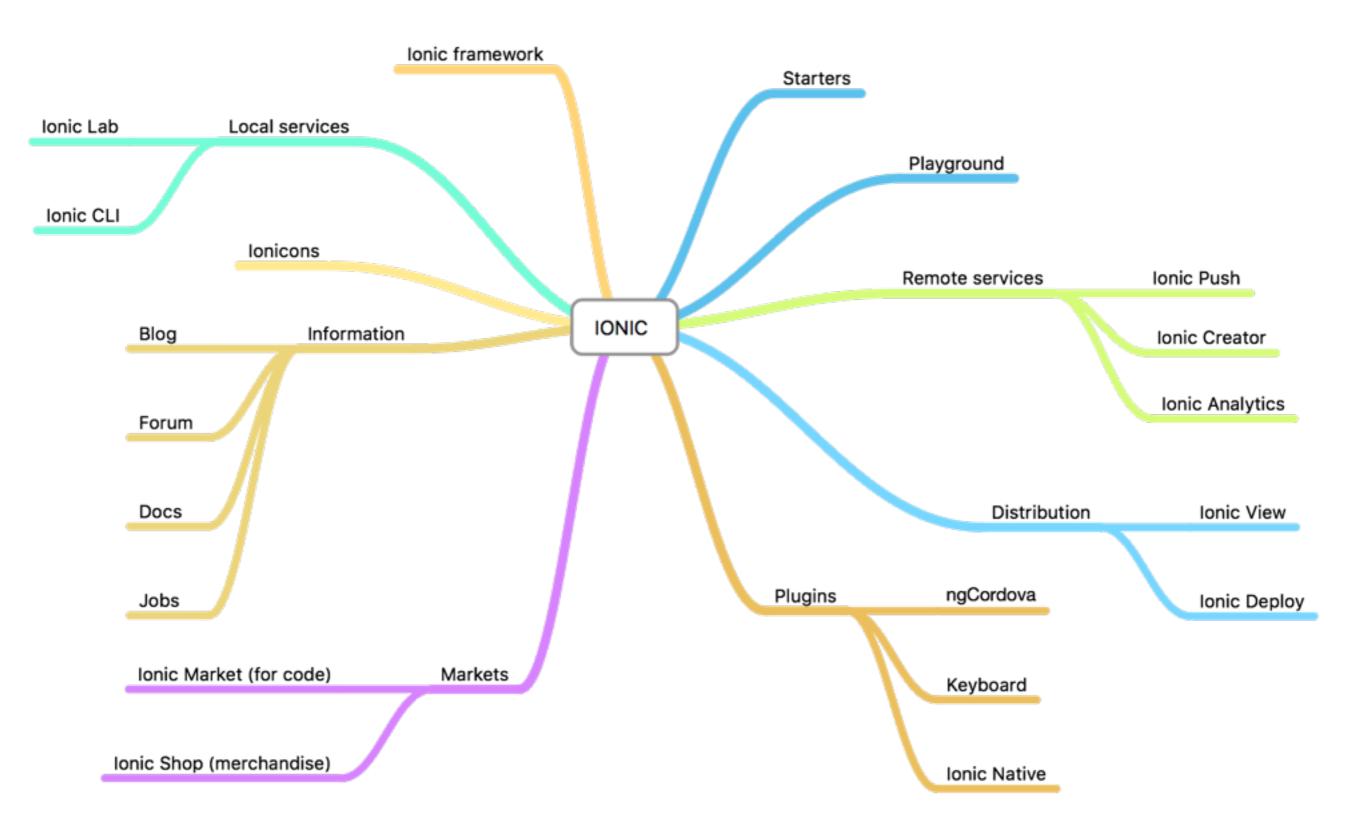
DANIEL RYS JAN VÁCLAVÍK

OVERVIEW

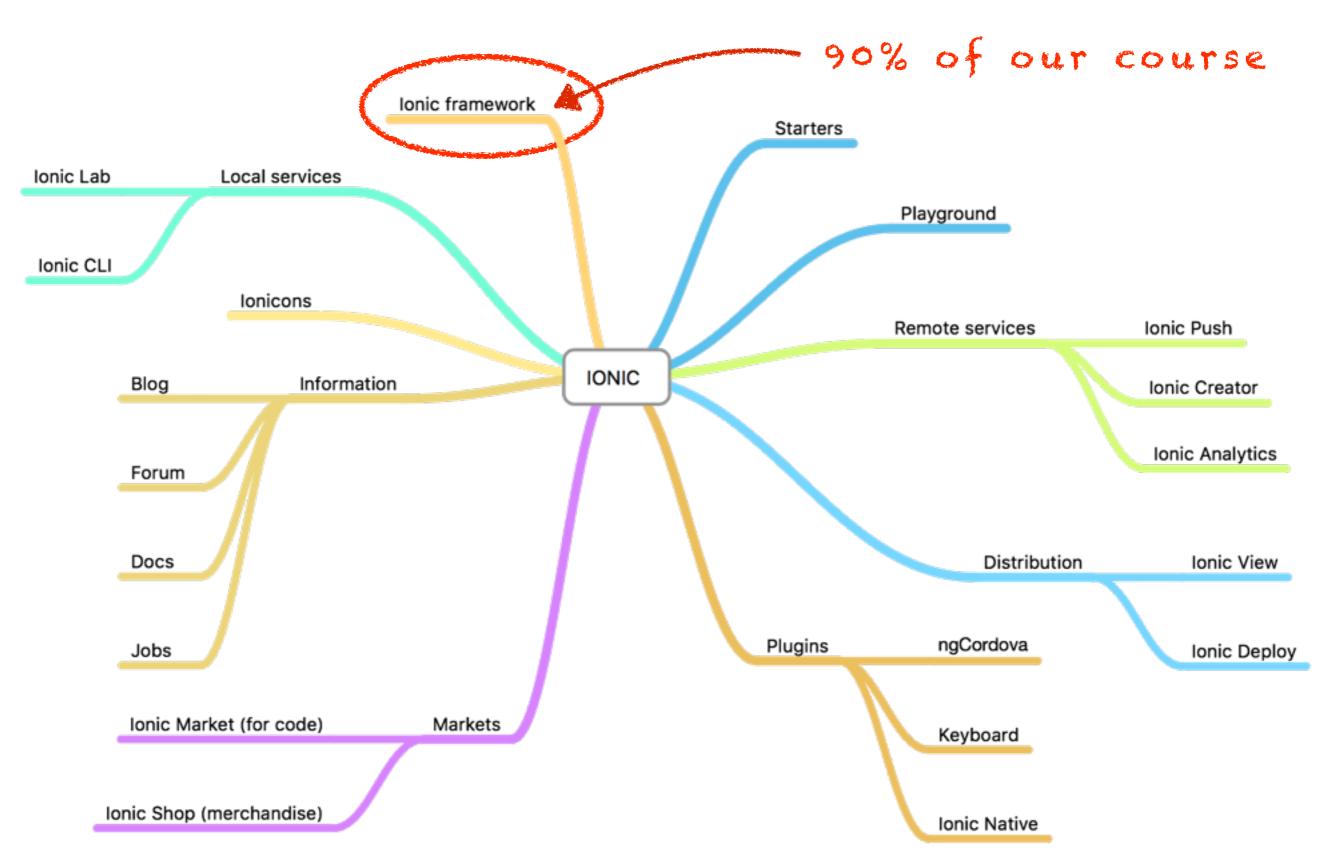
- What is Ionic
- How does a mobile applications work
- Create basic project
- Dev tools (Chrome, Safari)
- Deploy on device
 - Via cabel
 - Remotely

