

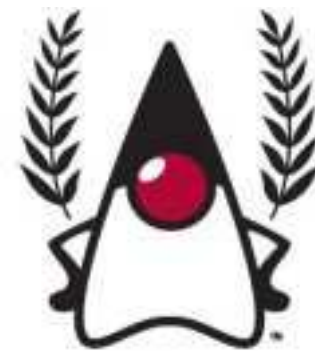
What is Java Platforms?!

By

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Java™ Champions

Objective

- What is Egyptian Java User Group
- Give you an overview about the Java platform.
- The full picture of the Java platform.
- Your career guide.

Agenda

- Egyptian Java User Group
- History of Java
- Some facts about Java
- What is Java Platform?
- The usages of Java Platforms.
- Advantages of programming with Java
- What is JCP/JSR?
- Some new cool features in Java.
- Java from Novice to Expert; how to?

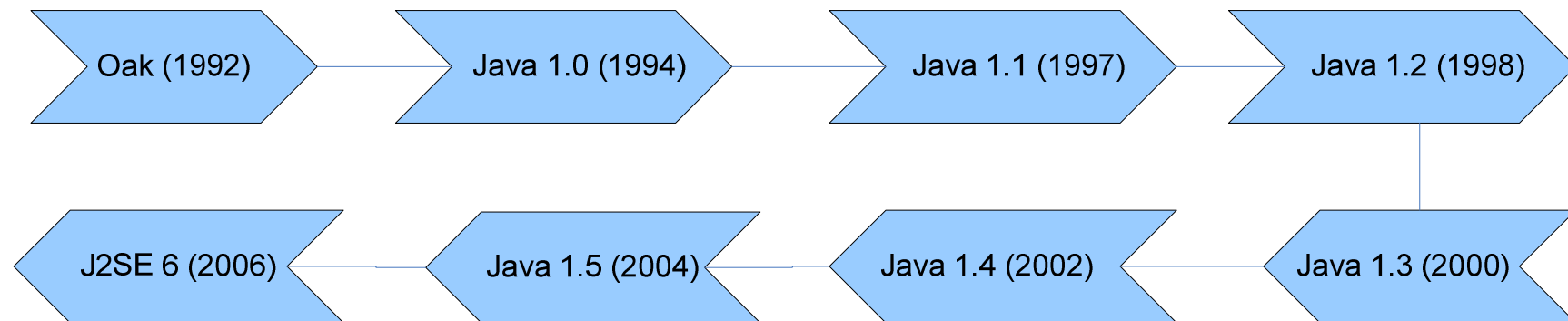
www.egjug.org

- EGJUG was founded at 2005
- An active website
- A lot of meetings & session
- 2 annual conference; JDC 2008 got 650 developers.
- 1200+ member.
- EGJUG Leader has been nominated to be a Sun Java Champion

Java has a community



History of Java



About Java

- Pure Object Oriented
- Platform independent
- Backward compatible
- Open Source
- Multiple vendors

Java is OO

```
//C or C++
```

```
#include<stdio.h>
```

```
main()
```

```
{
```

```
    printf("Hello World\n");
```

```
}
```

```
//Java
```

```
package test;
```

```
class HelloWorld
```

```
{
```

```
    public static void main(String[] args)
```

```
    {
```

```
        System.out.println("Hello Java!");
```

```
    }
```

```
}
```

Java is OO

- OO principals are more clear in Java
- Design patterns
- Best practices applied in all Java platforms.

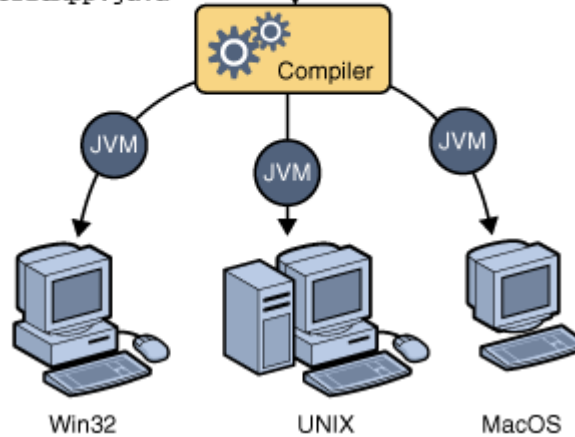
Platform Independent



Java Program

```
class HelloWorldApp {  
    public static void main(String[] args) {  
        System.out.println("Hello World!");  
    }  
}
```

HelloWorldApp.java



Backward Compatibility!!

