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Make IT Grow!

Warszawa, 7 kwiecień 2014

Enabling Continuous Delivery

www.4developers.org.pl





About me

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Software Craftsman

Specializing in web apps

Writes code mostly in Java

Co-founder at Oakfusion

Trainer at Bottega IT Solutions

Branch free since 2010 (with small brake)



Survey

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Quick survey





What is CD?

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Our highest priority is
to satisfy the customer
through early and
continuous delivery
of valuable software.



Technics

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- automated testing,
- continuous integration
- continuous inspection
- continuous deployment



Slide name

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Release != Deploy

Release - make feature accessible to users

Deploy - put newest app version on server



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What's in it for me?





Starting point

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How big is you app?





Slow tests

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Your tests are too slow

Unit tests < 1ms

Integration tests < 50 ms

Acceptance tests - as fast as possible :)



Divide and Conquer

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Your app is to big

- Micro applications
- Micro services



Branches

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Branches slows you down





Managing changes

- Feature switches
- Incremental changes

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Introducing changes

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Branching by abstraction





Automatic Tests

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Write your tests
and
make them fast



Automatic Testing

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Bugs

- can't complete action
- can complete action wrong



Configuration

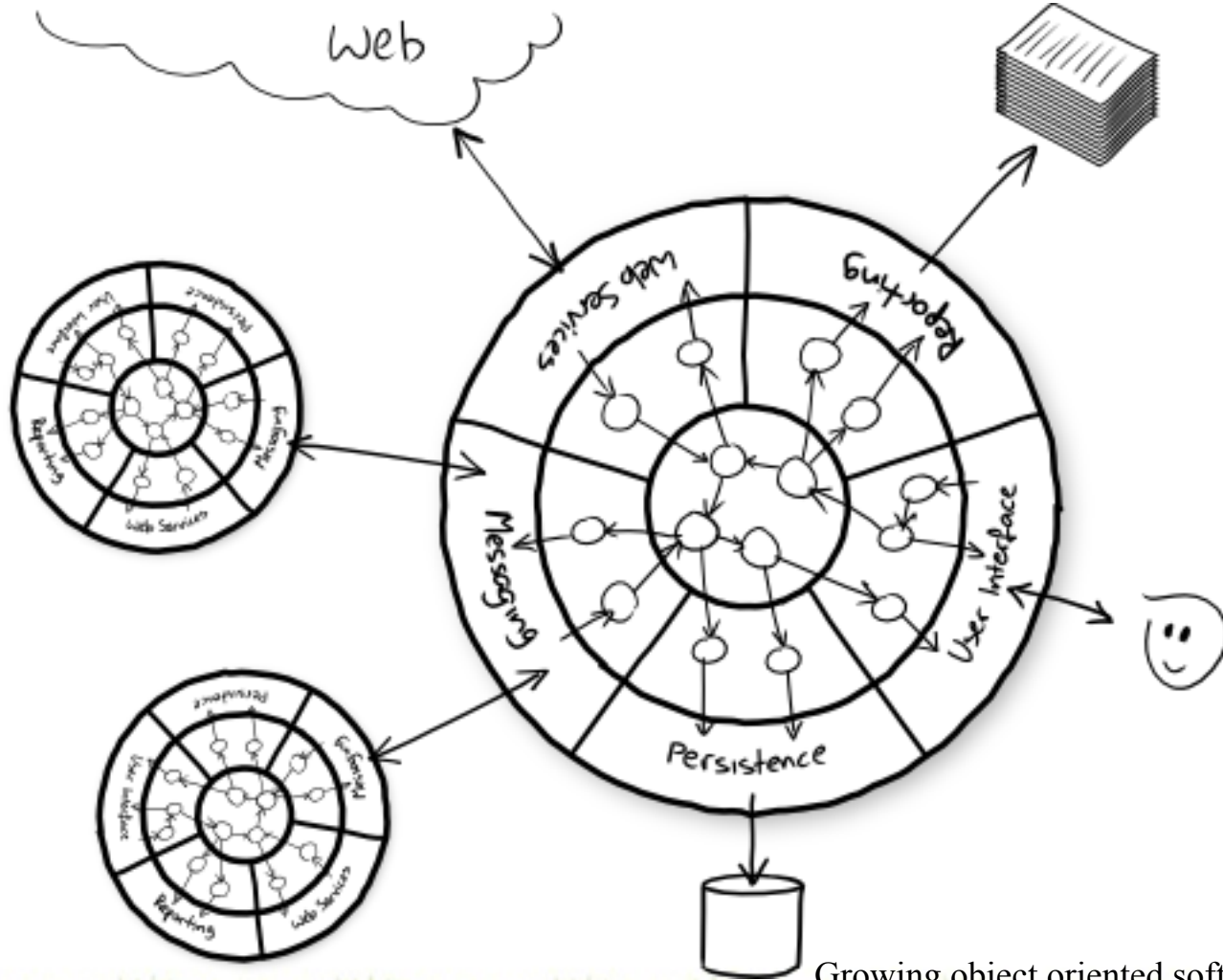
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Make your app configurable





Hexagonal Architecture



Growing object oriented software guided by tests



Monitor your process

- Static code analysis
- Process metrics
- Application monitoring



Infrastructure

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Infrastructure needs to enable you
to create small apps





Summary

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- Culture & Organization
- Design & Architecture
- Build & Deploy
- Tests & Verification
- Information & Reporting



Q&A

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Q&A

