

User Interaction: Intro to Android

Asst. Professor Donald J. Patterson
INF 133 Fall 2010



Actually Developing for Android 2.2

- Requirements
- SDK/AVD
- Eclipse Plug-in
- Hello World

A stylized illustration of a city skyline at the bottom of the slide. It features various buildings in shades of orange, brown, and blue, interspersed with green palm trees and foliage. The entire scene is set against a light green background.

<http://developer.android.com/guide/index.html>

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Intro to Android: Requirements

- OS
 - Windows XP, Vista or Windows 7
 - Mac OS 10.5.8 or later (Leopard)
 - Linux (e.g., Ubuntu Hardy Heron)
- IDE
 - Eclipse 3.4 or 3.5 (not 3.6/Helios yet)
 - Eclipse IDE for Java Developers for example
- Java
 - JDK 5 or 6 (1.5 or 1.6)

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Intro to Android: SDK

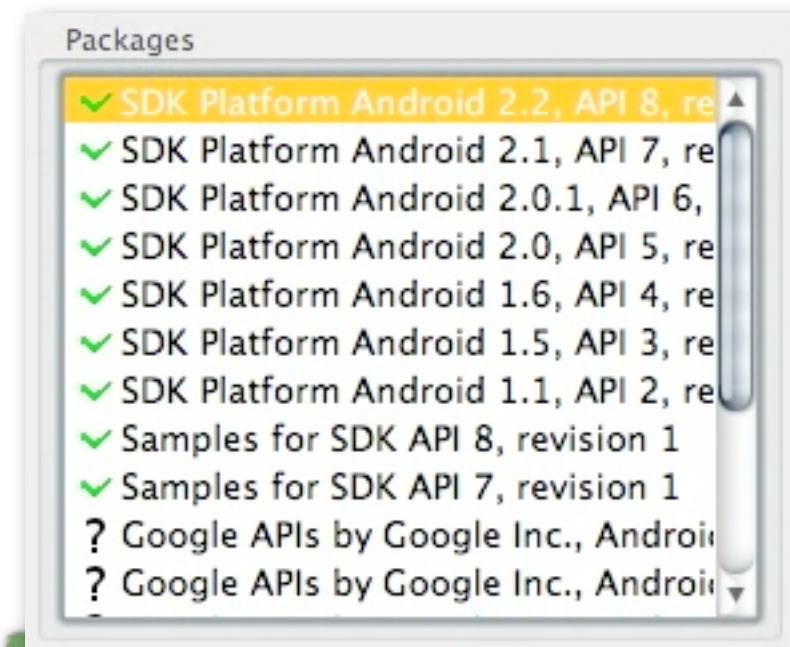
- Download and unpack the appropriate “Android SDK and AVD manager”

Platform	Package	Size	MD5 Checksum
Windows	android-sdk_r07-windows.zip	23669664 bytes	69c40c2d2e408b623156934f9ae574f0
Mac OS X (intel)	android-sdk_r07-mac_x86.zip	19229546 bytes	0f330ed3ebb36786faf6dc72b8acf819
Linux (i386)	android-sdk_r07-linux_x86.tgz	17114517 bytes	e10c75da3d1aa147ddd4a5c58bfc3646

- This is a program that downloads and manages the installation of libraries for you
- Load the correct “Platform SDK”
- Create an Android Virtual Device

List of existing Android Virtual Devices located at /Users/djp3/.android/avd

AVD Name	Target Name	Platform	API Level
✓ Fall_2010_INF_1	Android 2.2	2.2	8



<http://developer.android.com/sdk/adding-components.html>

Intro to Android: SDK



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Intro to Android: Eclipse Plug-in

- The Eclipse Plug-in is called the “ADT”
 - Android Development Tools
 - Support for menu options in Eclipse which support
 - Automatically building Android projects
 - User-Interface building for Android
 - Debugging support for Android
 - Packaging files for the Android Market (.apk files)
- The ADT is installed from within Eclipse

A stylized, colorful illustration of a city skyline with various buildings and palm trees in shades of orange, blue, and green.

