# **Errors and Issues during Migration of Processing-Android.**

**GSoC 2020** 

#### The Processing Foundation





#### Gradle configuration during GSoC:

```
Terminal: Local × Local(2) * +
adityarana@AdityaRana:-/Processing/processing-android/processing-android* gradite -version

Gradite 5.6.2

Build time: 2019-09-05 16:13:54 UTC
Revision: 55a5e532d955c00ftc70e4694412fc624651a8e781

Notlin: 1.3.41

Groov: 2.5.4

Ant: Apache Ant(TN) version 1.9.14 compiled on March 12 2019

JVN: 1.8.9.292 (Gracite Corporation 25.202-b88)

OS: Linux 5.8.8-38-generic and64

adityarana@AdityaRana:-/Processing/processing-android/processing-android$
```

#### System Configuration:

**Kotlin - 1.3.72** 

**Gradle - 5.6.2** 

**Ant** - 1.9.14

**JVM** - 1.8.0 202(Oracle Java - JRE)

OS - Ubuntu - 19.04 ( kernel - Linux 5.0.0-38-generic )

#### 1. Ant build system tool not working properly for Linux

 Faced this issue while setting up the Processing IDE in local system

```
BRIGHTHS: //more/adityarana/gsoc/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/processing/
```

- Raised it and solved it - #6011

2. No toolchains found in the NDK toolchains folder for ABI with prefix: mips64el-linux-android:

```
| Processing processin
```

