



Main sponsor



Play! framework: a revolution in the Java world

Nicolas Leroux

Picasso

Monet + Rembrandt

Matejko + Canaletto

What's new in
Java EE 6

Sang Shin

Programming Clojure
Venkat Subramaniam

Architecture and
programming model for
NOSQL web (Polish)

Jarosław Pałka

About me

Nicolas Leroux
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“ Play is a web framework



LUNATECH

“ Founded by Guillaume Bort in 2007

+250K download

+2000 members

70 e-mails per day

Trends++

+72 modules and growing



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“ Play is made by web developers for web developers



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“ Are you a web developer?



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“ Part of our daily job



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“ You need laser vision



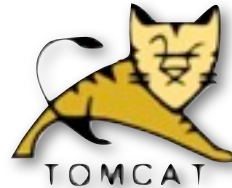
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“ ... to spot the error

```
13:07:55,796 ERROR [[PersonServlet]] Servlet.service() for servlet
PersonServlet threw exception
javax.ejb.EJBException: null; CausedByException is:
    null
    at
org.jboss.ejb3.tx.Ejb3TxPolicy.handleExceptionInOurTx(Ejb3TxPolicy.java:46)
    at org.jboss.aspects.tx.TxPolicy.invokeInOurTx(TxPolicy.java:70)
    at
org.jboss.aspects.tx.TxInterceptor$Required.invoke(TxInterceptor.java:134)
    at
org.jboss.aop.joinpoint.MethodInvocation.invokeNext(MethodInvocation.java:98)
    at
org.jboss.aspects.tx.TxPropagationInterceptor.invoke
(TxPropagationInterceptor.java:61)
    at
org.jboss.aop.joinpoint.MethodInvocation.invokeNext(MethodInvocation.java:98)
    at
org.jboss.ejb3.stateless.StatelessInstanceInterceptor.invoke
(StatelessInstanceInterceptor.java:39)
    at
org.jboss.aop.joinpoint.MethodInvocation.invokeNext(MethodInvocation.java:98)
    at
org.jboss.aspects.security.AuthenticationInterceptor.invoke
(AuthenticationInterceptor.java:63)
    at
org.jboss.aop.joinpoint.MethodInvocation.invokeNext(MethodInvocation.java:98)
    at
org.jboss.ejb3.ENCPropagationInterceptor.invoke(ENCPropagationInterceptor.java:
32)
```



“ Incredible force to link all those together



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“ Sometimes you need to fight hard to get them working together



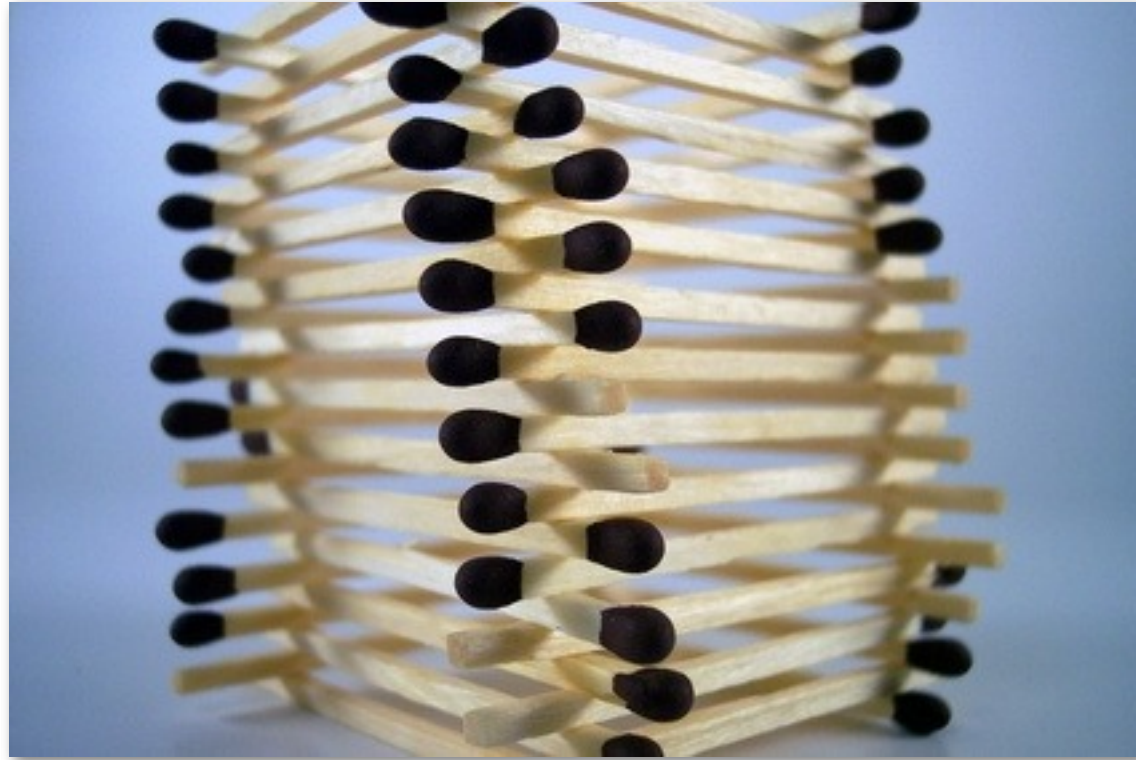
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“ Often, only one solution