<http://developer.android.com/sdk/eclipse-adt.html>

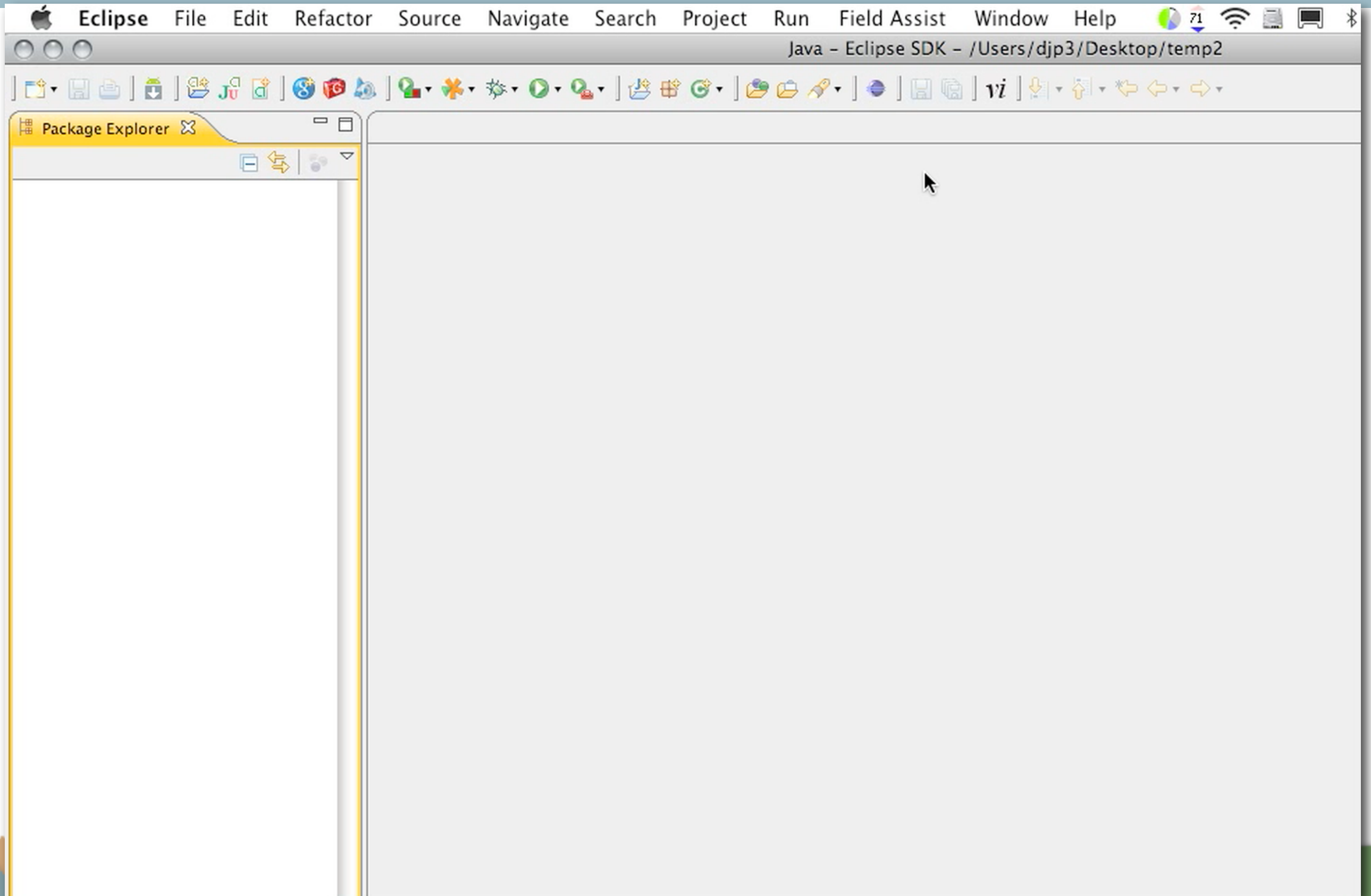
Intro to Android: Eclipse Plug-in

- Install the plug-in
- Restart Eclipse
- Configure the plug-in

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Hello World

- Create a project
- Build a basic U/I
- Run the Application
- Improve the U/I
- Debug the Application

