

# ToiletPaper #128

## Java Version Management

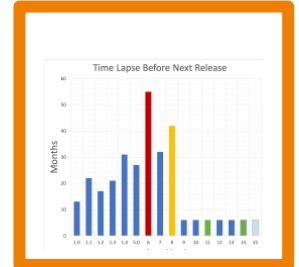
Author: Dvin Galstian / Senior Software Architect / Business Division New Business

### ✗ Problem

On my first day at jambit, I picked up my laptop and installed JDK 1.8. After that, I was able to develop cool Java applications for our customers for several years without any great changes. But ever since September 2017, a new Java version has been released every 6 months.

This means that I often work on code bases compiled with different Java versions at the same time. Sometimes there are two separate projects. But it is also quite possible that there are two microservices in the same project.

The simple switching between different Java versions is therefore essential.



### ✓ Solution

Among many options, [jEnv](#) offers the possibility to switch between different Java versions **quickly** and **easily**.

### ➔ Example

After the successful installation, you first add all Java versions available on your computer to jEnv-Configs. Afterwards, you can set the global version in jEnv or list the existing versions at any time.

```
$ jenv global oracle64-13.0.2
$ jenv versions
system
oracle64-1.8.0.202
* oracle64-13.0.2 (set by /Users/jambitUser/.jenv/version)
```

You can always see the current Java version with `jenv version` and the path of executables with `jenv which java`.

A useful feature of jEnv is that you can set different Java versions on the directory level.

```
../foo:~$ jenv local oracle64-13.0.2
../bar:~$ jenv local oracle64-1.8.0.202
```

The directory `/foo` uses Java 13 and the directory `/bar` uses Java 8. The version for a shell session is set a similar way.

### + Further Aspects

- There are other similar tools such as [SDKMAN](#) and [Jabba](#).
- jEnv is currently only available for Mac and Linux. The [issue for Windows support](#) is currently open on GitHub.
- <https://www.jenv.be>
- <https://medium.com/@brunofrascino/working-with-multiple-java-versions-in-macos-9a9c4f15615a>
- [https://en.wikipedia.org/wiki/Java\\_version\\_history](https://en.wikipedia.org/wiki/Java_version_history)