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JAVA AND JAVASCRIPT— SHAKEN, NOT STIRRED

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SENIOR SOFTWARE ENGINEER, FARATA SYSTEMS



WHY YOU'RE HERE

- ★ JAVASCRIPT ENTHUSIAST
- ★ YOU'RE INTERESTED IN JDK8 FEATURES
- ★ YOU'RE A FAN OF JAMES BOND SERIES

WHO IS TALKING?

★ SOFTWARE ENGINEER AND CONSULTANT



**WE BUILD APPLICATIONS.
WE CREATE IT. YOU OWN IT.**

WHO IS TALKING?

- ★ SOFTWARE ENGINEER AND CONSULTANT
- ★ CO-AUTHOR AND JUG CO-LEAD

Building HTML5 Applications: From Desktop to Mobile



Enterprise Web Development

O'REILLY®

*Yakov Fain, Victor Rasputnis,
Anatole Tartakovsky & Viktor Gamov*

EVENTUALLY COMING TO THE STORES



[HTTP://ENTERPRISEWEBBOOK.COM](http://ENTERPRISEWEBBOOK.COM)

DRAFT AVAILABLE FOR FREE

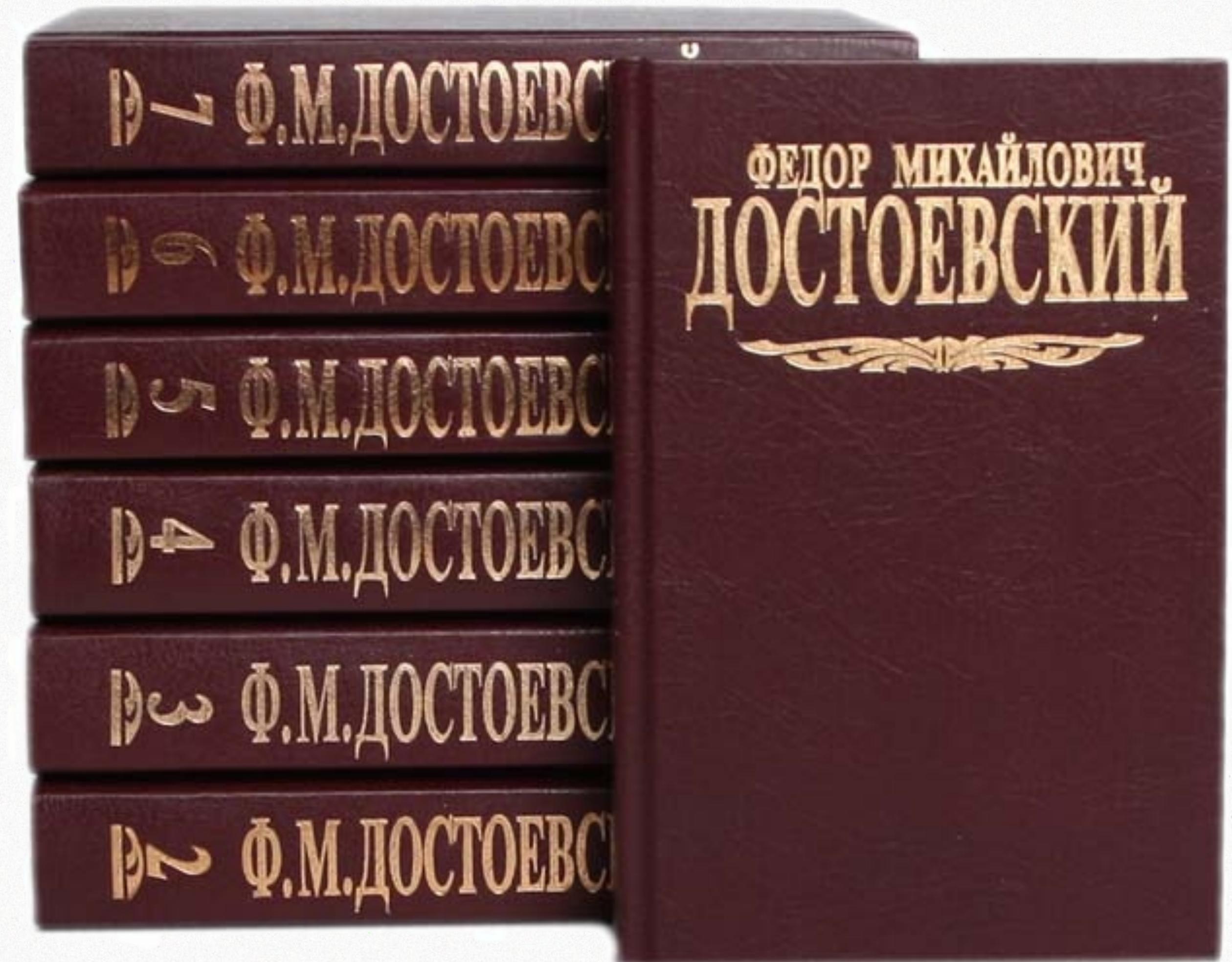
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WHO IS TALKING?

