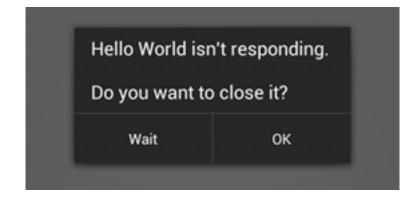
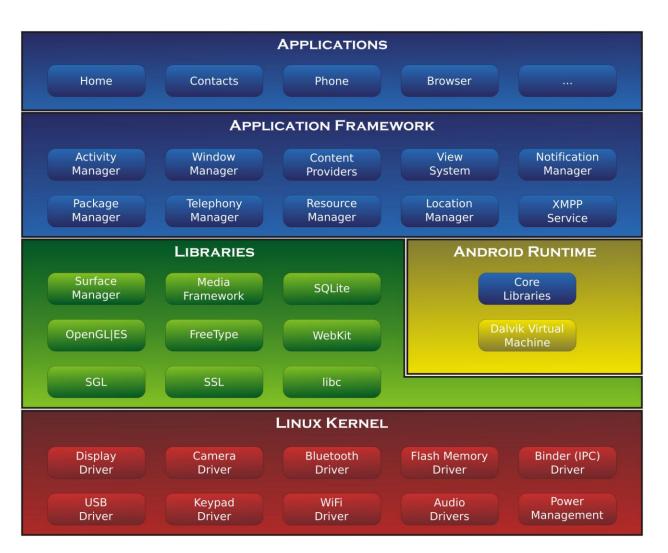


Exhibit 1: Smartphone Penetration Estimates

Source: Gartner historical, Jefferies & Company, Inc. estimates



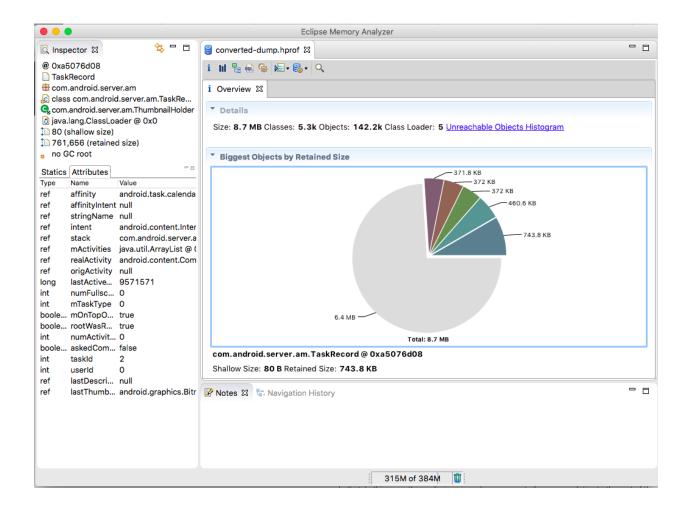




Chapter 2: Efficient Debugging

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*3	727	VmWait	0	0	Signal Catcher			
*4	728	Runnable	1	0	JDWP			
*5	729	VmWait	14	12	Compiler			
*6	730	Wait	0	0	ReferenceQueueDaemon			
*7	731	Wait	0	3	FinalizerDaemon			
*8	732	Wait	0	0	FinalizerWatchdogDaemon			
9	733	Native	3	17	Binder_1			
10	734	Native	3	4	Binder_2			
11	798	Native	0	0	Gservices			
12	939	Native	0	2	FlpThread			
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-byte array (object[], int[], flo	-	755.188 KB	16 B	16.016 KB	40 B	79 B	
3-byte array (long[], double[])	188	28.203 KB	16 B	8.516 KB	32 B	153 B	
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12663	20	org.apache.http.m	28	com.a.a.a.i	а
12662	32	org.apache.http.m	28	com.a.a.a.i	а
19404	16	org.apache.http.m	29	com.a.a.a.i	а
19402	16	org.apache.http.m	29	com.a.a.a.i	а
19400	16	org.apache.http.m	29	com.a.a.a.i	а
19397	16	org.apache.http.m	29	com.a.a.a.i	а
19395	16	org.apache.http.m	29	com.a.a.a.i	а
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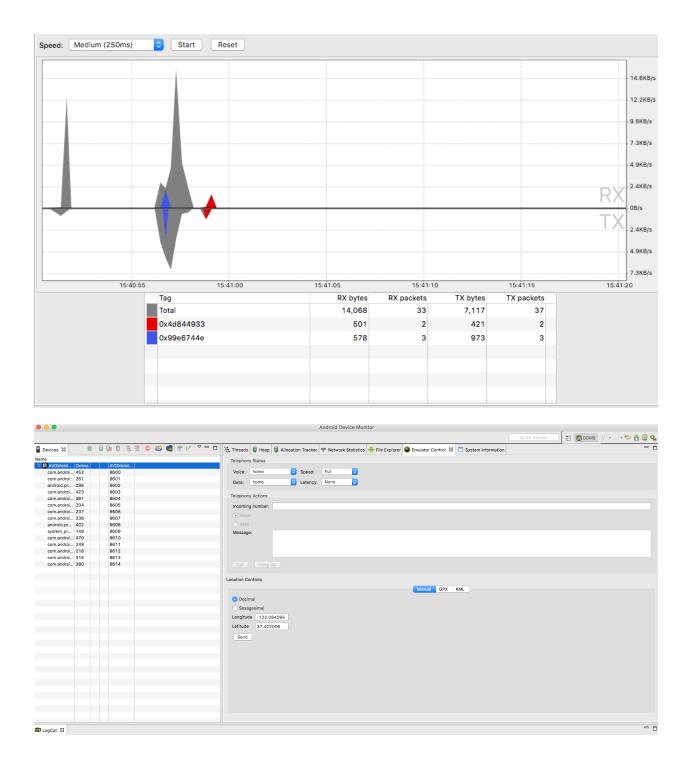
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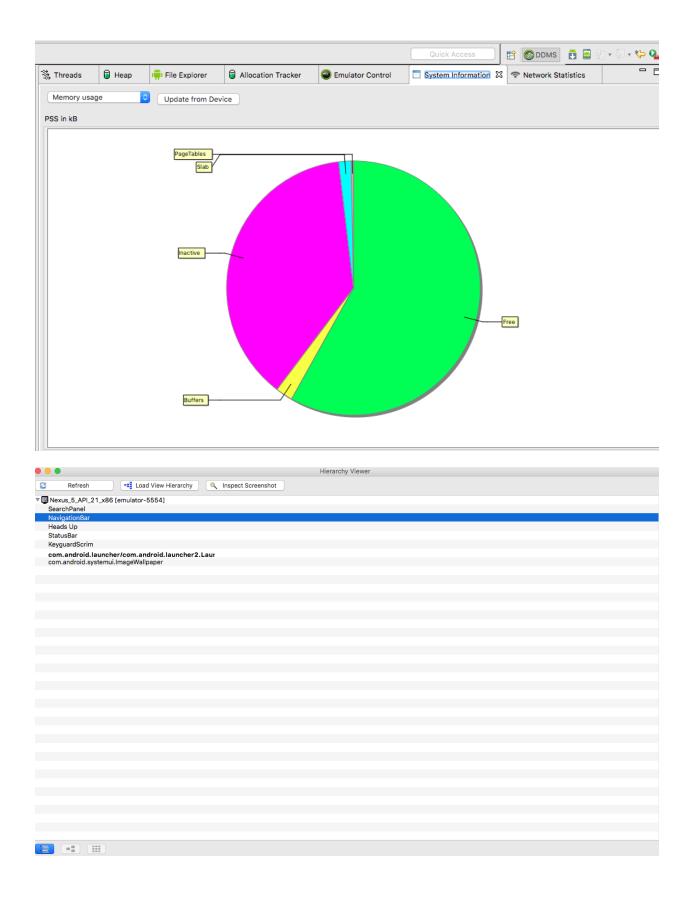
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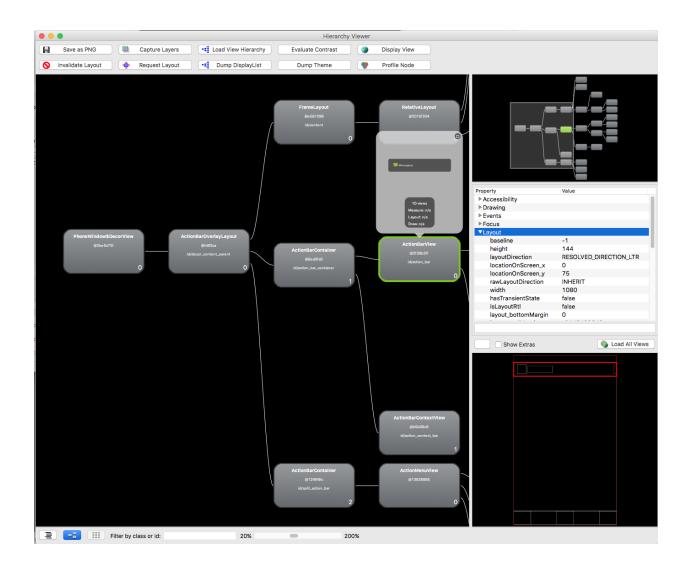
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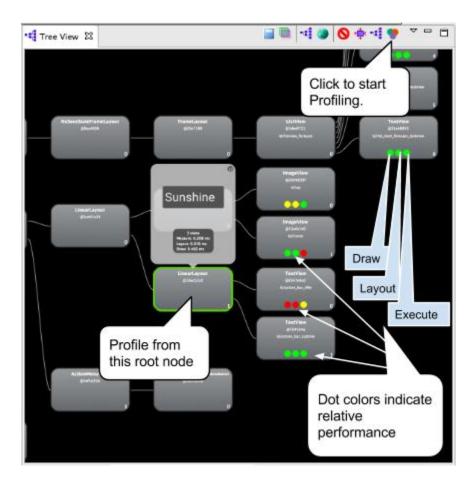
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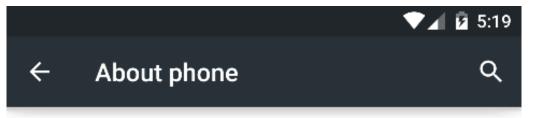






