Week 2 Overview

A Simple App for ILLIAC

On this page:

Video Lectures   Assignments   Time   Tips for Success   Getting and Giving Help

Video Lectures

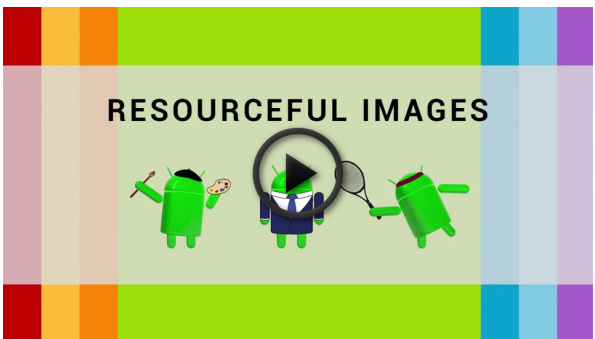| Video Lecture	Key Topics	Transcript	Video Download	SRT Caption File
2.1. Beyond "Hello World"				
(00:25:01)	• Creating a new app • Testing apps on a phone • Logcat messages	≡	⬇ (36.4 MB)	≣

Next Steps for 2.1

For students with their own devices use the following links to set up your Android phone or tablet:

- Using Hardware Devices
- OEM USB Drivers (Windows & Linux users only)

For advanced programmers only:

- Reading and Writing Logs

2.2. Resourceful Images

Video Lecture	Key Topics	Transcript	Video Download	SRT Caption File
RESOURCEFUL IMAGES (00:29:40)	• Exploring device files • Working with resources • Reducing large images • Working with ImageView	☰	⬇ (47.1 MB)	☰

Next Steps for 2.2

1. Don't Panic! We'll be further testing and further improving the image and text of Illiac (including adding Scr
too. OK?

- *Time to play*: Create your own app for a friend that includes a cute or interesting photo and some text (a image).
- Use your image dimensions (width x height—remember each pixel will require 4 bytes) to calculate the of your image.
- Greater than 2MB? Download ImageReducer.zip and use File menu/Import: *General>Import Existing Pro Workspace* to reduce your image size *size in memory* (not file size) to less than 2Mb (see the project itse instructions).

Note, for Android 4.2+ your photos may be stored in a different file location than I showed in the video (try m
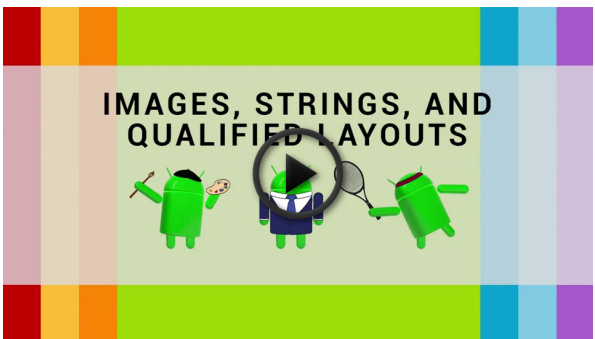`/emulated/0/DCIM/Camera`).

2. Read about some Illinois computing history in the link below and marvel at how much has changed in half

- ILLIAC I (Wikipedia)

3. Here's some (optional) reading to learn about how Android defines screen sizes and densities.

- Supporting Different Screen Sizes
- Supporting Different Densities

2.3. Images, Strings, and Qualified Layouts

Video Lecture	Key Topics	Transcript	Video Download	SRT Caption File
IMAGES, STRINGS, AND QUALIFIED LAYOUTS (00:15:42)	• Working with strings • Scaling images • Using RelativeLayout • Qualified layouts	≡	⬇ (24.0 MB)	☰

Next Steps for 2.3

1. Continue playing and developing your existing project.

- Create string resources.
- Keep playing with relative layout to create different layouts. Challenge: Try a layout inside a layout!
- Learn how to align your image(s) and text to the parent's center and sides (e.g., layout_alignParentTop) each other (e.g., layout_below).
- Play with qualifiers: Create different layouts for landscape and portrait modes.
- My secret is not for your phone! Can you create an app that only displays some special secret text on ce sizes?
- Test them using different display configurations.

Like to learn more? Here are (optional) relevant references—but don't forget a web search can also be usefu

- setAdjustViewBounds (boolean)
- Relative Layout
- ImageView.ScaleType
- Supporting Different Screen Sizes

Interview with Will

Video Lecture	Key Topics	Transcript	Video Download	SRT Caption File
MEET WILL HENNESSY	Round off your week with University of Illinois student Will as he shares his own Android app development experience.	≡	⬇ (10.8 MB)	☰

Video Lecture	Key Topics	Transcript	Video Download	SRT Caption File
(00:04:11)	Any plans for March 2014? Engineering Open House at the University of Illinois is March 14th & 15th. Already know how to program and would like a just-for-fun game programming challenge (Details)?			

Assignments

Once you have finished watching the videos for this week, complete the quiz on the information you learned.

To begin, access the quiz page below and click the **Start Quiz Now** button at the bottom of that page. You have 5 attempts to complete this quiz.

Go to Week 2 Quiz

This quiz is due by Sunday, January 12 at 11:55 PM Central Time (time zone conversion).

Time

This module will last **7 days** and should take **approximately 4-8 hours** of dedicated time to complete, including the videos and assignments.

Tips for Success

To do well this week, I recommend that you do the following:

- Review the video lectures a number of times to gain a solid understanding of the key questions and concepts introduced this week.

- When possible, provide tips and suggestions to your peers in this class. As a learning community, we can help each other learn and grow. One way of doing this is by helping to address the questions that your peers pose. By engaging with each other, we'll all learn better.
- It's always a good idea to refer to the video lectures in your responses. When appropriate, critique the information presented.
- Take notes while you watch the lectures for this week. By taking notes, you are interacting with the material and will find that it is easier to remember and to understand. With your notes, you'll also find that it's easier to complete your assignments. So, go ahead, do yourself a favor; take some notes!

Getting and Giving Help

We strongly encourage you to join the culture of the application development community. This means not struggling with problems in isolation! Rather, when you encounter a problem, please try the following:

- Turn to your favorite search engine and search the Internet for help. Often, you will be most successful in finding the help you need by searching for the exact text of an error message you might be encountering. Sometimes, adding the term RESOLVED to your search query will help you hone-in on Discussion forum posts where someone else has received advice that ultimately resolved the problem they were encountering.
- Form groups of friends, both here in this class and perhaps locally in your geographic area. You can explore the Getting to Know Your Classmates forum, reach out via the course's social media venues, or join a Meetup.
- Use the forums dedicated to each week's topics for help solving technical problems on your computer or Android device. Please use the forum that most closely matches your problem. Explore the forum to see if others have encountered the same problem and received helpful advice that may be useful in your situation. If your problems persist, please do post in the forums to ask for help.

If you encounter a problem with the course itself, you have options! You can get help via any of the following means:

- You can report a specific problem by clicking on the **Help** link at the top right of any course page.
- Use the Course Materials Errors forum for problems with course materials such as typos, factual errors, or grading errors.
- Use the Technical Issues forum for problems related to the Coursera platform such as broken links, error messages, and other technical issues.

Due to the very large number of students enrolled in this course, the instructor is not able to answer emails sent directly to his account. Rather, all questions should be posted to one of the above forums. You are encouraged to help your fellow students by responding to posts made in these forums with solutions and by "voting up" the most important posts. University of Illinois staff will monitor these forums and will focus their attention on those that have been voted up the most.

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