



JVM REPL = jshell

# Author



## Piotr Lewandowski

Full-stack developer at  dynatrace

[piotrl.net](http://piotrl.net)

# Resources

[https://github.com/piotrl  
/jshell-training](https://github.com/piotrl/jshell-training)

- **/resources** – slides & gifs
- **/quests** – assignments & challenges
- **/src** – small demonstration project

# Goals of workshop

- 1.** Get used to jshell
- 2.** Repetition of native Java APIs
- 3.** Train, train ;)

> jshell

# jshell – how REPL works?

```
grovm@Piotr-Dev ~  
λ |
```

# jshell – how REPL works?

```
grovm@Piotr-Dev ~
λ jshell
| Welcome to JShell -- Version 10
| For an introduction type: /help intro

jshell> 1 + 1
$1 ==> 2

jshell> String name = "InfoShare Academy"
name ==> "InfoShare Academy"

jshell> name.to
toCharArray() toLowerCase()  toString() toUpperCase()

jshell> name.toUpperCase();
$3 ==> "INFOSHARE ACADEMY"

jshell> /exit|
```

# jshell about itself

```
jshell> /help intro
|
|                               intro
|                               =====
|
|   The jshell tool allows you to execute Java code, getting immediate results.
|   You can enter a Java definition (variable, method, class, etc), like: int x = 8
|   or a Java expression, like: x + x
|   or a Java statement or import.
|   These little chunks of Java code are called 'snippets'.
|
|   There are also the jshell tool commands that allow you to understand and
|   control what you are doing, like: /list
|
|   For a list of commands: /help
```

# So, what is jshell again?

// CLI tool

// REPL = Read-Evaluate-Print-Loop

// Provided by Oracle in JDK 9+

# Why?

// Learning language

// Testing Java niuances

// Focus on solution, not on quality

# Demo

# Navigation

How to...

... exit?

... search?

... break snippet?

... re-run last snippet?

... auto-finish snippet?

# Linux-inspired

/exit or CTRL+D

CTRL+R

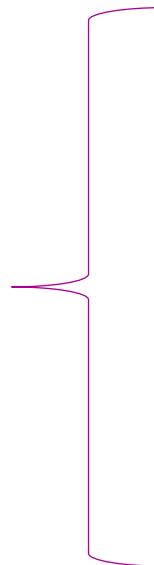
CTRL+C

UP-Arrow

TAB

# jshell commands

Listing current session state



/vars  
/imports  
/methods  
/types  
/list  
/history

# jshell commands

**Save session to file:**

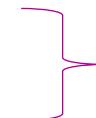
/save file-name.jsh

**Open and load file:**

jshell {file-name.jsh}

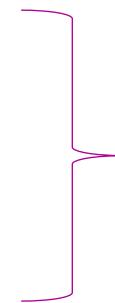
# jshell commands

/open <file-name>



// YOUR SCRIPTS

/open PRINTING



// println(“string”)

/open JAVASE

// import all packages

# Goal of the workshop

**EXPLORE** java!

With help of jshell



# Challenge #1

## Standard library training

There is **70 String** methods

How many of them you know?

# Challenge #2

## New & shiny Java features

// Do you remember LocalDate?

// How to easily create collections?

// Did you heard of type inference?

# Ultimate challenge

## Tricky interview questions



# Futher learning

# Resources – jshell tutorial

## JShell Tutorial

**Robert Field**

**April 15, 2017**

- [Introduction](#)
  - [What is JShell](#)
  - [Starting JShell](#)
- [Snippets](#)
  - [Trying it out](#)
  - [Changing Definitions](#)
  - [Forward Reference](#)
  - [Exceptions](#)
  - [Tab Completion -- Snippets](#)
  - [Snippet Transformation](#)
- [Commands](#)
  - [Commands -- Introduction](#)
  - [Tab Completion -- Commands](#)
  - [Command Abbreviation](#)
  - [Editors](#)
- [Shell Editing](#)

# Wideo presentation [PL][50min]

Java9 and REPL by Kuba Marchwicki



# Contact me

**Piotr Lewandowski**

mail@piotrl.net

<http://piotrl.net>