

NASHORN: JAVA AND JAVASCRIPT

SHAKEN, NOT STIRRED

VIKTOR GAMOV SENIOR SOFTWARE ENGINEER, FARATA SYSTEMS



WHY YOU'RE HERE

- *YOU'RE INTERESTED IN JDK8 FEATURES
- *YOU'RE EXCITED ABOUT JDK8 FEATURES
- ***YOU'RE LOVE NEW JDK8 FEATURES**

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



O'REILLY®

Yakov Fain, Victor Rasputnis, Anatole Tartakovsky & Viktor Gamov

EVENTUALLY COMING TO THE STORES



HTTP://ENTERPRISEWEBBOOK.COM

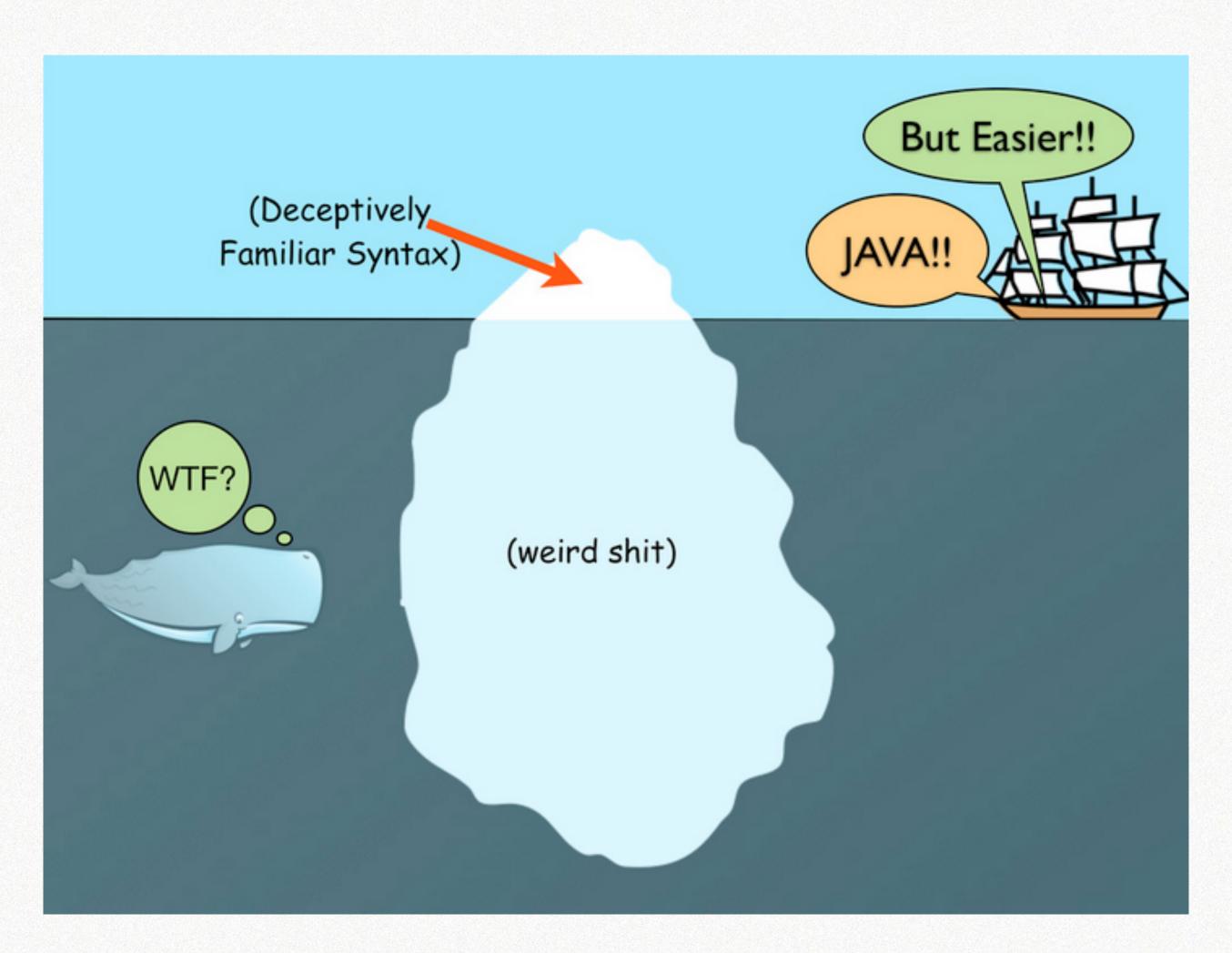
DRAFT AVAILABLE FOR FREE

HTTP://ENTERPRISEWEBBOOK.COM

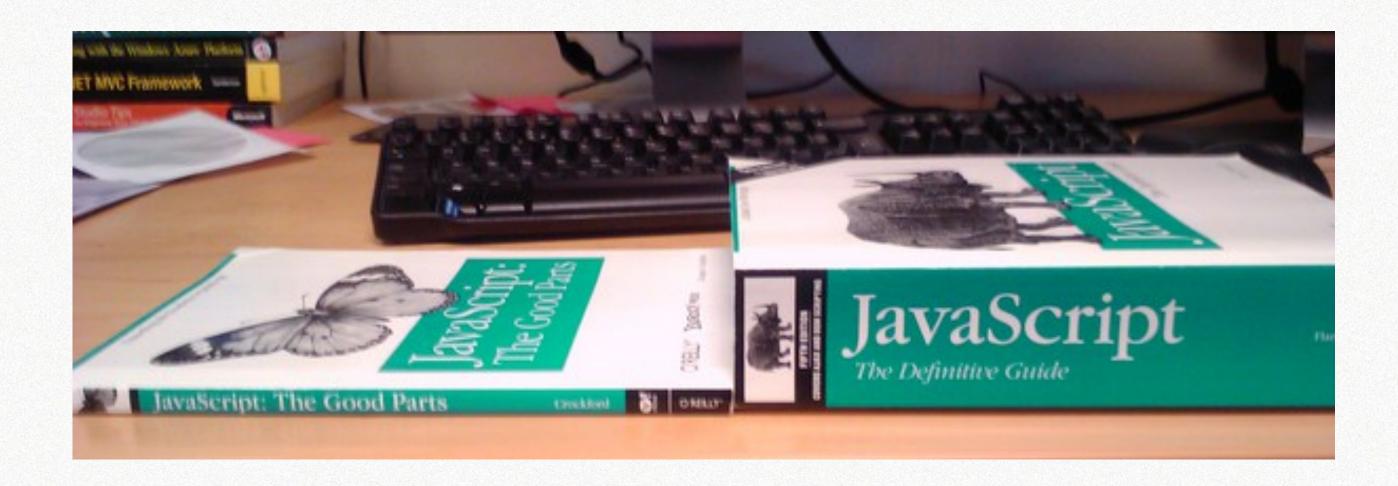
WHO IS TALKING?

- *SOFTWARE ENGINEER AND CONSULTANT
- *CO-AUTHOR AND JUG CO-LEAD
- *JVM ENTHUSIAST

JAVA DEV KNOWS HOW TO JAVASCRIPT



MANY GOOD PARTS

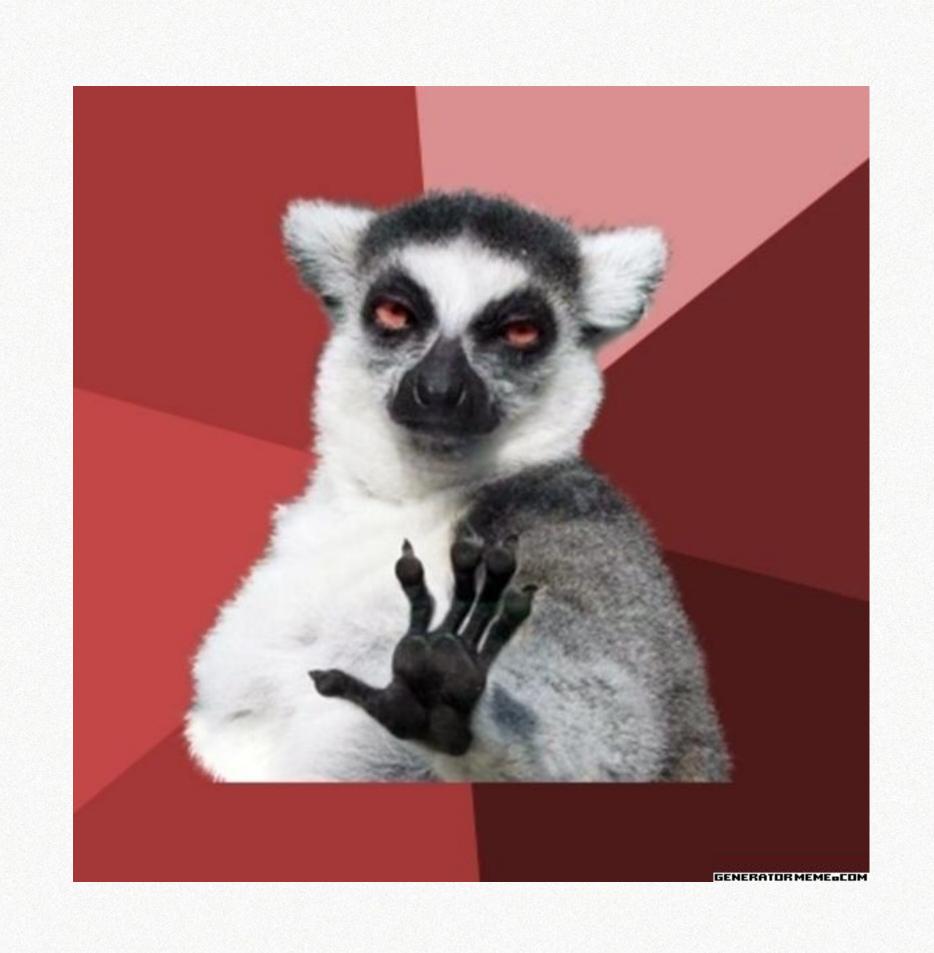


JAVASCRIPT, WAT?



