

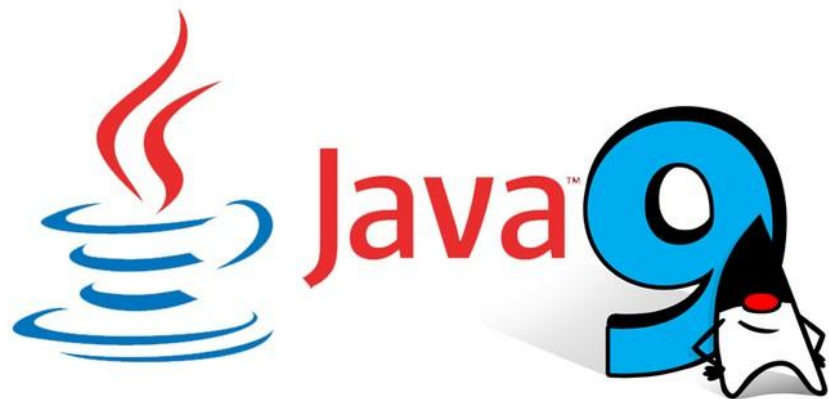


Get ready for java.jdk 9!

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Hope has their soldiers

- Jigsaw/JPMS
- The Reactive API
- REPL
- Everything Else



OOTB

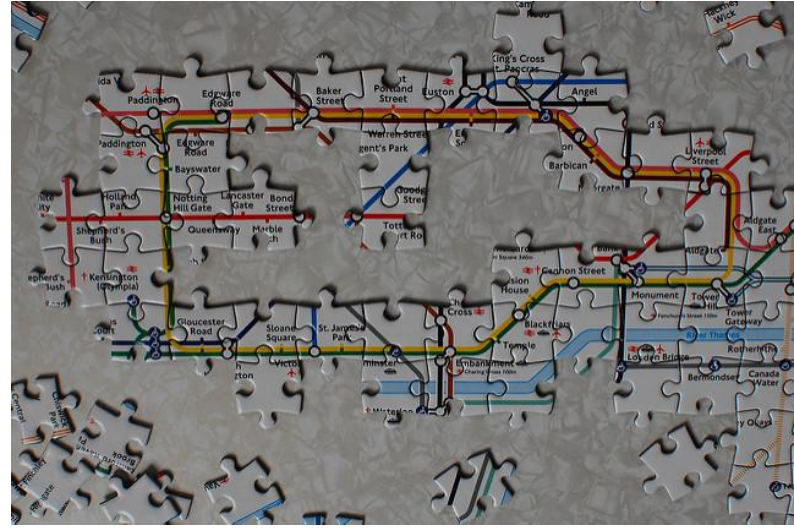
- Better Use of Memory
- Better Performance
- Better Use of Hardware
- Better Documentation
- Faster Compilation

[Hope home website](#)

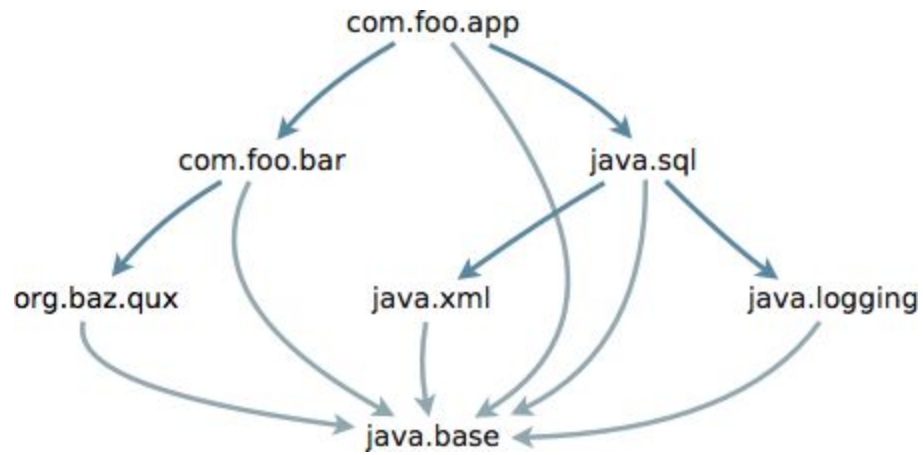
[Hope manual](#)