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“ Pray that all works out!



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“ You need incredible speed to build the web app and to be sure it looks good



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“ Typical Java web app in java. We can do better...

ELVIS wordservice-5 [Inloggen](#)

⚠ Gelieve eerst in te loggen

Inloggen

Log in met uw gebruikersnaam en wachtwoord

Gebruikersnaam

Wachtwoord



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“ Internationalization



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“ Asynchronous job

“ TDD

“ Routing

“ Hot deployment

“ Upload file

“ ...



“ Being superman is hard work for little recognition



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“ And you might really end up like him



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“ We should not need to be superman to create a web application



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“ Play focuses on creating simplicity



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“ Play is stateless... like the web



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HTTP Abuse

<http://www.myapp.com/WarRootDirectory1/ServletsOnAMoFoPlane?sessionId=x81ndj38avngjLOLdxpanewq&action=NextPage&Mykel=Alvis&entityId=1299124&processName=UnladenSwallowComputation&role=peon&date=03%2F01%2F1999&flagSettings=010101110110&returnPage=%2FServletThatRing>



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URLs for perfectionists

“ <http://www.myapp.com/items/356>”

You can read it.

You can bookmark it.

You can share it.



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So you can be RESTful

“ URLs are important.

Fully realize the meaning of HTTP as a protocol not just a transport layer.

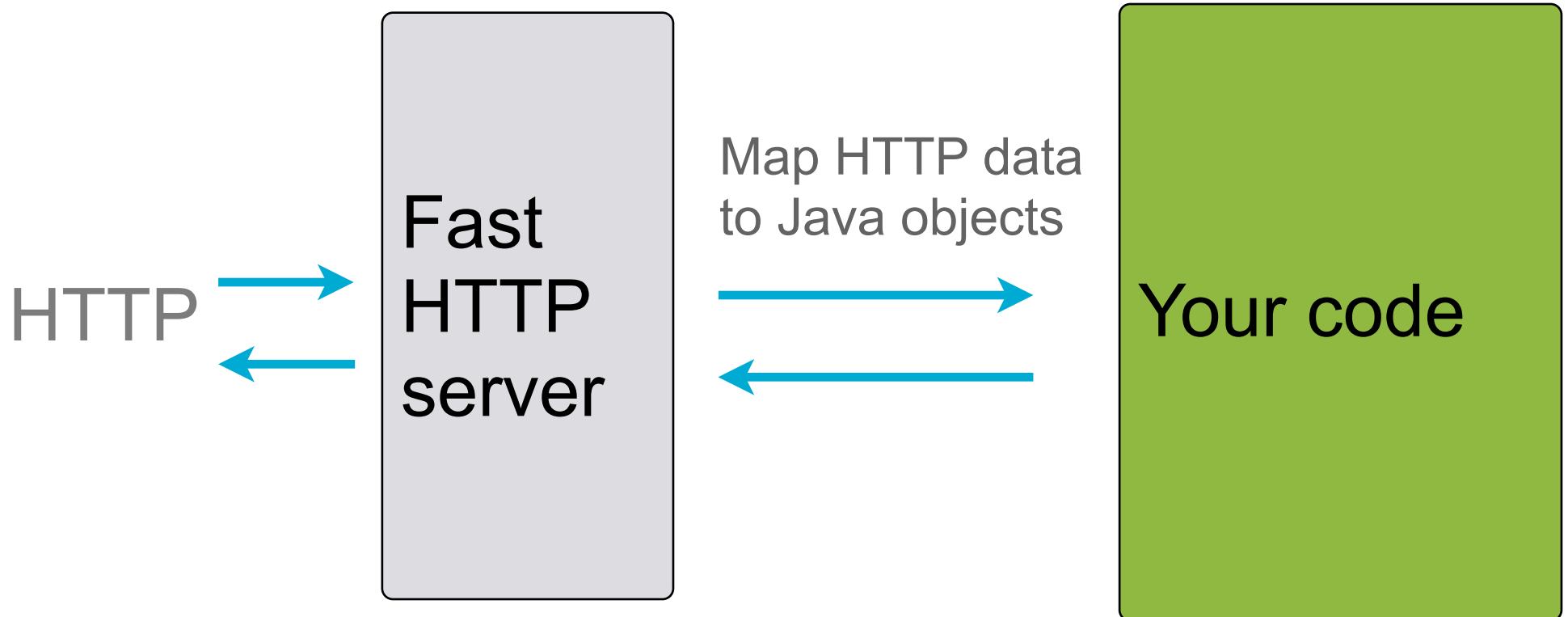
Take care of side effects & idempotence.

