

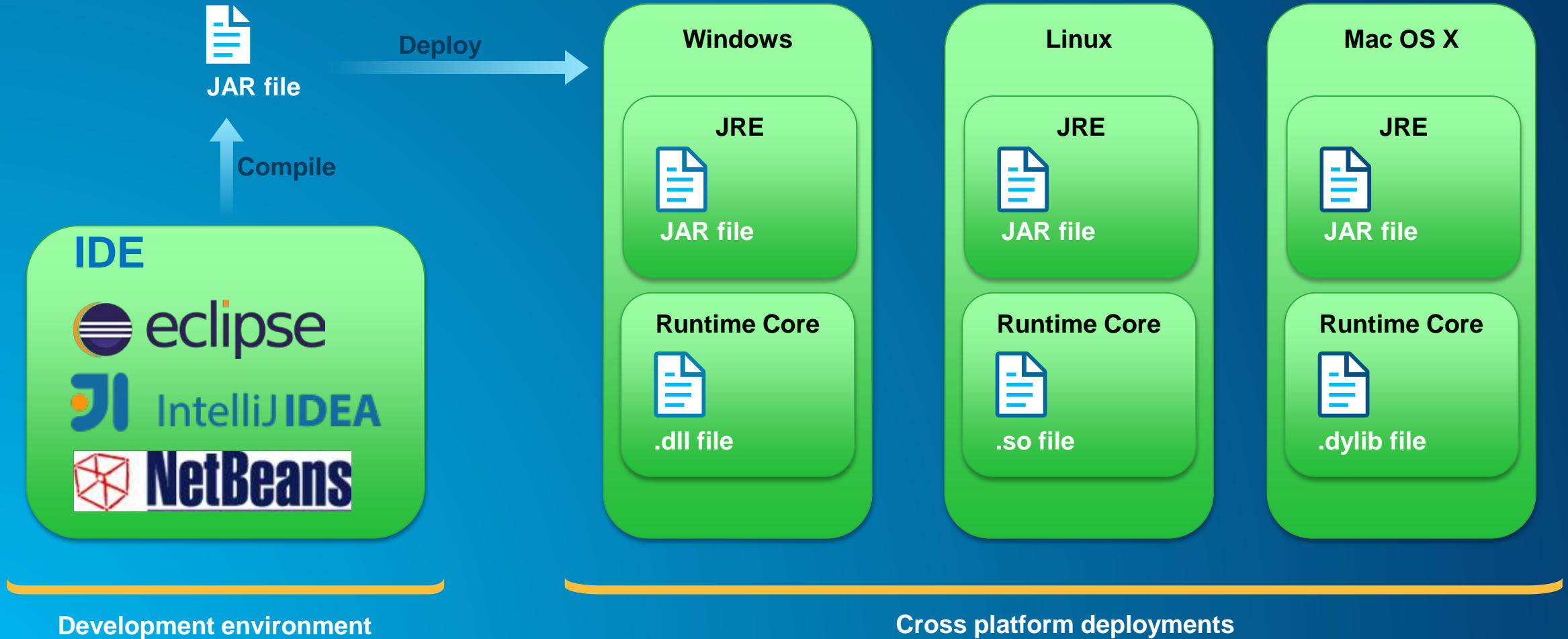
Cross platform Java

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Cross platform Java Development

- **Java is everywhere!**
- **Write applications for multiple platforms**
- **10.2.4 Release supports Windows and Linux (Adding OS X Support for Mac)**
- **Java Runtime is aimed at desktop platforms (Swing based)**
- **Familiar architecture where applications run in a JVM**
- **Sits on the ArcGIS Runtime architecture**

Java Runtime development and deployment



Considerations for writing cross platform in Java

- **Generally it just works!**
- **Swing is consistent in behaviour on all platforms**
- **File systems need special consideration:**
 - **Windows compared to Mac and Linux:**
 - **C:\Users\Mark\Projects\MyData.geodatabase**
 - **/Users/Mark/Projects/MyData.geodatabase**
 - **Be aware that Windows isn't case sensitive, but Linux and Mac are!**