WHAT IS IONIC?

WHAT IS IONIC?



WHAT IS IONIC?



HOW DOES A MOBILE APPLICATION WORK?

Mobile API's

- Sensors (Gyroscope, Accelerometer,...)
- Interactions (Touch, Keyboard,...)
- Services (Notifications, Camera,...)

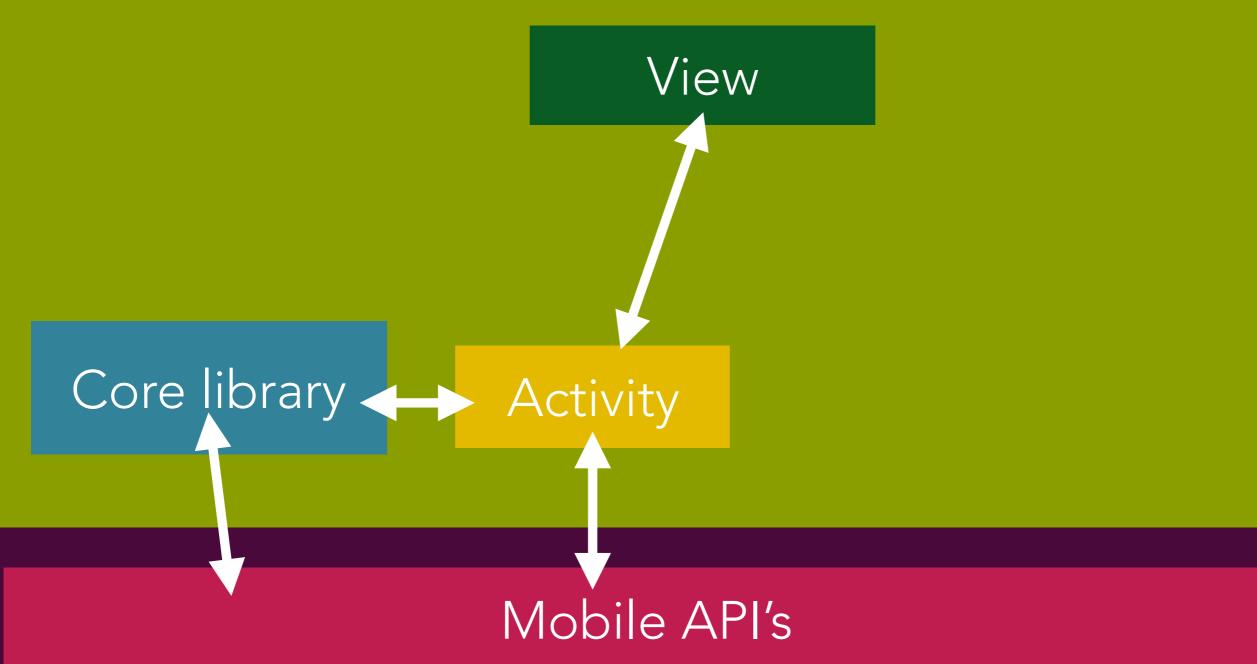
