

25.10.2012

# Architecting for Continuous Delivery

**Axel Fontaine**

Software Development Expert



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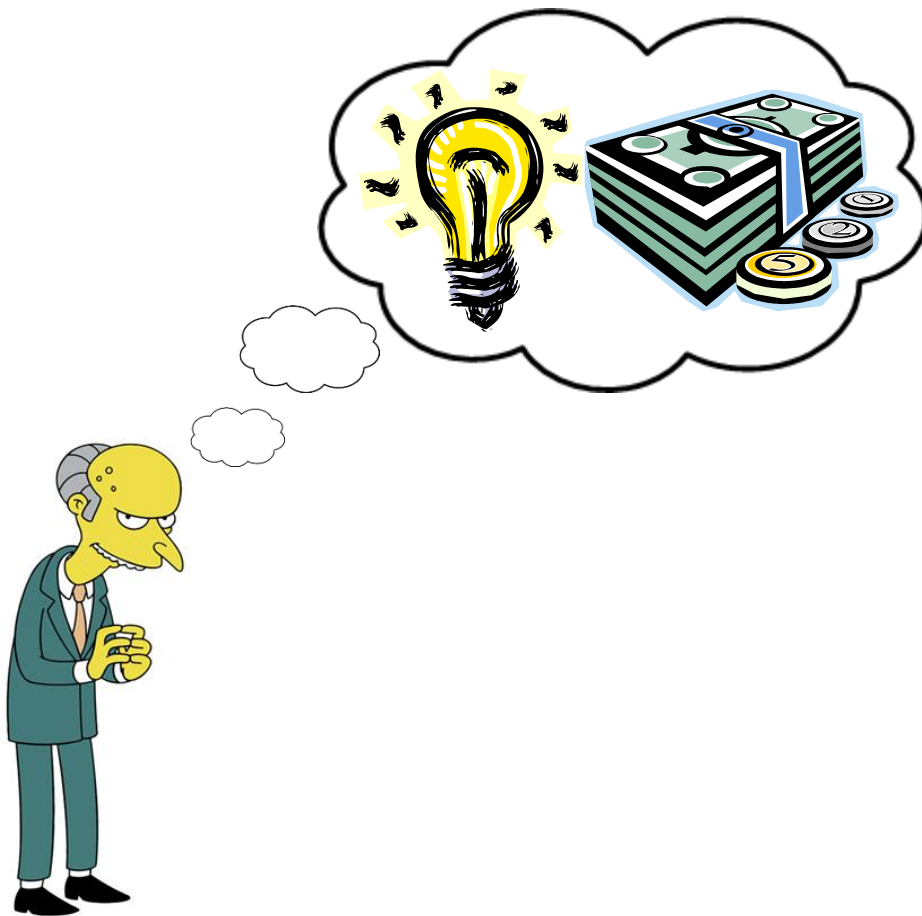
[business@axelfontaine.com](mailto:business@axelfontaine.com)

**Ziel** Komplette Anwendung  
vollautomatisiert  
mehrmals pro Tag  
produktiv zu deployen  
ohne Downtime

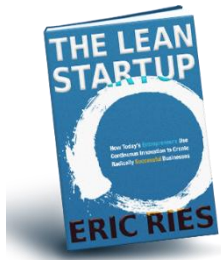
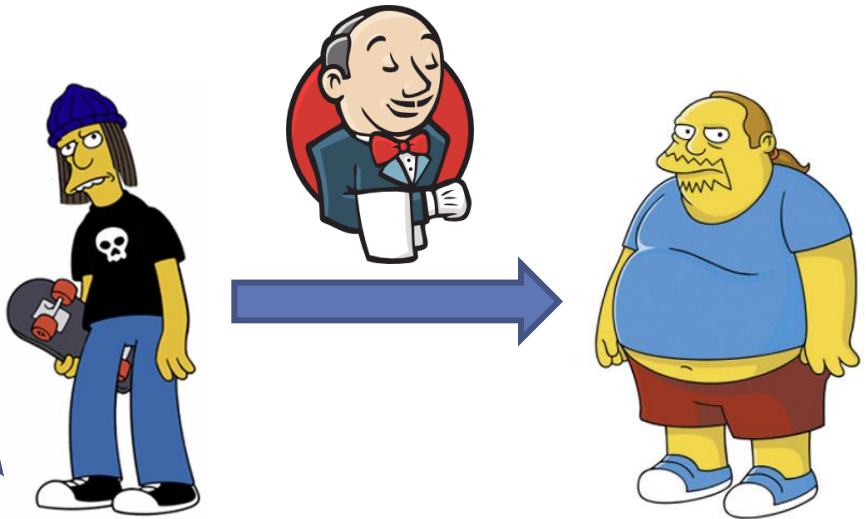








 Scrum









# Continuous Delivery



## Things that connect us

We honor the everyday things that bring us together and celebrate people everywhere opening up and connecting. [Share](#) ▶

### Sign Up

It's free and always will be.

First Name:

Last Name:

Your Email:

Re-enter Email:

New Password:

I am:

Select Sex: 

Birthday:

Month: Day: Year: 

Why do I need to provide my birthday?

By clicking Sign Up, you agree to our [Terms](#) and that you have read our [Data Use Policy](#), including our [Cookie Use](#).

[Sign Up](#)



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in photos

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or login with your ID:  

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## Upload

More ways to get your photos online.

Multiple ways to upload your photos to Flickr—through the web, your mobile device, email or your favorite photo applications.

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See what's going on in your world.

Keep up with your friends and share your stories with comments & notes. Add rich information like tags, locations & people.

## Share

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Upload your photos once to Flickr, then easily and safely share them through Facebook, Twitter, email, blogs and more.

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It takes less than a minute to create your free account & start sharing!

  Have a Google or Facebook account? You can use them to sign in!



## FEATURING



*Flickr was last deployed 6 hours ago, including 6 changes by 3 people.*

*In the last week there were 80 deploys of 441 changes by 19 people.*

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<http://code.flickr.com/>

## Top Questions

interesting

198

featured

hot

week

month

## Favorite Tags

flyway ✕

Add

## Ignored Tags

Add

network tag filters »

## Recent Tags

c# × 81

java × 53

c++ × 52

php × 43

javascript × 41

jquery × 28

android × 28

iphone × 27

.net × 23

objective-c × 22

python × 20

asp.net × 19

html × 19

-2

2

24

how do i get the number of members on status name

mysql

sql

sql-server

join

14s ago dragon112 139

0

1

15

Problem while playing video in jsp - How to redirect to another page after playing the video?

java

html

jsp

19s ago bhagyas 262

0

0

2

Can inline elements contain block elements?

html

24s ago Vimal Basdeo 458

0

0

1

What is the Fastest .net web solution?

asp.net

web-services

asp.net-ajax

ajax.net

24s ago JCPflux 63

2

1

13

How to get time format using country ISO code in android?

android

time-format

27s ago Sathya 2,093

0

0

1

Which one is best - Component based or Action based Framework ?

struts2

jsf-2.0

39s ago Arun 184

0

0

6

calling a Jmodal function within vb.net asp.net

jquery

asp.net

vb.net

40s ago Houlahan 44

0

0

2

PhotoPicker sample app, MyViewController





peer1  
hosting



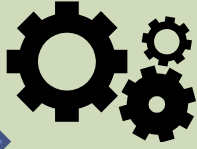
SOME RIGHTS  
RESERVED

rev 2012.10.25.4534

<http://stackoverflow.com/>

# Voraussetzungen

DEV



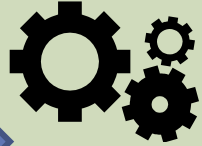
Build



Small  
Tests







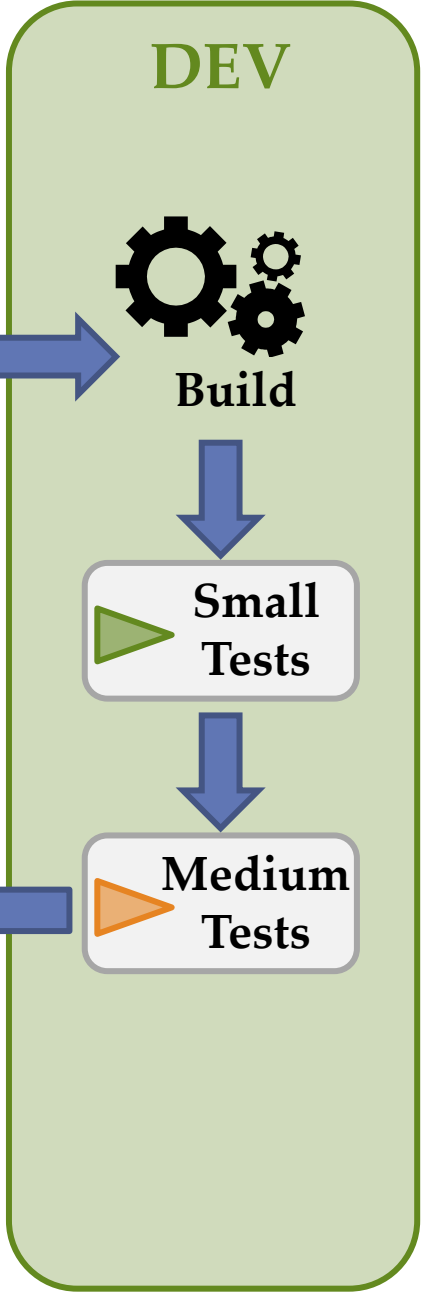
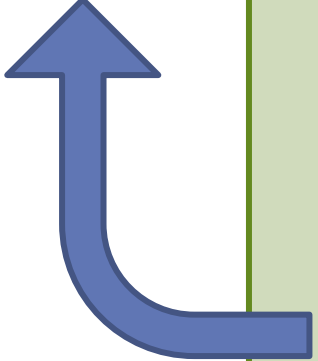
**Build**

