

# Bare-knuckle web development

Agile Prague

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- **Philosophy**
- **Demonstration**
- **Ruminations**

# Part I:

# The bare-knuckle philosophy

- **Fear => Pair**
- **Hubris => Speed (and fun)**

# High impact with low ceremony

- **Framework light**
  - **Test-driven**
- **No calculators**

# Light on framework



**Frameworks solve 80%  
of the job...**

**... and makes the rest 10  
times as hard**

**“Why did Hibernate suddenly slow down?”**

**“How do I make JBoss  
behave the way I  
want?”**

**“How do I implement a custom SOAP header with JAX-WS?”**

**“Why did my dependencies  
not inject?”**

**“How do I do *anything* with  
Spring”**

# Test-driven

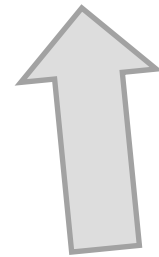


# Fast feedback cycle

**“I can see how TDD works  
for toy examples...”**

**“... but how can we use it  
when we have all these  
really complicated  
technologies???”**

**(Hint:  
“all these complicated technologies”**



**I think I see your problem  
right here...)**

**Don't use a  
calculator...**

# Part II:

# Demo: Phonebook web app

# Part III:



# The real world

**Build your app this  
way?**

# Probably not

**Well, why not?**

**I am most likely  
insane**

**Understand what's  
going on**

**«Don't reinvent the  
wheel»**





**Are you using  
technology to solve  
your problems?**

**Or so that you don't  
have to face your  
problems?**

... yet.

# Overheated brain

**95 % test coverage**

**95 % test coverage**  
**5-10 seconds**

**95 % test coverage**  
**5-10 seconds**  
**< 1 day to create**  
**«framework»**

# ***SOAP:***

- 1. Construct XML***
- 2. POST on HttpURLConnection***



@Override

```
public String getCountryByIp(String ipAddress) {
    Document soapRequest =
        soapElement("S:Envelope",
            $("S:Body",
                wsxElement("wsx:GetGeoIP",
                    $("wsx:IPAddress", ipAddress))));
    Document soapResponse
        endpoint.postRequest(getSOAPAction(), soapRequest);
    return $(soapResponse).xpath("/Envelope/Body/*")
        .xpath("GetGeoIPResult/CountryName").text();
}
```

***No friction***

# Thinking in tests

1.

**Guiding test/  
Web tests/  
Acceptance test/  
Usage Flow test**

2.

**Get the infrastructure  
to work =>  
separate out  
responsibility**

**3.**



# Fine grained tests for internal logic

# Shallow, then deep

**Shallow, then deep**  
**(without changing tests)**

# Conclusion:

# YAGNI

**No calculator  
until...**

***Don't use a framework  
you couldn't have  
written yourself***

# Thank you

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