ANDROID OS

Activity

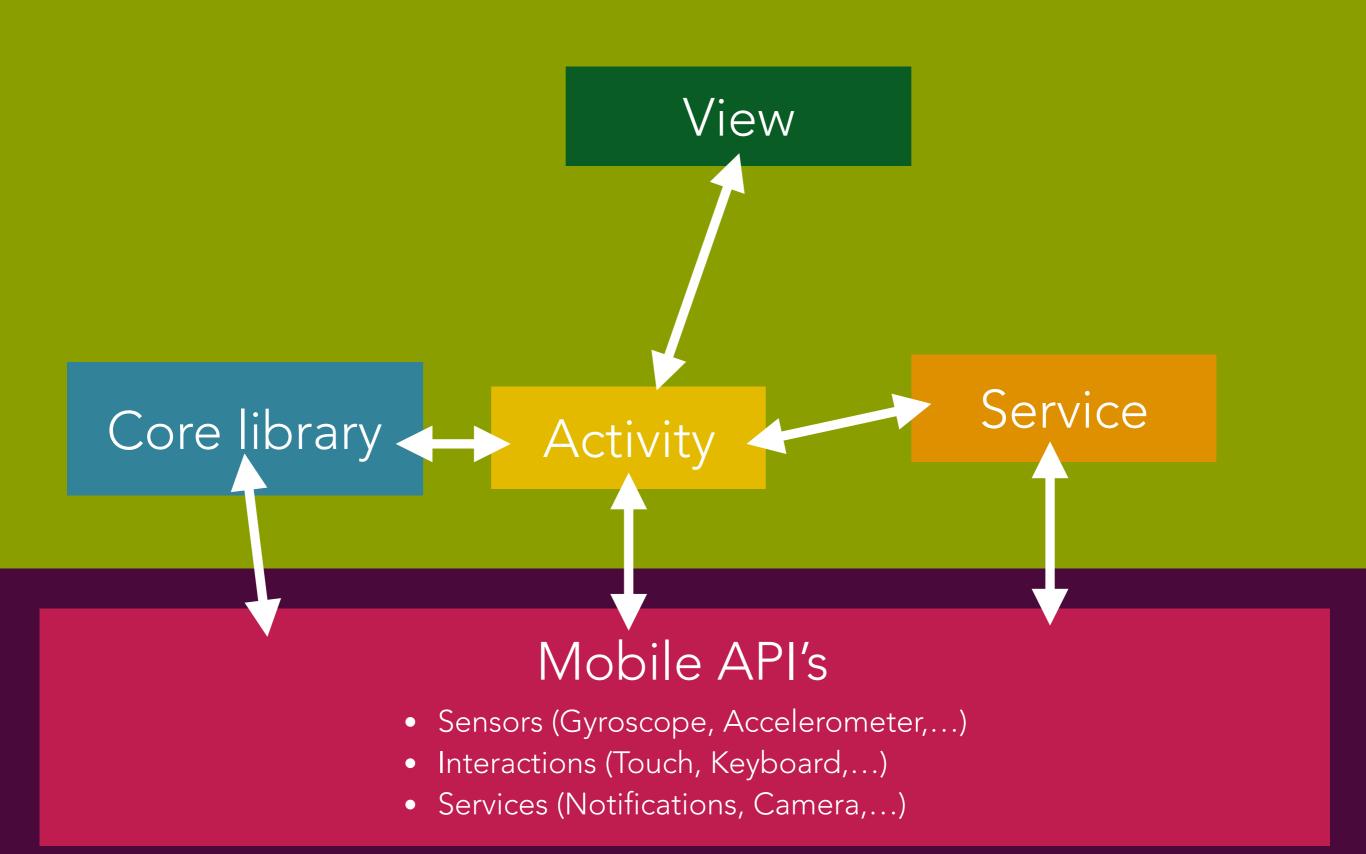
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- Interactions (Touch, Keyboard,...)
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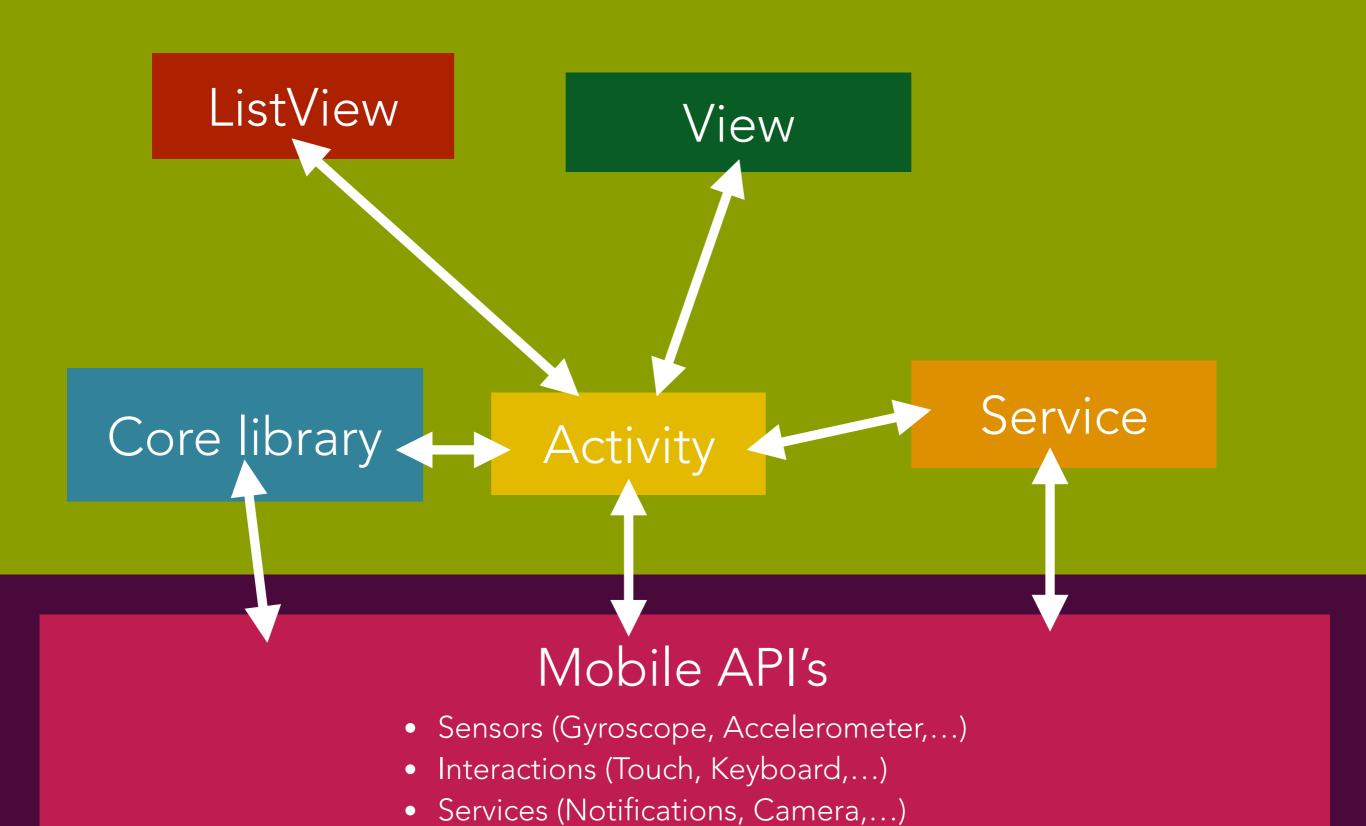