Systrace (Android System Trace) Settings to use while capturing system level trace						
Destination File:	trace.html	Browse				
Trace duration (seconds):	5					
Trace Buffer Size (kb):	2048					
Enable Application Traces from:	None	٥				
Commonly Used Tags:	 Graphics Input View System WebView Window Manager Activity Manager Activity Manager Application Resource Loading Dalvik VM CPU Scheduling 					
Advanced Options:	Sync Manager Audio Video Camera Hardware Modules RenderScript Bionic C Library Power Management IRQ Events CPU Frequency CPU Idle eMMC commands Synchronization Kernel Workqueues Kernel Memory Reclaim					
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1 item selected:	Slice (1)												
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Category	android					Prec	ding events	2 Slices					
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Wall Duration	37.397 ms					All co	nnected events	3 Slices					
CPU Duration	0.073 ms												
Self Time	37.387 ms												
CPU Self Time Description	View will have it Android version include the issui Starting with Lol	the View hierarchy. Ex s drawing commands i s prior to Lollipop, this ing of draw commands lipop, it only includes t syncing that informati	ecorded. On would also to the GPU. he recording of										



System updates

Status

Phone number, signal, etc.

Legal information

Model number

Google Nexus 6 - 5.0.0 - API 21 - 1440x2560

Android version

5.0

Baseband version

Unknown

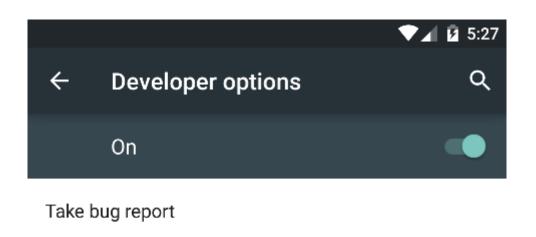
Kernel version

3.10.0-genymotion-g1d178ae-dirty guillaume@gro-xps #1 Mon Apr 27 11:57:12 CEST 2015

You are now a developer!

Build number

vbox86p-userdebug 5.0 LRX21M eng.buildbot. 20150610.004120 test-keys



 \checkmark

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Desktop backup password Desktop full backups aren't currently protected

Stay awake Screen will never sleep while charging

Always stay awake Screen will never sleep

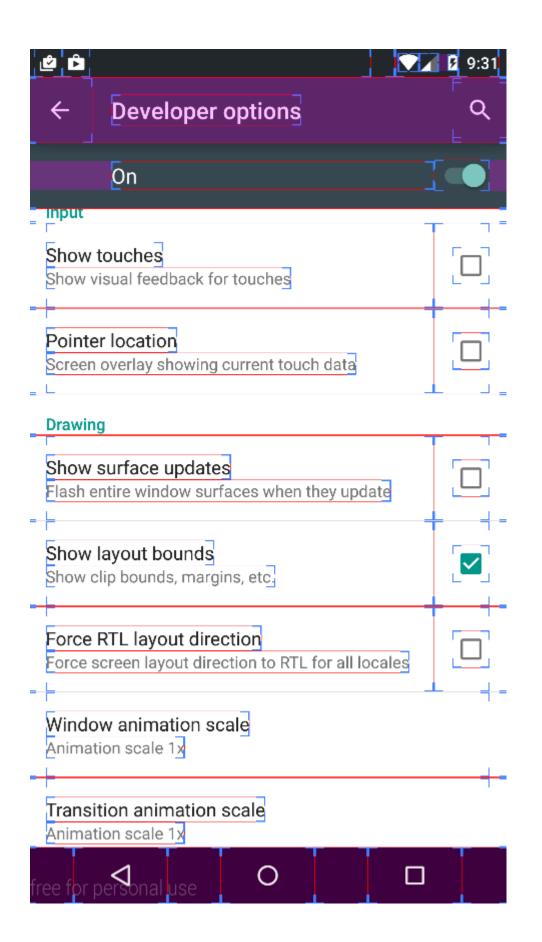
HDCP checking Use HDCP checking for DRM content only

Enable Bluetooth HCI snoop log Capture all bluetooth HCI packets in a file

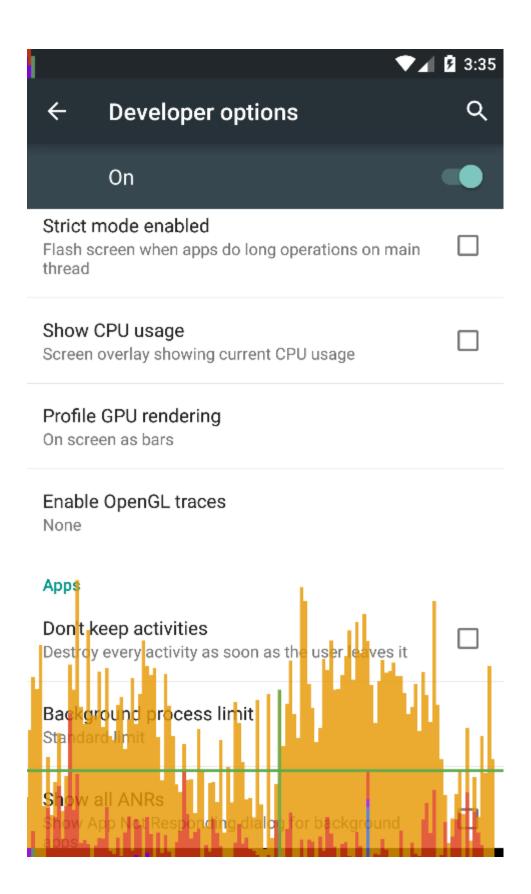
Process Stats Geeky stats about running processes

Debugging

		▼ ⊿ 1 5:3
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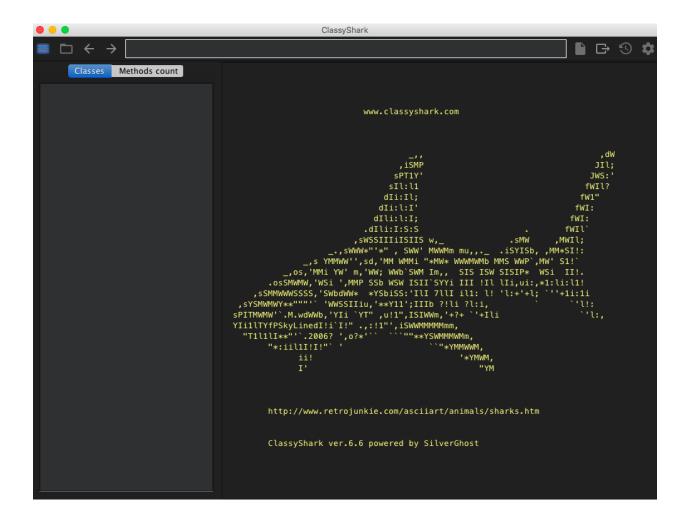


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▶ Editor	Restart activity on code changes			
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 Version Control Build, Execution, Deployment 				
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* TODO 4. <u>6</u> : Android Monitor 🕞 Terminal			🔲 Event Log 🔳 C	Gradle Console