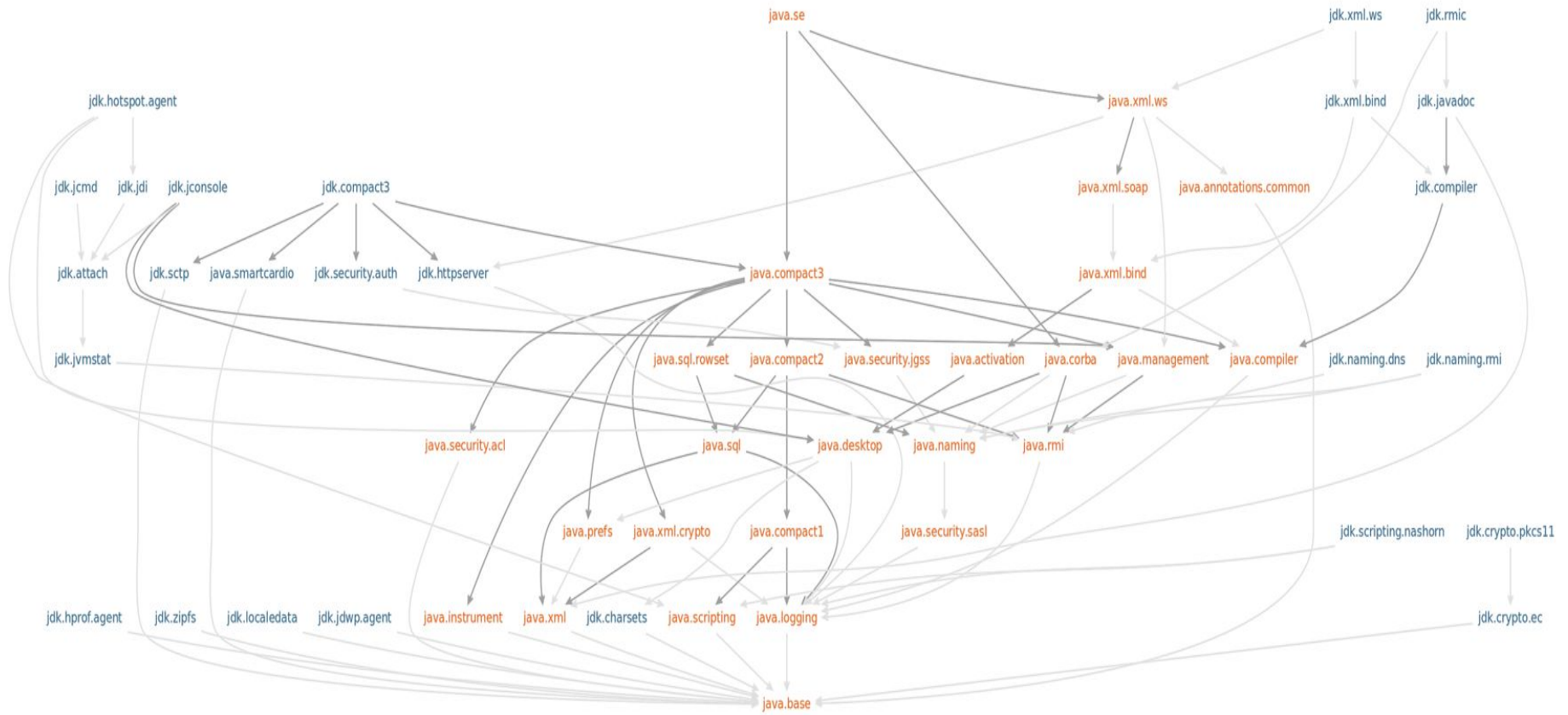


Jigsaw/JPMS



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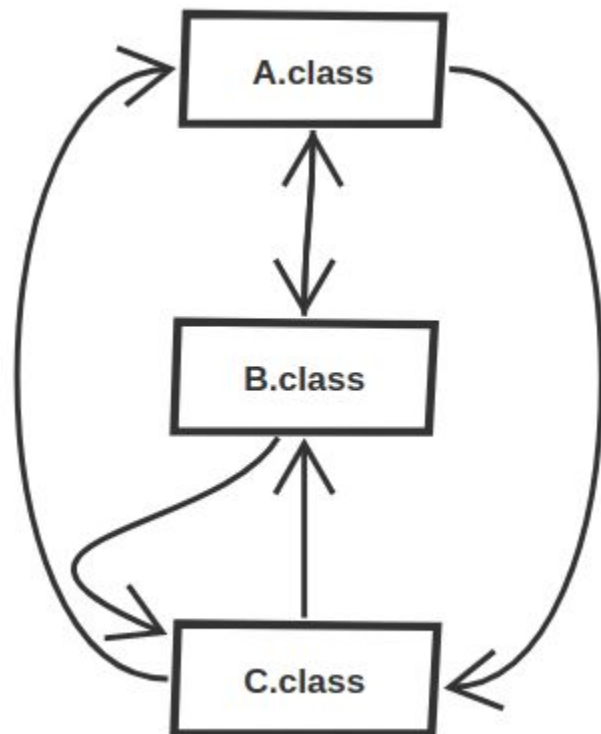
source : [OpenJDK.java.net](https://openjdk.java.net)