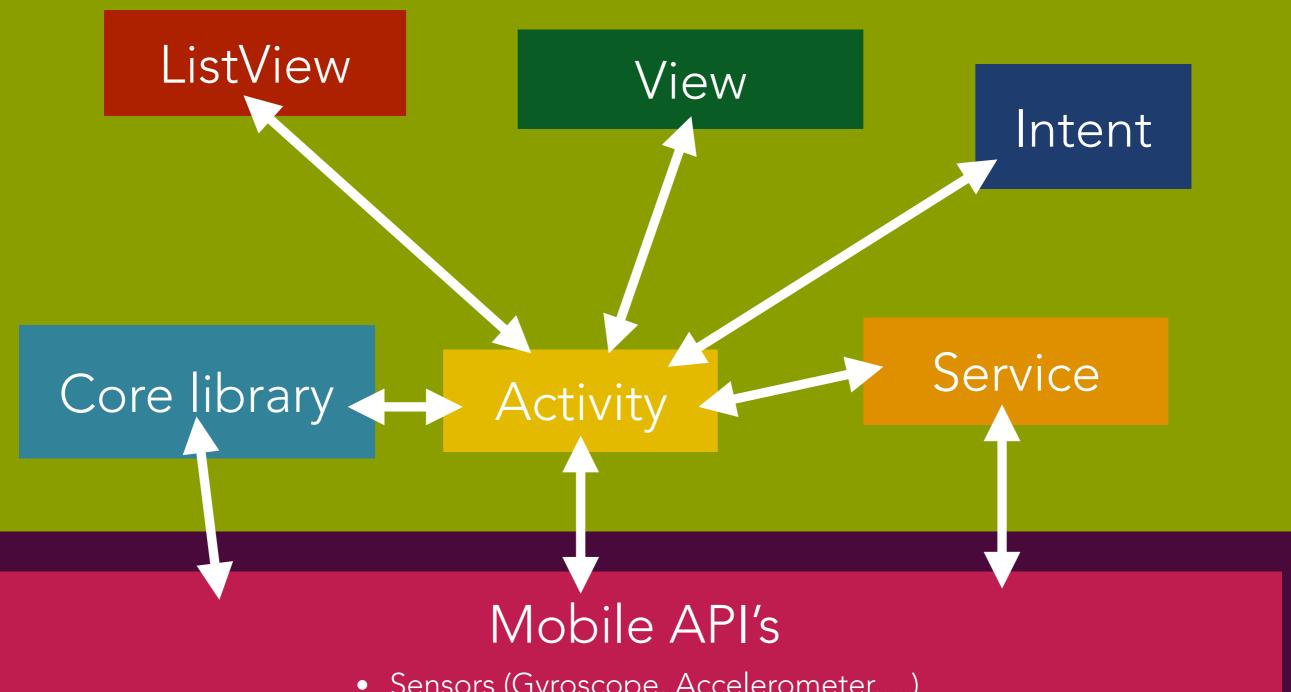
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ListView

View

Intent

WHAT IF WE USE CORDOVA?

- Sensors (Gyroscope, Accelerometer,...)
- Interactions (Touch, Keyboard,...)
- Services (Notifications, Camera,...)

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WebView

- Sensors (Gyroscope, Accelerometer,...)
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Web application

HTML, CSS, JS (+ Ionic Framework)

WebView

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Web application

HTML, CSS, JS (+ Ionic Framework)

WebView

Cordova plugins

- File
- Notifications
- Camera
- ...

- Sensors (Gyroscope, Accelerometer,...)
- Interactions (Touch, Keyboard,...)
- Services (Notifications, Camera,...)

CREATE BASIC PROJECT

```
$ cd ~/my-ionic-projects/
$ ionic start my-first-app tabs
```

Navigate to your folder where you want to place project

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$ ionic start my-first-app tabs
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$ cd ~/my-ionic-projects/
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```

App name (dir name)

Navigate to your folder where you want to place project

```
$ cd ~/my-ionic-projects/
$ ionic start my-first-app tabs
```

App name (dir name)