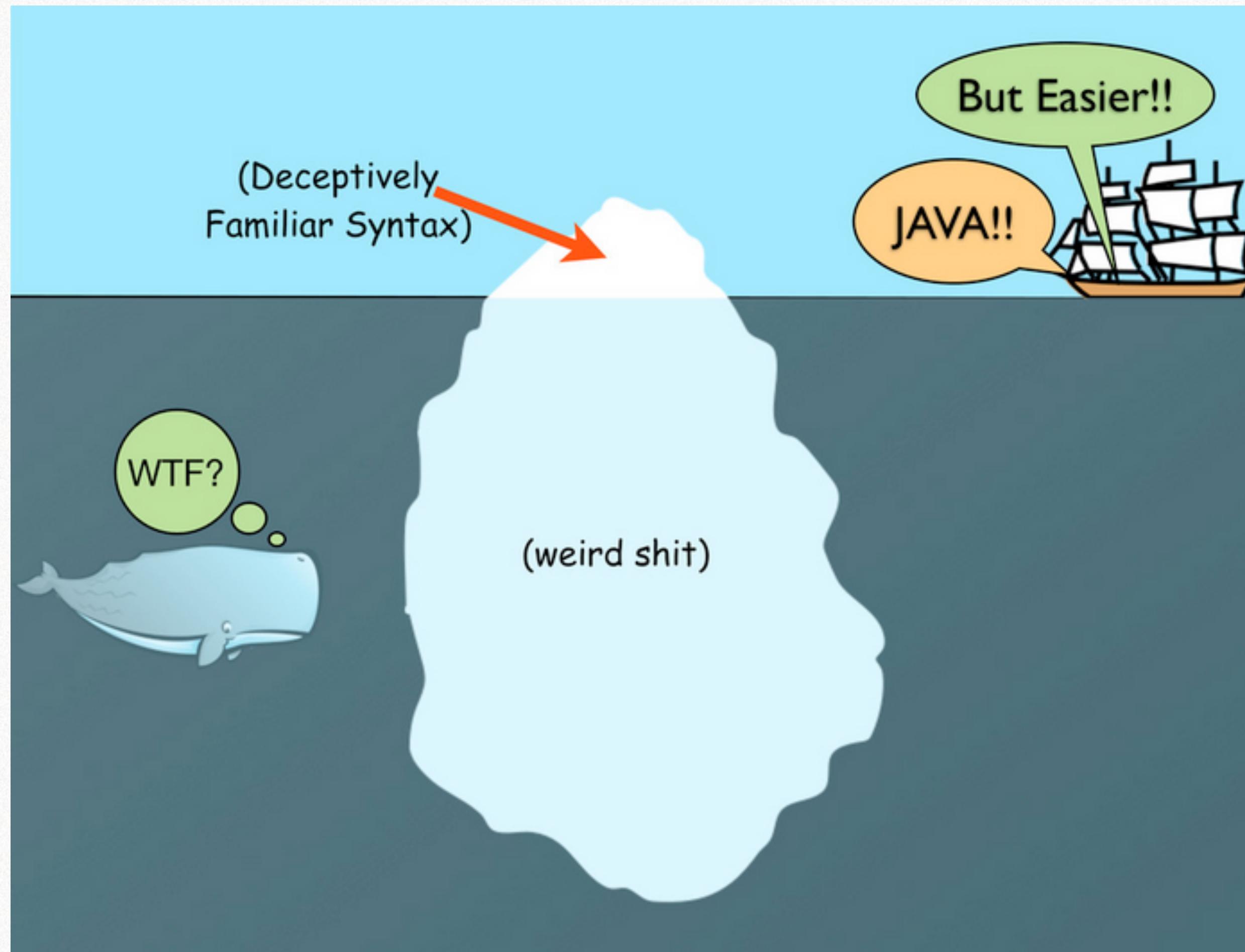
- ★ SOFTWARE ENGINEER AND CONSULTANT
- ★ CO-AUTHOR AND JUG CO-LEAD
- ★ PROFESSIONAL RUSSIAN



