

Android Development Tools

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Twitter: @droidxav @tornorbye #io2011 #android Give presentation feedback: goo.gl/vvwzc Questions: goo.gl/mod/jY8n



Agenda

- New features from the past 3-6 months
- Features you may not know about
- Best practices
- Upcoming features preview



Introduction

- Developed in the open
 tools.android.com
- Allow working in any environment

 Any OS: Windows, Mac OS X, Linux
 Any IDE: Eclipse, IntelliJ, NetBeans
 Command line too! Useful for automated builds.
- But, we can't provide the same level of support for every IDE
- Eclipse is main priority for advanced features
- Command line always supported with Ant and standalone tools (DDMS, Traceview, HierarchyViewer)
- Structure our code to make it easy for third-party tools vendors to build on our code base



Eclipse Integration

- If you know Eclipse, you know how to use ADT
- Provides basic Project, Build, Launch, Debug features
- Custom editors for all the Android-specific XML files
- Integrate the standalone tools into Eclipse
 - AVD and SDK Manager
 - o DDMS
 - Traceview
 - HierarchyViewer
 - Draw 9 Patch (not yet)



Advanced Editors

- Many different XML files
- Form-based editors
- XML text editors
 - Content Assist
 - \circ Quick fixes
 - Quick assist
- WYSIWYG editors



Improved Layout Rendering

- One rendering library per platform version
- Running (most of) the Android View framework in Eclipse
- Improved in 3.0 and even more in 3.1

More advanced drawing support

- Better Custom View support
- New API for better interactivity
- Will back port to 2.x



Tools Walkthrough



Other Design Tools

Android Asset Studio: http://j.mp/androidassetstudio

Andro	id Asset Studio
Android Asset Stud	io » Icon generators » Launcher icons
	erator will create icons that you can use in your Android ty of source images. To begin, simply enter the input details own below.
Foreground	Image Clipart Text
	Trim Don't Trim Padding 0%
Foreground scaling	Crop Center
Shape	Square Circle
Background color	~
Foreground color Only for alpha-transparent foregrounds	
Foreground effects	Simple Fancy
Show Guides	
Output images	Download .ZIP
drawable-hdpi	drawable-mdpi drawable-kdpi

Google[®] 11

Talk: Memory Management for Android apps

- 4:15pm 5:15pm, Wed (today!)
- Room 9



Emulator Status

- Emulates a full ARM device
 Not a compatibility layer on top of host OS/CPU
- Runs ARM code, interpreted into x86
 - Slow but OK
- Software GL renderer
 - \circ Compiled into ARM machine code
 - \circ Very slow in tablet screen resolutions



Open Source

- Developed entirely in the open.
- Project site: tools.android.com
- Source: source.android.com
- Bug Database: b.android.com
- Code Reviews: r.android.com
- Mailing List: adt-dev@googlegroups.com



Links

- Twitter: #Android #io2011
- Give presentation feedback

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- Ask questions using Google Moderator
 - o goo.gl/mod/jY8n