WWW.DESTROYALLSOFTWARE.COM/TALKS/WAT

WAIT, JAVASCRIPT? IT'S ONLY FOR BROWSERS



JAVASCRIPT IS EVERYWHERE

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

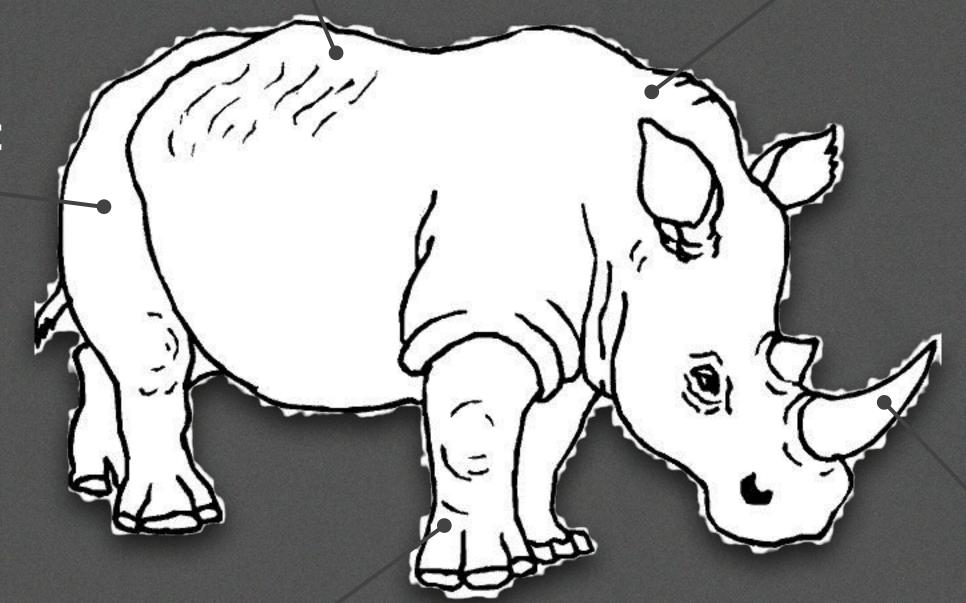
WHAT IS NASHORN?

WHAT IS NASHORN?

JAVASCRIPT ENGINE FOR JVM

100% PURE JAVA IMPLEMENTATION

ULTIMATE invokedynamic CONSUMER



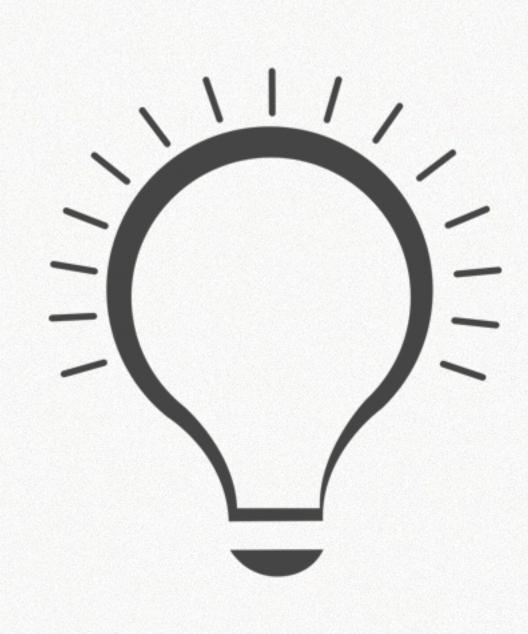
100% COMPILED TO BYTECODE, NO INTERPRETER

100% ECMASCRIPT 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

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

NASHORN IN «WILD LIFE»

- *VERT.X NASHORN MODULE
- * PROJECT AVATAR (FORMER NODE.JAR)

RESTRICTIONS

- *THERE ARE NO BROWSER APIS:
 - *HTML5 CANVAS
 - *HTML5 AUDIO
 - *WEBWORKERS
 - *WEBSOCKETS
 - *WEBGL

SHOW ME THE CODE

HTTPS://GITHUB.COM/GAMUSSA/JAVA-SCRIPTING-EXPERIMENTS

THANKS

FOR YOUR ATTENTION