



uiautomatorviewer does not work

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WAI Bug P3 + Add Hotlist

STATUS UPDATE No update yet. Edit

DESCRIPTION al...@gmail.com created issue #1

Build: AI-213.7172.25.2113.9123335, 202209300301,
AI-213.7172.25.2113.9123335, JRE 11.0.13+0-b1751.21-8125866x64 JetBrains s.r.o., OS Mac OS X(aarch64) v12.5, screens 3024.0x1964.0, 1920.0x1080.0; Retina
AS: Dolphin | 2021.3.1 Patch 1 Kotlin plugin: 213-1.7.20-release-for-android-studio-AS6777.52 Android Gradle Plugin: 7.2.1 Gradle: 7.4.2 Gradle JDK: version 11.0.13 NDK: from local.properties: (r found)
I have MacBook Pro with CPU M1 Pro I have difficulties running 'uiautomatorviewer' tool. Initial error was the following:

```
% uiautomatorviewer
SWT folder '/Users/exelon/Library/Android/sdk/tools/lib/aarch64' does not exist.
Please export ANDROID_SWT to point to the folder containing swt.jar for your platform.
```

Then I found on internet a version of swt.jar library for aarch64. And when I tried to run this tool again I got the following error:

```
% uiautomatorviewer
-Djava.ext.dirs=/Users/exelon/java8env:/Users/exelon/Library/Android/sdk/tools/lib is not supported. Use -classpath instead.
Error: Could not create the Java Virtual Machine.
Error: A fatal exception has occurred. Program will exit.
```

I figured out that it was because I was using JDK 11, that comes with Android Studio, java 11 does not support java.ext.dirs mechanism. I was trying to modify uiautomatorviewer to use classpath

```
#exec "${javaCmd}" $javaOpts -Djava.ext.dirs="$frameworkdir" -Dcom.android.uiautomator.bindir="$progdir" -jar "$jarpath" "$@"
exec "${javaCmd}" $javaOpts -classpath "$frameworkdir" -Dcom.android.uiautomator.bindir="$progdir" -jar "$jarpath" "$@"
```

And it lead to the following result(looks like in this case classpath was just ignored):

```
% uiautomatorviewer
Error: Unable to initialize main class com.android.uiautomator.UiAutomatorViewer
Caused by: java.lang.NoClassDefFoundError: org/eclipse/swt/widgets/Control
```

So I reverted this change and tried to find and install JDK 8 for aarch64. I installed corretto64-1.8.0.352 from Amazon. But now I'm getting the following error. Obviously SWT library is not support

```
% uiautomatorviewer
Error: A JNI error has occurred, please check your installation and try again
Exception in thread "main" java.lang.UnsupportedClassVersionError: org/eclipse/swt/widgets/Control has been compiled by a more recent version of the Java Run
    at java.lang.ClassLoader.defineClass1(Native Method)
    at java.lang.ClassLoader.defineClass(ClassLoader.java:756)
    at java.security.SecureClassLoader.defineClass(SecureClassLoader.java:142)
    at java.net.URLClassLoader.defineClass(URLClassLoader.java:473)
    at java.net.URLClassLoader.access$100(URLClassLoader.java:74)
    at java.net.URLClassLoader$1.run(URLClassLoader.java:369)
    at java.net.URLClassLoader$1.run(URLClassLoader.java:363)
    at java.security.AccessController.doPrivileged(Native Method)
    at java.net.URLClassLoader.findClass(URLClassLoader.java:362)
    at java.lang.ClassLoader.loadClass(ClassLoader.java:418)
    at java.lang.ClassLoader.loadClass(ClassLoader.java:351)
    at java.lang.Class.getDeclaredMethods0(Native Method)
    at java.lang.Class.privateGetDeclaredMethods(Class.java:2729)
    at java.lang.Class.privateGetMethodRecursive(Class.java:3076)
    at java.lang.Class.getMethod0(Class.java:3046)
    at java.lang.Class.getMethod(Class.java:1812)
    at sun.launcher.LauncherHelper.validateMainClass(LauncherHelper.java:650)
    at sun.launcher.LauncherHelper.checkAndLoadMain(LauncherHelper.java:632)
```

I find uiautomatorviewer tool very useful and would want to continue working with it but it looks like it's not supported very well anymore. I tried to use Layout Inspector instead, but honestly the

COMMENTS

am...@google.com <am...@google.com>
Assigned to jl...@google.com.



jl...@google.com <jl...@google.com> #2

I tried to use Layout Inspector instead, but honestly the results which I got with it looked so bad that they just could not be used.

Could you elaborate on what is "bad" ?

- information that is missing ?
- functionality missing ?
- connection problems ?
- could you include screenshots and point to problems ?



al...@gmail.com <al...@gmail.com> #3

information and functionality problems probably yes, connection - no.

Let me share a screenshot to allow you to better understand what I mean.
This is what I see in uiautomatorviewer - each element can be selected in the left side, and will be automatically selected in the right panel and vice versa.

[image: Uiautomatorviewer.png]

On the other hand this is a screenshot from the layout inspector. Though elements are selectable I see some weird artifacts, e.g. the frame in the upper right corner which really didn't exist on screen and is not selectable here. And also I don't have such important information as positions and sizes of elements.

[image: LayoutInspector.png]

On Mon, Nov 28, 2022 at 7:38 AM <buganizer-system@google.com> wrote:

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al...@gmail.com <al...@gmail.com> #4

nevermind, I think I got my mistake, I found attributes, so probably I just need to get used to using layout inspector.

On Wed, Nov 30, 2022 at 3:44 PM Alexey Yahno <alexey.yahno@gmail.com> wrote:

[- Show quoted text -](#)



jl...@google.com <jl...@google.com> #5

Status: Won't Fix (Intended Behavior)

OK, so I will close this bug then. I hope you find the Layout Inspector useful.

BTW: did you use the "Add Attachment" button (the clip) ?
Somehow your images were not uploaded.



al...@gmail.com <al...@gmail.com> #6

maybe it's because I didn't use issuetracker interface, but just replied from gmail web interface as if it was a regular email.

On Thu, Dec 1, 2022 at 7:50 AM <buganizer-system@google.com> wrote:

[- Show quoted text -](#)