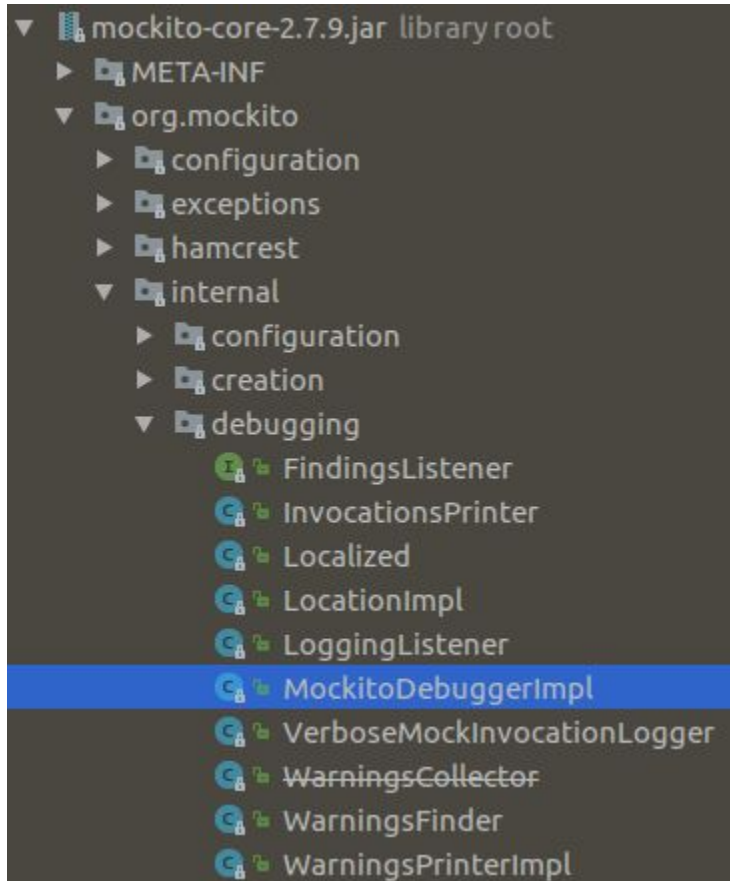
JPMS

- Make the Java SE Platform, and JDK, more easily scalable down to small computing devices
- Improve the security and maintainability of Java SE Platform Implementations in general and the JDK in particular
- Enable improved application performance
- Make it easier for developers to construct and maintain libraries and large applications, for both the Java SE and EE Platforms

JPMS

- a class is a container of fields and methods
- a package is a container of classes and interfaces
- a module is a container of packages