Starter template

RUN SERVER

```
$ cd my-first-app
$ ionic serve
```

RUN SERVER

Navigate to project folder

```
$ cd my-first-app
$ ionic serve
```

RUN SERVER

Navigate to project folder

```
$ cd my-first-app
$ ionic serve [--lab]
```

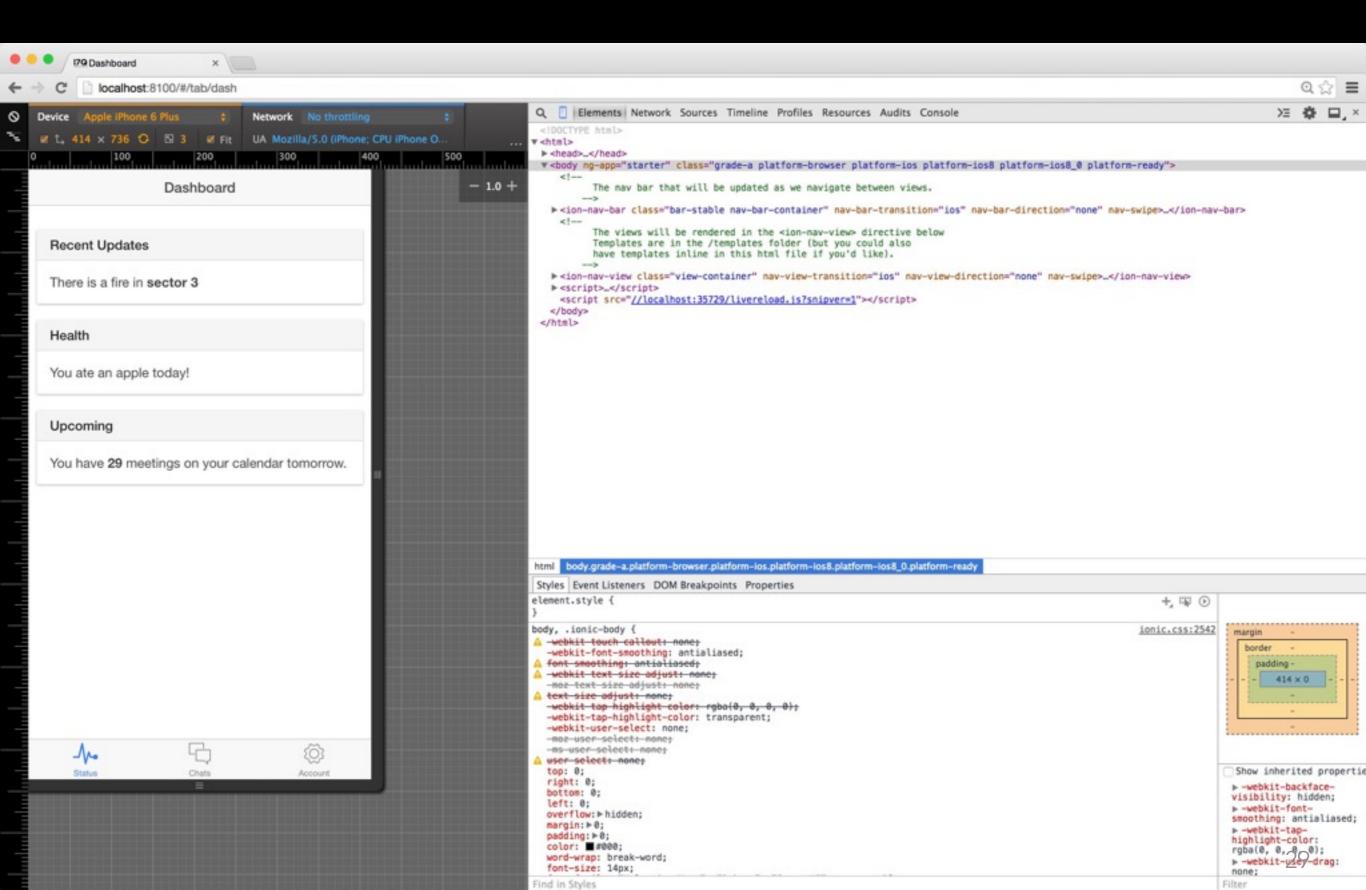
Start server

BROWSERS

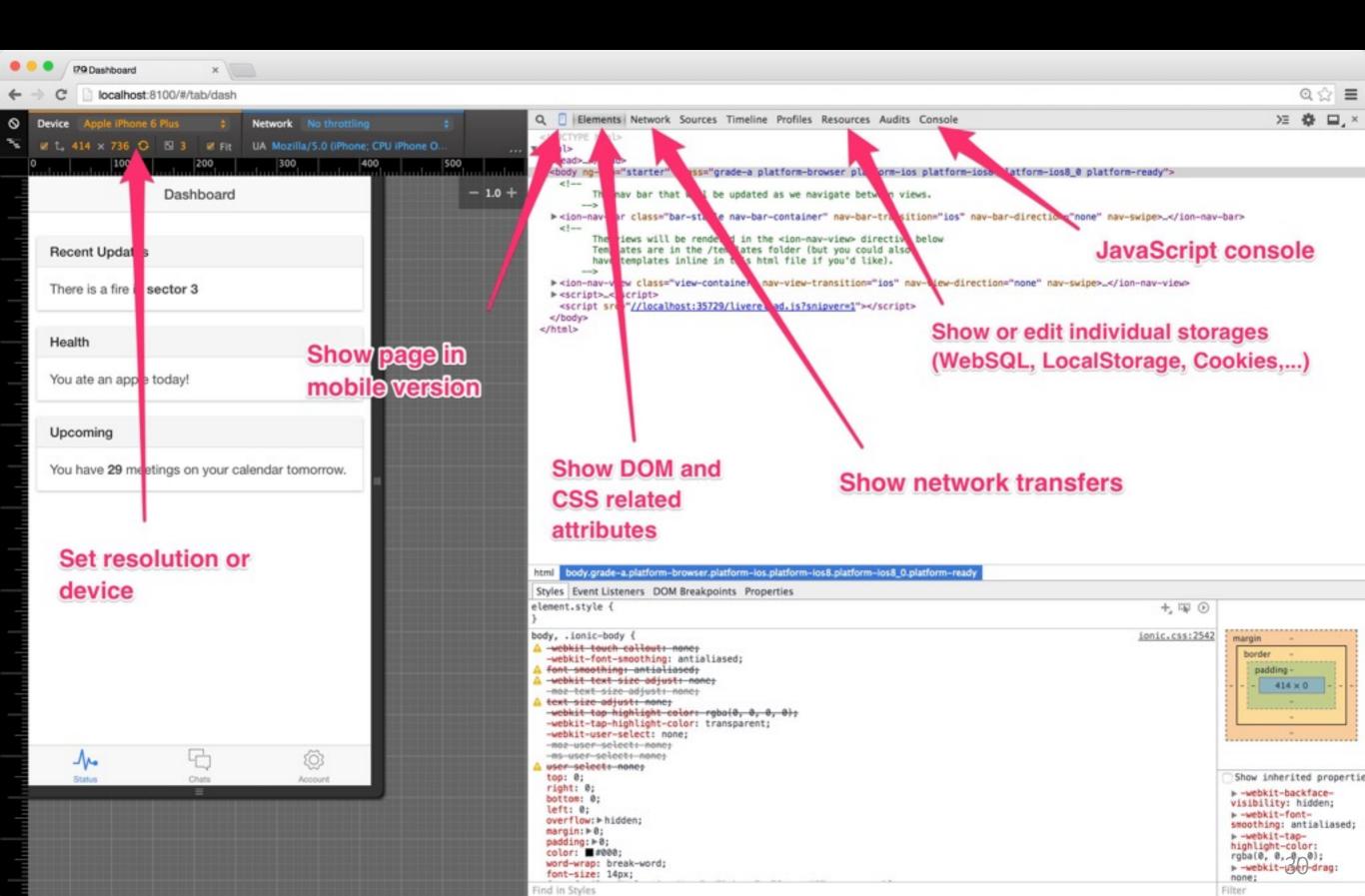
- No Internet Explorer
- No Firefox
- No Safari
- Use Chrome / Chromium