- Applications developed using Java 1.0 still works!! Although the API's implementation changed!
- Old code is not removed, it is being marked as deprecated.
- Quick Demo

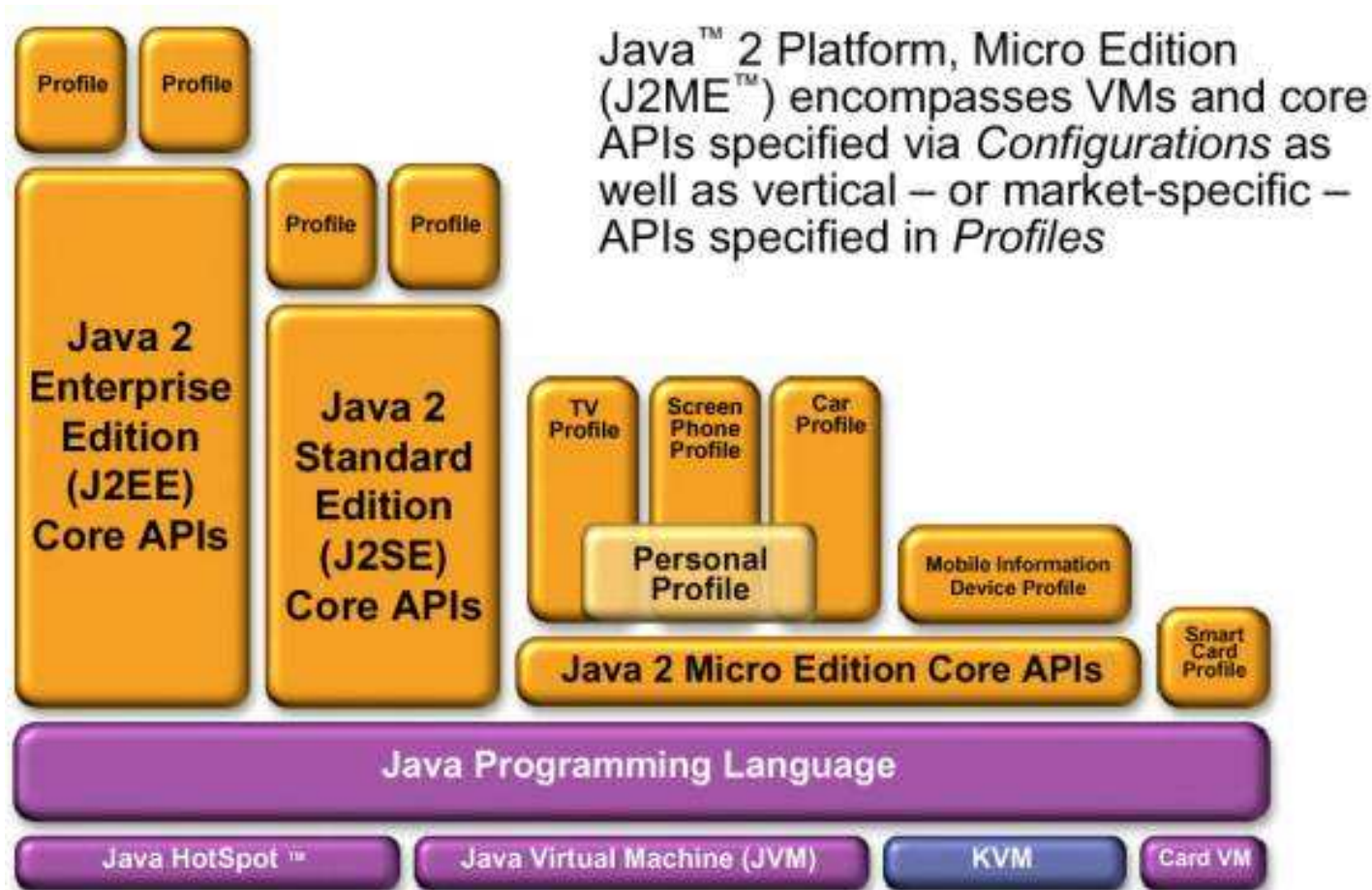
Java is Open Source