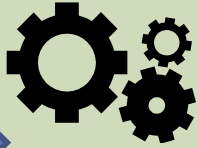


 **Small Tests**

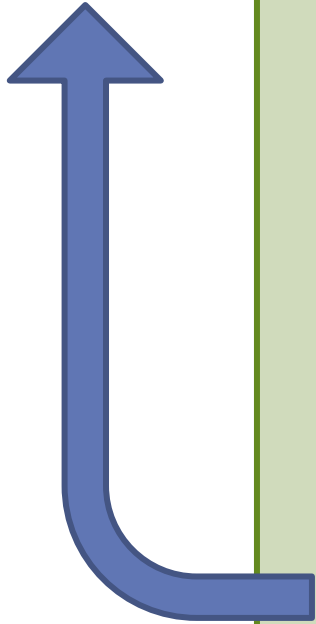


 **Medium Tests**

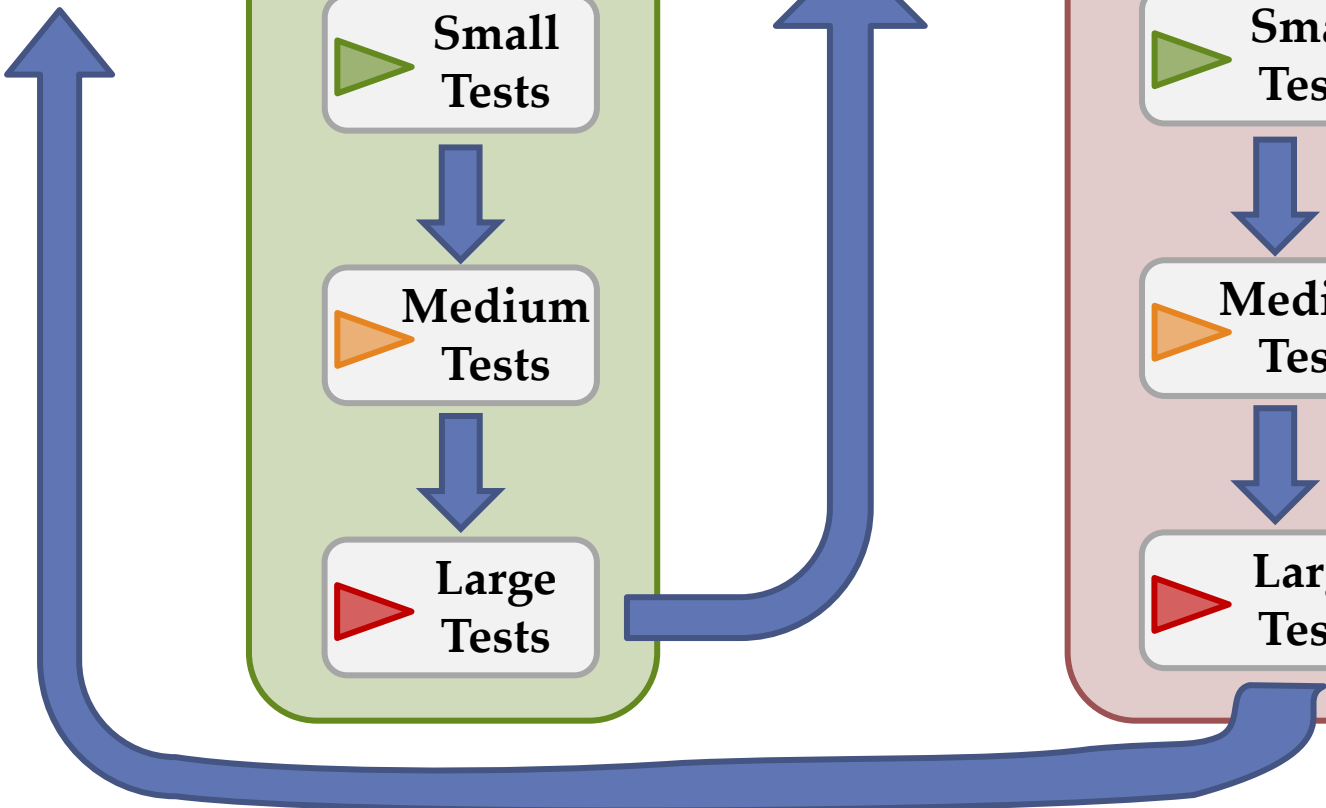
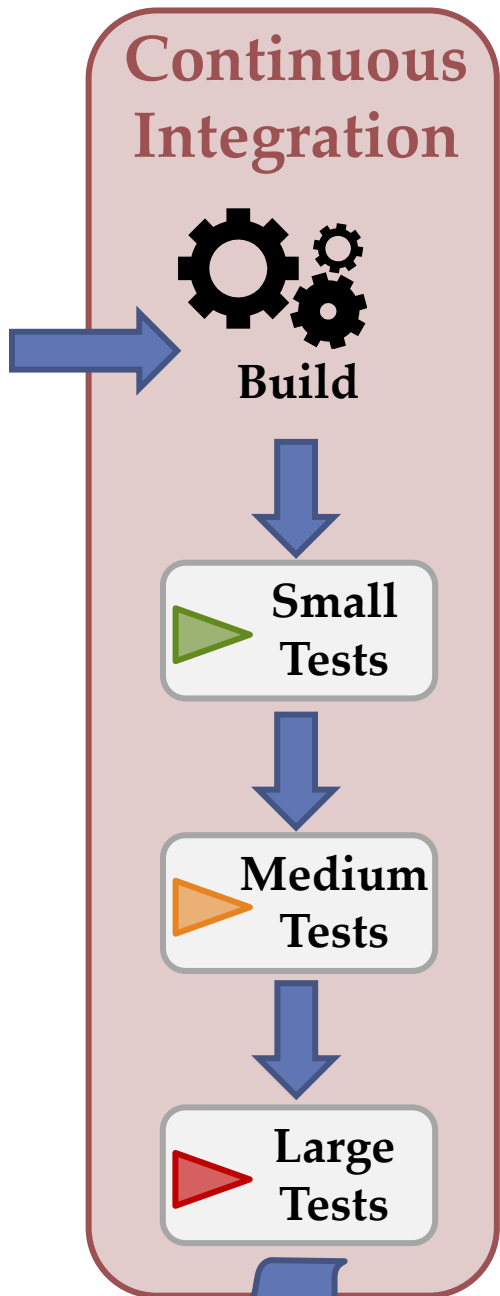
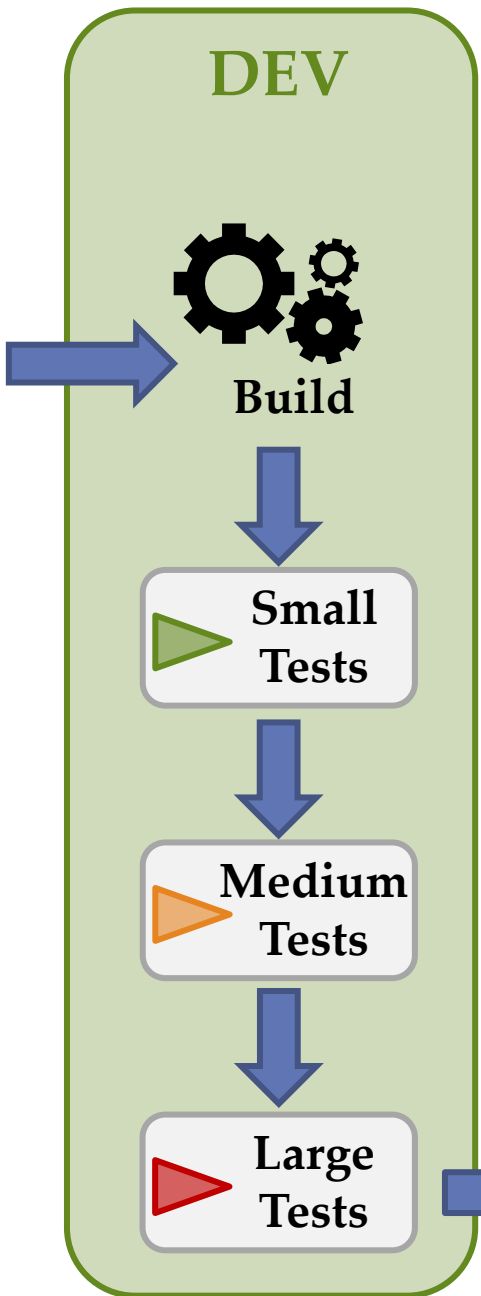