Because of Web-kit and Dev Tools

VOILÁ



CHROME DEV TOOLS



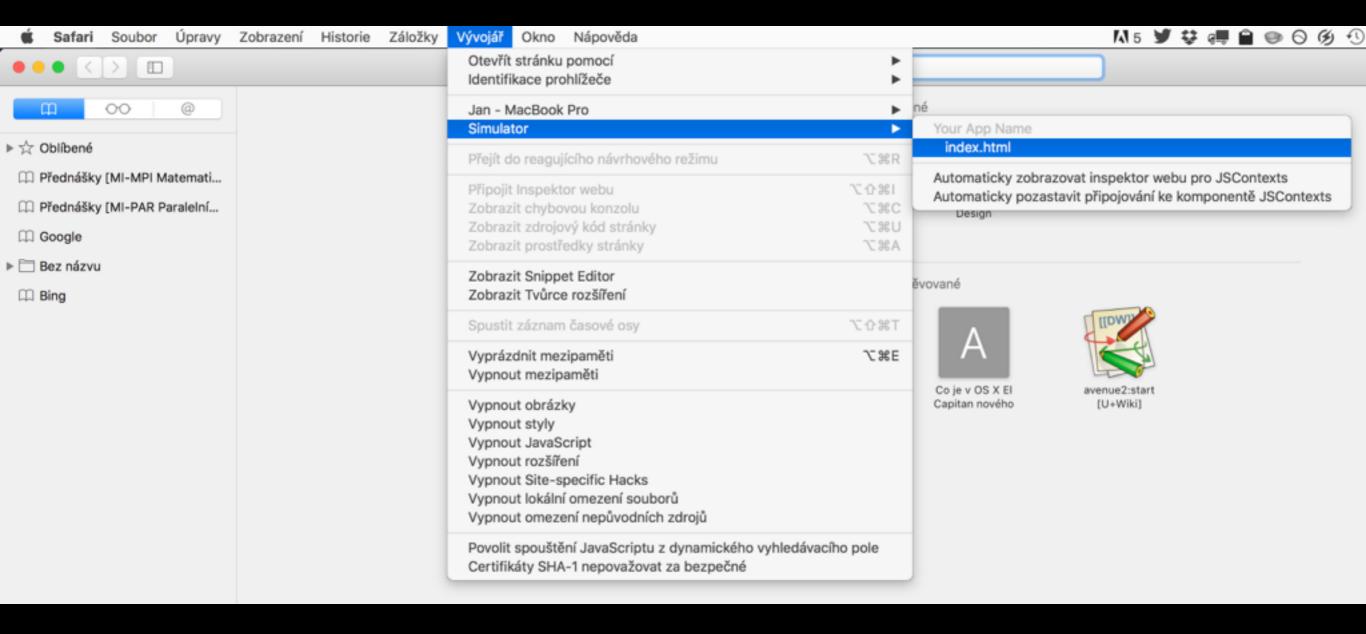
CHROME INSPECT ON DEVICE

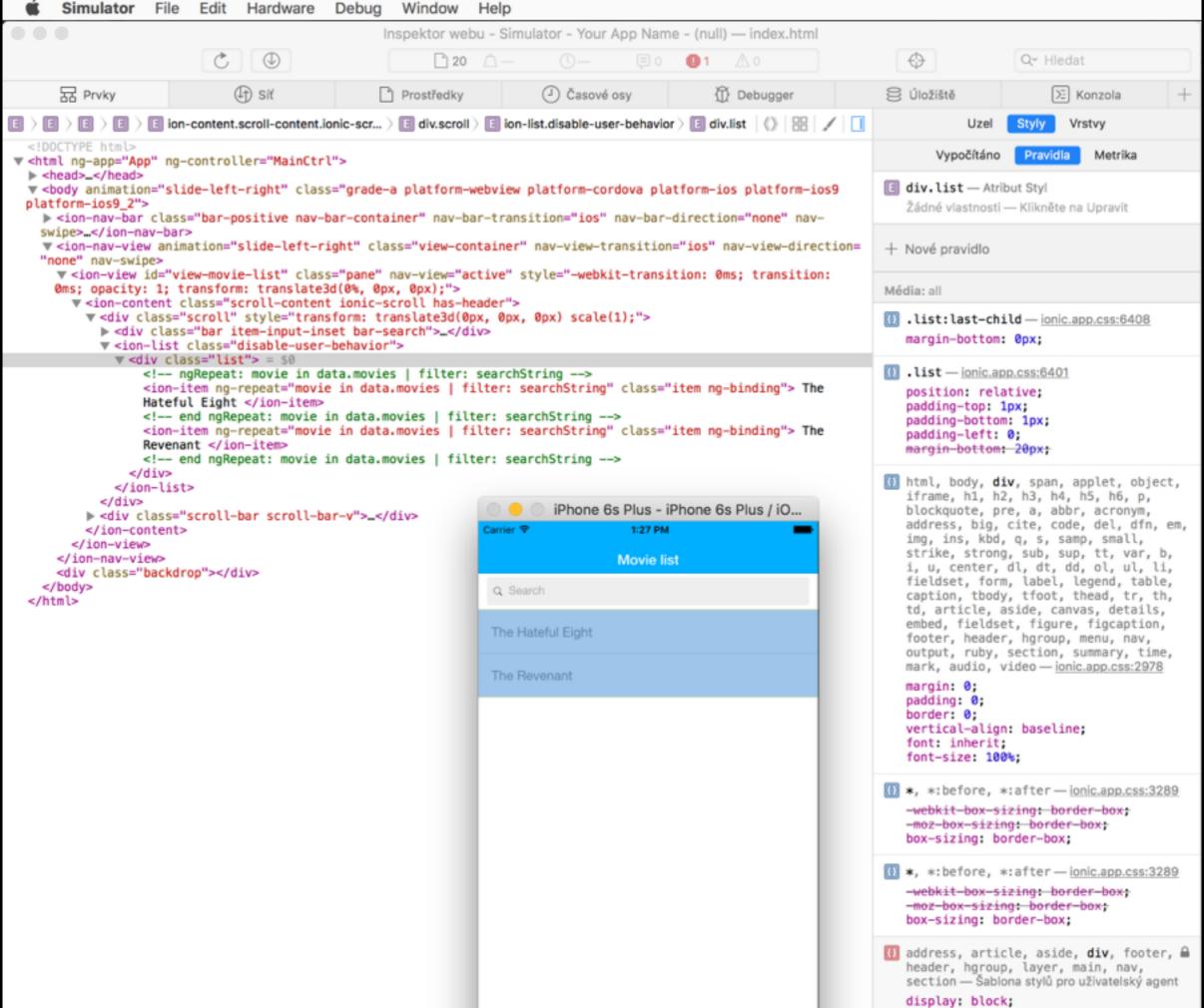
chrome://inspect/#devices

SAFARI DEVELOPER TOOLS

- 1. Safari Preferences
- 2. "Advanced tab".
- 3. Click "Show Develop menu in menu bar."

SAFARI INSPECT ON DEVICE





CORDOVA CONFIG

config.xml

```
1 <?xml version="1.0" encoding="UTF-8" standalone="yes"?>
    2 <widget id="com.ionicframework.example" version="0.0.1" xmlns="http://
www.w3.org/ns/widgets" xmlns:cdv="http://cordova.apache.org/ns/1.0">
       <name>Your app name
    3
       <description>
    4
         An Ionic Framework and Cordova project.
    5
       </description>
    6
       <author email="hi@ionicframework" href="http://ionicframework.com/">
          Ionic Framework Team
   8
    9
       </author>
       <content src="index.html"/>
  10
        <access origin="*"/>
  11
       cpreference name="webviewbounce" value="false"/>