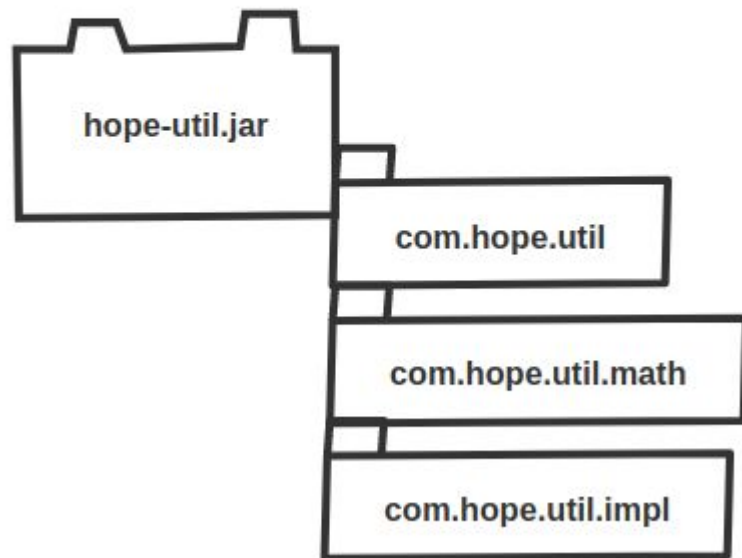




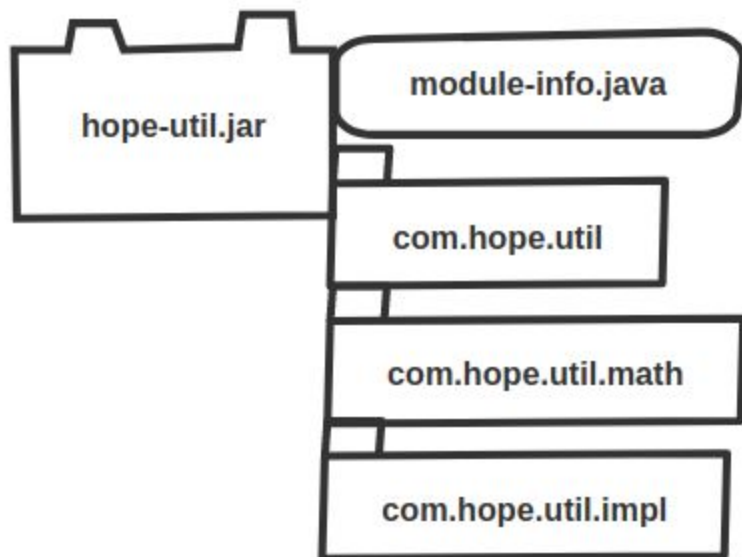


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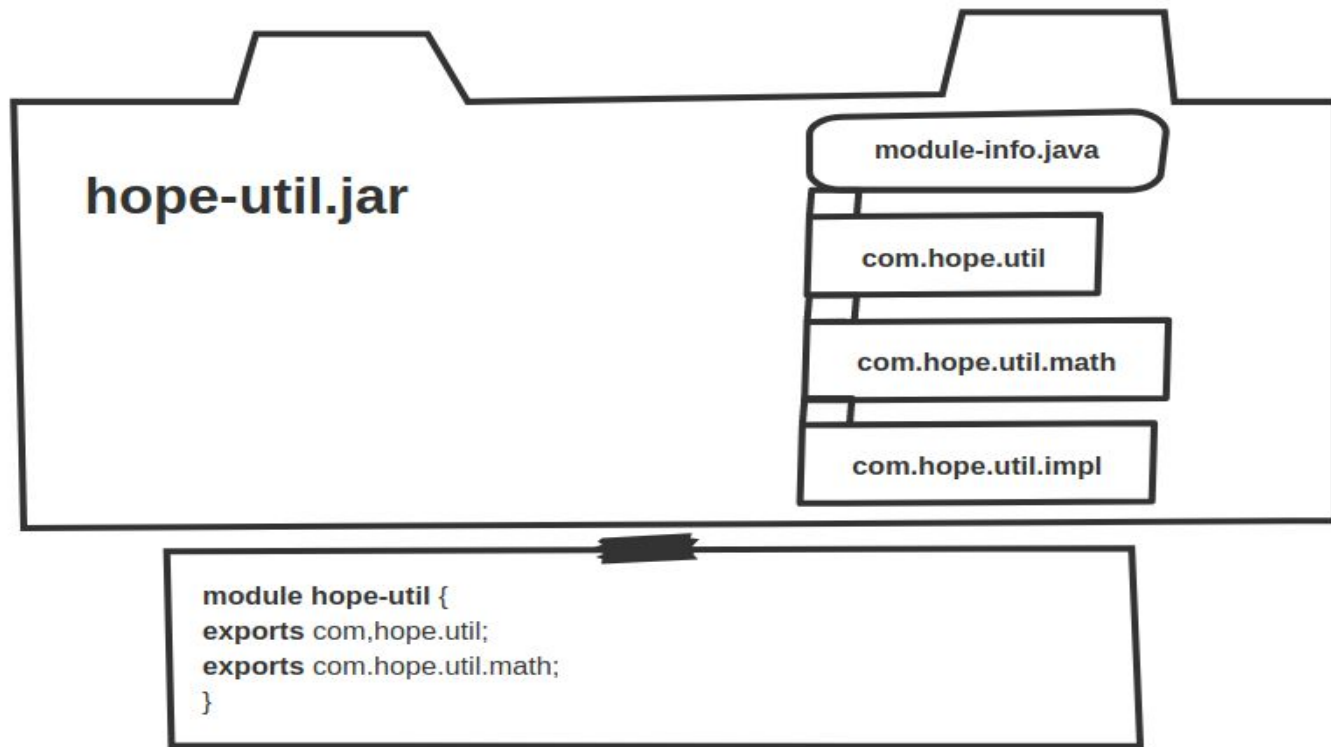
Classpath way



