"About Me" App Intel XDK

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Ways to Make an App

- Native App Development
 - Android: Java programming
 - Android SDK on Windows, Mac, or Linux
 - iOS: Objective-C
 - Xcode on Mac only
 - Windows, Blackberry, Nook, Kindle...
 - Fast
 - Pretty, and pretty consistent to target platform
 - Deployment in app stores
 - Apple App Store
 - Google Play

Ways to Make an App

- Mobile Web Apps
 - Web pages designed to work like apps
 - Restricted hardware access (no accelerometer, camera, etc)
 - Utilizes technique called "Responsible Design"
 - Slower
 - You see web "chrome" around app
 - Single UI for each, not platform specific
 - Distributed by URL
 - Not in stores

Ways to Make an App

- Hybrid Apps
 - Write once for web
 - Wrap it in a native app container called a "WebView"
 - Allows access to hardware controls
 - Accelerometer
 - Magnetometer (compass)
 - Camera
 - Alert system (sounds, vibration)
 - No web chrome
 - Downloadable in stores

One app to rule them all

Hybrid Apps

- You can do it manually
 - Write once for web, then write it into wrapper manually in Android+iOS
 - Still very time consuming
- Tools to wrap apps
 - Very popular now
 - PhoneGap one of the first, Adobe
 - Provides publishing tool
 - Cordova Open Source version of PhoneGap
 - Used as the core for most platforms
 - Manual publishing
 - Intel XDK X stands for "Cross Platform"
 - Editor used to write, emulate, test and publish all in one

Today

- We'll use Intel's XDK
- Make a simple "Brochure" App
 - Static content
 - Navigation
- Emulate it in the tool
- Test it on your phone
- Deploy it to Android

Tools

- Intel XDK
 - Free
 - Installed in this lab
 - Free signup required
 - <u>codecrush2014@gmail.com</u>
 - Crush2014!
- Intel's App Preview App
 - For testing on your device
- Fotor.com
 - Free online photo editing tool
- Internet for documentation, HTML/CSS references

Steps for Today

• 1. Start a project in "App Starter"

- Limited functionality
- Great to get started

• 2. Create pages and navigation

- Linking
- Lists
- Footer
- Sidebar

• 3. Fill out content

- Using CSS, HTML to make it pretty
- Add images
- 4. Deploy
 - Explore deployment settings
- 5. Leave with app



Intel XDK

- A few ways to get started
- App Starter
 - Basics. Little control. It's a start.
 - Use this as an introduction to "make something"
 - A little hacking with HTML/CSS required
- App Designer
 - Pretty nice tool to "get started"
 - Supports more features: breakpoints, grid system layout
 - Good if you know Bootstrap, jQueryMobile
 - Video tuts to get started

App Starter



App Designer



App Starter Menus: Pages



App Starter Menus: Elements



App Starter Menus: Nav



App Starter Menus: Tree



1. Start a project

- Sign in using codecrush2014@gmail.com, Crush2014!
- Create app using your name
 - KeeganM
 - ZacF
- Save it to the desktop or your flash drive

2. Create Pages and Nav

- IDs for pages are how you link to them
 - Id: "contact"
 - Link by making an <a href> to it
 - Contact Us
 - The "id" must be unique for your app, and it must be only numbers, letters, and underscores. ("contact_us" is ok; "contact us" is not.)
- Lists: use the list view by changing the Item 1 and href text.
- Footer
 - Click to select your title, icon, and page
 - If you change any page's ID, you will need to come back and update the footer.
- Sidebar requires HTML

```
<h1>Side Nav</h1>
<a href="#main">Home</a>
<a href="#page_family">Family</a>
```

3. Create content

- Fotor.com
 - Super for editing pictures
 - Square pictures are great for web
 - Images must be in the appropriate folder
- Use a container element first to place things
 - Add CSS to align within the container
 - width: 100%; ← This makes the container fill the whole page
 - text-align: center; ← this aligns things in the container to center
 - color: #fefefe; ← This changes the text color for the container
 - Drop an image *into* the container
 - Set the image source properly ← case matters
 - Add "width:75%" to its style/CSS ← Sets the image to "fill" it's container, up to 75%, or ¾ of the container.
- Use HTML/CSS to format and place the rest

4. Deploy

- Explore the deployment settings
- Control the icon, splash page, and app store settings
- Android
 - Free, easy.
- iOS
 - Requires Developer account and certificates

5. Leave with App

- Take your work!
 - Zip/Email it if needed
 - The tool does not SAVE your work in the cloud
- You can import your work at home
 - Sign-in account is only used to do deployment testing
- Have fun!

Resources

- Photo editing online
 - Fotor.com
 - Pixlr.com
- Color Pickers
 - kuler.adobe.com
- HTML/CSS References
 - W3schools.com
 - Code Academy (lessons
- HTML Game Development
 - <u>http://html5gameengine.com/</u>

Extra Fun

- Adding video, maps, or other web widgets
 - Look for embed code:
 - <iframe width="<u>560</u>" height="<u>315</u>" src="//www.youtube.com/ embed/fZ_JOBCLF-I" frameborder="0" allowfullscreen></iframe>
 - Change the width to 100%, and remove the height.
- Linking to email or phone numbers
 - 402 555 5555 or +1 (402) 555-5555
 - Email me!