  12
  13
       cpreference name="UIWebViewBounce" value="false"/>
  14
        cpreference name="DisallowOverscroll" value="true"/>
  15
        cpreference name="android-minSdkVersion" value="16"/>
  16
        reference name="BackupWebStorage" value="none"/>
  17
       erence name="SplashScreen" value="screen"/>
   18
        ference name="SplashScreenDelay" value="3000"/>
        reference name="Orientation" value="landscape"/>
  19
       erence name="target-device" value="tablet"/>
   20
   21
       <feature name="StatusBar">
          <param name="ios-package" value="CDVStatusBar" onload="true"/>
   22
   23
       </feature>
   24 </widget>
```



ADD PLATFORMS

\$ cordova platform add android

or

\$ cordova platform add ios

ADD PLATFORMS

\$ cordova platform add android

or

\$ cordova platform add ios

iOS only for Mac OS X

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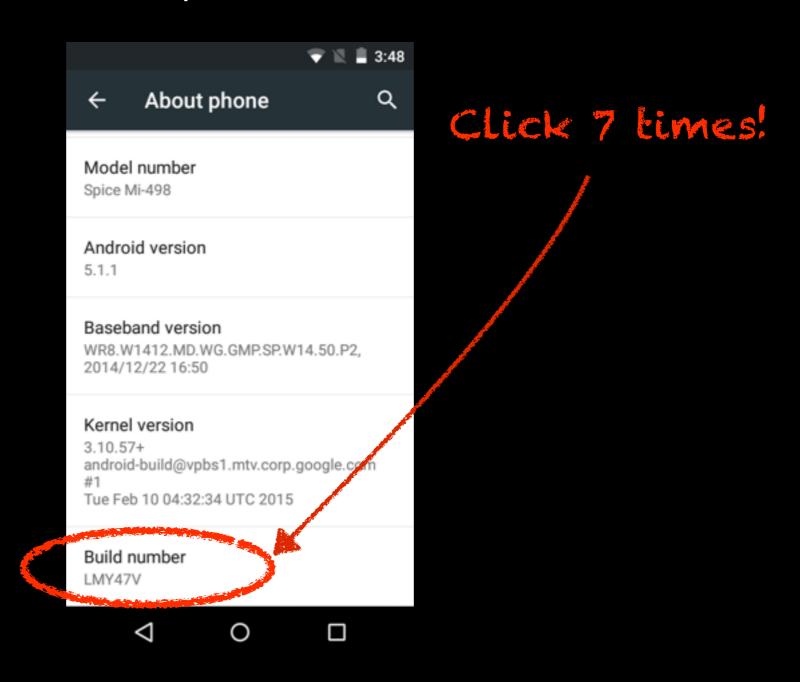
TWO WAYS FOR DEPLOYING APPS ON DEVICE