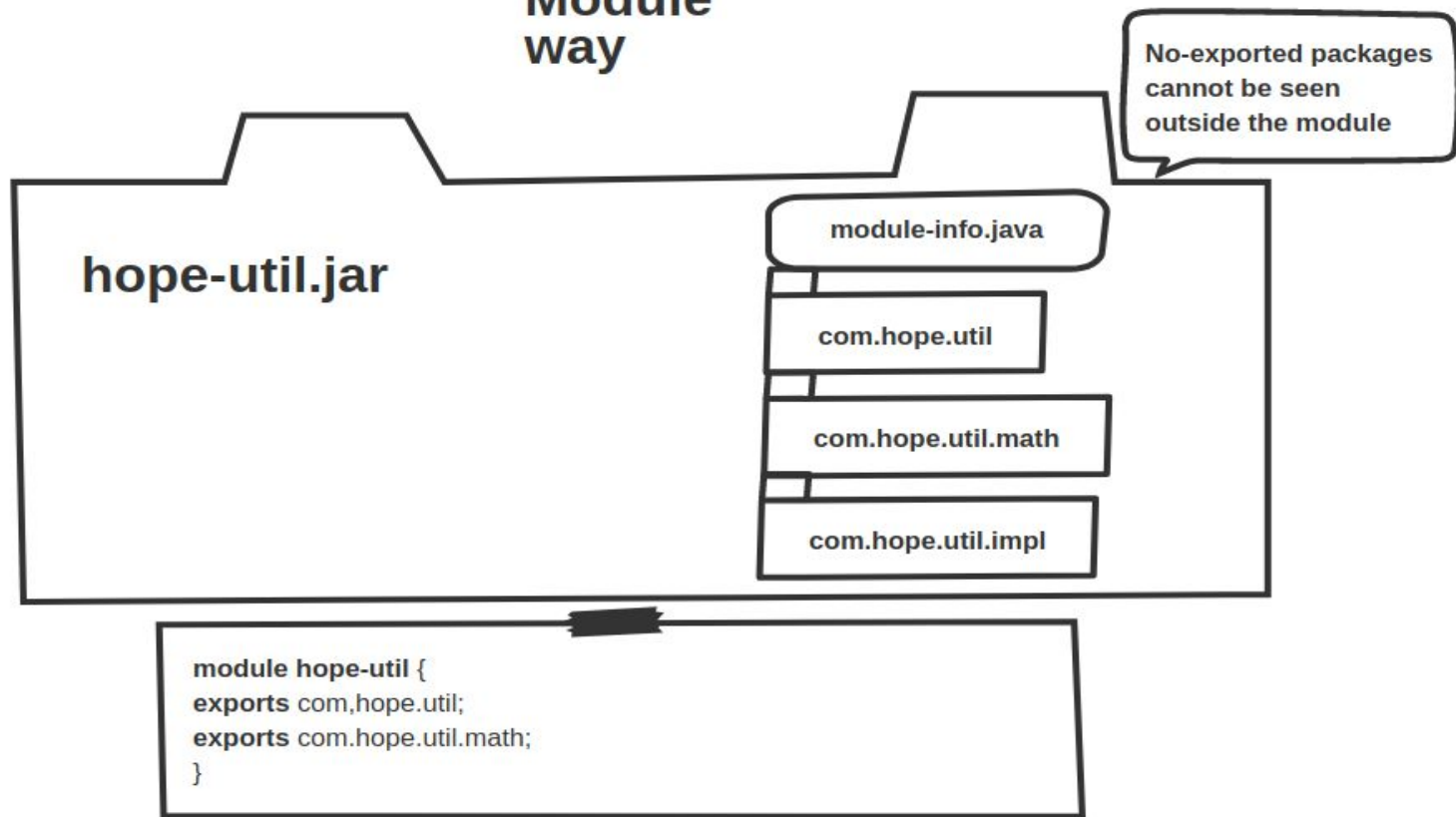
Module way



Module way



Module way





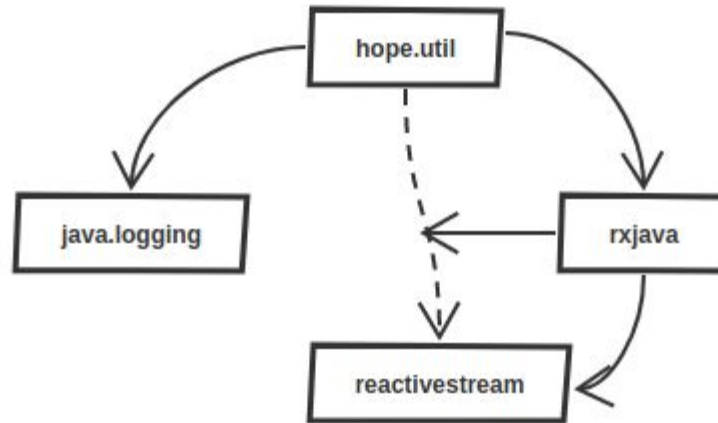
<https://www.flickr.com/photos/aksbang/7569857980/>



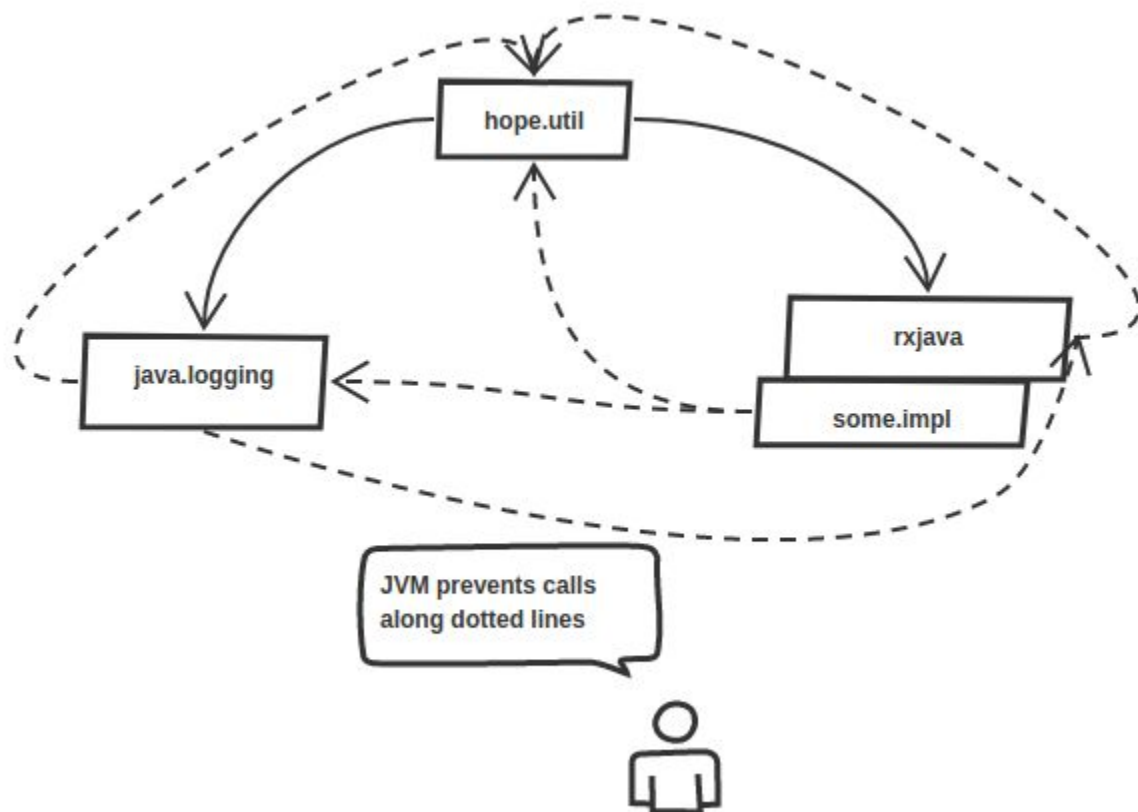
What modules does it depend on ?