Java is open source

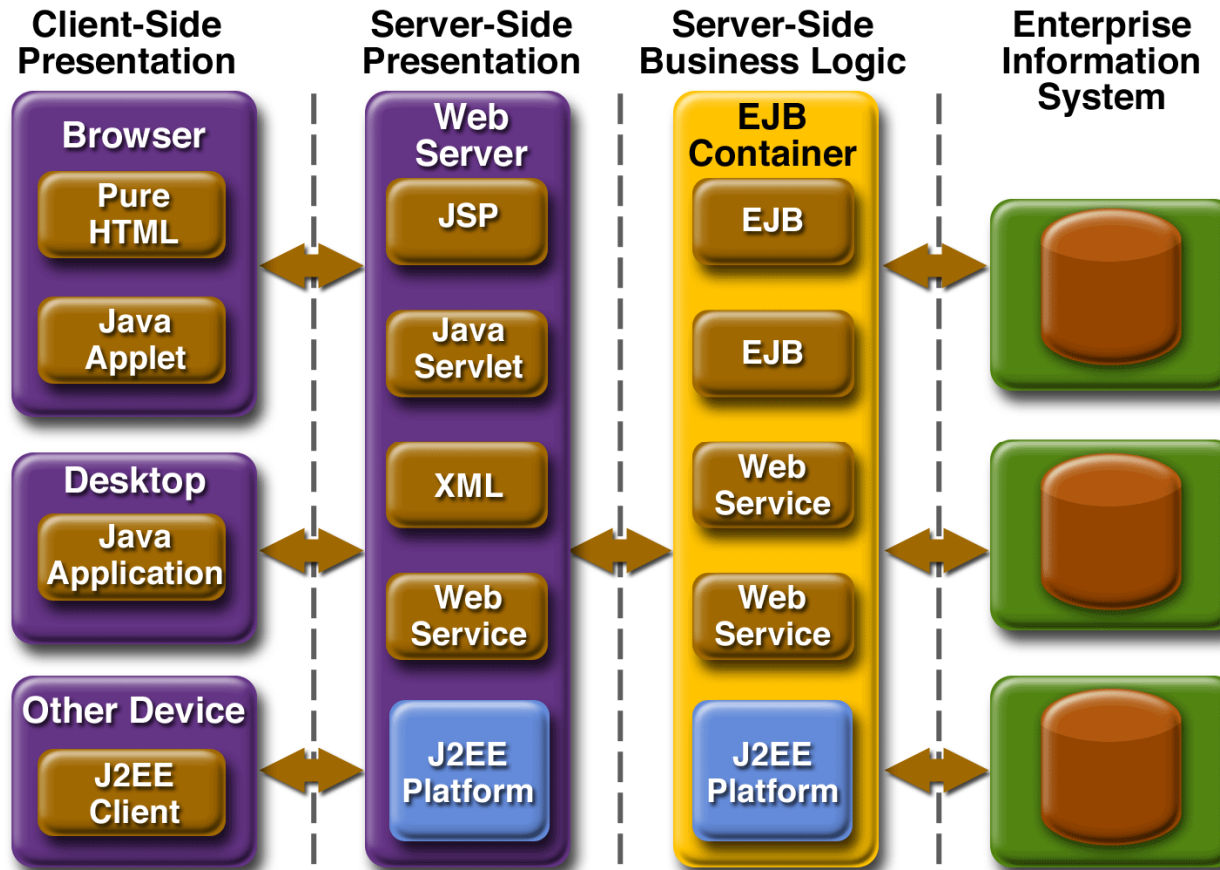
Java has more than vendor

- Sun Microsystems
- IBM
- Oracle
- Bea Systems “recently acquired by Oracle)
- Apache Software Foundation
- JBoss
- Others ...

