





Vavr #1

Object-functional library talks; meeting 1

Jakub Madej · Dev.Java.Wro #3 · 29.11.2018

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Agenda

What is Vavr?

Vavr goodies

Cons and pros

What is Vavr?



 turns java™ upside down

vavr.io


<http://www.vavr.io/>

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**VΛVΓ (Vavr, formerly called
Javaslang) is a non-commercial,
non-profit object-functional library
that runs with Java 8+. It aims to
reduce the lines of code and
increase code quality.**



Vavr goodies



Vavr goodies

- Tuples
- Functions
- Values
- Collections

Vavr goodies - values

- Option *container*
- Try *container*
- Lazy *container*
- **Either** *value of two possible types*
- Future *computation result*
- Validation facilitates accumulating errors

Vavr goodies - Either

- Either represents a value of two possible types.

Vavr goodies - Either

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- An Either is either a Left or a Right

Vavr goodies - Either

- Either represents a value of two possible types.
- An Either is either a Left or a Right
- By convention the success case is Right and the failure is Left.

Example



```
public <T> T mapToObject(  
    T object,  
    Map<String, Object> map);
```



```
public <T> T mapToObject(T object, Map<String, Object>
map) {

    Set<ConstraintViolation<Object>> errors =
Sets.newHashSet();

    T mappedObject = mapToObjectInternal(object, map,
errors);

    if (!errors.isEmpty()) {
        throw new ConstraintViolationException(errors);
    }

    return mappedObject;
}
```



```
public <T>
Either<Set<ConstraintViolation<Object>>, T>
mapToObjectOrFail(T object, Map<String, Object> map) {

    Set<ConstraintViolation<Object>> errors =
Sets.newHashSet();

    T mappedObject = mapToObjectInternal(object, map,
errors);
    if (!errors.isEmpty()) {
-        throw new ConstraintViolationException(errors);
+        return Either.left(errors);
    }
-    return mappedObject;
+    return Either.right(mappedObject);
}
```




```
return  
    mapToObjectOrFail(object, map)  
        .getOrElseThrow(ConstraintViolationException::new);
```



Cons and pros?







Thank you!

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