Hypermedia as the engine of application state (no server side navigation state).



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Play isn't servlet based



HTTP parameter binding

“ <http://www.myapp.com/items/{id}>

```
public static show(String id) { ... }
```

```
public static show(Item item) { ... }
```

```
<form action="/item/add"
```

```
method="POST"> Name: <input
```

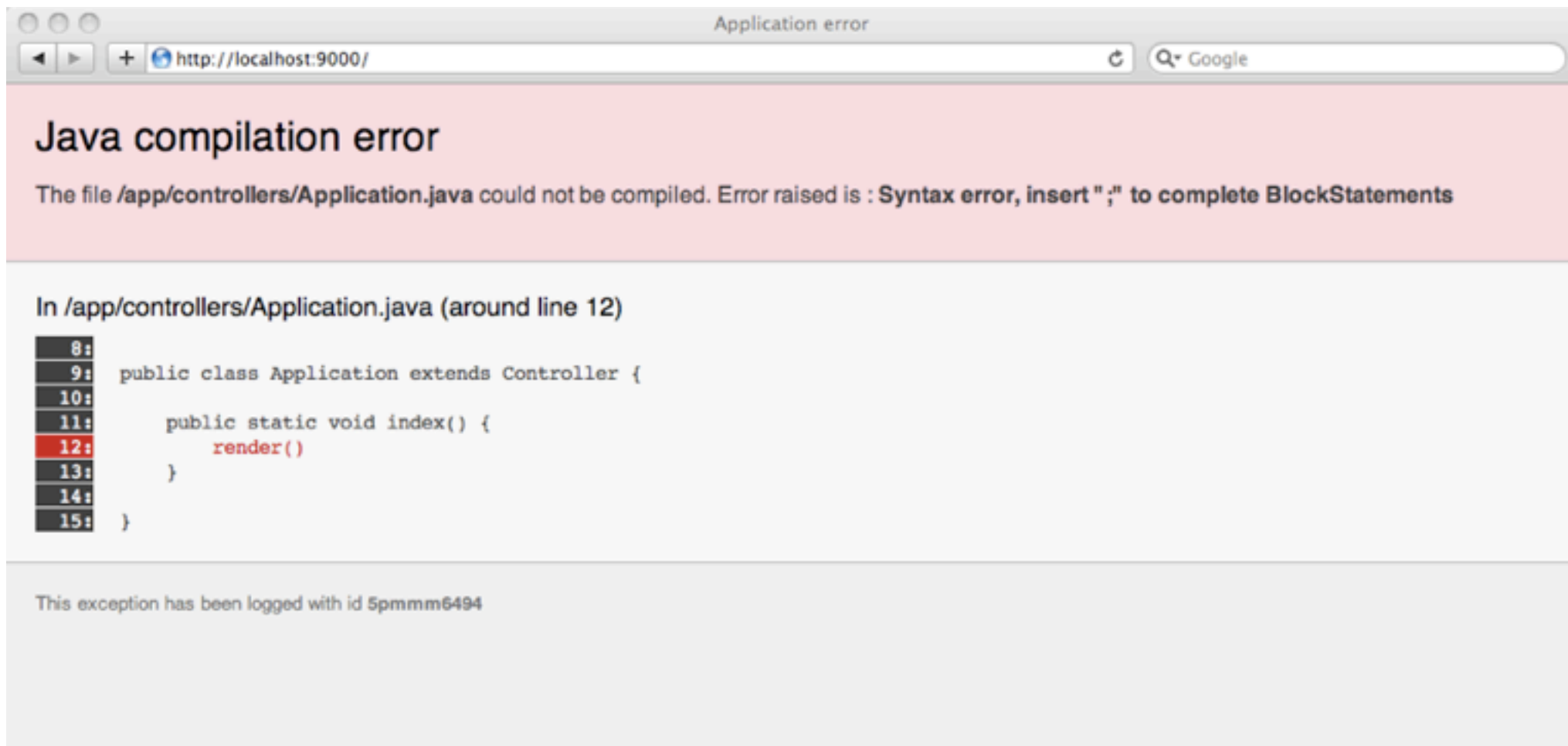
```
type="text" name="item.name" />Age:
```

```
<input type="text" name="item.age" /></
```

```
form>
```



