Java

Peerapat Asoktummarungsri

Oracle Academy, Thailand

Photographed by
rawitatpu

- Senior Software Engineer Agoda.com

- Contributor Thai Java User Group (THJUG.com)

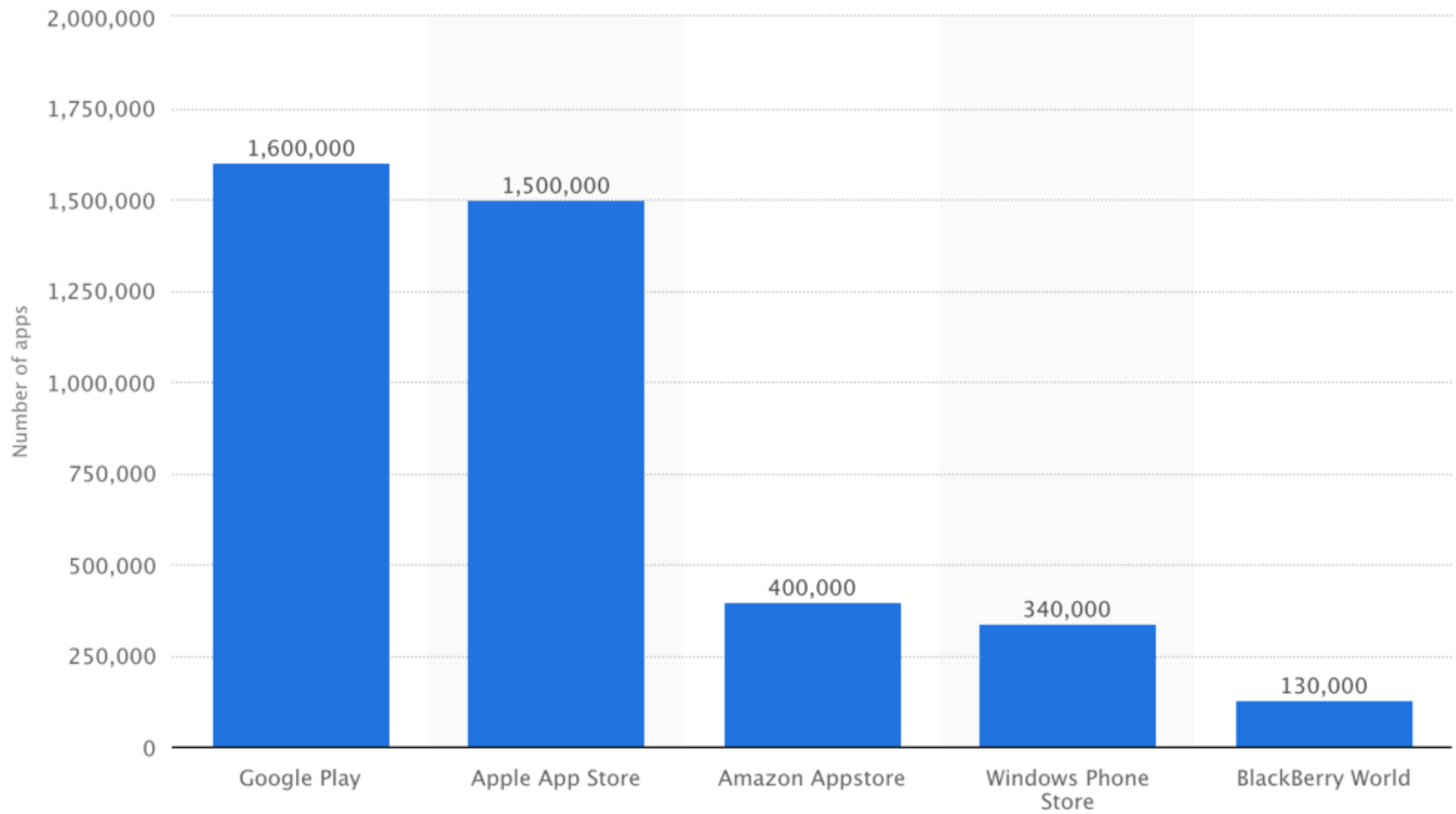- Contributor Agile66

- Oracle Academy, Thailand
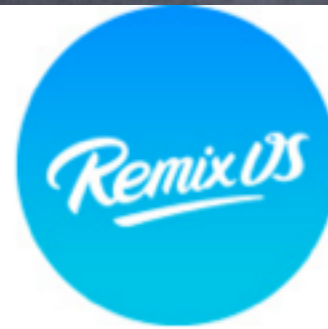
AGENDA (2days)