Raised this issue - #599 StackOverflow post: solution

- 3. java.lang.IllegalArgumentException: Invalid Region.Op only INTERSECT and DIFFERENCE are allowed
- Faced this issue while using **clip()** and **noClip()** functions of the processing API.
- Reason is android deprecated these methods in API 26 android docs

```
The processing app

The Task : app:transformWaltiveLlab#IIIStripDebugSymbolForDebug

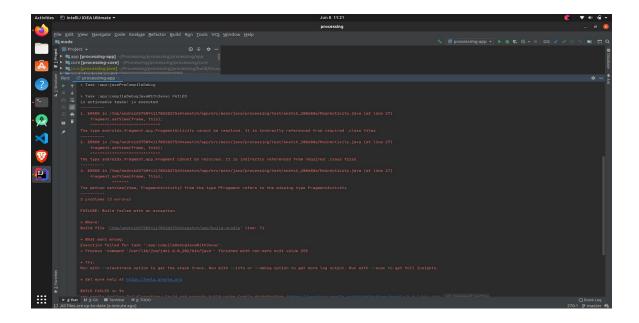
The Task : app:transformWaltiveSymbolForDebug

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```

Raised this issue - #603 Stackoverflow: solution

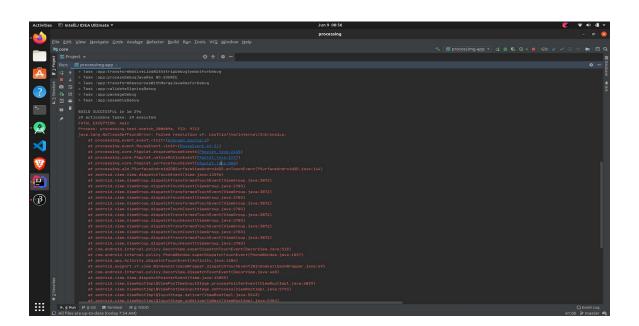
### 4. XYZ cannot be resolved. It is indirectly referenced from required .class file

- Faced this issue during migration(experimental) of support library from android support libraries to Androidx.
- Reasons may be missing of some used classes from the compile path.
- Same issue has been reported <u>here</u>



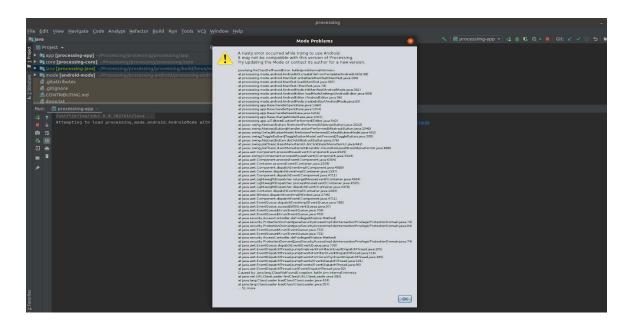
## **5.** java.lang.NOClassDefFoundError: Failed resolution of: LKotlin/jvm/internal/Intrinsics

- Faced this issue just after the migration of few classes in core library
- Reason may be the required kotlin libraries were not present in the runtimeclasspath



### 6. Runtime error while importing the processing-android in Processig IDE

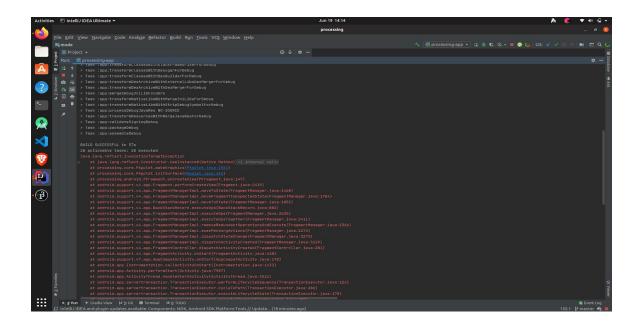
- One of the possible reason is the missing of the kotlin-runtime libraries in the main Processing IDE



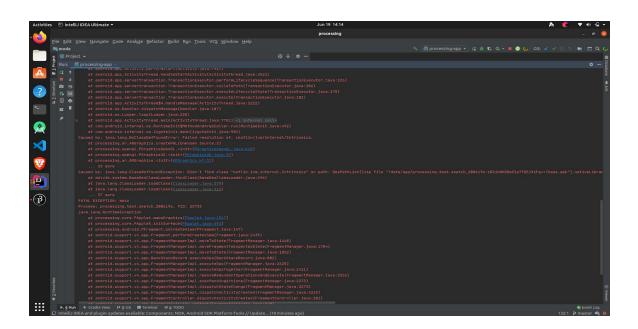
7. StreamPumping Error (internal error related to processing-android)

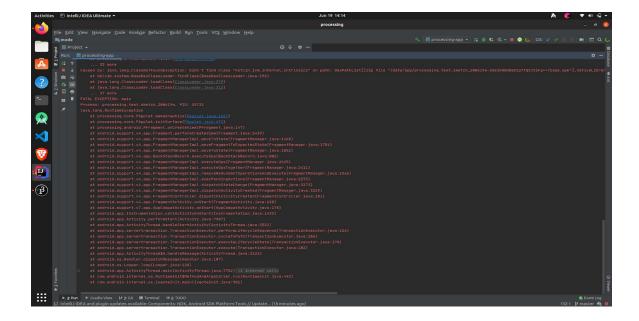
```
Activity | District |
```

#### 8. java.lang.reflect.InvocationTargetexception

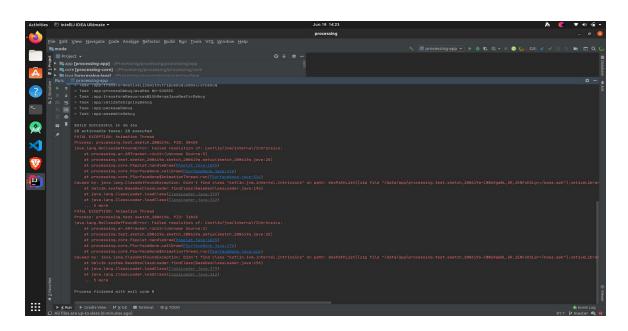


#### 9. Random Android Runtime errors



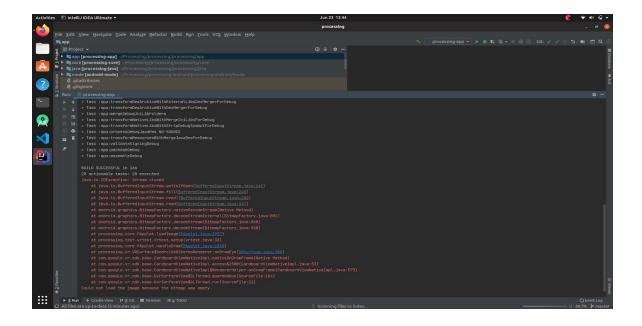