Via cable

Remotely
Ionic View

ENABLE DEVELOPER MODE

Settings > About phone > Build number



Source: www.androidpure.com

CONNECT DEVICE

Check devices (Android only)

List of devices attached

GII7D6RGR8Y9TSS4 device

\$ adb devices

RUN ON DEVICE VIA CABLE

\$ cordova run android

or

\$ cordova run ios

GET LOGS FROM DEVICE

(Android only)

```
$ adb logcat
$ adb logcat | grep "Web Console"
$ adb logcat | grep "Chromium"
$ adb logcat | grep "Exception"
```

RUN REMOTELY VIA IONIC VIEW

SIGN UP TO IONIC.10

https://apps.ionic.io/signup

UPLOAD YOUR APP

```
$ ionic login // Needed only once
$ ionic upload
```

SHARE WITH TESTERS

Sending app invite for others

\$ ionic share space@director.com

DOWNLOAD **IONIC VIEW**ON YOUR DEVICE









IONIC CREATOR

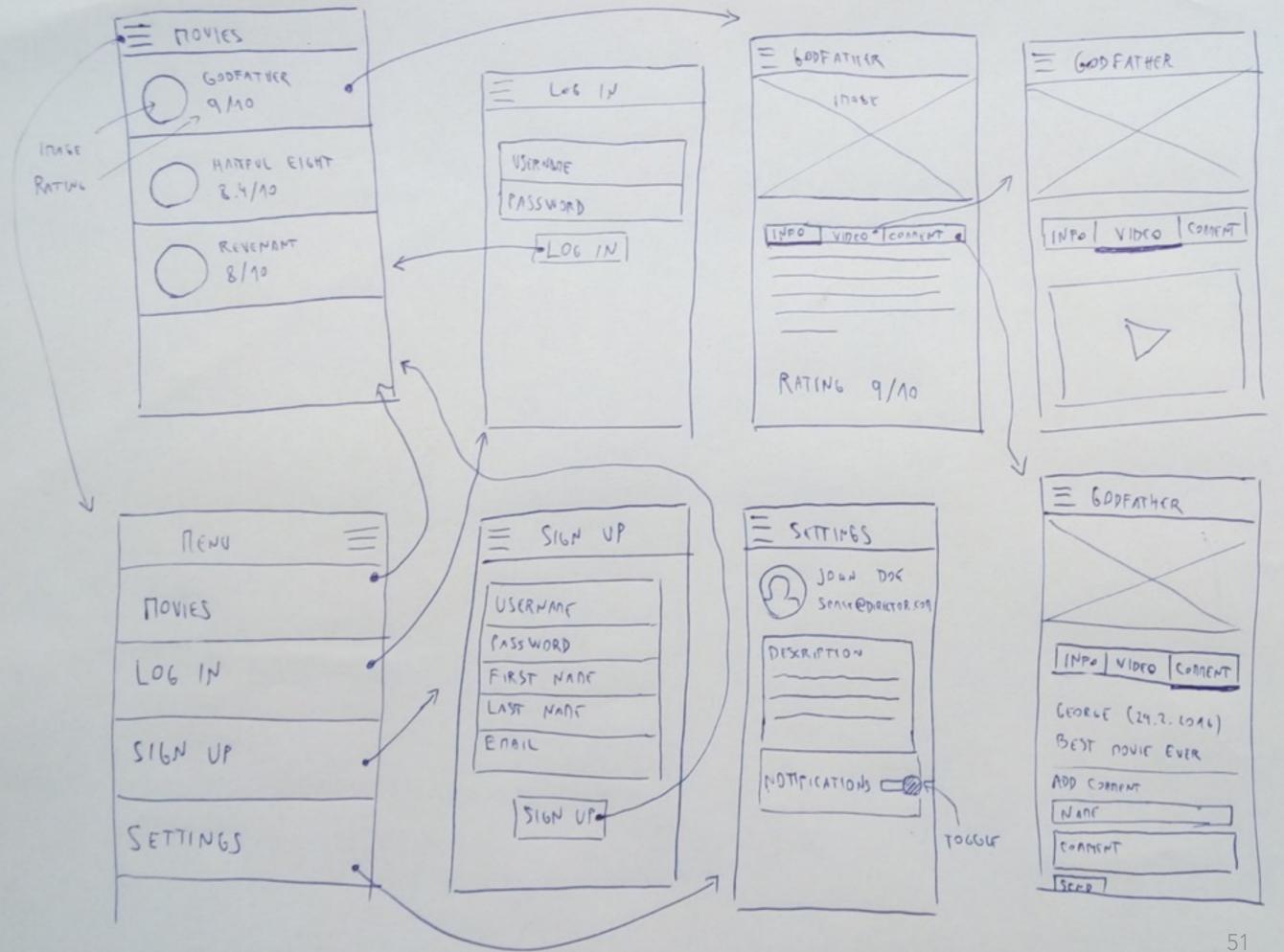
- For fast prototyping
- Exports prototypes directly to the code

creator.ionic.io

HOMEWORK

Create prototype with Ionic Creator

Assignment https://goo.gl/guAstQ



QUESTIONS?



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