TODO <u>6</u>: Android Monitor Terminal

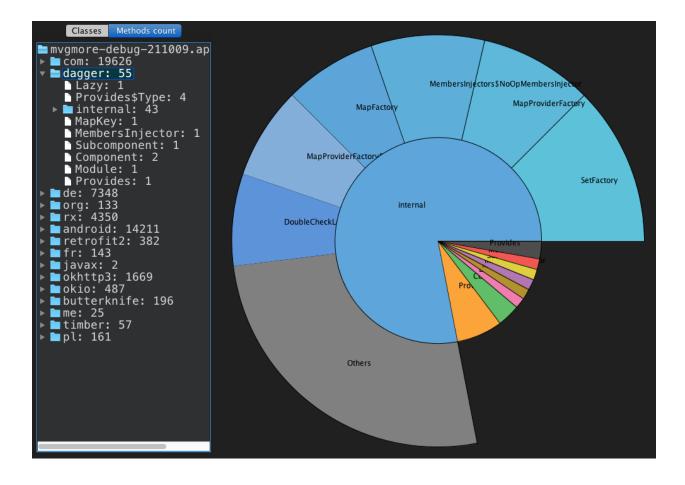
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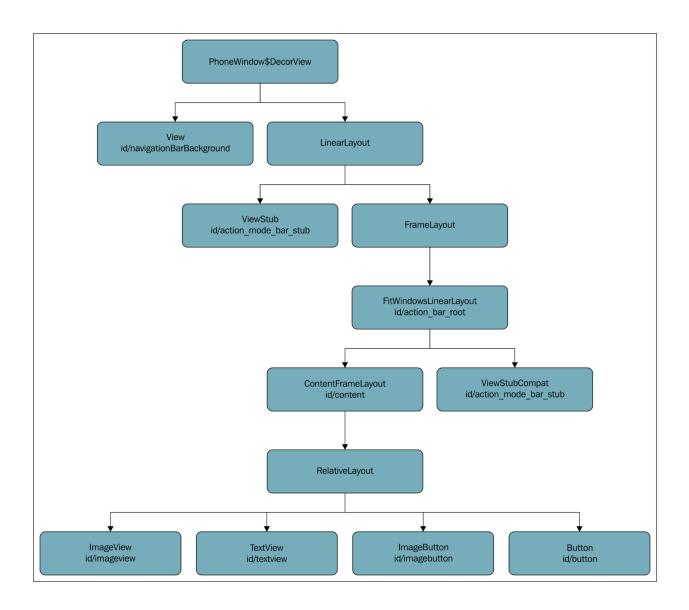
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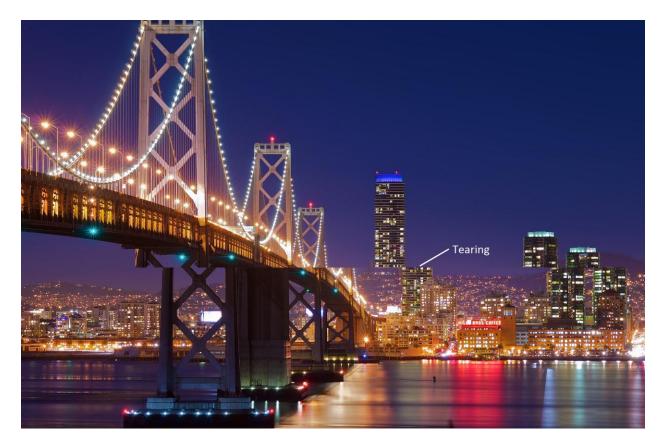


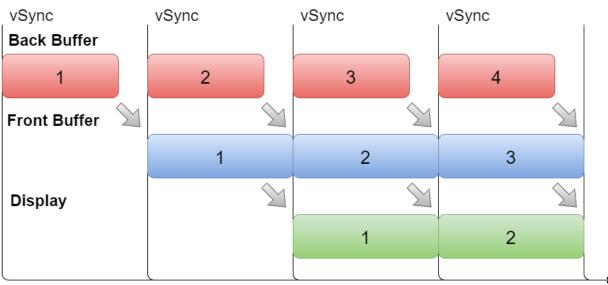
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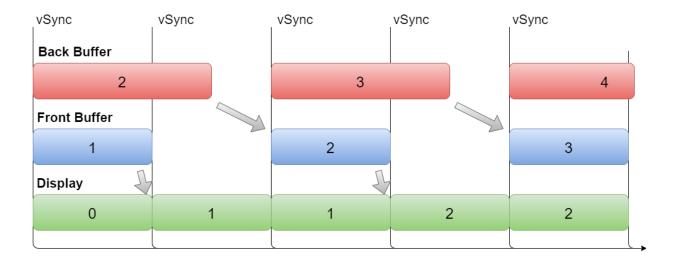
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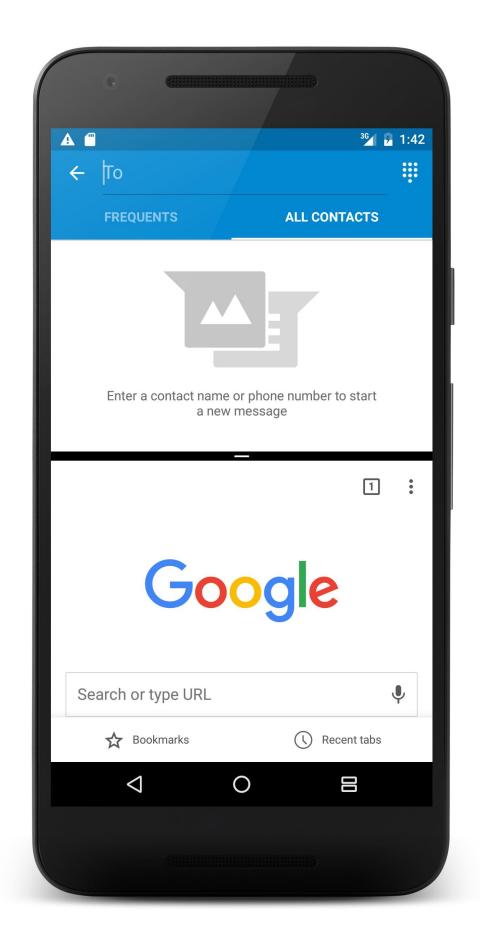