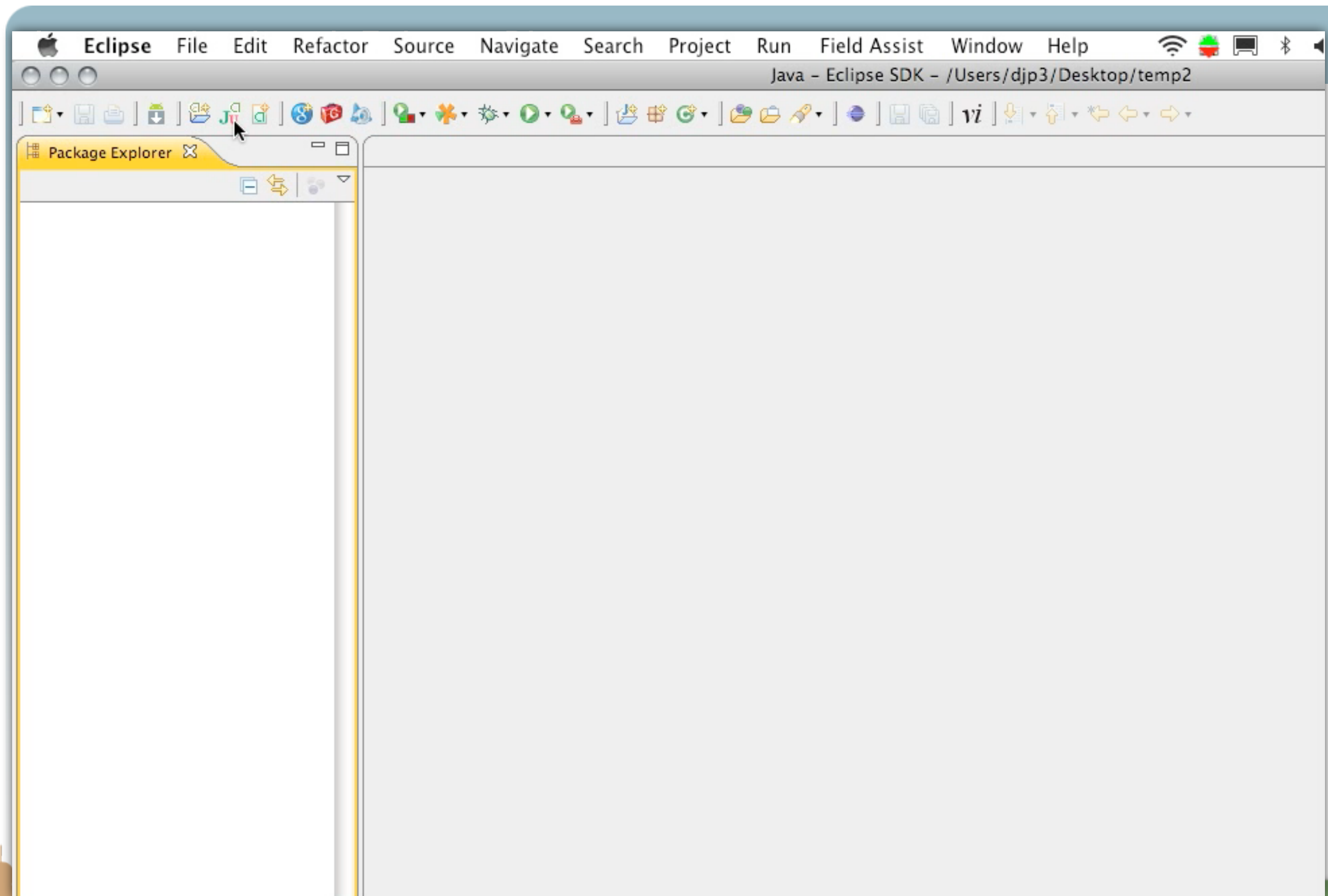
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Hello World