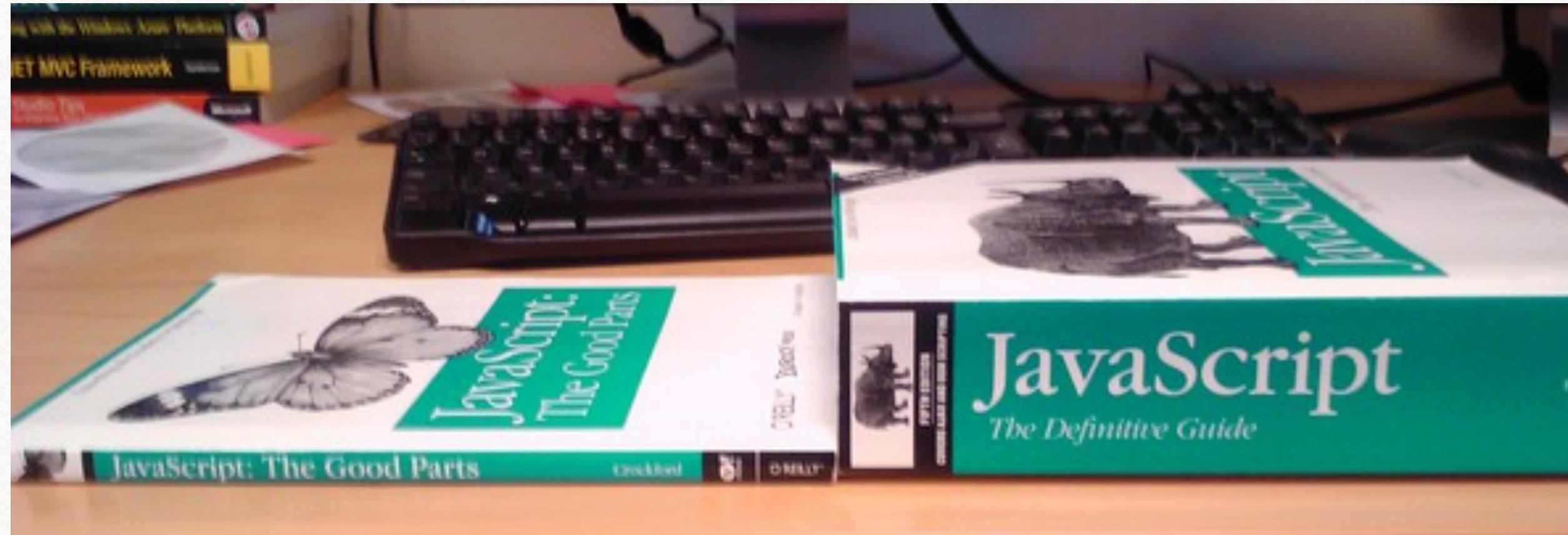
POLYGLOT?