“ No laser vision



The screenshot shows a web browser window with the title "Application error". The address bar displays "http://localhost:9000/". The main content area has a pink header with the text "Java compilation error". Below this, a message states: "The file /app/controllers/Application.java could not be compiled. Error raised is : Syntax error, insert ";" to complete BlockStatements". A code snippet is shown with line numbers 8 through 15. Line 12 is highlighted in red and contains the code `render()`. The code is as follows:

```
8:
9: public class Application extends Controller {
10:
11:     public static void index() {
12:         render()
13:     }
14:
15: }
```

At the bottom, a message states: "This exception has been logged with id 5pmmm6494".



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“ Good documentation

Documentation

Welcome to the Play framework documentation. This documentation is intended for the **1.2 release** and may significantly differ from previous framework versions' documentation.

Check the [version 1.2 release notes](#).

Getting started

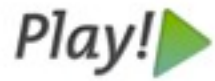
Your first steps with Play and your first 5 minutes of fun.

1. [Play framework overview](#)
2. [Watch the screencast](#)
3. [Five cool things you can do with Play](#)
4. [Usability – details matter as much as features](#)
5. [Frequently Asked Questions](#)
6. [Installation guide](#)
7. [Setting-up your preferred IDE](#)
8. [Your first application — the “Hello World” tutorial](#)
9. [Sample applications](#)

Tutorial — Play guide, a real world app step-by-step

Learn Play by coding ‘**Yet Another Blog Engine**’, from start to finish. Each chapter will be a chance to learn one more cool Play feature.

1. [Starting up the project](#)
2. [A first iteration of the data model](#)
3. [Building the first screen](#)
4. [The comments page](#)
5. [Setting up a Captcha](#)
6. [Add tagging support](#)
7. [A basic admin area using CRUD](#)
8. [Adding authentication](#)



Play master-0863a94

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“ TDD

Tests runner

Select the tests to run, then click [Start] and pray

Start ! 3 tests to run ([Bookmark this link to save this configuration](#)) - [Unselect all](#)

There is 1 unit test,

+ **BasicTest**

1 functional test,

- **ApplicationTest**

testThatIndexPageWorks

Failure, Response status expected:<200> but was:<302>

14 ms

In /test/ApplicationTest.java, line 12 :
assertIsOk(response);

and 1 selenium test,

- **Application**



“ No incredible power is needed. Play is full stack.

- Development & production server.
- Incremental compiler.
- MVC stack with a template system.
- Persistence engine.
- Complete test runner.
- Powerful web services client.
- Asynchronous task management.
- Extension point through modules.



“ More in the Play 1.2 release

Continuations.

Dependency management.

Websocket support.

Pattern matching.

New asynchronous features.

...



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“ Any changes to the application code are automatically reloaded when you hit the “reload” button of your browser.



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- “ It only manages the server side. Use any client technologies you want (but favor HTML5).
- “ Not for javascript haters



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“ Features are nice, but they should empower not distract.



“ Start simple. Easy to learn



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“ Little by little assemble simple pieces together



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“ To build awesome web applications



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“ Let’s have a look



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Monitoring 10 Critical Code Quality Metrics with Sonar

Matthew McCullough

Picasso

Monet + Rembrandt

Matejko + Canaletto

Practical Guide to using
REST for SOA

Stefan Tilkov

Five years of change, no
outages

Steve Freeman

So you think agile software
development and building
houses have nothing in
common...

Woiciech Seliga