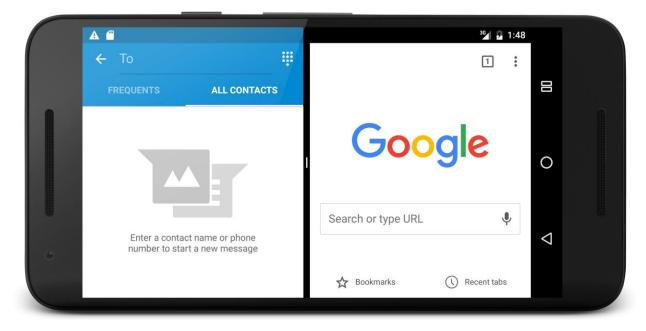


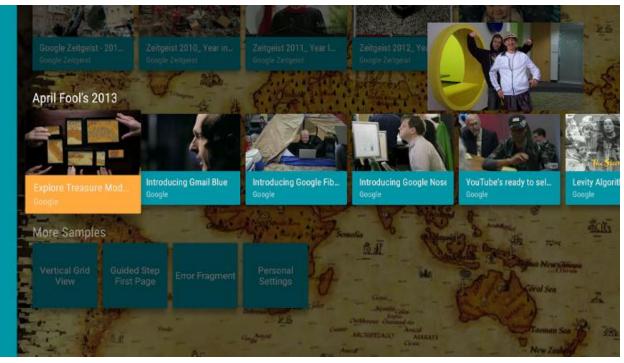


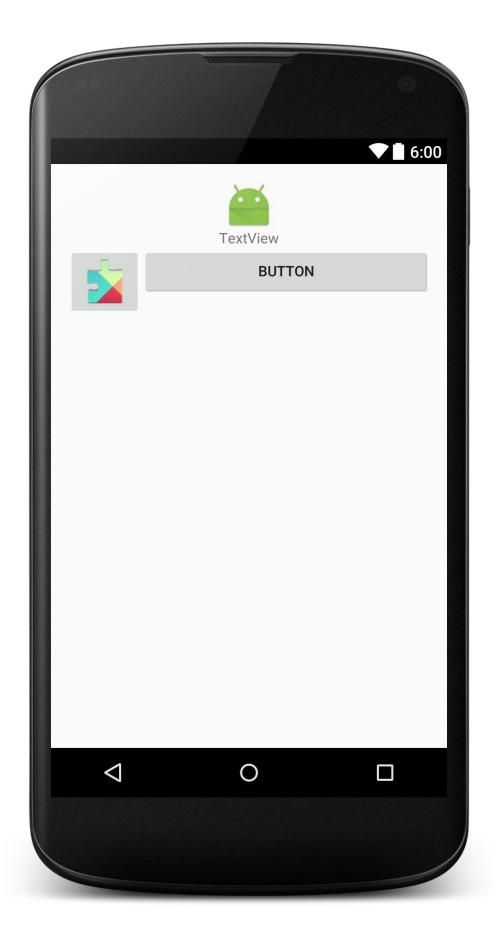


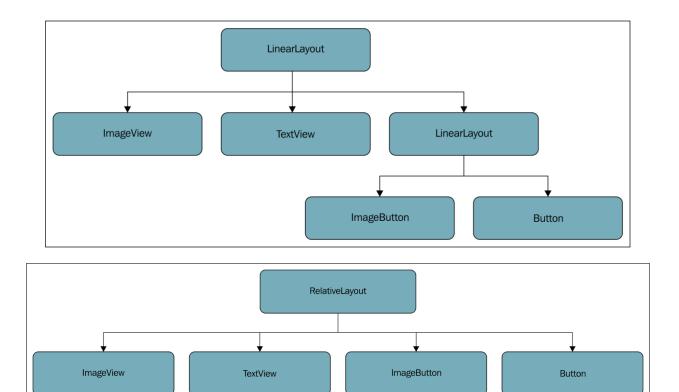






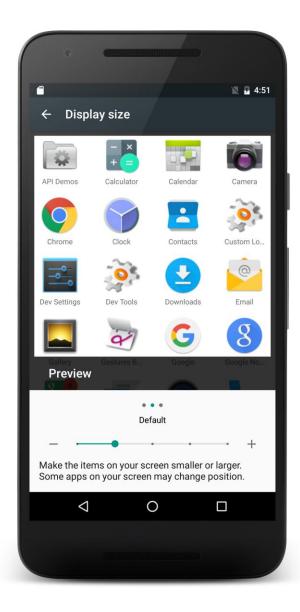




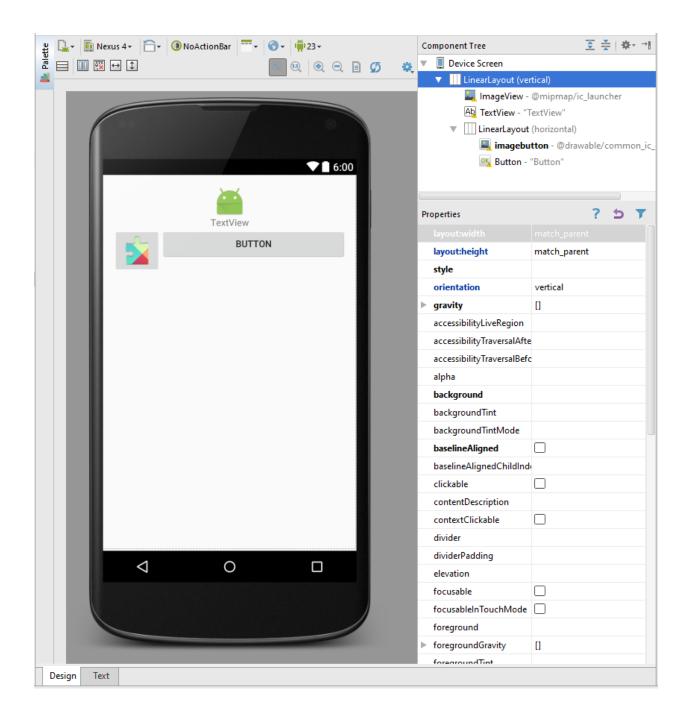


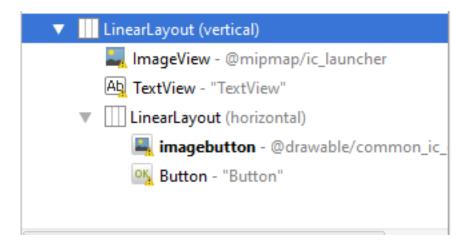


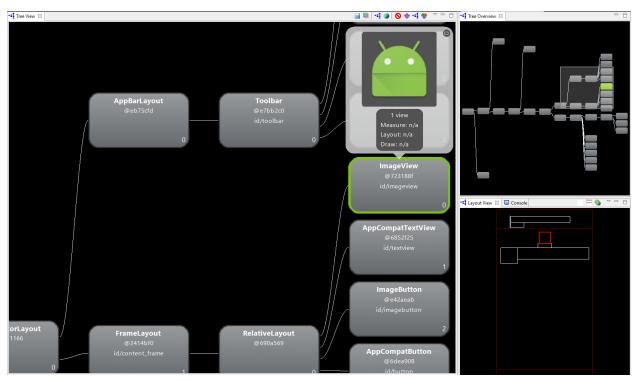
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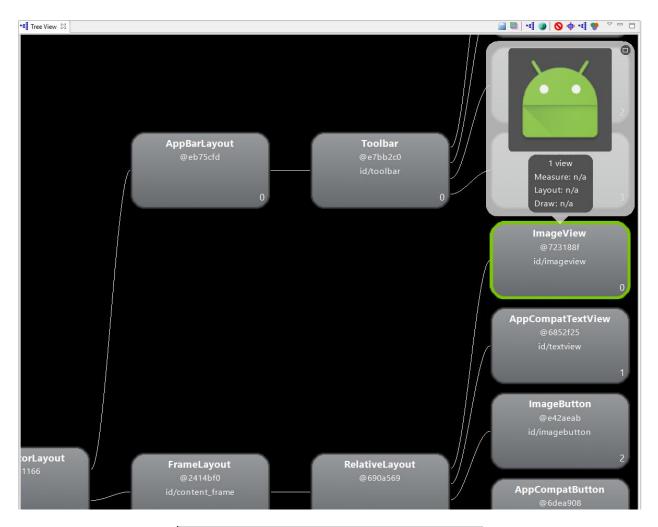


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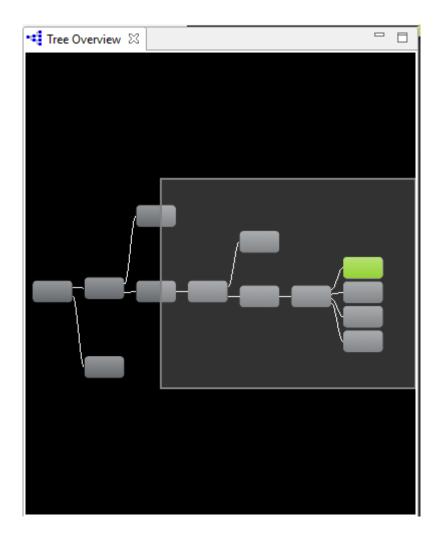




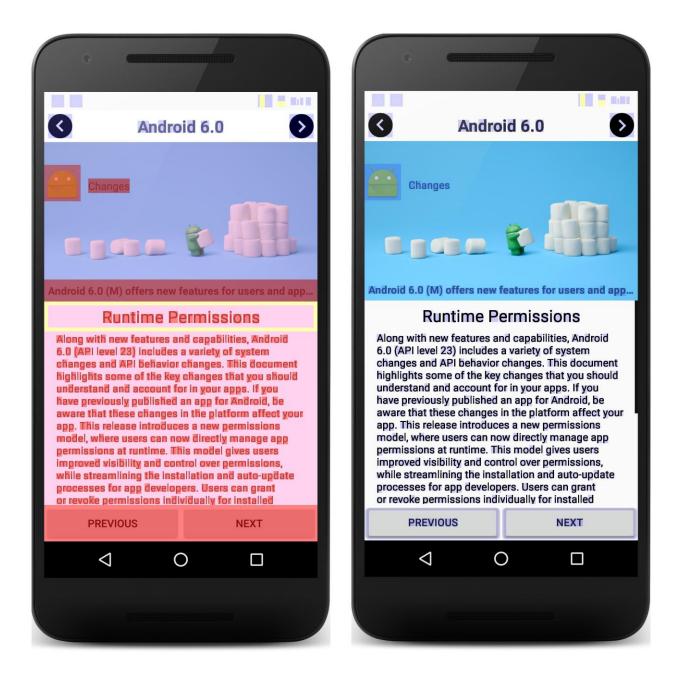


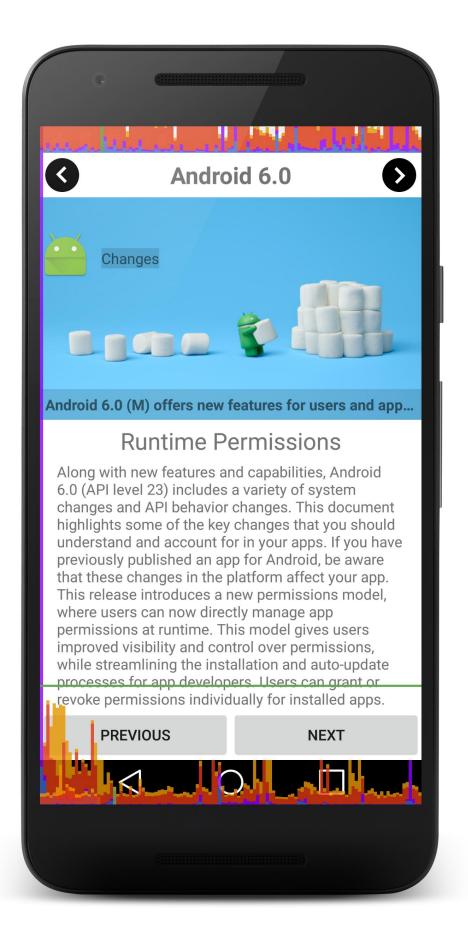


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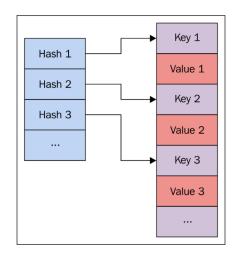


