Week 9: Bonus Materials and Beyond!

Help

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Overview Bonus Videos Getting Help Source Code Online Content Java Resources

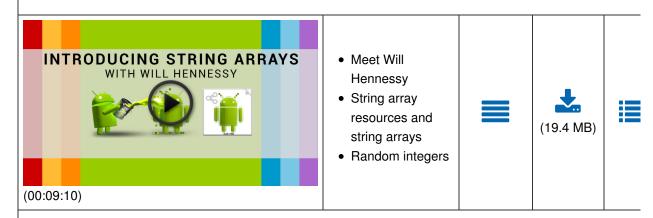
Overview: 9 Weeks of Content for the Price of 8!

This 8-week course is finished but your Android adventures are just beginning. We'll be adding a few bonus items on this page as we produce them. These materials are not graded and are not part of the 8-week official course. If you want to discuss the materials on this page with your classmates, please use the **Beyond Android Apps 101** forum, as well as the forums for each video.

Bonus Videos

Video Lecture Key Topics Transcript Video Download	SR ⁻ Capti Fil∉
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Introducing String Arrays with Will Hennessy



Next Steps for Introducing String Arrays

Download and extract JavaFacts.zip. Some suggested extensions:

- 1. Create your own facts file.
- 2. Use a BroadcastReceiver and an Intent to start the app whenever the phone is powered on.
- 3. Create a home screen widget to display a Java fact.

Video Lecture	Key Topics	Transcript	Video Download	SR [·] Capti File
Working with JSON with Ne	Ison Osacky			
WORKING WITH JSON WITH NELSON OSACKY (00:08:44)	 Meet Nelson Osacky Downloading Internet text data using AsyncTaskLoader Parsing JSON data into Java objects Displaying lists 		(18.8 MB)	

Next Steps for Working with JSON

Download and extract JSON-ListExample.zip and import into Eclipse. Some suggested extensions:

- 1. Change the layout of each item.
- 2. Download and display your own data.
- 3. Re-download the data every 30 minutes.

Getting Help: Finding Example Code

Others have probably seen the same the problem as you and figured out how to solve it!

- Perhaps you need a specific piece of Java code. If so, an online search, e.g., "Android Simple Java Example" plus a specific search term, is often sufficient.
- Perhaps you need the Android guide, design guide, or reference pages.
- Stack Overflow is usually a good place to find knowledgeable answers—though it is worthwhile
 looking at several similar posts before drawing your own conclusions. Before posting your own
 questions see the style guide for questions and answers.

Use the Source, Luke!

Would you like to browse and easily navigate the Android source code but don't want to download it all? We suggest grepcode.com because you can navigate easily between methods. Here are some of our personal favorites:

- Explore the source code behind Android's standard apps.
- What does Android's Activity class do in onCreate and other lifecycle methods? Explore Activity's onCreate.

• Delve deep inside Fragments to find out how they tick. Explore Fragment.java.

Android Courses and Other Useful Online Content

- Android Developers Blog: The official Android Developer Blog aimed at professional developers and announcing new features in the latest versions of Android.
- Programming Mobile Applications for Android Handheld Systems: Compared to Angrave's course, this lecture-style course assumes a more advanced Java and development background and goes into more technical detail about Android's architecture.
- Building Mobile Experiences: "A project-based course that guides students through creating a novel mobile application—from generative research to design, usability, implementation and field evaluation."

Java Resources

- Java Tutorials by Oracle: These tutorials are not particularly accessible to the beginner, but they are detailed and go into some of the more arcane areas of Java syntax.
- CodeMoo: This is a new UIUC project developed by CS undergraduates and is a playful way to learn Java programming.
- David Eck—Free Introduction to Java: Introduction to Programming Using Java, Sixth Edition.

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