Java is a complete platform



Java is a complete platform



The Usage of Java

- Desktop Applications
- File processing
- Data Access
- Graphics
- Client/Server
- Remote Processing
- Web development
- Security
- Unit Testing
- XML
- AJAX
- Webservices
- Messaging
- Workflow and BPM
- Service Discovery
- Email
- Reporting
- Logging

The Usage of Java

- Java is a complete platform for software development.
- Java is suitable for enterprise large scale applications; through the different containers.
- Java is available for smart devices and smart cards.

Advantages of programming with Java

- Java is dominant in the market!
- Developing enterprise applications with Java will show you the meaning of scalability, security, performance, monitoring...etc
- You will learn Design patterns and OOP
- You will work with best practices.
- Java and Java frameworks are white box; open the champers of secrets.

Advantages of programming with Java

- A lot of tools available to help you.
- Out of the box containers to hold your applications and provide a lot of services like
 - Security
 - Scalability
 - Caching
 - Connection pooling
 - Messaging
 - Transaction Management
- Many frameworks for Web and middleware.

Cool features in Java

- Hello World
- Annotations
- Generics
- Logging
- Unit Testing

What is JCP?

- Java Community Process is the community who is initiating the Java projects specifications.
- JCP contains companies and individual.
- JCP issue JSR (Java Specification Request) and the vendors implements it.

Java From Novice to Expert

- Phase 1: Learning
- Phase 2: Trying
- Phase 3: Hands on

- General Guide lines
 - Focus on the core!!!
 - Read blogs and news
 - Attend sessions and seminars
 - Help others and transfer the knowledge

Java From Novice to Expert

- Phase 1: Learning
 - Tutorial
 - Book
 - Learning by example
 - Training course

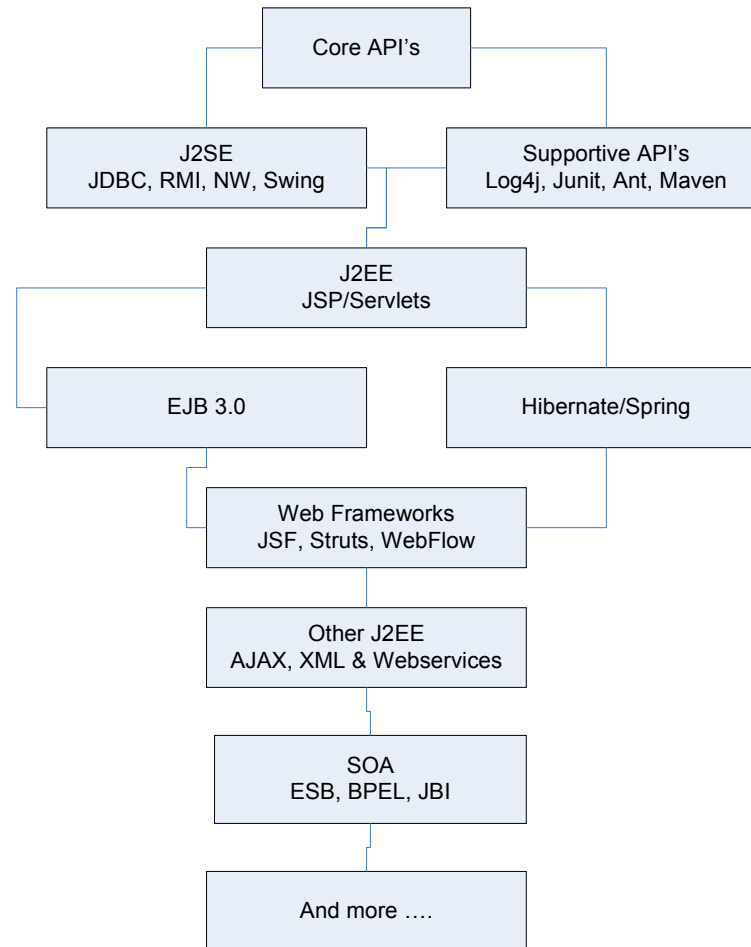
Java From Novice to Expert

- Phase 2: Trying
 - College Assignment
 - Graduation projects
 - Programming for fun
 - On job training

Java From Novice to Expert

- Phase 3: Hands on
 - Java is Open platform, Fast and self learning are required to be uptodate .
 - Try any new framework or library.
 - Use productivity and quality tools.

Java From Novice to Expert



Thanks

Any questions?

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