JAVA DEV KNOWS HOW TO JAVASCRIPT



MANY GOOD PARTS

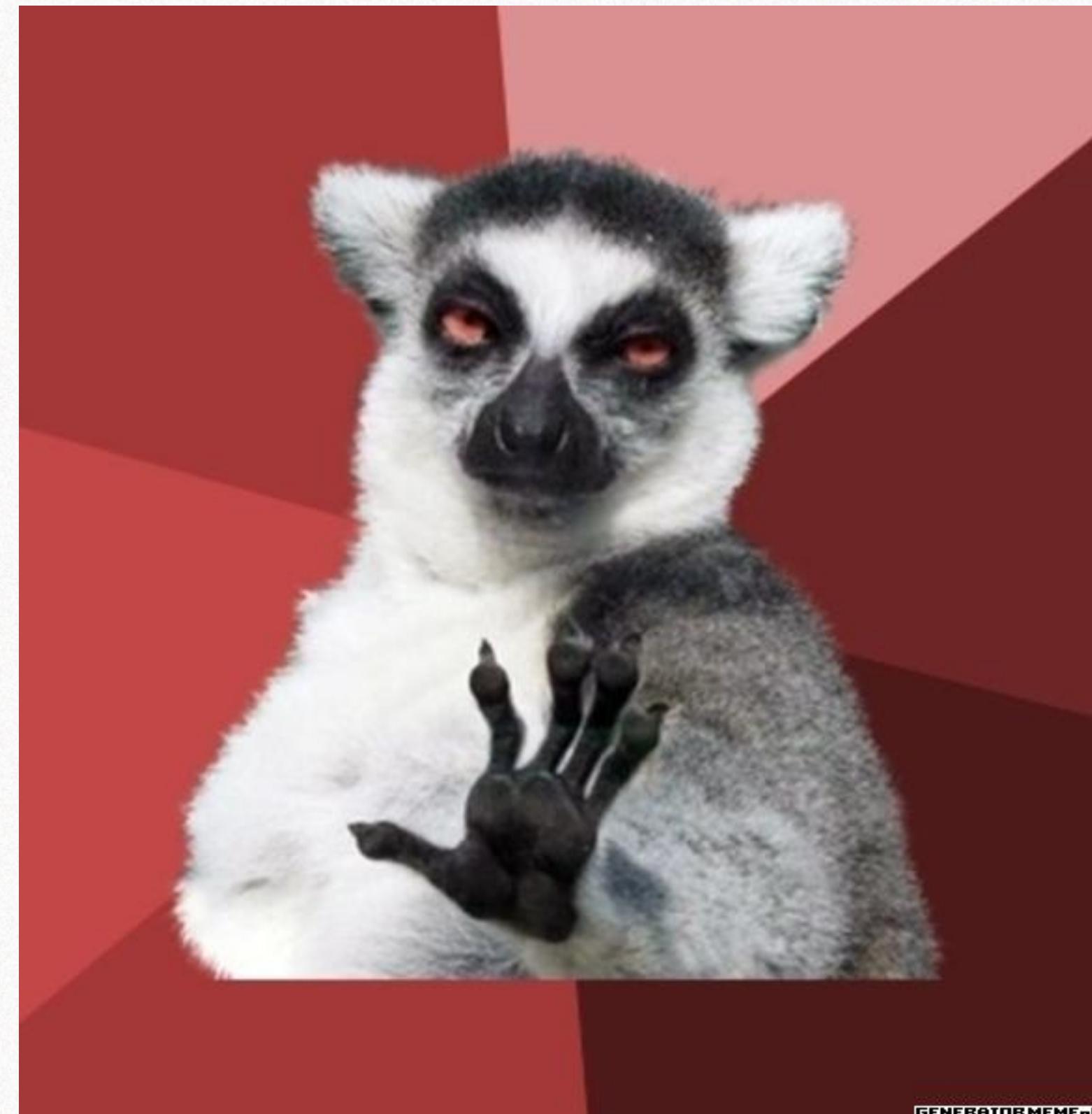


JAVASCRIPT, WAT?