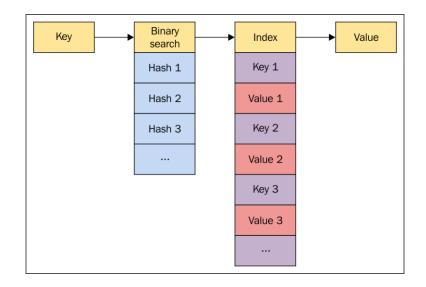
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	OK Cancel

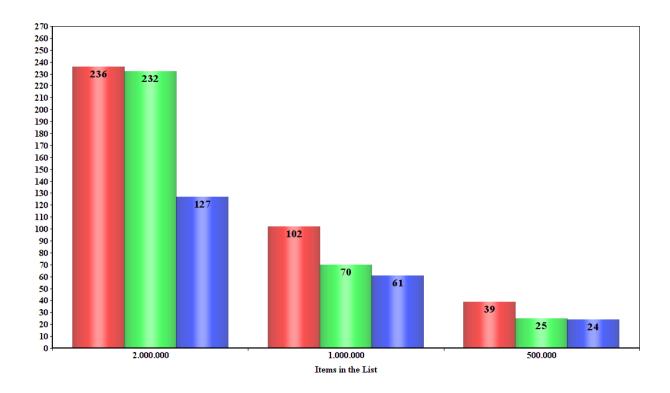
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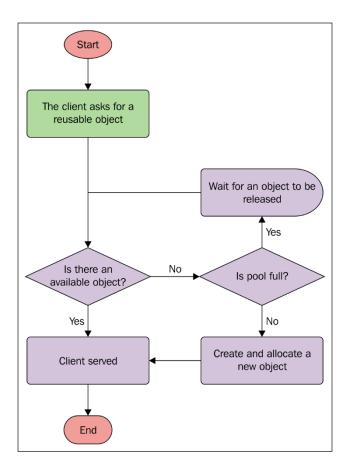
Chapter 4: Memory

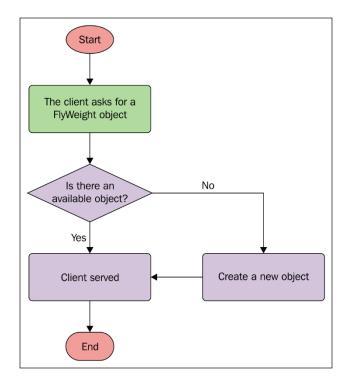






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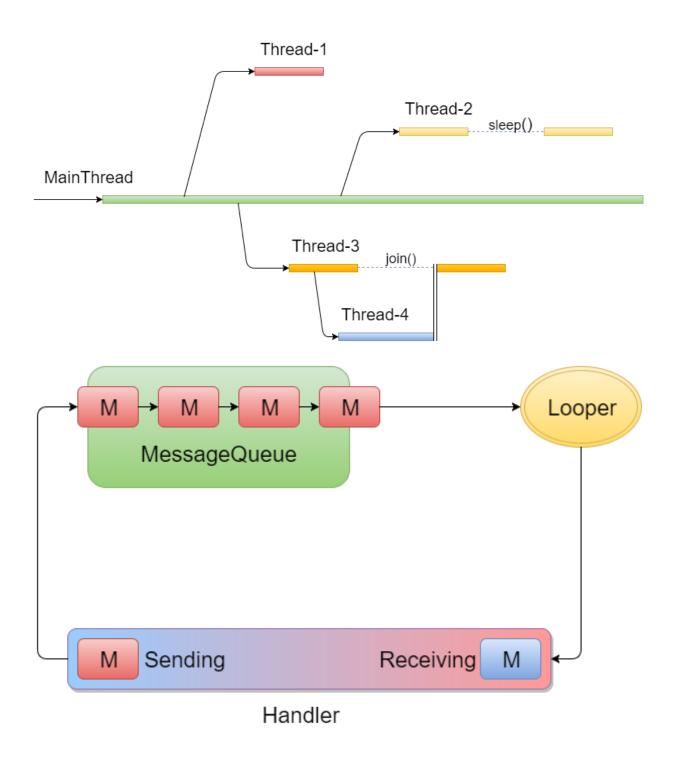


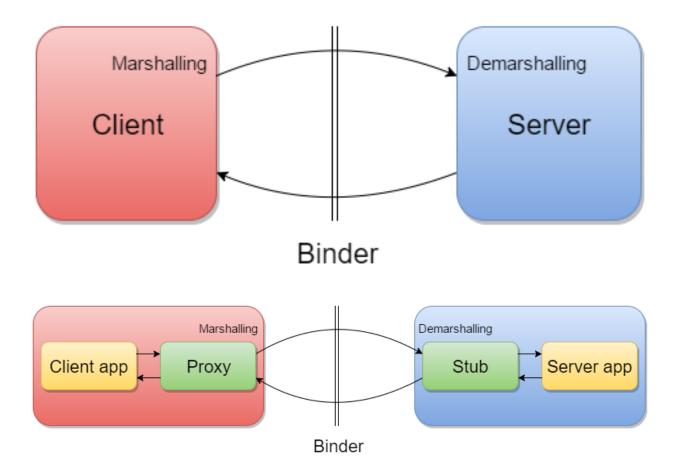




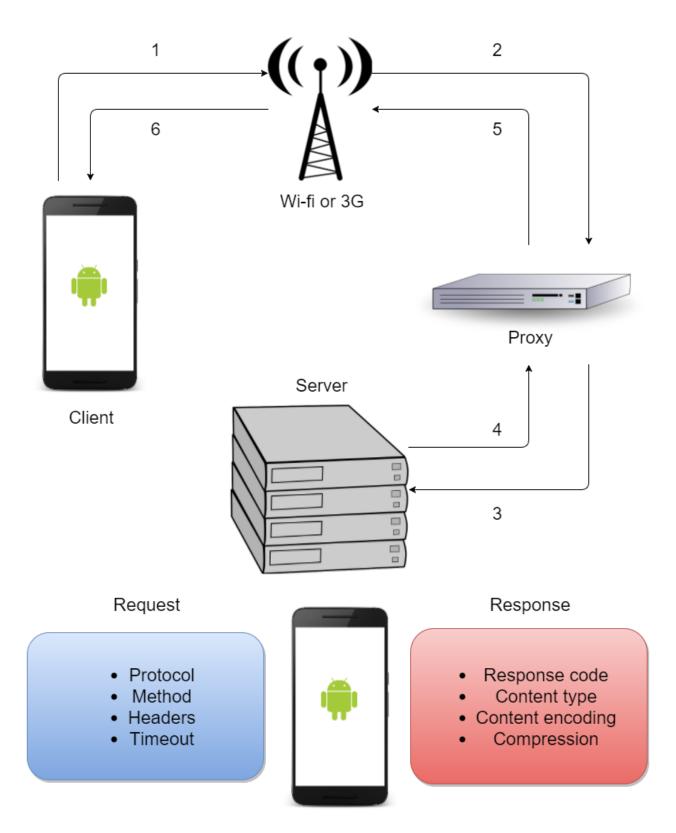
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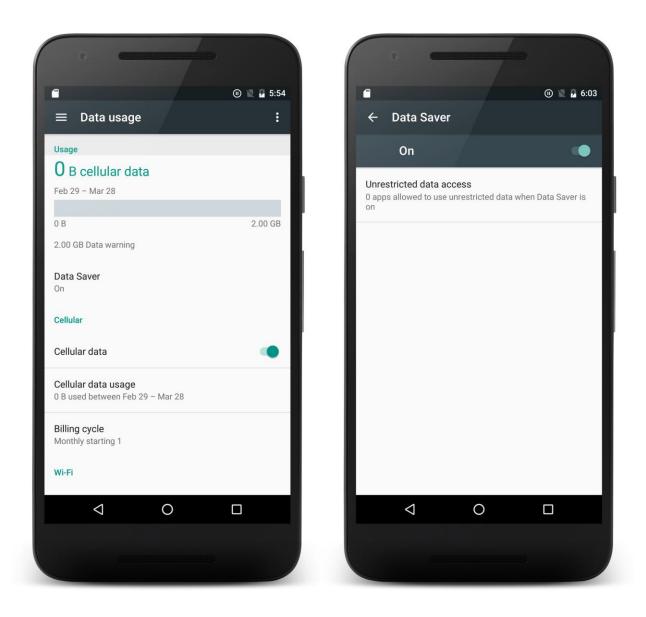
Chapter 5: Multithreading





