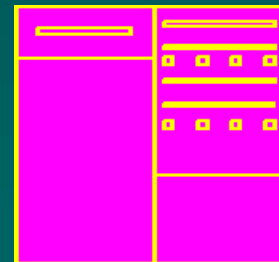
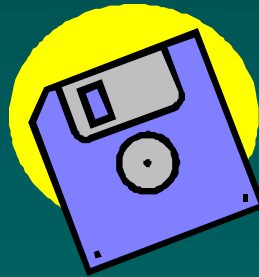
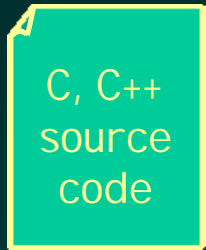


## Introduction to the Java Development Kit

- Platform dependent Native Compiled Code
- Platform independent Java bytecode
- JDK 1.2 on Solaris
- Setting up the environment for JDK 1.2





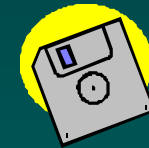
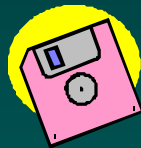
myApplication.cpp  
source code (text file)

Compiled Code is  
platform (processor)  
dependent

Native Compiler

Native Compiler

Native Compiler



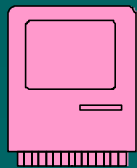
myApplication.o  
Native instructions for the  
specific processor

myApplication.o  
Native instructions for the  
specific processor

myApplication.o  
Native instructions for the  
specific processor



Mac



Pentium PC



SUN Solaris





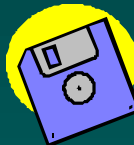
myApplication.java  
Source code (text file)

Compiler for the Java Virtual Machine  
javac myApplication.java

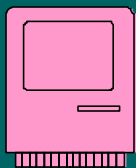
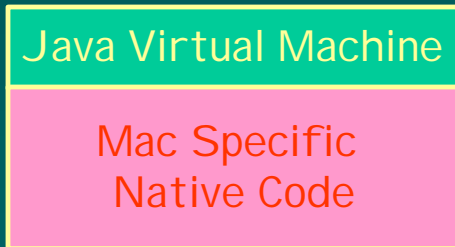
Bytecode "Compiled Code"  
is platform (processor)  
independent



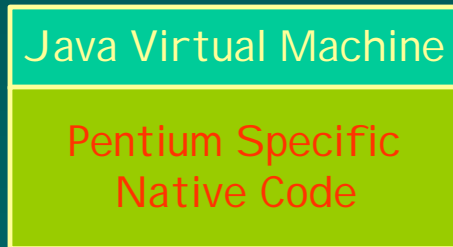
myApplication.class  
bytecode instructions for the  
virtual processor  
The Virtual Processor is the  
same on all platforms



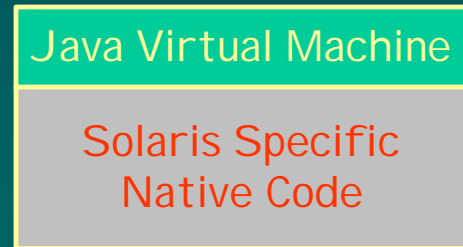
Interpreter java myApplication



Mac



Pentium PC



SUN Solaris



# JDK (Java Development Kit) 1.2 on Solaris

/usr/local/jdk1.2

bin

appletviewer, jar, java, javac, javadoc, ...

demo

docs

index.html, ...

include

lib

jre

Java Runtime Environment

bin

java, ...

lib

jre is the minimal set needed to run a Java application, does not contain tools like javac to develop an application

# Setting the right environment for JDK 1.2 on Solaris



```
setenv PATH /usr/local/jdk1.2/bin:${PATH}
setenv CLASSPATH .:${HOME}/projects
```

PATH is needed by the OS to find executables like javac, java etc.

CLASSPATH is needed by the java interpreter to find the classes (bytecode) to dynamically load into the Java Virtual Machine