What packages it export ?

```
module hope.util {  
  requires reactivex.rxjava;  
  requires java.logging;  
  export com.hope.util  
}
```




```
module rxjava {  
  requires transitive reactivestream;  
  export rxjava;  
}
```

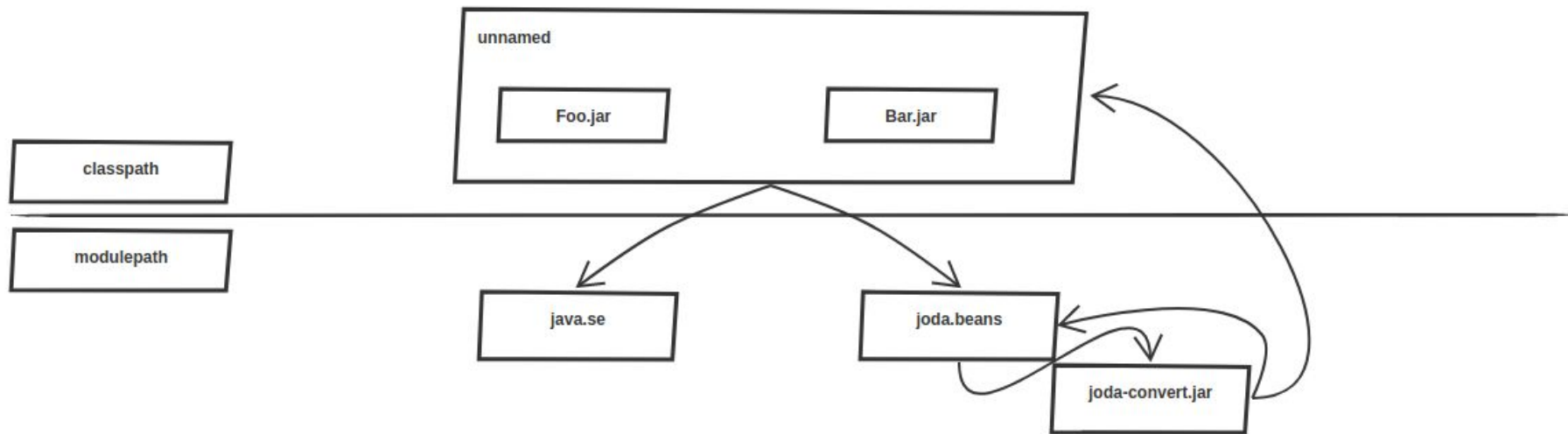


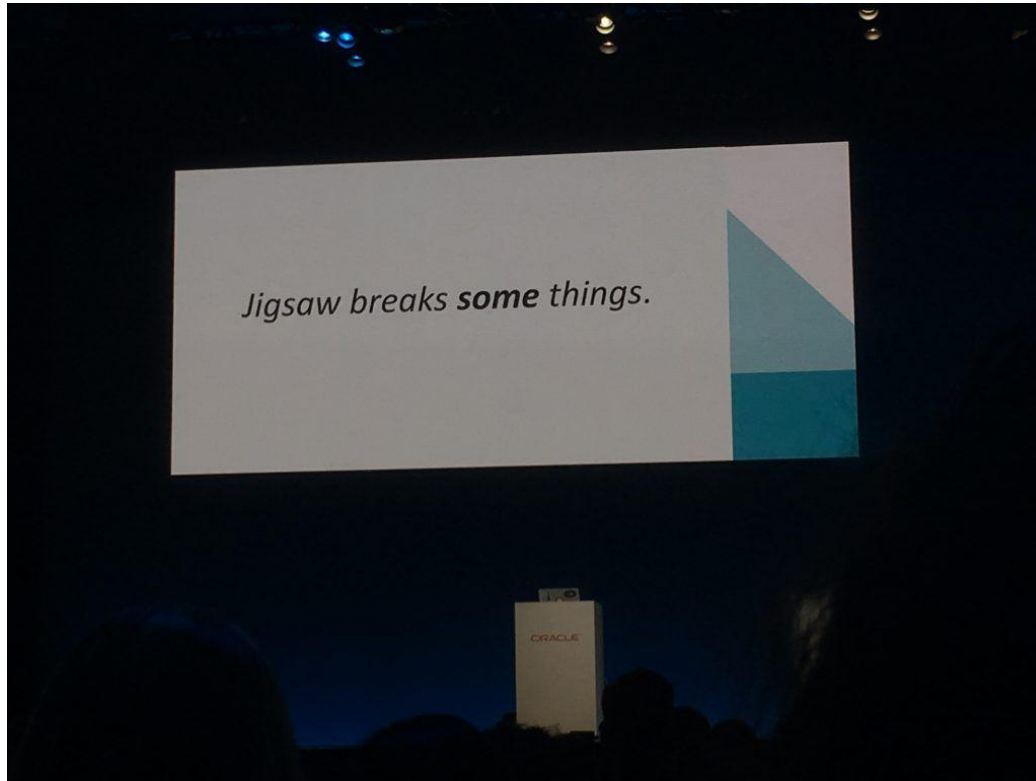


```
module hope.util {  
  requires transitive some_package;  
  opens hope.util.impl;  
}
```



```
open module hope.util {  
  requires transitive some_package;  
}
```