WWW.DESTROYALLSOFTWARE.COM/TALKS/WAT

**WAIT, JAVASCRIPT?
IT'S ONLY FOR BROWSERS**

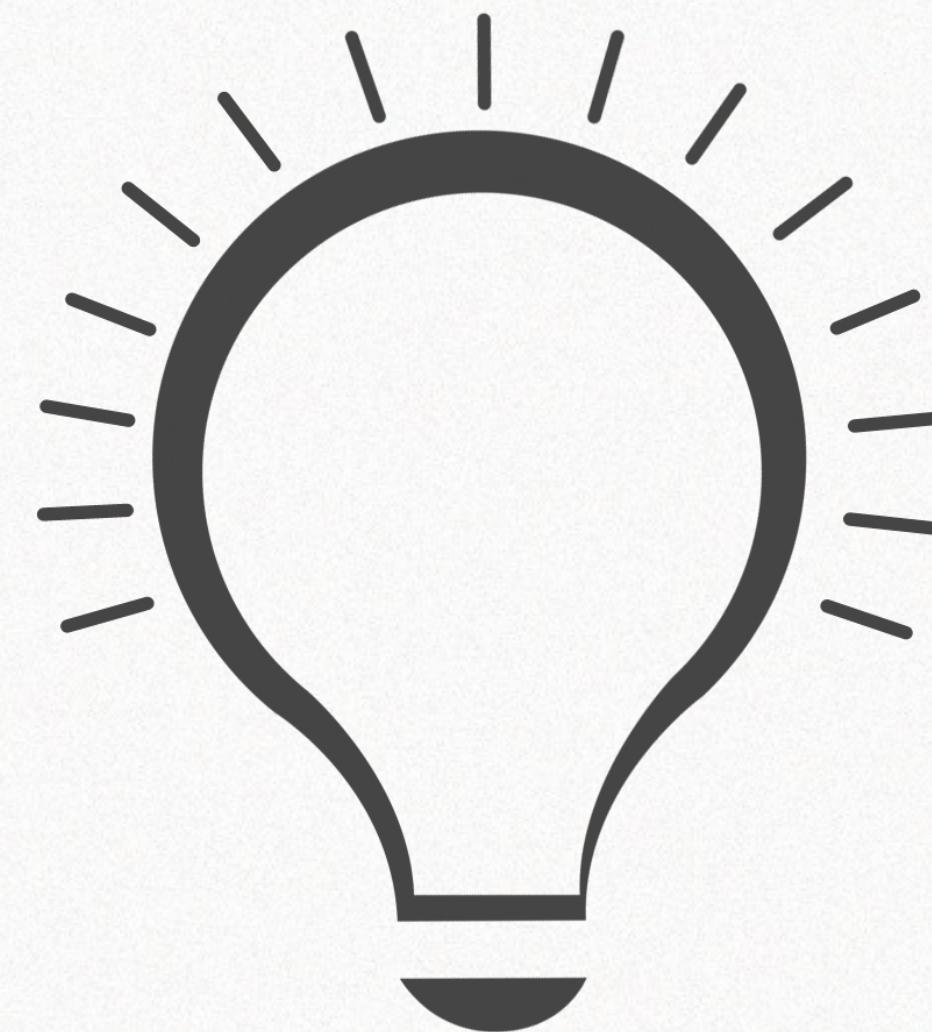


GENERATORMEME.COM

JAVASCRIPT IS EVERYWHERE

- ★ V8 AND NODEJS
- ★ RHINO WAS HERE FOR YEARS
- ★ HERE COMES NASHORN

JAVASCRIPT ON JVM USE CASES



- 1 SHELL SCRIPTING**
- 2 EXTEND APP FUNCTIONALITY ON RUNTIME**
- 3 PROVIDE EXTENSION POINTS FOR THE APPLICATION**
- 4 WEB-CONTENT GENERATION**

WHAT IS NASHORN?

WHAT IS NASHORN?

JAVASCRIPT ENGINE FOR
JVM

100% PURE JAVA
IMPLEMENTATION

ULTIMATE `invokedynamic`
CONSUMER

100% COMPILED TO
BYTECODE,
NO INTERPRETER

100% ECMASCIPT 5.1
COMPLIANT



HOW TO USE NASHORN?

- ★ THE ONLY API IS JSR-223: `javax.scripting.*`
- ★ JAVA FROM JAVASCRIPT AND VICE VERSA
- ★ CREATE AND MANIPULATE JAVA/JAVASCRIPT OBJECTS
- ★ EXTEND JAVA CLASSES
- ★ IMPLEMENT JAVA INTERFACES

