Security and AOP

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This is a story about Bob. Bob builds software.
SOFTWARE THAT’S NOT SECURE
But that can change
BOB HAS ENEMIES

Users
Managers
Hackers
BOB HAS WEAPONS

Design Analysis
Source Code Analysis
Dynamic Analysis
Hackers
HIS WEAPONS HAVE PROBLEMS
HIS WEAPONS HAVE PROBLEMS
HIS ENEMIES HAVE INCENTIVES

Time
Money
Prestige
BOB HAS A NEW WEAPON

Aspect Oriented Programming
AOP MEANS INJECTING CODE

**CODE INJECTION**

```java
String sql = "select * from tab where id='" + id + "]';
executeQuery(sql);
```

```java
String sql = "select * from tab where id='" + id + "]';
executeQuery(sql);
executeQuery(sql);
```

```java
String sql = "select stuff from mytable where id='" + id + "]';
MyLibrary.doCheck(sql);
MyLibrary.doCheck(sql);
executeQuery(sql);
executeQuery(sql);
```
AOP IS ABOUT...

- Reusability
- Out of cycle development
- Functionality
2 THINGS FOR BOB

Find Issues
Fix Issues
AOP TO FIND ISSUES
AOP TO FIX ISSUES

Demo
AOP TO FIX PROCESSES

Out of Cycle Security Development
QUESTIONS?

Thanks a lot!