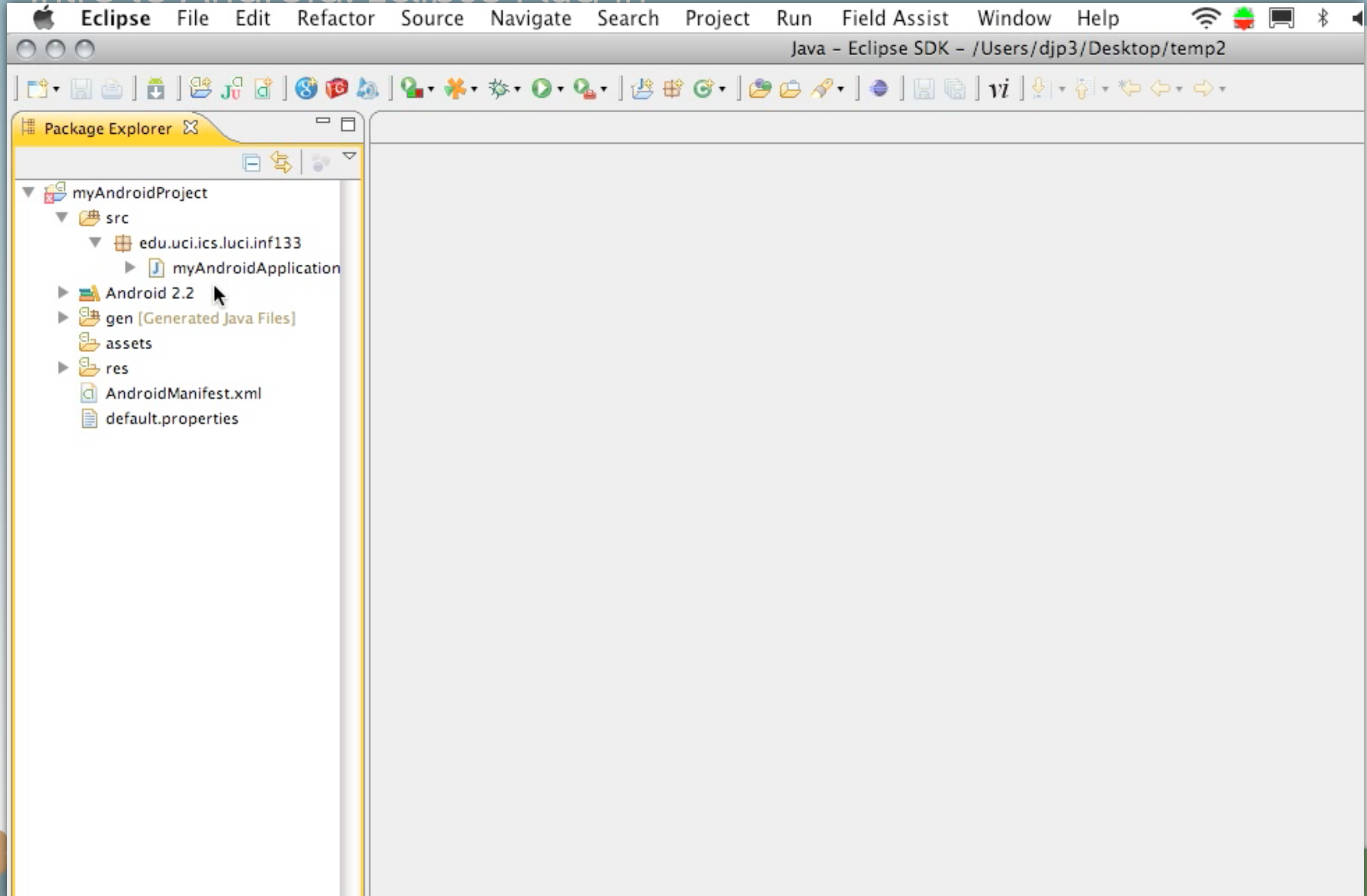
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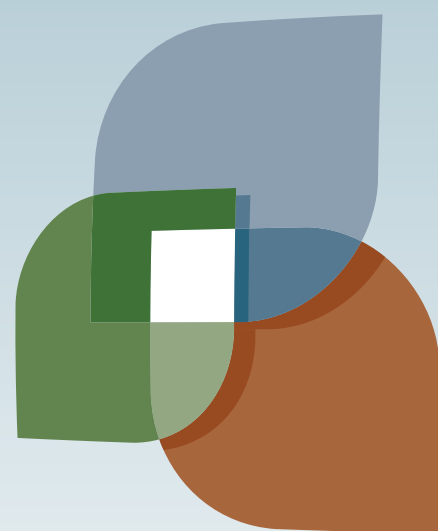


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L U C I