#### 10. AR library Android Runtime Errors



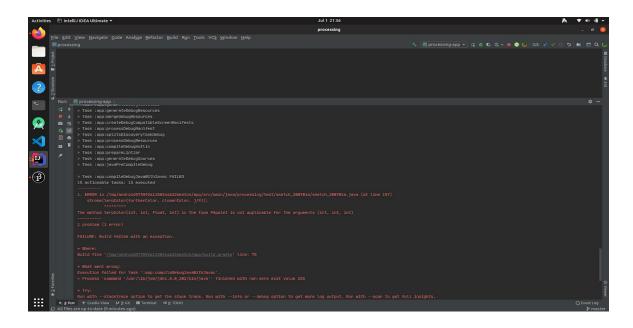
```
| Processing | Pro
```

#### 11. VR library Android Runtime Error



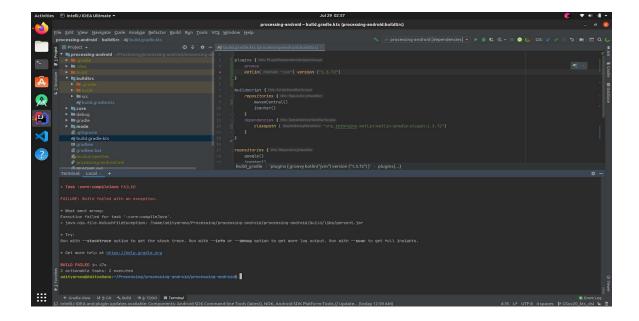
#### 12. lerpColor() error:

- lerpColor() api has been deprecated in this commit

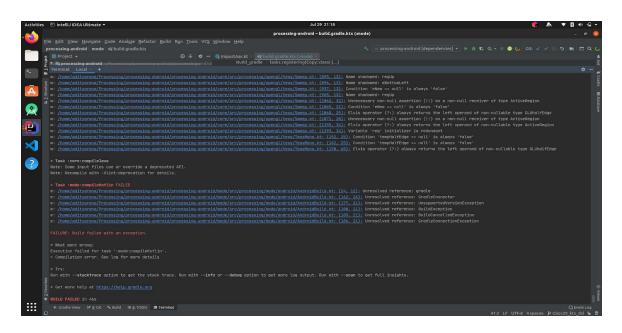


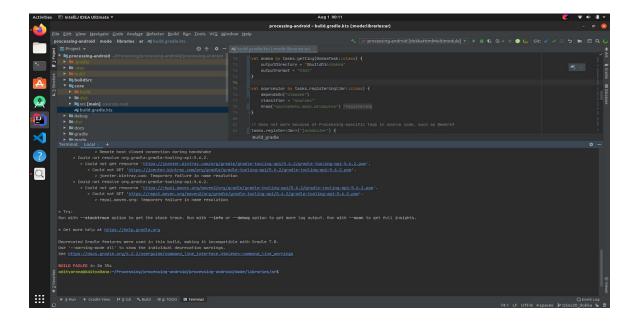
Raised issue: #598

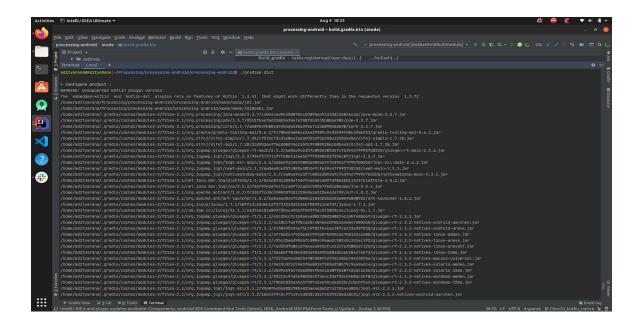
#### 13. Some Kotlin DSL Errors



- Build error for kts script of mode







### 14. SOME RARE GRADLE BUILD ERRORS DUE TO KOTLIN DSL SCRIPTS:

> Could not open cache <Random\_hash> (path/to/Random\_hash) > kotlin/jdk7/AutoCloseablekt

Note: if you face such an error Don't panic try out

- Cleaning the project build files
- Cleaning the gradle caches
- Kill all Gradle and java processes
- Check if you are using two different versions of gradle in some sub-projects (mostly possible issue related with this error)

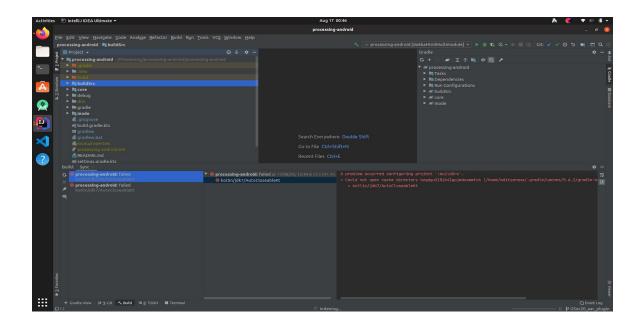
This error was recognised by Gradle itself and can be found here #9642

And in more detail here #4823 and #13061

When using evaluationDependsOn(p) or Configure-On-Demand, it can happen a project is evaluated before its parent.

Reason: When this happens, parent classloader scopes aren't locked. This works in most cases with Groovy scripts because Gradle doesn't run with -Dorg.gradle.classloaderscope.strict=true. It currently fails with Kotlin scripts because the Kotlin DSL provider requires parent

scopes to be locked in order to deterministically compute script compilation classpaths.



Note: you may face this error due number of reasons -

- Corrupted gradle caches
- Having more than gradle wrappers in buildSrc or
- Without cleaning the project apply some other gradle wrappers to the project
- Having different versions of gradle in use and in project wrapper
- Having dense COD Configuration On Demand in the Project