**Build**



**DEV**





# Deployment Automatisierung

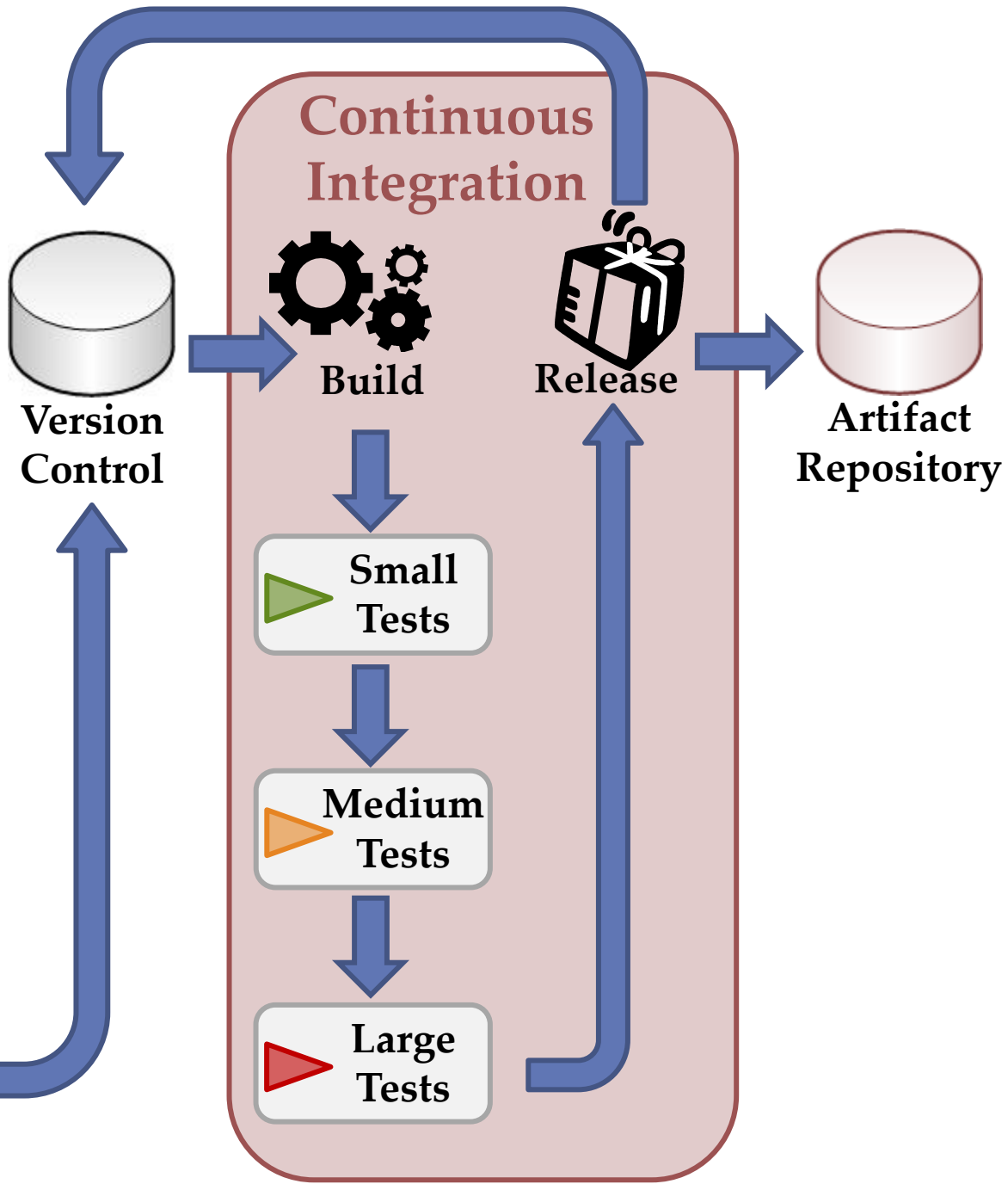
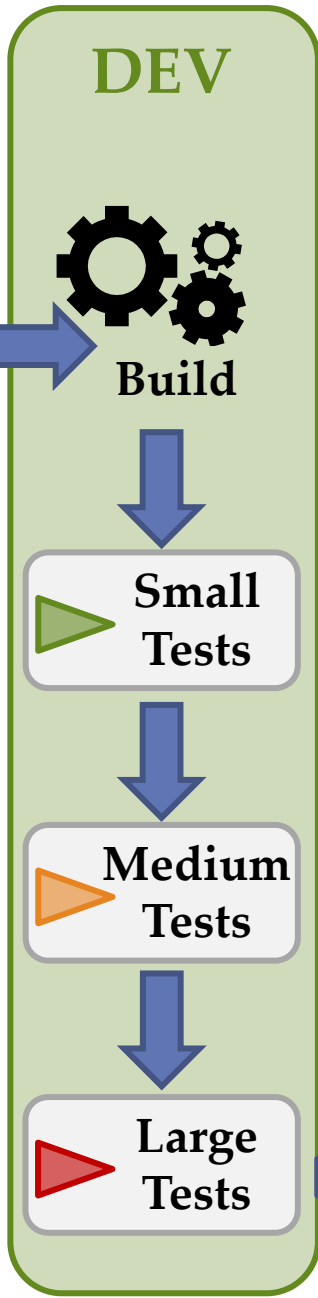


Snapshots

werden

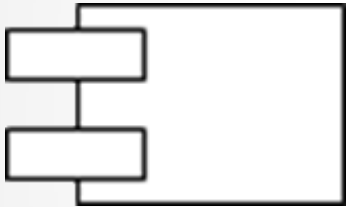
NICHT

deployed !





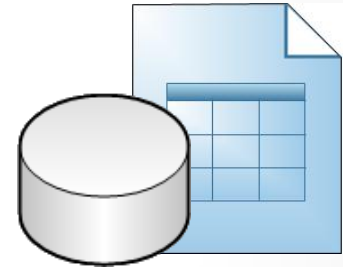
# Was wird deployed?



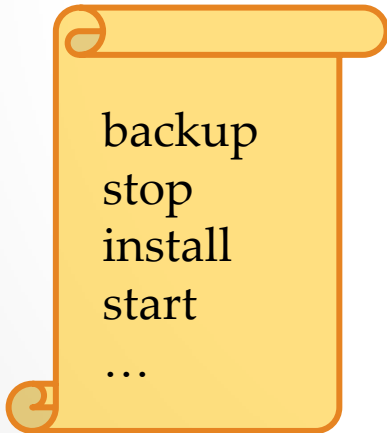
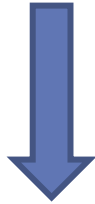
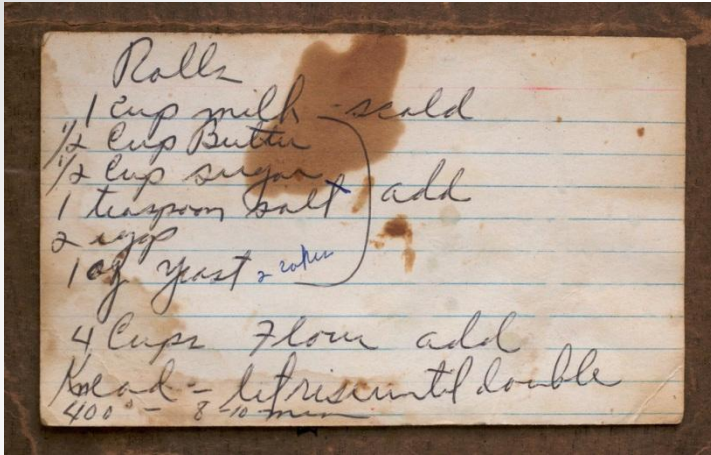
Code



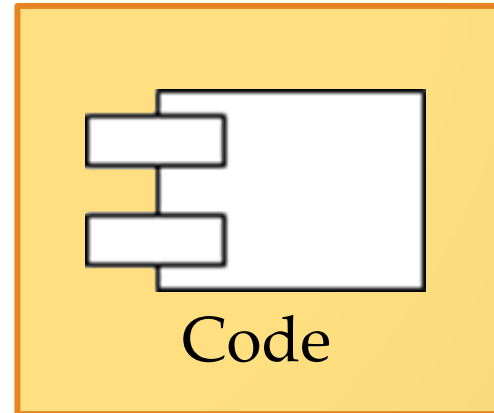
Konfiguration



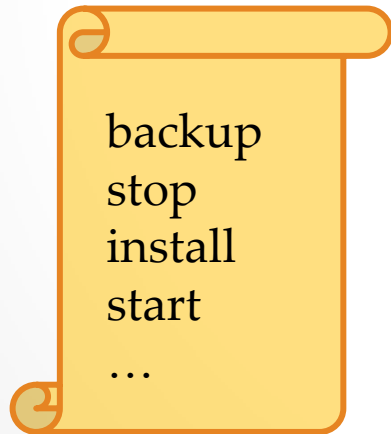
DB Delta



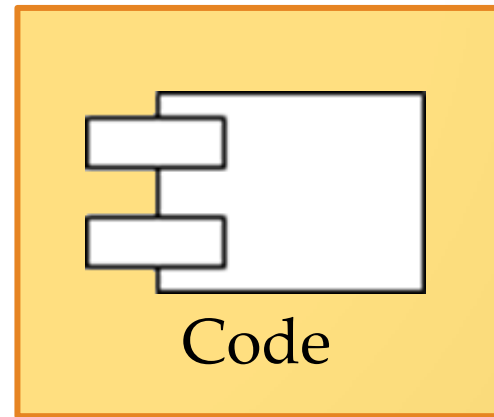
**Deployment  
Script**



**Deployment  
Package**



**Deployment  
Script**

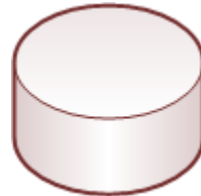


**Deployment  
Package**

# Continuous Integration



Release



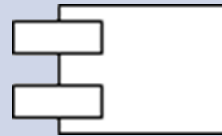
Artifact  
Repository



# Ziel



Deployment  
Script





Konfiguration

Umgebung

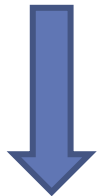
Applikation  
+  
Umgebung

Applikation

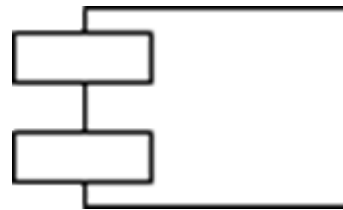
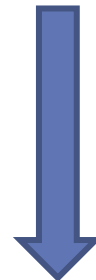
Sicherheit



