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Thread: [NoClassDefFoundError: javafx/application/Application](#)

Tenno - February 1, 2019, 12:01 pm

Hello,

I'm having some trouble running my jar. It works perfectly fine in IntelliJ IDEA, but when running it from command line I get this error:

Code Error: Could not find or load main class com.myapp.Main

Caused by: java.lang.NoClassDefFoundError: javafx/application/Application

I have read that this might be an issue with Java 11. I'm currently running OpenJDK11. java -version returns this:

Code openjdk version "11.0.2" 2019-01-15

OpenJDK Runtime Environment 18.9 (build 11.0.2+9)

OpenJDK 64-Bit Server VM 18.9 (build 11.0.2+9, mixed mode)

This is a Maven project. I have added these dependencies for JavaFX:

```
Code    <dependency>
        <groupId>org.openjfx</groupId>
        <artifactId>javafx-controls</artifactId>
        <version>11.0.2</version>
    </dependency>
    <dependency>
        <groupId>org.openjfx</groupId>
        <artifactId>javafx-fxml</artifactId>
        <version>11.0.2</version>
    </dependency>
```

I run the command mvn clean install, and the build is successful

My VM options for IntelliJ are these:

Code --module-path "C:\path\to\javafx\javafx-sdk-11.0.2\lib"

--add-modules=javafx.controls,javafx.graphics,javafx.fxml

Does anybody have any idea what might be causing this issue? Do I have to go back to Java 8 JDK?

BottomNotch - February 2, 2019, 10:25 am

what command u running via command line? sure the full package is getting included? this is same pc?

did u see this yet? -

<https://stackoverflow.com/questions/16868446/javafx-exception-in-thread-main-java-lang-noclassdef-founderror-javafx-applica>

he includes some extra packaging/dependencies in the maven shit in one answer

Tenno - February 2, 2019, 2:39 pm

(Feb 2, 2019 11:25 AM)BottomNotch Wrote: [\[CITE\]](#) what command u running via command line? sure the full package is getting included? this is same pc?

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<https://stackoverflow.com/questions/16868446/javafx-exception-in-thread-main-java-lang-noclassdef-founderror-javafx-applica>

he includes some extra packaging/dependencies in the maven shit in one answer
I run `java -jar myapp.jar`. By full package, do you mean all dependencies? And yes, this is on the same computer.

I tried the different solutions in the link you provided, but unfortunately, it did not solve it.

NeXTSTEP - February 2, 2019, 11:30 pm

(Feb 2, 2019 03:39 PM)Tenno Wrote: [\[CITE\]](#) I run `java -jar myapp.jar`. By full package, do you mean all dependencies? And yes, this is on the same computer.

I tried the different solutions in the link you provided, but unfortunately, it did not solve it.
Yeah so you're going to want a "fat jar" in this case (maven doesn't auto pack in your dependencies unless you tell it to). I really don't like fat jar's however, so instead I would create a tiny launch script that include `Code java -Djavafx.whatever,etc.blah.blah -jar myapp.jar` to neatly package it all up as an executable.

Tenno - February 3, 2019, 3:49 am

(Feb 3, 2019 12:30 AM)NeXTSTEP Wrote: [\[CITE\]](#) Yeah so you're going to want a "fat jar" in this case (maven doesn't auto pack in your dependencies unless you tell it to). I really don't like fat jar's however, so instead I would create a tiny launch script that include `Code java -Djavafx.whatever,etc.blah.blah -jar myapp.jar` to neatly package it all up as an executable.

Yeah, I got it working by using the maven-assembly-plugin and running `Code mvn clean compile assembly:single` But I'm also not a fan of having a huge jar.

For your command to work, what do I need to give to the user? Do I need to install OpenJFX and have it in the same folder as the jar? I also have other dependencies, like JFoenix.

This is the first application I've made that is actually going to be used by people, so I'm trying to figure things out :)