

# Java 8: The Good, the Bad and the Ugly



Oleg Tsal-Tsalko  
@tsaltsol





OLEG TSAL-TSALKO



SOLUTION ARCHITECT AT EPAM SYSTEMS.  
PASSIONATE DEVELOPER, SPEAKER, ACTIVE  
MEMBER OF KIEV JUG.  
PARTICIPATE IN DIFFERENT EDUCATIONAL  
INITIATIVES, ENGINEERING EVENTS AND JCP/  
ADOPTJSR PROGRAMS.  
MEMBER OF ARCHITECTURE EXCELLENCE  
INITIATIVE AND ENGINEERING PRODUCTIVITY  
GROUPS IN EPAM.



# <WE'RE HIRING!>

EXPERTS  
ONLY

Java Developers & JavaScript Developers

The logo for Epam, featuring the word "epam" in a white, lowercase, sans-serif font, flanked by blue chevron symbols pointing outwards. The logo is centered over a background image of a vast, hazy mountain range with a dirt road winding through a forested valley.

**LEARN JAVA, THEY SAID**



**IT'LL BE FUN, THEY SAID**

# #1. Optional



`NullPointerException`

Talk is cheap. Show me the code.

– Linus Torvalds



Optional containers  
should be short lived

Wrap nullable  
values in Optional  
to operate on them

Use chained  
methods

Carefully  
choose what to  
wrap



# #2. Lambdas





Talk is cheap. Show me the code.

– Linus Torvalds



Be concrete with  
functional interfaces

Avoid long or  
complex lambda  
expressions

Prefer reusable  
method  
references

Use specific  
methods on  
collections



# #3. Stream API



Talk is cheap. Show me the code.

– Linus Torvalds



Don't use external state with streams

Don't mix streams and imperative code

Avoid complex nested streams

Take a look at extensions like jOOL, StreamEx.



And remember...



**НЕЛЬЗЯ ПРОСТО ТАК ВЗЯТЬ**

**И НАПИСАТЬ КРУТОЙ JAVA КОД**

risc.ru.h.ru