Configuration  
Server



Deployment  
Package



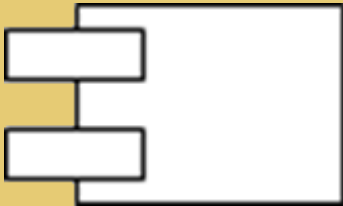
Code



File  
System



# Environment Detection



Code

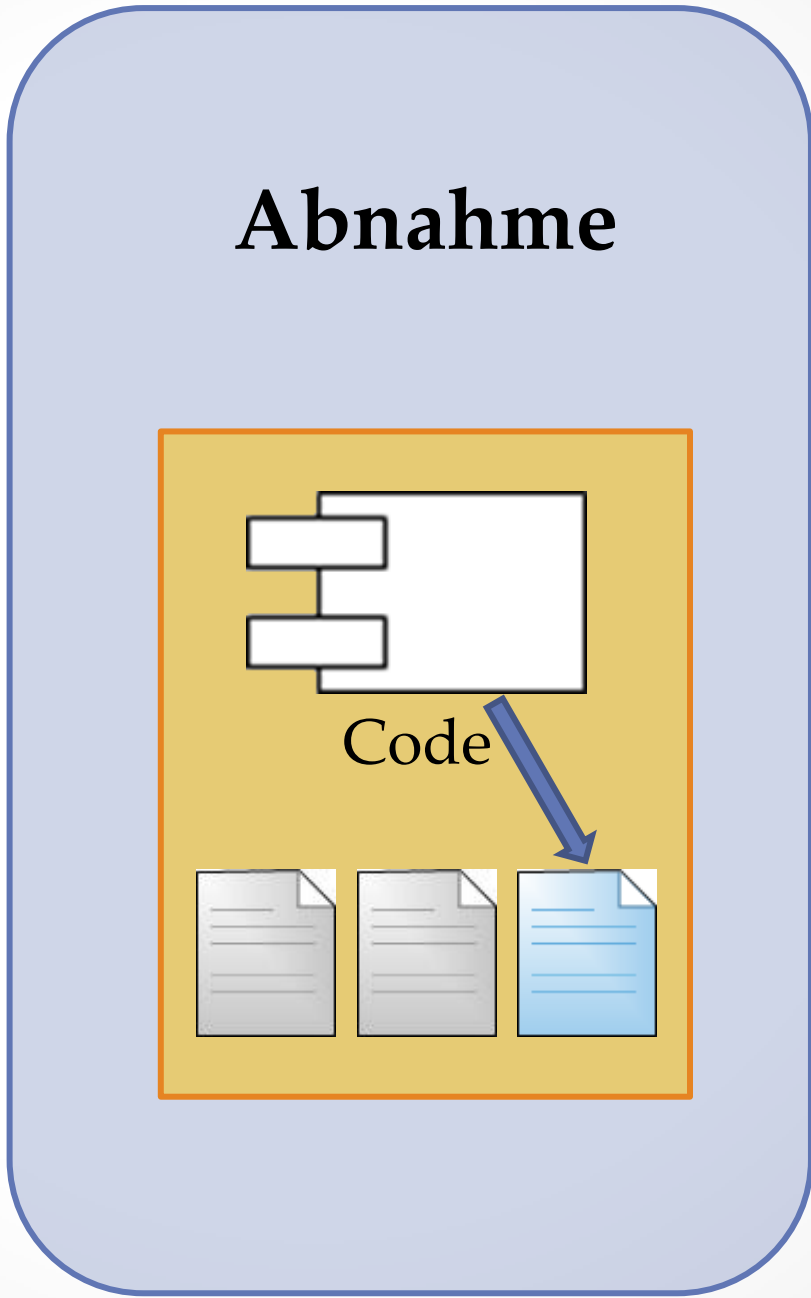


Deployment  
Package

**Environment  
Detection**



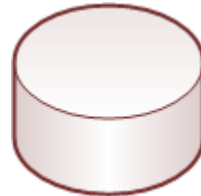
**Auto-  
Konfiguration**



# Continuous Integration



Release



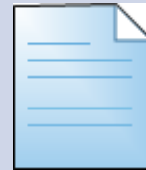
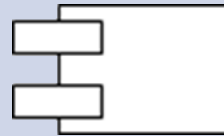
Artifact  
Repository

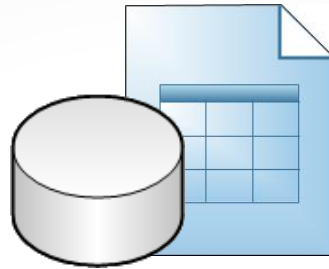


# Ziel

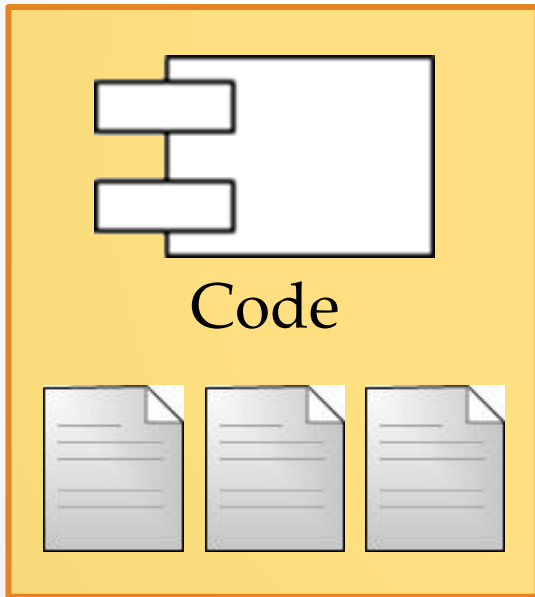


Deployment  
Script





DB Delta

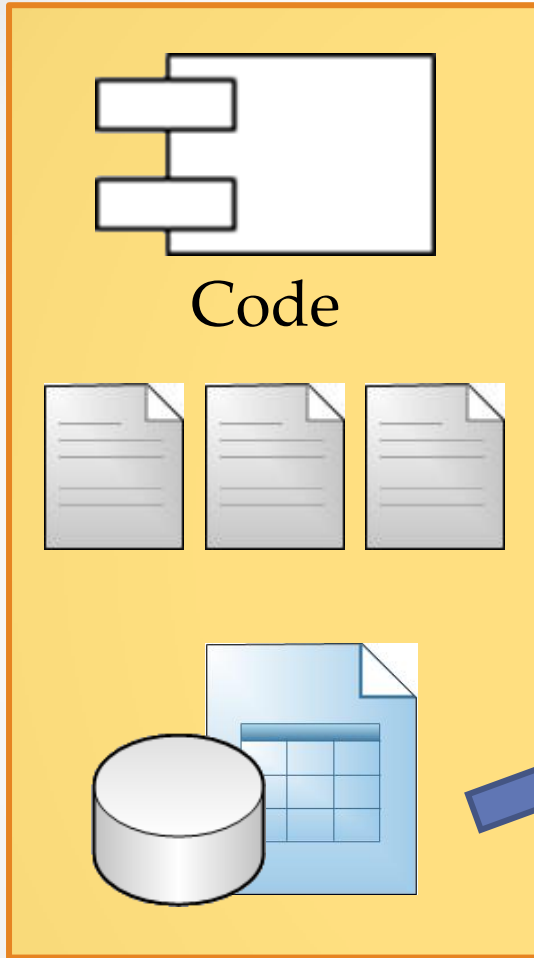


Code

**Deployment  
Package**

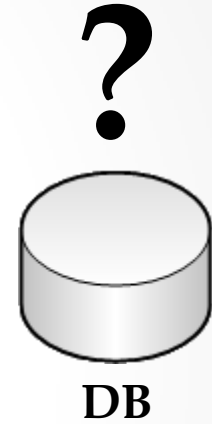
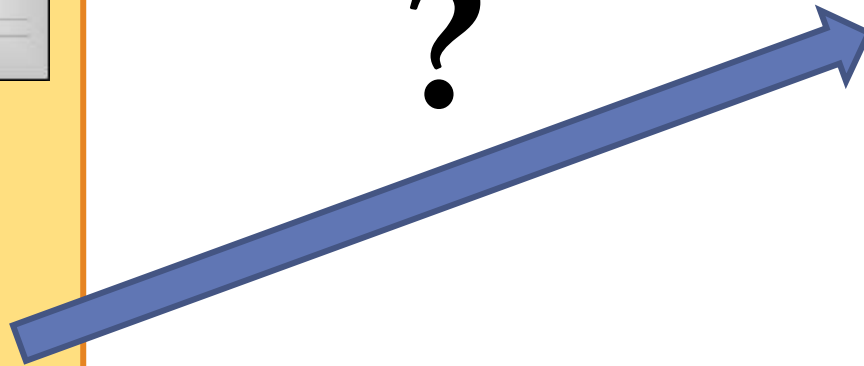


# Datenbank Migrationen



**Deployment  
Package**

?