HERE ARE MY
THREE STORIES

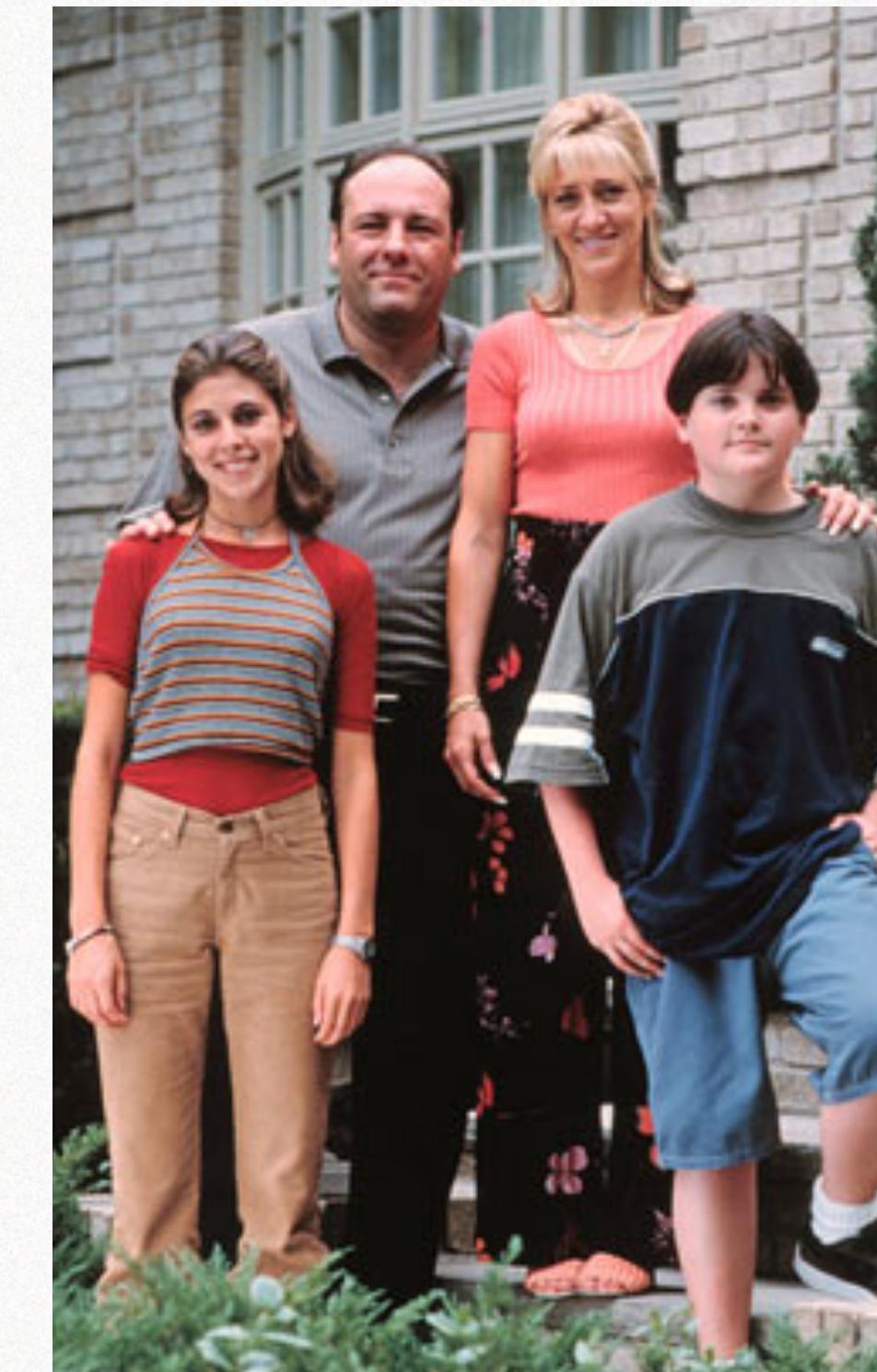
STORY ONE:
THE LAZY
SUPPORT ENGINEER

STORY ONE: THE LAZY SUPPORT ENGINEER



STORY TWO: FAMILY BUSINESS

STORY TWO: FAMILY BUSINESS



STORY THREE: NASHORN FOR BROWSERS

RESTRICTIONS

- ★ THERE ARE NO BROWSER APIs:
 - ★ HTML5 CANVAS
 - ★ HTML5 AUDIO
 - ★ WEBWORKERS
 - ★ WEBSOCKETS
 - ★ WEBGL

gA

THANKS
FOR YOUR ATTENTION