Introducing JShell



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What Is JShell?

Read → type code
 Eval → execute code
 Print → see results
 Loop → interactively refine

Like Lisp, Groovy, Scala

Why JShell?



Quickly test ideas

No public static void main(String[] args) ceremony

Direct feedback without compilation



Exploring APIs

Code completion

Built-in documentation



Teaching tool

No IDE, just Java

Demo

JShell Basics

Using JShell: Basics

Demo

JShell: Declarations

Using JShell: Declarations

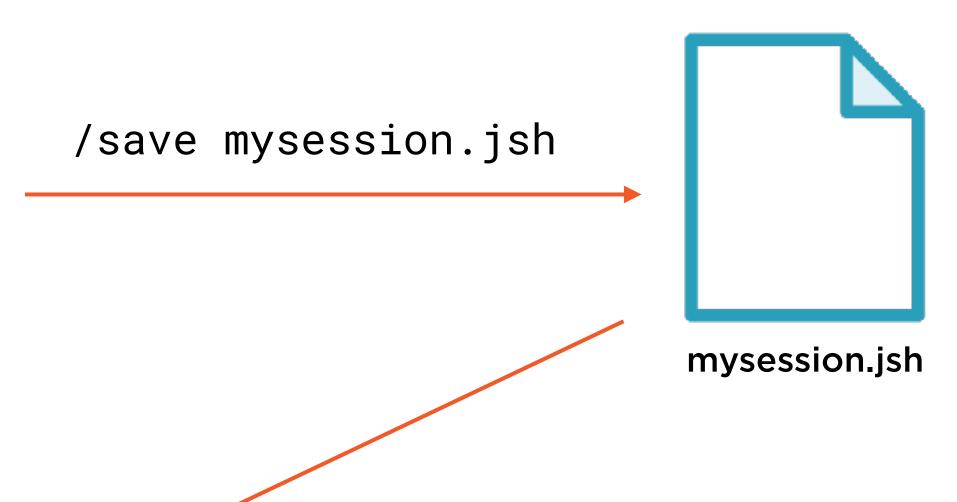
Using JShell: Environment

```
jshell> int x = 1
x ==> 1
| modified variable x : int
| update overwrote variable x : int

jshell> System.out.println(
println(
jshell> System.out.println("Hello Pluralsight")
Hello Pluralsight

jshell> class Simple {
    ...> public String simple;
    ...> }
| created class Simple
jshell>
```

```
jshell> /open mysession.jsh
Hello Pluralsight
jshell>
```



/open mysession.jsh

Using JShell: Environment

```
public class Person {
  public String name;
}
```

/open Person.java

Person.java

Using JShell: Environment

Set classpath to load from JARs

```
jshell --class-path ...
```

JShell API

A shell in your own application

Code-completion functionality

Source code analysis

IDE Integration

```
JShell jshell JOhell.create();
List<SnippetEvent> events =
   jshell.eval("int i = 0;");
Stream<VarSnippet vars =
   jshell.variables();</pre>
```

Summary



Quickly test ideas



Exploring APIs



Teaching tool