**DB**



# Datenbank Migrationen

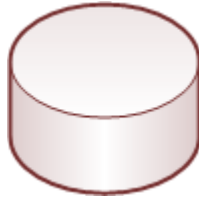


<http://flywaydb.org>

# Continuous Integration



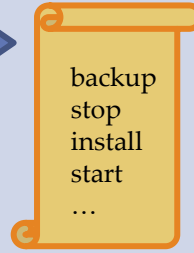
Release



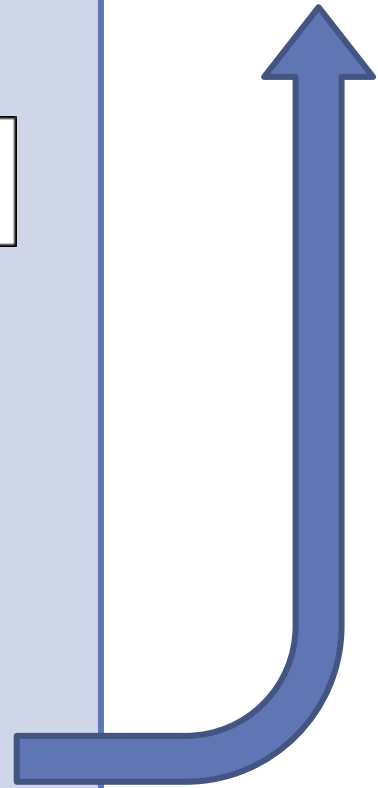
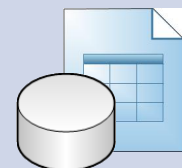
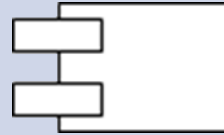
Artifact  
Repository

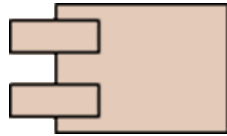


# Ziel

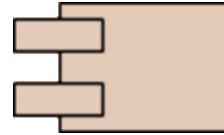
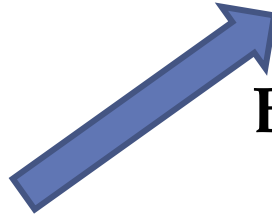


Deployment  
Script



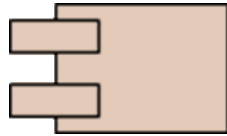


Registrierung

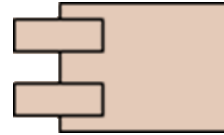
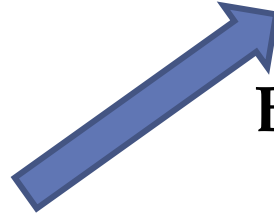


Briefversand

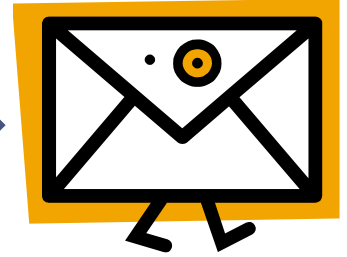


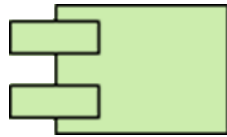


Registrierung

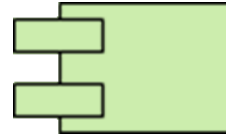
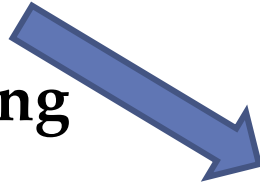


