Processing and IntelliJ Idea:

https://github.com/mkj-is/processing-intellij

Read the documentation: http://processing.org/reference/javadoc/core/processing/core/PApplet.html

More specifically, the following is important:

"As of Processing 3.0, we have removed Applet as the base class for PApplet. This means that we can remove lots of legacy code, however one downside is that it's no longer possible (without extra code) to embed a PApplet into another Java application.

As of Processing 3.0, we have discontinued support for versions of Java prior to 1.8. We don't have enough people to support it, and for a project of our (tiny) size, we should be focusing on the future, rather than working around legacy Java code."

Another source of information:

https://www.klingt.net/posts/processing-2-in-intellij-idea-14/