<https://www.flickr.com/photos/distillated/4019170798>

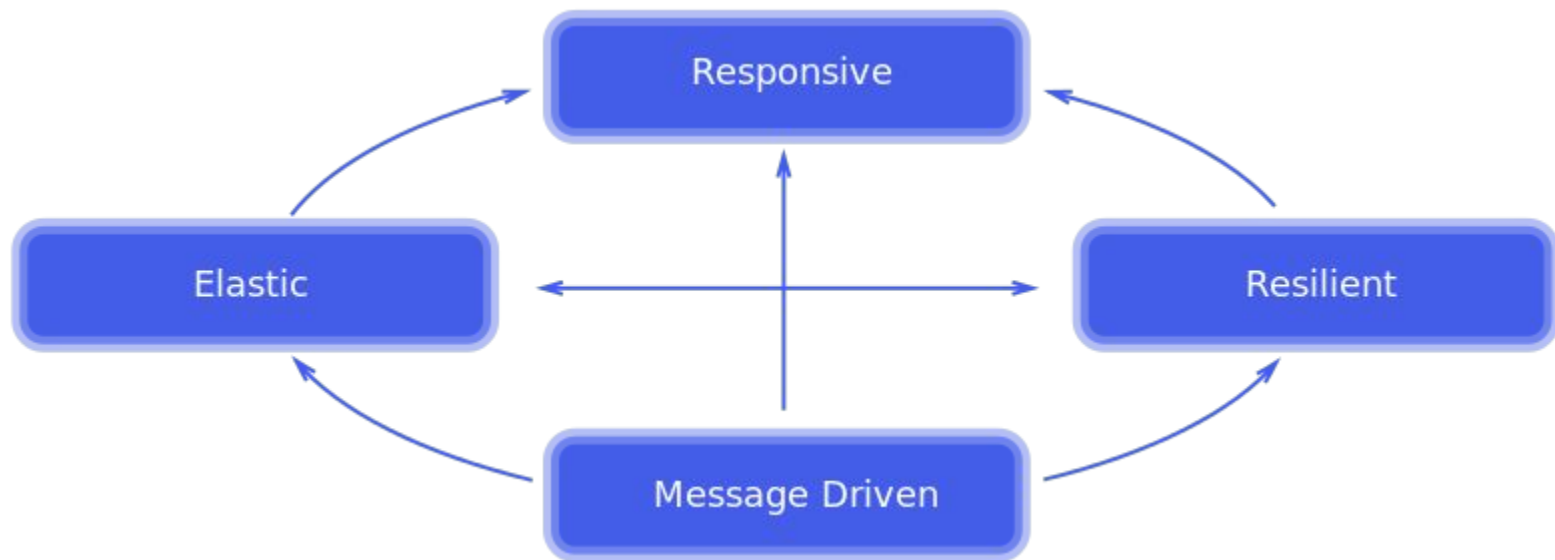


<https://i1.wp.com/www.javaadvent.com/content/uploads/2015/12/>

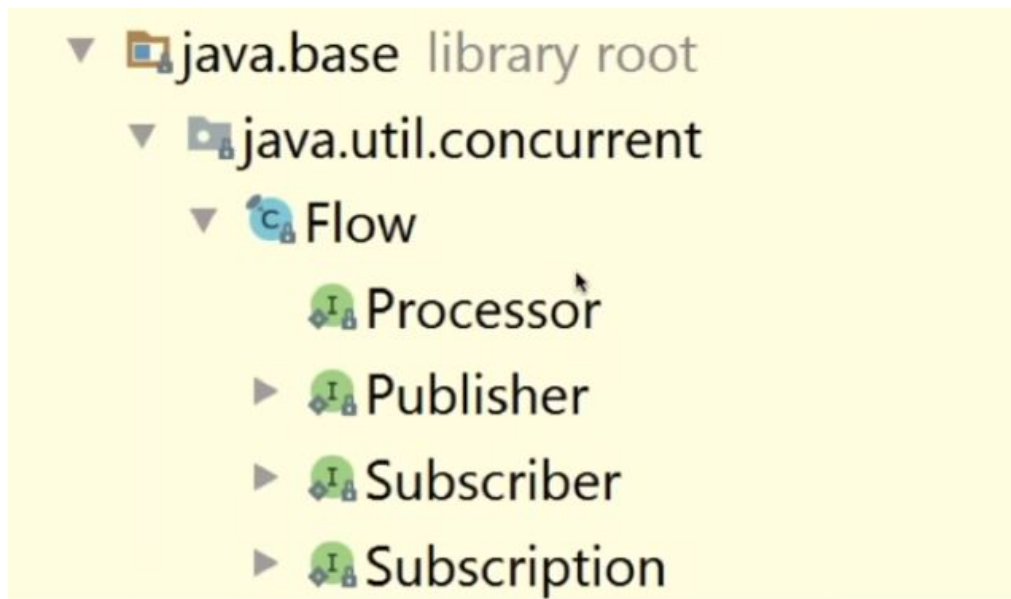
Reactive Stream API



<https://www.flickr.com/photos/95907952@N08/>



Reactive Stream API



Implementations



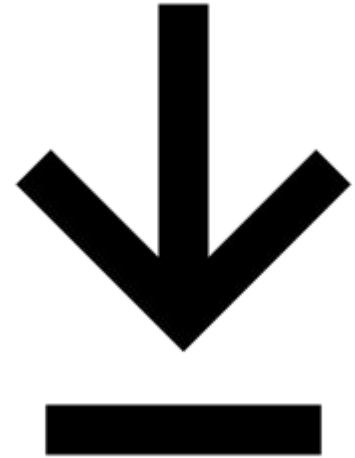
Akka Streams
Ratpack
Reactive Rabbit
Reactor
RxJava
Vert.x

Anything else... on the horizon ?