Chapter 6: Networking

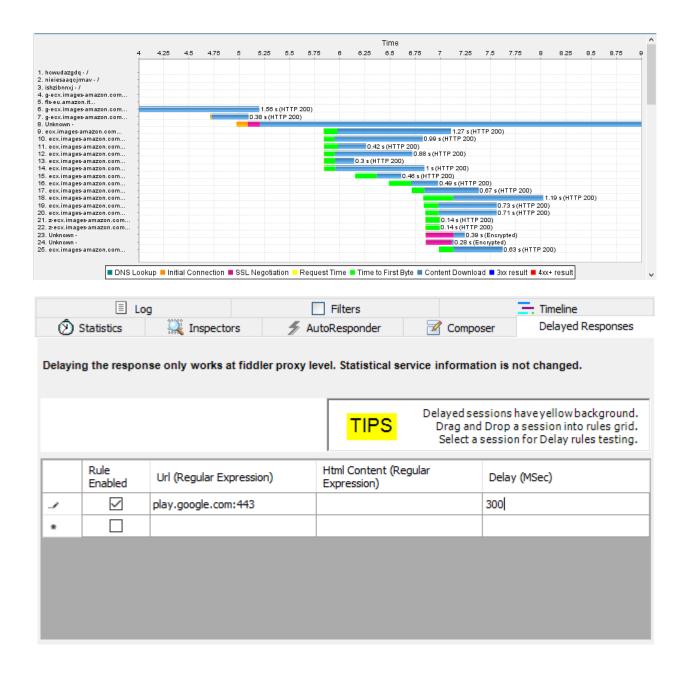




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Fiddler Web Debugger

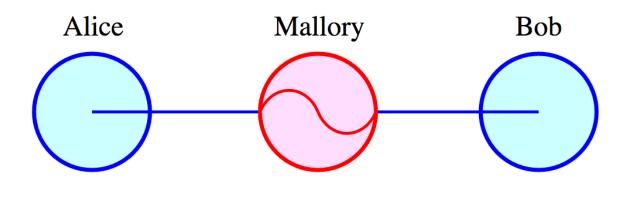
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RTT (ms)	360				
Queue	0				
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Chapter 7: Security

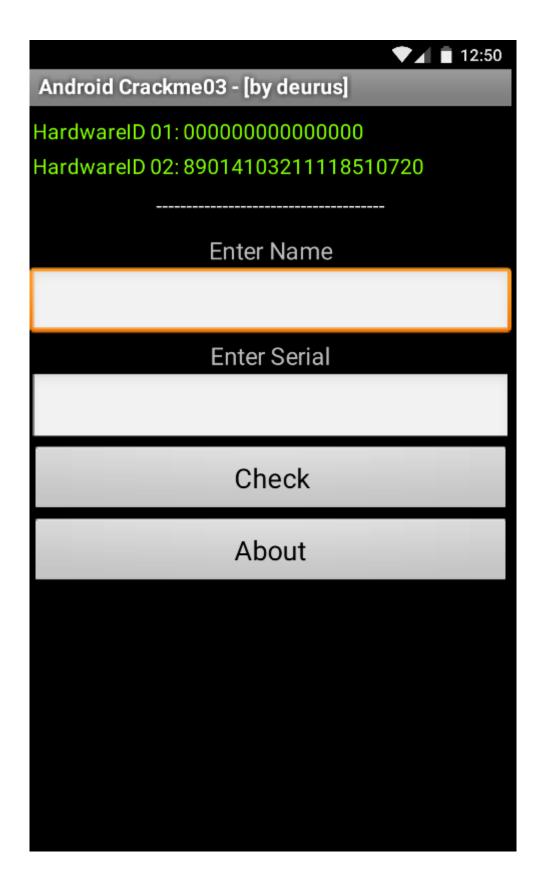


https://play.google.com/store/apps/details?id=com.google.android.apps.maps

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	exec		
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B A ⇔ ⇒ HelleWorld dov2isrisr ⊕			
HelloWorld_dex2jar.jar 📀	HelloWorldActi	vitv.class	+
 ▶ ■ HelloWorldActivity ▶ ■ R 	<pre>package com.tes public class He { public void c { super.onCre TextView lo localTextVi</pre>	t.helloworld;	Activity 2) Activity



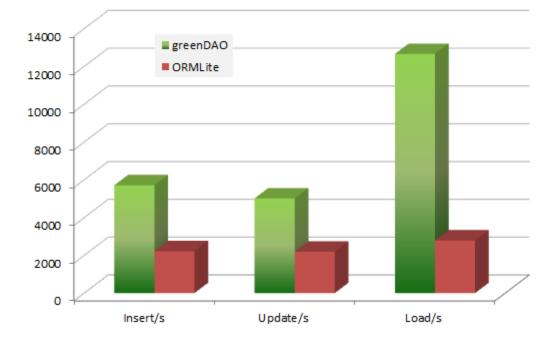
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                                                                                    Java Decompiler - HelloAndroid.class
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                                                       HelloAndroid.class 🛞 prueba2.class R.class
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⊕ crackme03
                                                            public void onClick(View paramAnonymousView)
      ▶ 🚺 R
🔻 🖶 helloandroid
                                                              String str1 = ((EditText)<u>HelloAndroid.this.findViewById(2131034116)).getText().toString();</u>
      HelloAndroid
                                                              int i = str1.length();
        HelloAndroid
                                                               String str2 = ""
                                                              String str3 = ((EditText)<u>HelloAndroid</u>.this.findViewById(2131034118)).getText().toString();
if (i < 4);</pre>
               pulsarBoton : View.OnClickListene
               pulsarBotonabout : View.OnClickLis
                                                              while (true)
               onCreate(Bundle) : void
      prueba2
                                                              {
                                                                 try
                                                                 {
                                                                   Toast.makeText(HelloAndroid.this.getApplicationContext(), "Min 4 chars", 1).show();
                                                                   return;
int k = str1.length();
                                                                   if (j >= k)
                                                                   {
                                                                     String str4 = String.valueOf(0x6B016 ^ Integer.parseInt(str2.substring(0, 5)));
                                                                     TelephonyManager localTelephonyManager = (TelephonyManager)HelloAndroid.this.getSystemService("phone");
String str5 = localTelephonyManager.getDeviceId();
                                                                     String strb = locallelephonyManager.getUeviceld();
String strb = locallelephonyManager.getSimSerialNumber();
String str7 = str5.substring(0, 6);
String str8 = str6.substring(0, 6);
long l = Integer.parseInt(str7) ^ Integer.parseInt(str8);
if (((str4 + "." + String.valueOf(l) + "." + str7).equals(str3))
hered bit2020.
                                                                        break label285;
                                                                      Toast.makeText(<u>HelloAndroid</u>.this.getApplicationContext(), "God boy", 1).show();
                                                                     return;
                                                                   }
                                                                 }
                                                                 catch (Exception localException)
                                                                 {
                                                                   Toast.makeText(<u>HelloAndroid</u>.this.getApplicationContext(), "Another Error Ocurred :(", 1).show();
                                                                   return;
                                                                 3
                                                                 int m = str1.charAt(j);
                                                                 str2 = str2 + m;
                                                                j++;
                                                                 continue;
label285: Toast.makeText(<u>HelloAndroid</u>,this.getApplicationContext(), "Bad boy ", 1).show();
                                                                 return;
                                                                int j = 0;
                                                              }
                                                            ı
           HelloWorldActivity.s
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🗞 Threads 🛛 🧯 Heap 📫 File Explor	er 🔀 🔋 Allocation Tracker	Emulator Control
Name	Size Date	Time Permissions Info
Config	2016-02-01	17: dr-x
jan de la constante de la con	2016-02-01	17: lrwxrwxrwx -> /sys/ke
🔻 🗁 data	2015-12-03	04: drwxrwxx
🕨 🗁 anr	2016-02-01	17: drwxrwxr-x
🕨 🗁 app	2016-02-01	06: drwxrwxx
app-asec	2015-12-03	04: drwx
app-lib	2015-12-03	04: drwxrwxx
app-private	2015-12-03	04: drwxrwxx
backup	2016-02-01	06: drwx
bugreports	2015-12-03	04: lrwxrwxrwx -> /data/d
dalvik-cache	2015-12-03	04: drwxrwxx
🔻 🗁 data	2016-01-28	12: drwxrwxx
com.android.backupconfirm	2015-12-03	04: drwxr-xx
com.android.bluetooth	2015-12-03	04: drwxr-xx
Com.android.browser	2016-01-11	04: drwxr-xx
Com.android.calculator2	2015-12-03	04: drwxr-xx
Com.android.calendar	2015-12-03	04: drwxr-xx
com.android.camera2	2015-12-03	04: drwxr-xx
🕨 🗁 com.android.captiveportallogin	2015-12-03	04: drwxr-xx
Com.android.certinstaller	2016-02-01	17: drwxr-xx
Com.android.contacts	2015-12-03	04: drwxr-xx
Com.android.customlocale2	2015-12-03	04: drwxr-xx
Com.android.defcontainer	2015-12-03	06: drwxr-xx
com.android.deskclock	2015-12-03	04: drwxr-xx
com.android.development	2015-12-03	04: drwxr-xx
Com.android.development_s	2015-12-03	04: drwxr-xx
com.android.dialer	2015-12-03	04: drwxr-xx
Com.android.documentsui	2015-12-03	11: drwxr-xx
com.android.dreams.basic	2015-12-03	04: drwxr-xx