- Java Status Today

- Netbeans and Maven

- Object Oriented Application

- Test Driven Development

- Enum, Exception, Try with Resources

- Java 8 with Lambda

- Java 8 Streaming

- Dependency Injection & Spring JDBC

What is Remix OS?

Remix OS is our state of the art Android-based operating system. We mean it when we say you get a PC experience unlike anything on Android and an Android experience unlike anything on a PC. The innovative features we've brought to Remix OS 2.0 have been meticulously engineered to bring you the best of both worlds – the harmonious fusion of a mobile and desktop experience.

Learn more about Remix OS design.

Apache Harmony

Jan 2016	Jan 2015	Change	Programming Language	Ratings	Change
1	2	⌃	Java	21.465%	+5.94%
2	1	⌄	C	16.036%	-0.67%
3	4	⌃	C++	6.914%	+0.21%
4	5	⌃	C#	4.707%	-0.34%
5	8	⌃	Python	3.854%	+1.24%
6	6		PHP	2.706%	-1.08%
7	16	⌃⌃	Visual Basic .NET	2.582%	+1.51%
8	7	⌄	JavaScript	2.565%	-0.71%
9	14	⌃⌃	Assembly language	2.095%	+0.92%
10	15	⌃⌃	Ruby	2.047%	+0.92%
11	9	⌄	Perl	1.841%	-0.42%
12	20	⌃⌃	Delphi/Object Pascal	1.786%	+0.95%
13	17	⌃⌃	Visual Basic	1.684%	+0.61%
14	25	⌃⌃	Swift	1.363%	+0.62%
15	11	⌄⌄	MATLAB	1.228%	-0.16%

ทำไมควรเรียน Java ?

James Gosling reviewed **NetBeans** — 5 ★

September 19, 2014 · 🌐

I live in NetBeans. I use it more than email. Everything works together smoothly, it doesn't feel like a bag of disconnected parts. All the tools are there. The refactoring tools are so good that they've replaced a huge amount of what I used to do with the editor - using them is not an occasional thing for me.

The Smarter and Faster Way to Code

Develop Desktop, Mobile and Web applications with Java, HTML5, PHP, C/C++ and more. Runs on Windows, Linux, Mac OS and Solaris.

NetBeans IDE

NetBeans

Computers & Electronics · 95,435 Likes

Save

Maven

- Standard Project Structure

- XML Config with a lots of Plugins

- Support both of JavaEE and Spring

- Based on CLI (Easy for Continuous Delivery)

- IDE Completely Support

New Project

1 Choose Project

🔍

Categories:
- 📁 Java
- 📁 Java Web
- 📁 Java EE
- 📁 HTML5/JavaScript
- 📁 **Maven**
- 📁 NetBeans Modules
- ▶ 📁 Samples

