# The Philosophy of



Time-Saving Solutions and Workarounds to Improve Programs

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#### Introduction

Michael C. Daconta - Chief Architect, VKB

Starting the MBI West Coast office!

Semantic Web Book (June 2003) is my 10th.



😂 Last year - 2 books, Master's degree and a move.

Time for a REST! (Riiiiiight!)

# Introduction (2)

My Great co-authors

Kevin T. Smith - Chief Security Architect

Always delivers!

Speaking at JavaOne this year!

Semantic Web book co-author.

Donnie Avondolio - NCES Development Lead

brought on after 3 previous drop outs.



Had to catch-up and delivered in the clutch!

# Introduction (3)

#### History:

More Java Pitfalls. Mar 2003 🥯 Java Pitfalls JavaWorld Columns The "pitfall franchise" Jakarta Pitfalls "imitation is the highest form of flattery"

# What is a Pitfall? Formal Definition (Java Pitfalls)

A pitfall is code that compiles fine but when is executed produces unintended and sometimes disastrous results."

- The "blessing" of compilation
- Syntax error versus logic error

  Fitfalls waste time and cause

  Frustration

## Anatomy of a Pitfall

 Symptom. Demonstrated with BadXXX.java
 Root cause. Figure is helpful.
 Shallow knowledge versus "deep" knowledge.

Cure. Solution or Workaround.

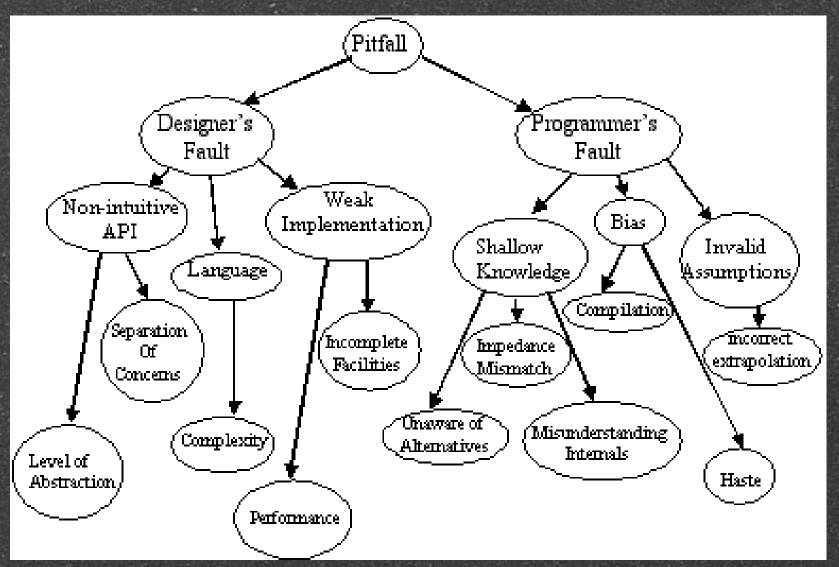
Demonstrated with GoodXXX.java

# The Philosophy of Pitfalls

Programming is difficult.
 This is a truth, a great truth.
 Mike's corollary to "Life is Suffering".

Why do pitfalls happen to good people? (Next slide)

## The Pitfall Taxonomy



## Sins of the Designer

#### The Art of Design

Walking a mile in another's moccasins



form follows function



balance of forces

control, cohesion and cost

# Sins of the Designer(2)

#### The Art of Simplicity

The primacy of adoption

Proverbial question: How to squeeze 10 pounds into a 3 pound sack?



Answer: make the sack appear bigger



Simple interface, postpone complexity, just enough control

## Peer Mentoring

Anyone can be a mentor

- The all-knowing bias (long white beard) required)
- Some the illusion of perfect knowledge.
- Peers are the best teachers
  - Non-threatening (fertile ground)
  - Best way to learn, Teach!

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Combinatorial Experimentation

# A Culture of Mentoring

Whiteboard in every office
 Mornings with Monroe
 Senior/junior meetings
 Corporate Wiki is a must!
 (capture/share/create cycle)

#### Conclusion

#### Co-author Comments?

Next book: The Semantic Web: A guide to the future of XML, Web Services and Knowledge Management.

Questions?
Thanks for coming!!!