Briefversand

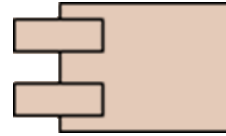




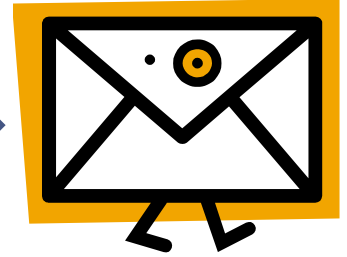
Registrierung  
v2



Paketversand



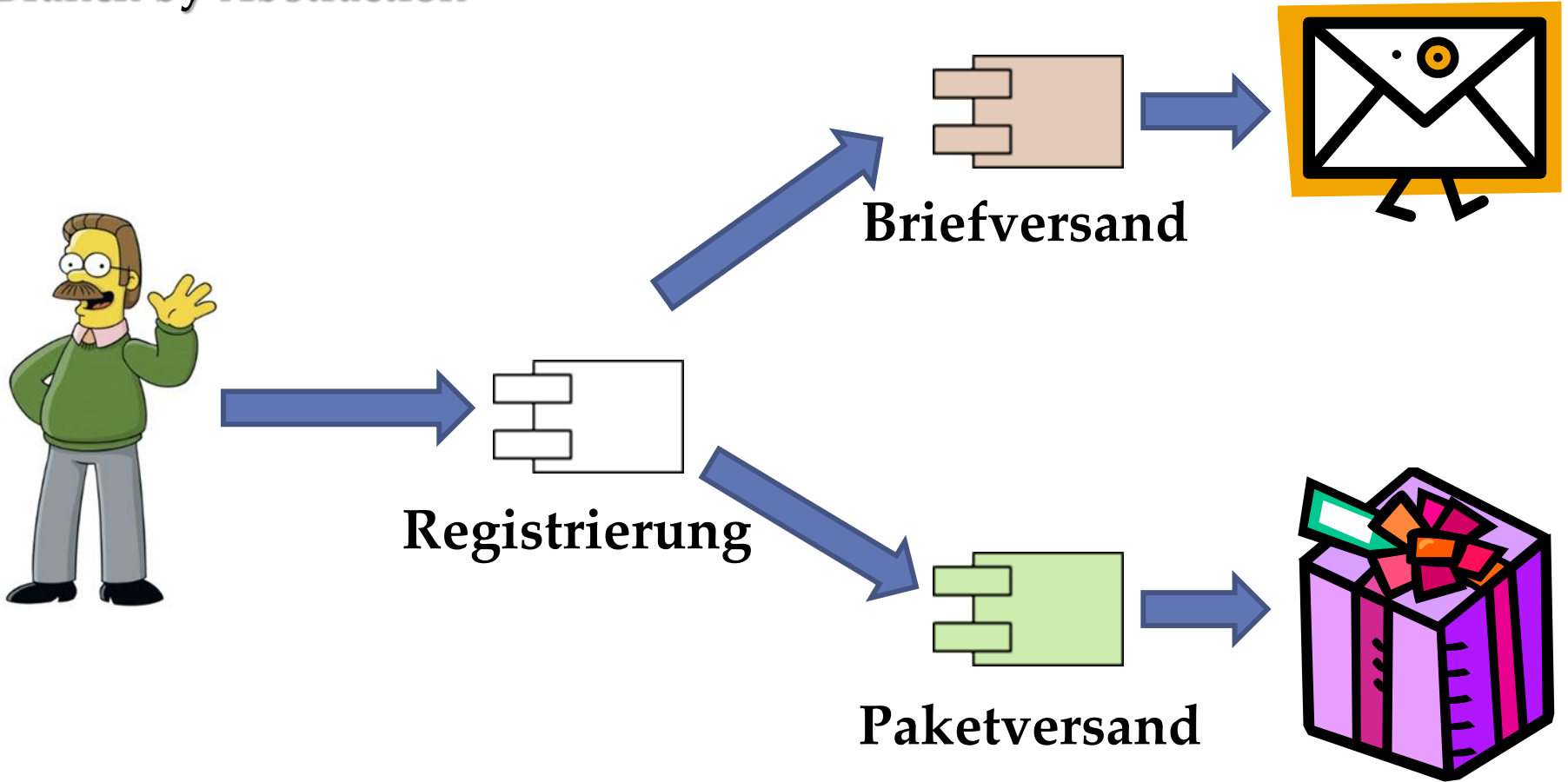
Briefversand





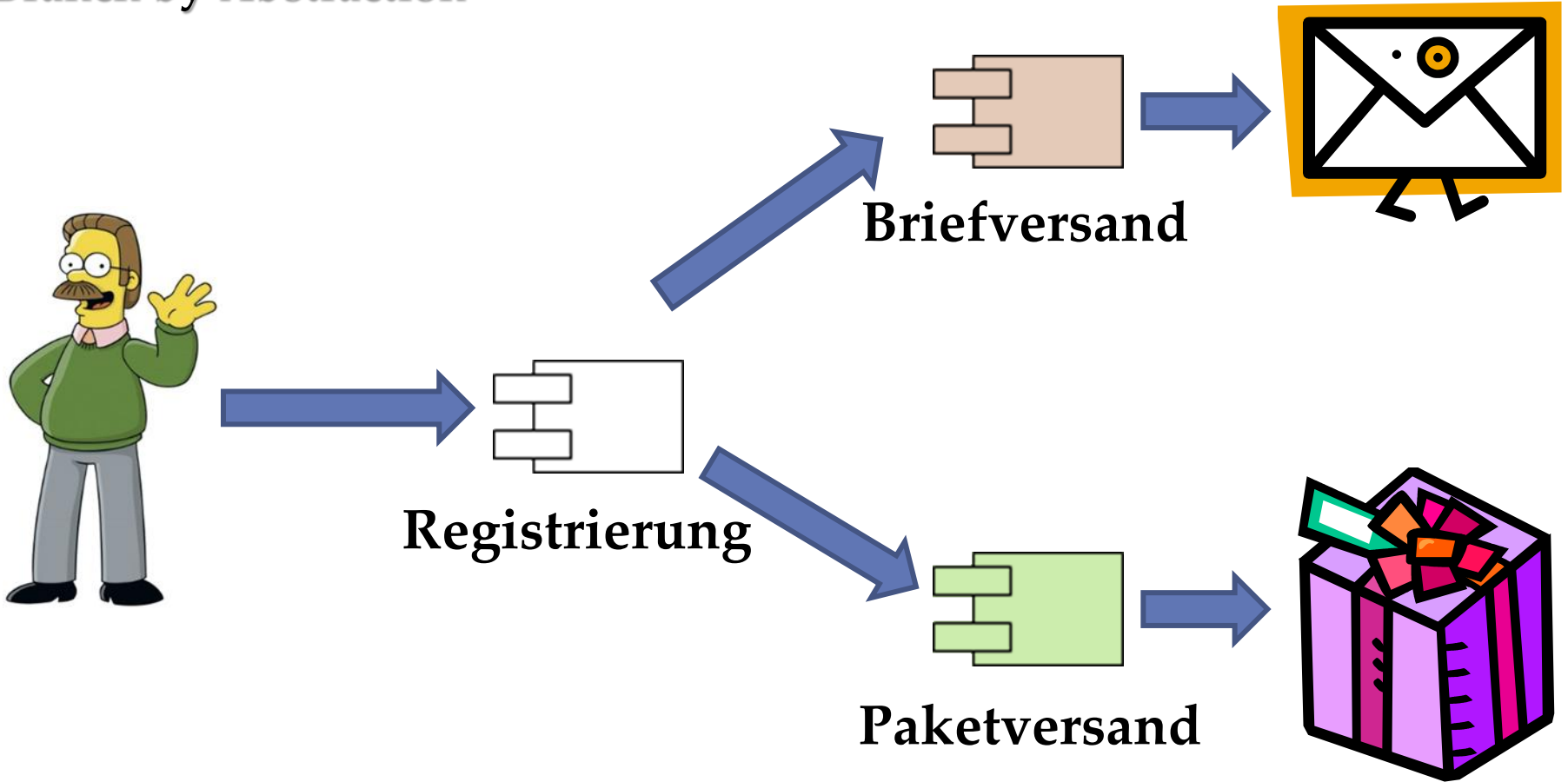
# Feature Toggles

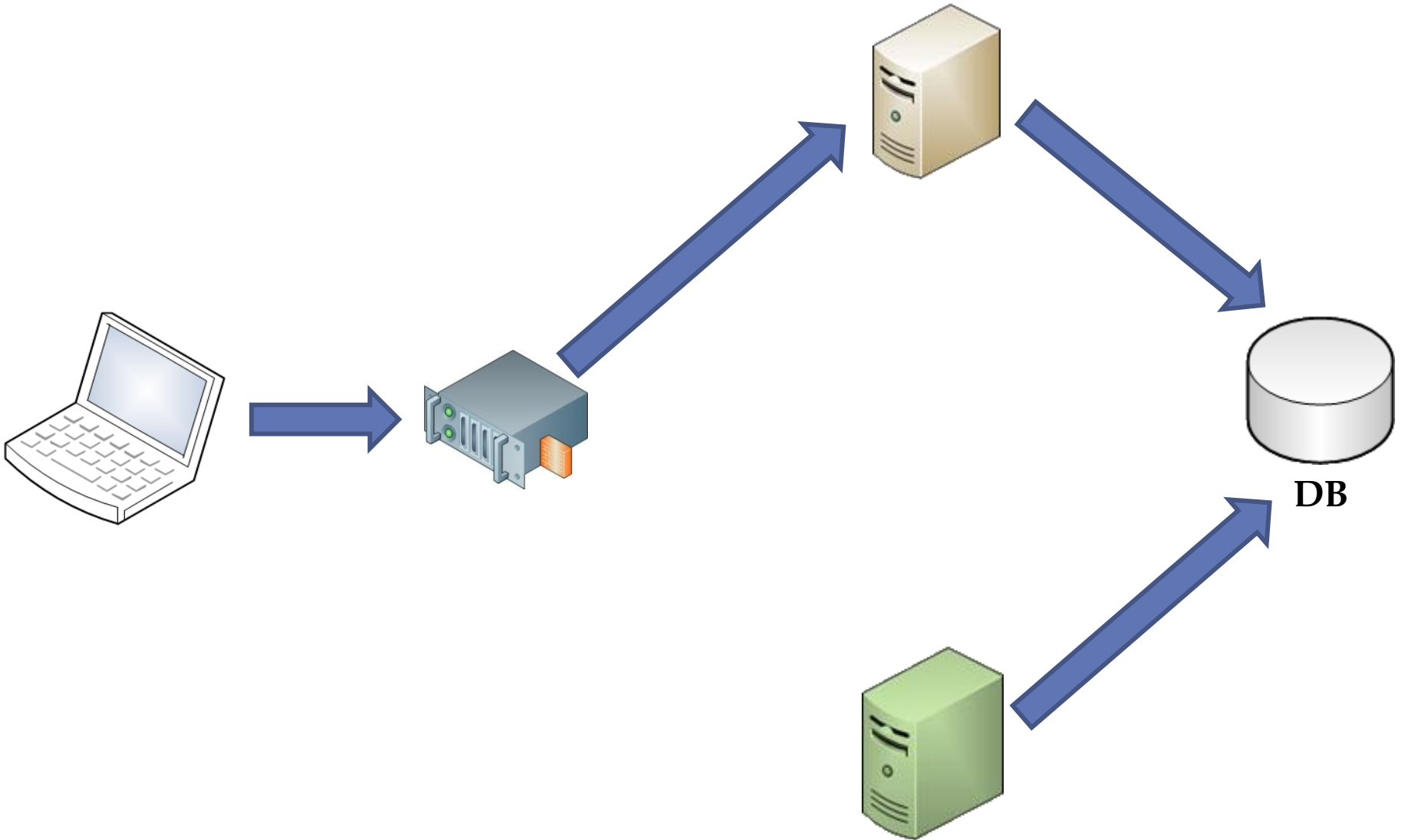
Branch by Abstraction

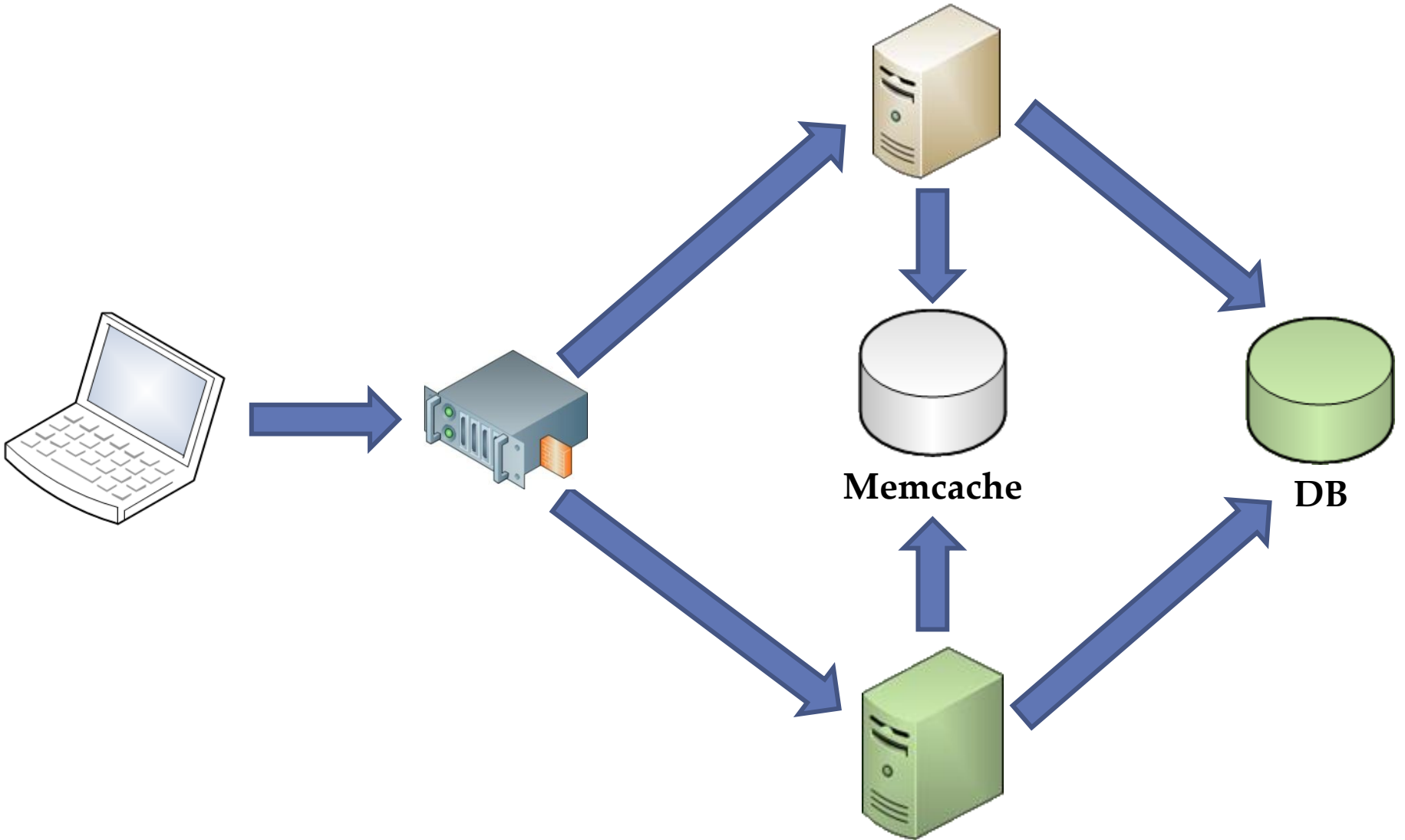