<https://www.flickr.com/photos/152332603@N05/>

JEP - Process



Convenience Factory Methods for Collections

Private methods for Interfaces

New methods on the Streams API

New methods on the Optional

Stack-Walking API



Multi-release JAR files

```
jar root
- A.class
- B.class
- C.class
- D.class
- META-INF
  - versions
    - 9
      - A.class
      - B.class
```

<http://openjdk.java.net/jeps/238>

```
jar root
- A.class
- B.class
- C.class
- D.class
- META-INF
  - versions
    - 9
      - A.class
      - B.class
    - 10
      - A.class
```

<http://openjdk.java.net/jeps/238>

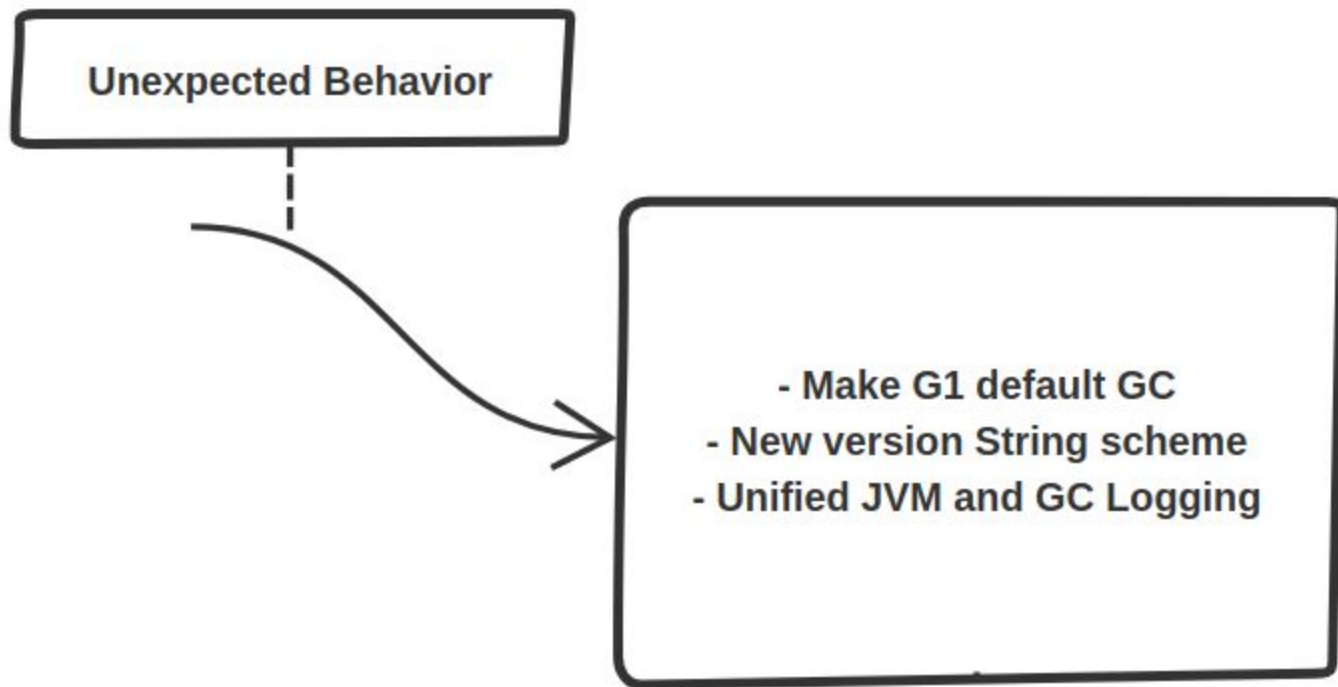
Updated Depreciation



HTML5 JavaDoc



JShell - REPL



Tools, Libraries
e.g. Maven/Gradle
e.g. Jackson, RxJava



<https://www.flickr.com/photos/rockpowered/5752246688>

JDK 10 is schedule on March 20th, 2018



<https://www.flickr.com/photos/41498713@N08/>

Get ready for java.jdk 9!
Thank you for the attention!

Questions ?

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kubicki.dawid@partner.samsung.com

Resources

- K. Malawski Why Reactive ? Foundational Principles for Enterprise Adoption
- <http://blog.joda.org/>
- <https://blog.jetbrains.com>
- <http://openjdk.java.net>
- <http://www.geonames.org/>
- <https://trishagee.github.io/>
- <https://docs.oracle.com/javase/9/>
- <https://docs.oracle.com/javase/10/>
- <https://jaxenter.com/>
- <http://www.baeldung.com/>