							Quick Access	
🖏 Threads	🔒 Heap	📫 File Explorer 🛛	Allocation Track	er 💿 Emu	ulator Control		System Information	
Name		Size D	late	Time	Permissions	Info		
	cache		016-01-05		drwxrwxx			
▶ 🔁	databases	2	016-01-05	09:	drwxrwxx			
• • •	files	2	016-02-01	17:	drwxrwxx			
	DATA_Serve	rControlle 2280 2	016-02-01	17:	-rw-rw			
	DATA_cache	-migratio 30 2	016-01-05	09:	-rw-rw			
	DATA_disk_d	reation_ti 8 2	016-01-05	09:	-rw-rw			
	DATA_disk_d	reation_ti 8 2	016-01-05	09:	-rw-rw			
	DATA_disk_d	reation_ti 8 2	016-01-05	09:	-rw-rw			
	DATA_disk_d	reation_ti 8 2	016-01-05	09:	-rw-rw			
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	ZoomTables	.data 1938 2	016-01-05	09:	-rw-rw			
	📄 _m_t	234 2	016-02-01	17:	-rw-rw			
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	event_store	v2_de.mv 418 2	016-01-25	10:	-rw-rw			
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🔻 🗁	shared_prefs	2	016-02-01	17:	drwxrwxx			
	AppStateRe	pository.xml 230 2	016-01-11	04:	-rw-rw			
	📄 MapviewInit	alizerPref 138 2	016-02-01	17:	-rw-rw			
	📄 WebViewCh	romiumPr 124 2	016-01-05	09:	-rw-rw			
	com.google	maps.api 211 2	016-01-05	09:	-rw-rw			
🕨 🦳 de	.mvg.more.k	2	016-01-26	09:	drwxr-xx			
🕨 🦳 de	.mvg.more.k2	2	016-01-13	05:	drwxr-xx			
🕨 🧁 de	.mvg.more.k_ng	2	016-01-21	04:	drwxr-xx			
🕨 🥟 go	m.play.android.	samples.c 2	015-12-03	11:	drwxr-xx			
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🕨 🗁 dontp	banic	2	015-12-03	04:	drwxr-x			
🕨 🧁 drm		2	015-12-03	04:	drwxrwx			
🕨 🧁 local		2	015-12-03	04:	drwxr-xx			
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1 xml v<br 2 <map></map>	ersion='1.0'	encoding='utf-8	3' standalone='	yes' ?>				
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		AppStateReposito				10 10	ob fill, set ang	
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6								

Com.google.android.gsf	2015-12-03	05: drwxr-xx
com.google.android.gsf.login	2015-12-03	05: drwxr-xx
Com.google.android.launcher.layouts.genymotion	2015-12-03	04: drwxr-xx
Com.google.android.marvin.talkback	2015-12-03	10: drwxr-xx
Com.google.android.music	2015-12-09	08: drwxr-xx
Com.google.android.onetimeinitializer	2015-12-03	05: drwxr-xx
🔻 🗁 com.google.android.partnersetup	2015-12-03	05: drwxr-xx
🕨 🗁 cache	2015-12-03	05: drwxrwxx
🔻 🗁 databases	2015-12-03	05: drwxrwxx
📄 riz_data.db	32768 2016-02-01	17:rw-rw
📄 riz_data.db-journal	12824 2016-02-01	17:rw
ib lib	2015-12-03	05: lrwxrwxrwx -> /data/a
shared_prefs	2016-02-01	17: drwxrwxx
com.google.android.play.games	2016-02-01	17: drwxr-xx
com.google.android.setupwizard	2015-12-03	05: drwxr-xx
com.google.android.street	2016-02-01	17: drwxr-xx
Com.google.android.syncadapters.calendar	2015-12-03	06: drwxr-xx





Welcome to Wireshark

Capture

...using this filter: Enter a capture filter ...

*

Wi-Fi: en0	M
awdl0	
Thunderbolt Bridge: bridge0	
Thunderbolt 1: en1	
vboxnet1	M
p2p0	
Loopback: Io0	1~~~

Learn

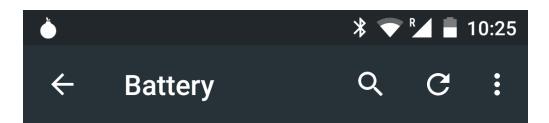
User's Guide $\,\cdot\,$ Wiki $\,\cdot\,$ Questions and Answers $\,\cdot\,$ Mailing Lists

You are running Wireshark 2.0.0 (v2.0.0-0-g9a73b82 from master-2.0).

2										No Packets	Profile: Default
11.5										He Fuckets	
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to	p.port == 8	30									Expression
No.		Source		Destin	nation		A Dro	tocol Lend	th Info		
		192.168.2.10	1			88.13	TC		4 55545 → 80 [ACK] Seg=1365 Ack=334 Win=263	1792 Len=0	
		192.168.2.10				88.13	то		4 55545 → 80 [FIN, ACK] Seg=1365 Ack=334 W		
L	378 1	192.168.2.10	L I	130.	117.	88.13	тс		4 55545 → 80 [ACK] Seg=1366 Ack=335 Win=262		
	211 8	192.168.2.10	1	130.	117.	88.22	тс	P 5	4 49825 → 80 [FIN, ACK] Seq=1 Ack=1 Win=819	92 Len=0	
	293 9	192.168.2.10	l.	130.	117.	88.22	тс	:P 5	4 [TCP Retransmission] 49825 \rightarrow 80 [FIN, ACH	<] Seq=1 Ack=1 Win=8192 Len=0	
	334 9	192.168.2.10	¥	130.	117.	88.22	тс	P 5	4 [TCP Retransmission] 49825 \rightarrow 80 [FIN, ACH	<] Seq=1 Ack=1 Win=8192 Len=0	
	379 1	192.168.2.10	¥	130.	117.	88.22	тс	P 5	4 [TCP Retransmission] 49825 → 80 [FIN, ACH	<] Seq=1 Ack=1 Win=8192 Len=0	
	617 1	192.168.2.10	ŧ.	130.	117.	88.22	тс		4 [TCP Retransmission] 49825 \rightarrow 80 [FIN, ACH		
	1003 1	192.168.2.10	ŧ.	130.	117.	88.22	тс		4 [TCP Retransmission] 49825 → 80 [FIN, ACH		
		192.168.2.10				29.43	тс		8 55543 → 80 [SYN] Seq=0 Win=65535 Len=0 MS		SACK_PERM=1
		192.168.2.10				29.43	тс		4 55543 → 80 [ACK] Seq=1 Ack=1 Win=262144 L		
		192.168.2.10				29.43			<pre>0 GET /p/108/sp/10800/embedIframeJs/uiconf_</pre>		
		192.168.2.10				29.43	тс		4 55543 → 80 [ACK] Seq=477 Ack=507 Win=2616		
		192.168.2.10				113.90	тс		6 50989 → 80 [FIN, ACK] Seq=1 Ack=1 Win=409		ð77
		192.168.2.10				113.90	тс		6 50989 → 80 [ACK] Seq=2 Ack=2 Win=4096 Ler		
		192.168.2.10				116.154			8 55528 → 80 [SYN] Seq=0 Win=65535 Len=0 MS		
		192.168.2.10				116.154			8 55529 → 80 [SYN] Seq=0 Win=65535 Len=0 MS		
		192.168.2.10				116.154			6 55528 → 80 [ACK] Seq=1 Ack=1 Win=131584 L		
		192.168.2.10				116.154			6 55529 → 80 [ACK] Seq=1 Ack=1 Win=131584 L		
		192.168.2.10				116.154			5 GET /activeview?id=osdtos&avi=BeYTqmgCxVv		
		192.168.2.10				116.154			7 GET /activeview?id=osdtos&avi=Bz-psmQCxVc		
		192.168.2.10				116.154			6 55528 → 80 [ACK] Seq=1270 Ack=471 Win=133		
		192.168.2.10				116.154			6 55529 → 80 [ACK] Seq=1162 Ack=471 Win=133		
		192.168.2.10				116.154			6 55528 → 80 [FIN, ACK] Seq=1270 Ack=471 W:		
	221 8	192.168.2.10	•	1/3.	194.	116.154	тс	.P 0	6 55528 → 80 [ACK] Seq=1271 Ack=472 Win=133	1104 Len=0 TSVal=123707675 TSecr=5167	+8974
		Transfer Prot									
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		staticos02.el									
		image/webp,*									
									- 5.0.0 - API 21 - 1440x2560 Build/LRX21M)	AppleWebKit/537.36 (KHTML, like Gecko	 Version/4.0 Chrome
						2016/02	2/02/560	Je3b1268	e3e8a538b4653.html\r\n		
		Encoding: gzi		te\r\n							
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Þ							5M-62211-62.	272178220	%22%3A%22m%22%2C%22u%22%3A0%2C%22c%22%3A%22	.>>223/0; UE_pret=%/0%22V%22%3A%22N%22	.7217220722753472207822
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		se in frame:	581								
003	20 00	27 f7 00 00 4	45 54						T /asset		
004	73 2f	64 65 73 6b 7						/deskto	p/master		