# Feature Toggles

Branch by Abstraction

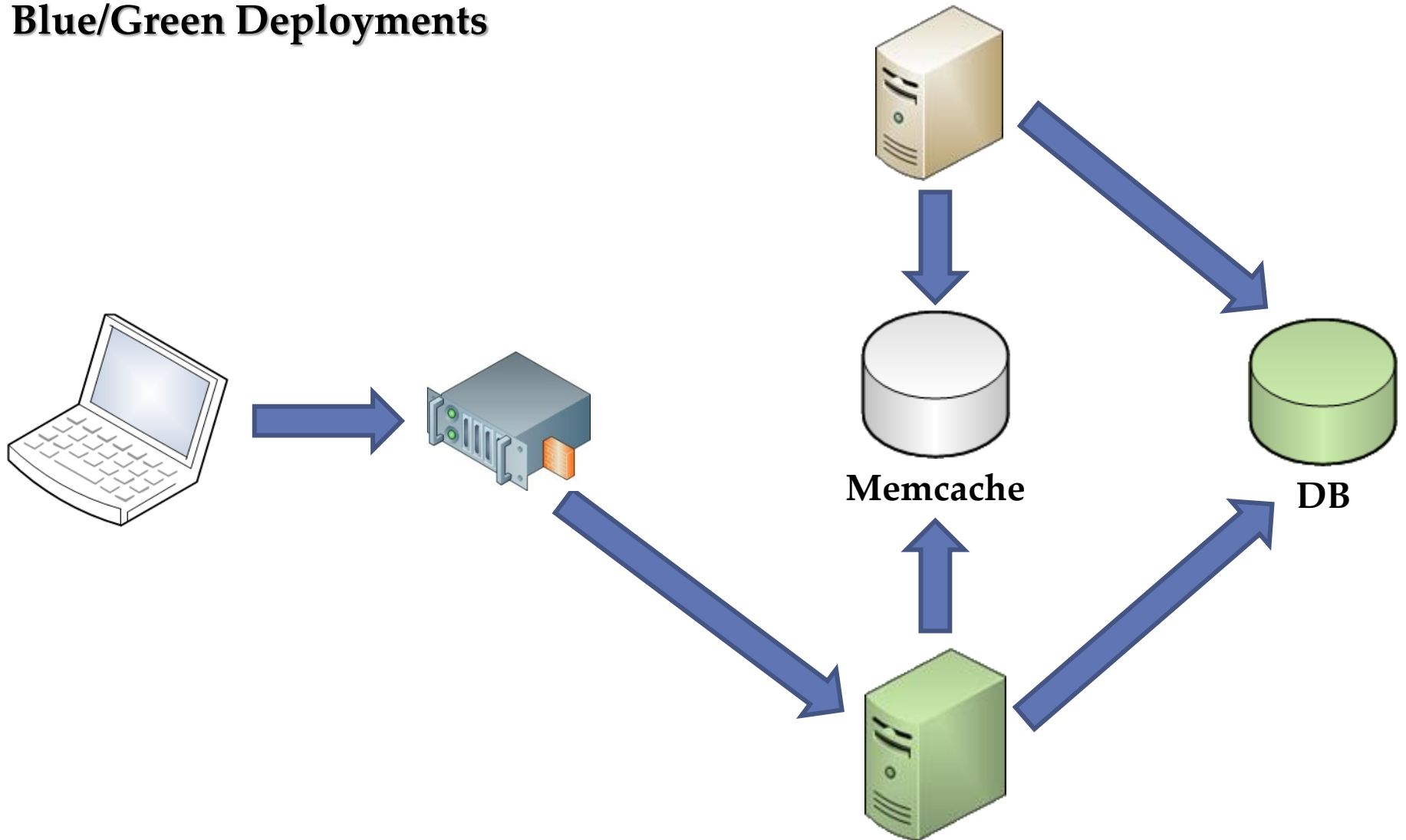






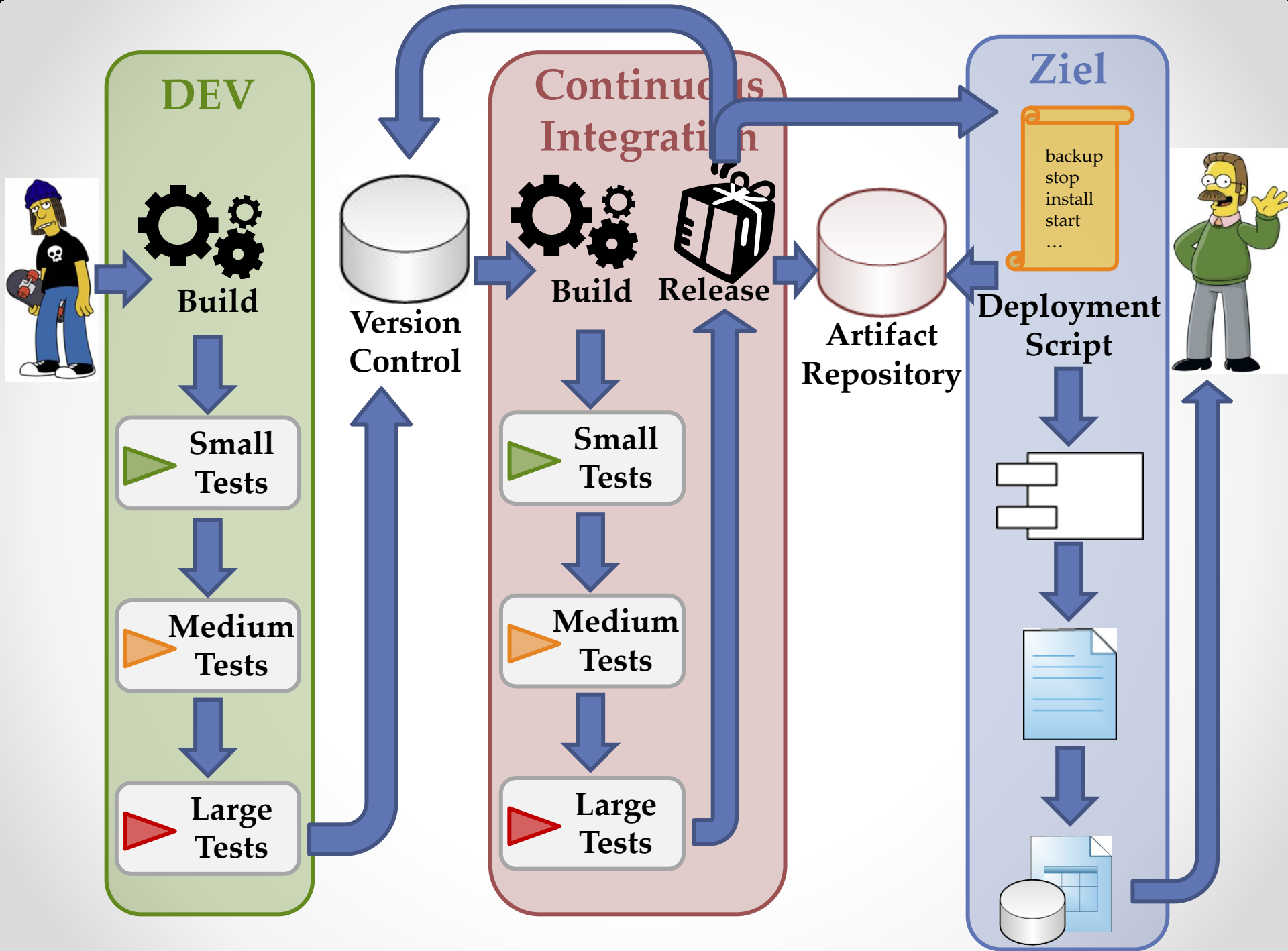
# State Management

## Blue/Green Deployments





# Zusammenfassung



CHRISTOPHER LAMBERT

SEAN CONNERY

# HIGHLANDER

THERE CAN BE ONLY ONE

DIRECTED BY RUSSELL MULCAHY



DVD  
VIDEO

STUDIO CANAL



PREMIER  
ISSUE!