Projects:
- Java Application
- JavaFX Application

New Java Application

2 Name and Location

Project Name:	Duck
Project Location:	/Users/pasoktummarungsri/Project
Project Folder:	/Users/pasoktummarungsri/Project/Duck
Artifact Id:	Duck
Group Id:	thjug
Version:	1.0-SNAPSHOT
Package:	thjug.duck
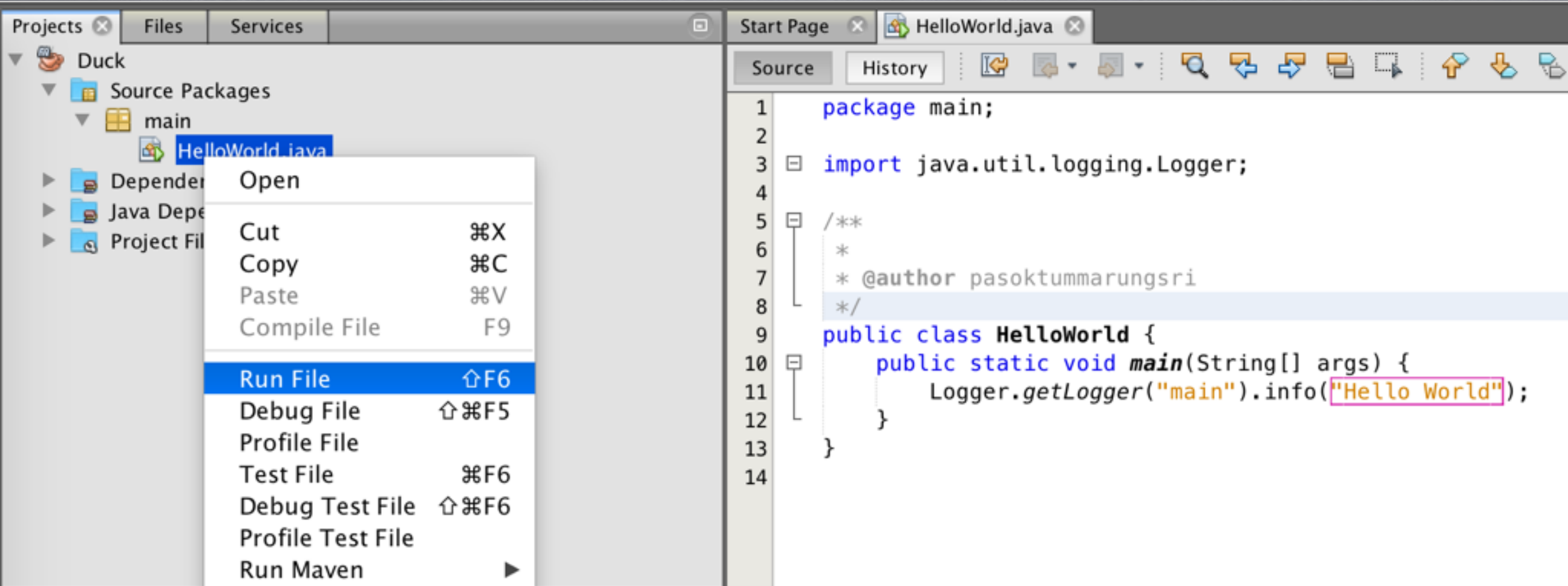
OOP in Java

- Class / Object

- Message Passing

- Encapsulation

- Inheritance

- Composition

- Polymorphism

Duck Problem

- เป็ดมีได้หลายสายพันธ์ **แต่ยังเป็นเป็ด**

- เป็ด **ทุกสายพันธ์** ต้องร้องได้และมีเสียงร้องของตัวเอง

- เป็ด **ทุกสายพันธ์** เดินเหมือนกัน เฉพาะ **RocketDuck ห้ามเดิน**

- เป็ด **บางสาย** พันธ์ต้องบินได้

- เป็ดสามารถ **เปลี่ยนวิธีบิน** ได้

Java TDD

- Test

- Assert

- Coverage

MVC

- Model

- View

- Controller

Lambda

- Anonymous Inner Class

- Functional Interfaces

- Lambda Expression Syntax

```java
Collections.sort(list,
        new Comparator<Duck>() {
        @Override
        public int compare(Duck o1, Duck o2) {
                return o1.toString().compareTo(o2.toString());
        }

    }
);
```

```
Collections.sort(list, (Duck o1, Duck o2) -> o1.toString().compareTo(o2.toString()));
```

```
(int x, int y) -> x + y

() -> 42

(String s) -> { System.out.println(s); }
```

```java
public int func1(final int x, final int y) {
    return x + y;
}


public int func2() {
    return 42;
}


public void func3(final String s) {
    System.out.println(s);
}
```

Collections

- stream / parallelStream

- forEach

- map / flatMap

- filter

- findFirst / findAny

- reduce