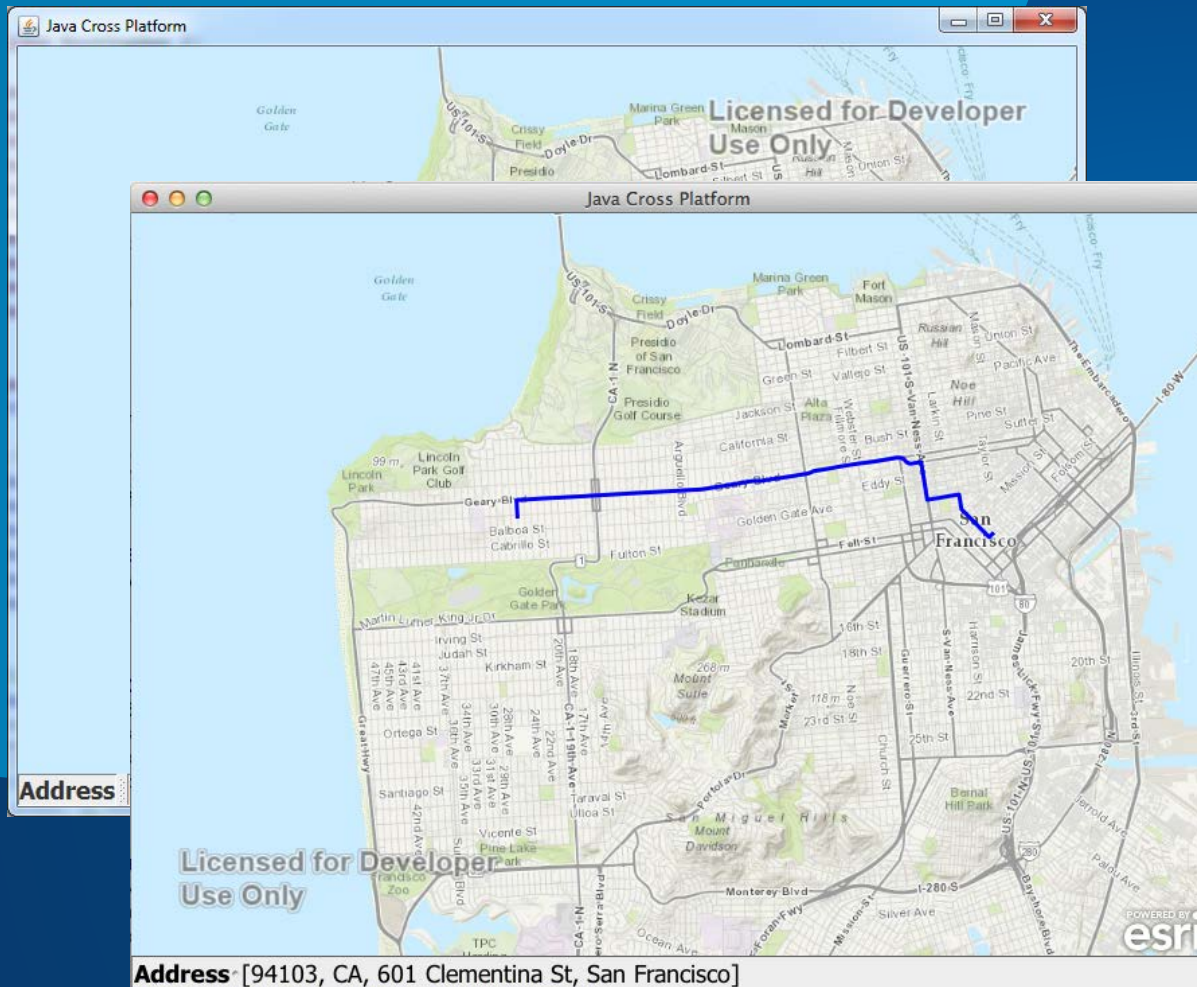
Working with file systems

- If possible use relative path locations from your executable JAR
- Environment variables might help too.
- Use “/” as it works on Windows too.
 - But to be sure

```
private static final String FSP = System.getProperty("file.separator");
```

- You can check the OS name:

```
if (System.getProperty("os.name").toLowerCase().contains("win")) {  
    basePath = PATH_TO_DATA_WINDOWS;  
} else {  
    basePath = PATH_TO_DATA_LINUX;  
}
```

An Application for Windows, Linux and a Mac

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