# Where's Waldo?

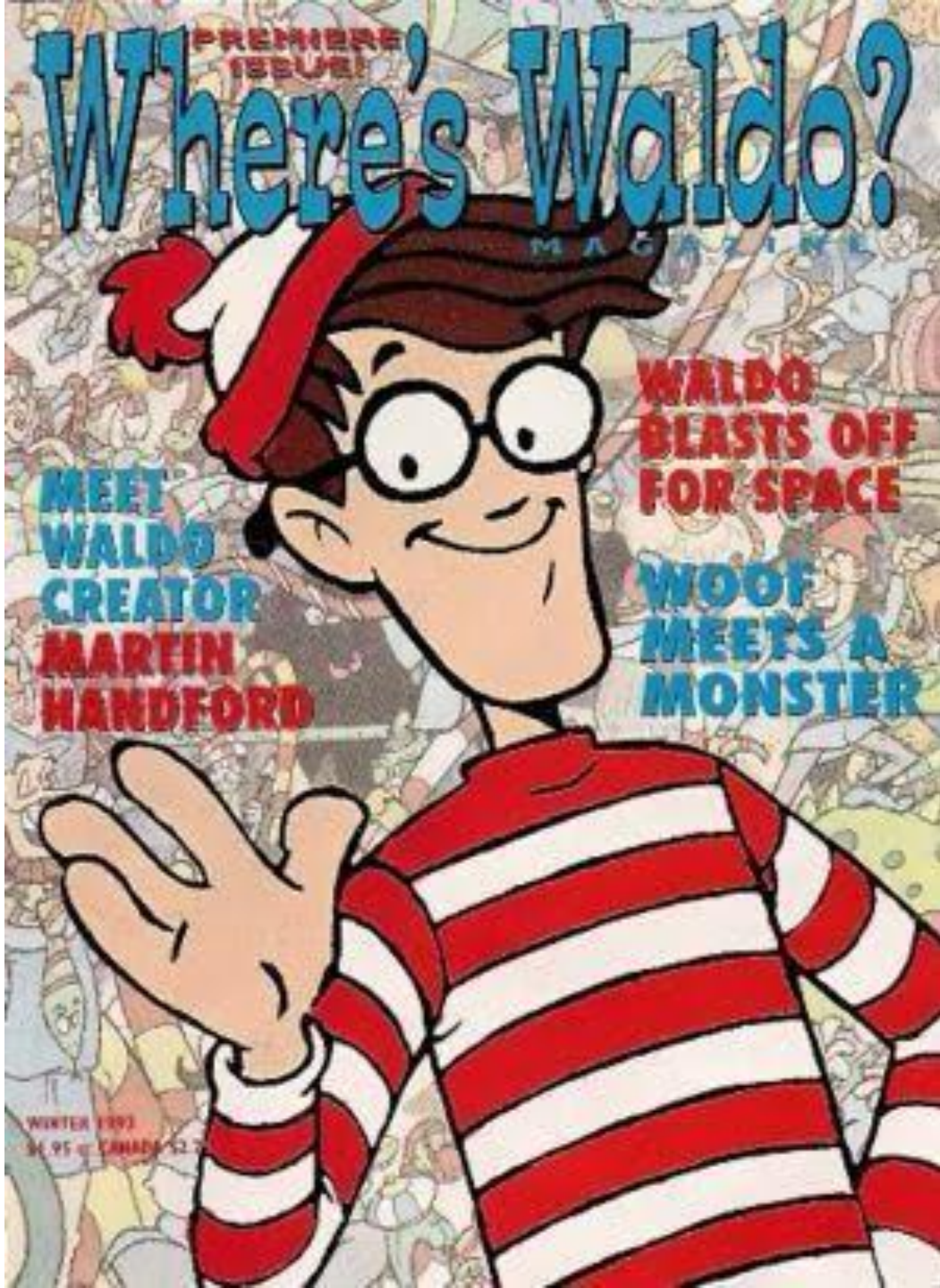
M A G A Z I N E

MEET  
WALDO  
CREATOR  
MARTIN  
HANDFORD

WALDO  
BLASTS OFF  
FOR SPACE

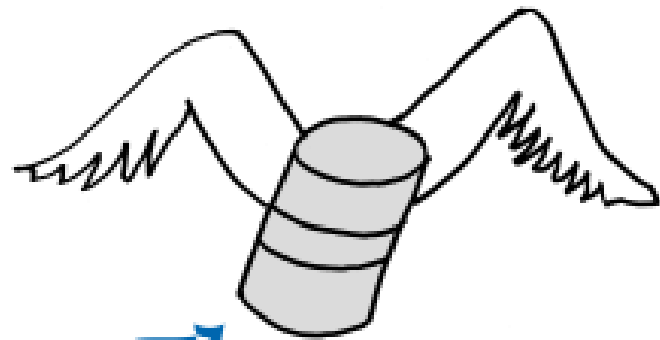
WOOF  
MEETS A  
MONSTER

WINTER 1993  
\$4.95 U.S. / CANADA \$2.95









*Flyway*

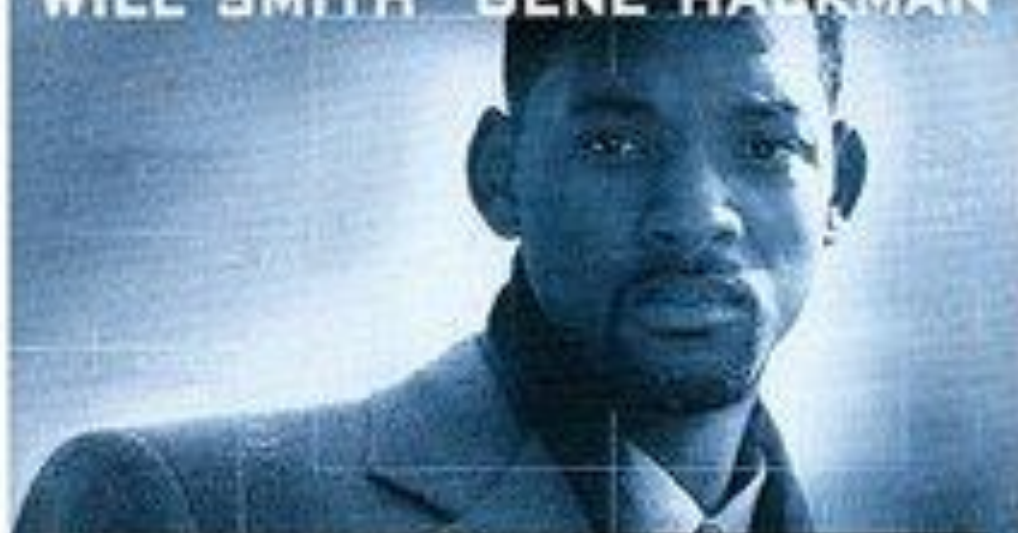




WIDE  SCREEN

A  
DON SIMPSON/JERRY BRUCKHEIMER  
PRODUCTION  
A FILM BY  
TONY SCOTT

WILL SMITH GENE HACKMAN



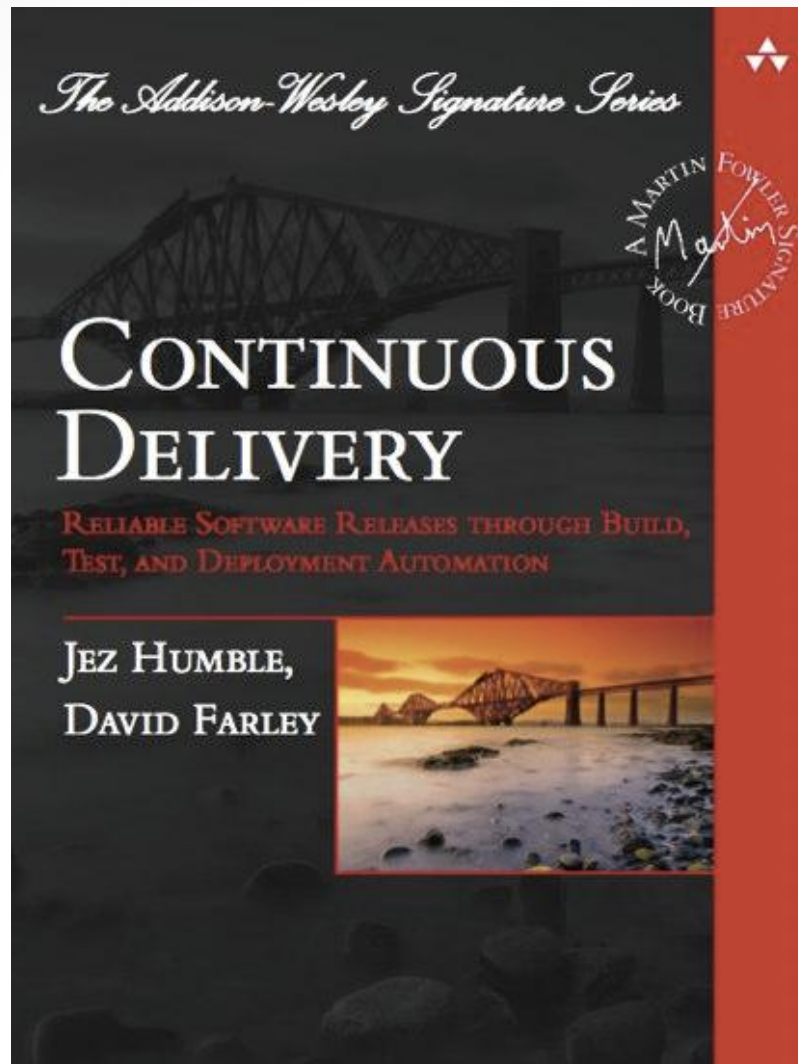
**ENEMY OF THE STATE**



IT'S NOT  
PARANOID  
IF THEY'RE REALLY  
AFTER YOU.

**15**

DVD  
REGION 1



ISBN-13: 978-0-321-60191-9

One more thing



# Danke !

**Axel Fontaine**

Software Development Expert



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[business@axelfontaine.com](mailto:business@axelfontaine.com)