Chapter 8: Optimizing Battery Consumption



Battery mode

Balanced

Enable per-app profiles

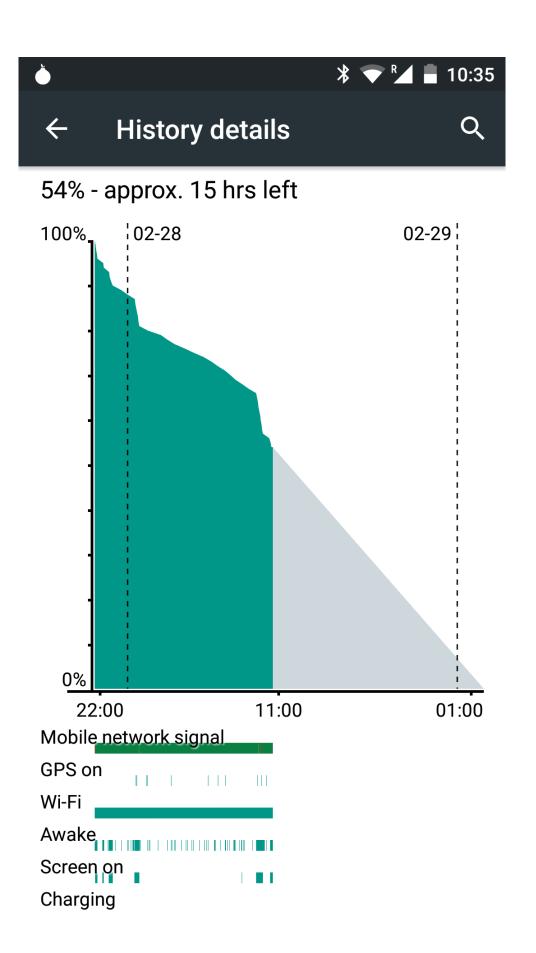
Automatically choose an appropriate battery mode for various apps

Battery usage

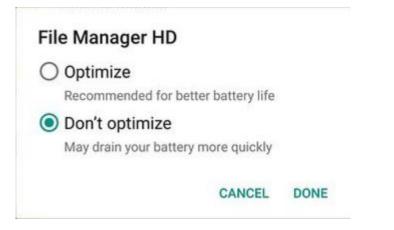
55% - approx. 16 hrs left 100% 02-28 02-29 0% 22:00 11:00 02:00

Use since last full charge

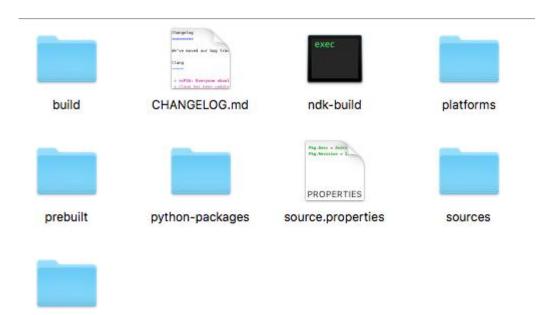




🖂 🍐		≹ 💎 № 📕 10:44
\	Use details	Q
	Android-System	6%
	Battery used by app	
USE I	DETAILS	
CPU	total	1h 33m 33s
CPU	foreground	33s
Keep	o awake	2m 19s
Wi-F	i packets received	230
Wi-F	i packets sent	377
INCL	UDED PACKAGES	
Setti Cyar Setu Quic Andı Cyar Phor	ationServices ings Storage nogenMod System p Wizard kBoot roid System nogenMod Resolver ne t Devices	



Chapter 9: Native Coding in Android



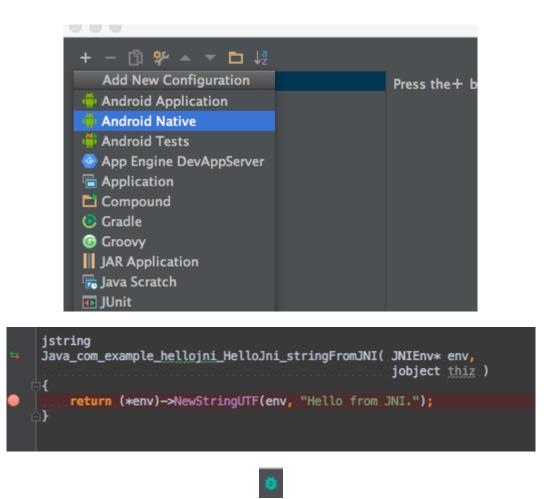
toolchains

GNU nano 2	.0.6	File: /etc/paths
/usr/bin		
/bin		
/usr/sbin /sbin		
/usr/local/b	in	
	s/android-sdk-m	
\$HOME	S7 anur 01 u-Suk-II	nacosx/platform-tools
		[Read 8 lines]
<mark>^G</mark> Get Help		'R Read File ^Y Prev Page ^K Cut Text ^C Cur Pos
<mark>^X</mark> Exit	🎒 Justify 🥤	🕷 Where Is 🛛 <mark>^V</mark> Next Page <mark>^U</mark> UnCut Text <mark>^T</mark> To Spell 👘

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📑 HellojNI 👌 📑 app 👌	src 🔁 main 👌 🖿 java 👌 🖬 com 🕽 💼	hellojni		
ting app app app app app app app ap		n 🥠 Tests 🔸	⊕ ≑ ┿- ⊩-	
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► Cares	Tication Fast	光X 米C ひ米C	 Android resource file Android resource directory File Package 	,
Solution of the second	Copy Reference	C ድድጋ ሄV	S C++ Class	
	Find Usages	\ . F7	C/C++ Header File	
	Find in Path Replace in Path Analyze	<mark>ት</mark> ት ት ድ ₽ ት ት ₽ ት የ ት የ ት የ ት የ ት የ ት የ ት የ የ የ የ	🌞 Image Asset 🐳 Vector Asset	
		٢	Singleton	
	Refactor	►	Edit File Templates	
	Add to Favorites Show Image Thumbnails	► ۵жт		•
	Reformat Code	۲#۲	🖷 Android Auto	•

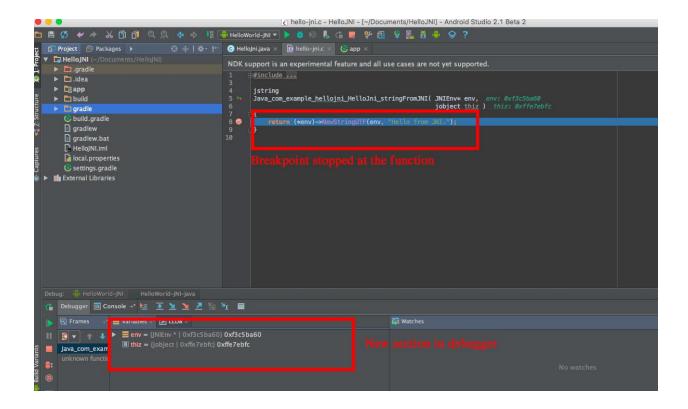
🔻 🛅 src
androidTest
🔻 🛅 main
🕨 🖿 java
🔻 🗖 jniLibs
🔻 🗖 armeabi
🔲 libhello-jni.so
armeabi-v7a
mips
► 🗖 x86
Tes
🙆 Android Manifest.xml
🕨 🛅 test



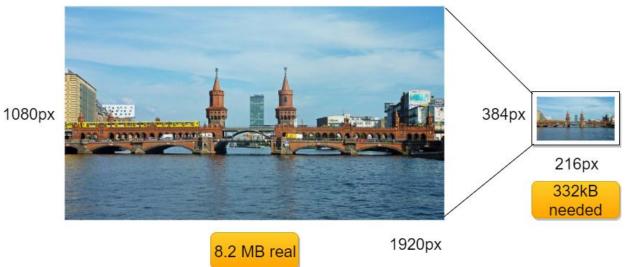


- 04/30 11:58:19: Launching HelloWorld-JNI
- No apk changes detected since last installation, skipping installation of /Users/enriquelopezmanas/Doc \$ adb_shell_am_force-stop_com.example.hellojni \$ adb_shell_am_start_-D_-n "com.example.hellojni/com.example.hellojni.HelloJni" -a android.intent.acti Waiting_for_application_to_come_online:_com.example.hellojni.test | com.example.hellojni

- Connecting to com.example.hellojni
- Now Launching Native Debug Session 6



Chapter 10: Performance Tips



Source Image



1080px

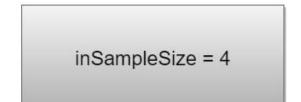
1920px

Intermediate Image

270px



480px





Final Image

180px

inDensity = 480 inTargetDensity = 320

320px

