### Continuous Delivery

#### and Zero Downtime



@axelfontaine
axelfontaine.com

Entrepreneur - Public Speaker - Continuous Delivery Expert







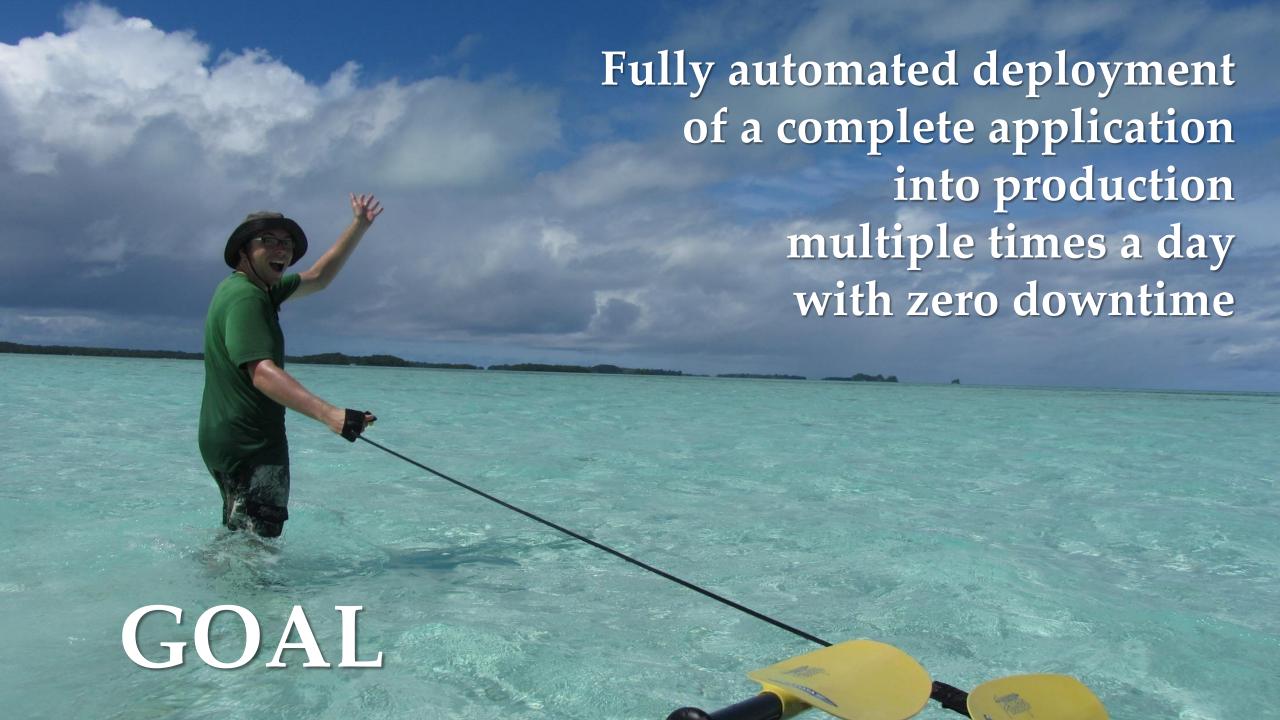
#### **AXEL FONTAINE**

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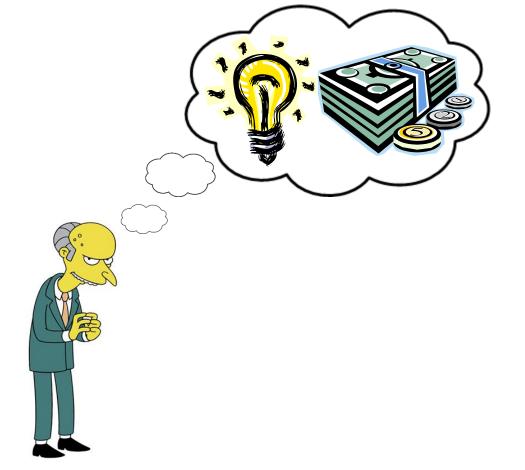
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#### about

# questions





































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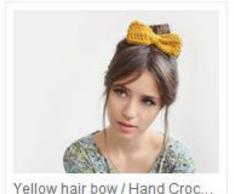
**Craft Supplies** 

Trending Items

Pictoplasma



#### Handpicked Items See more



Plexida

€6.00 EUR



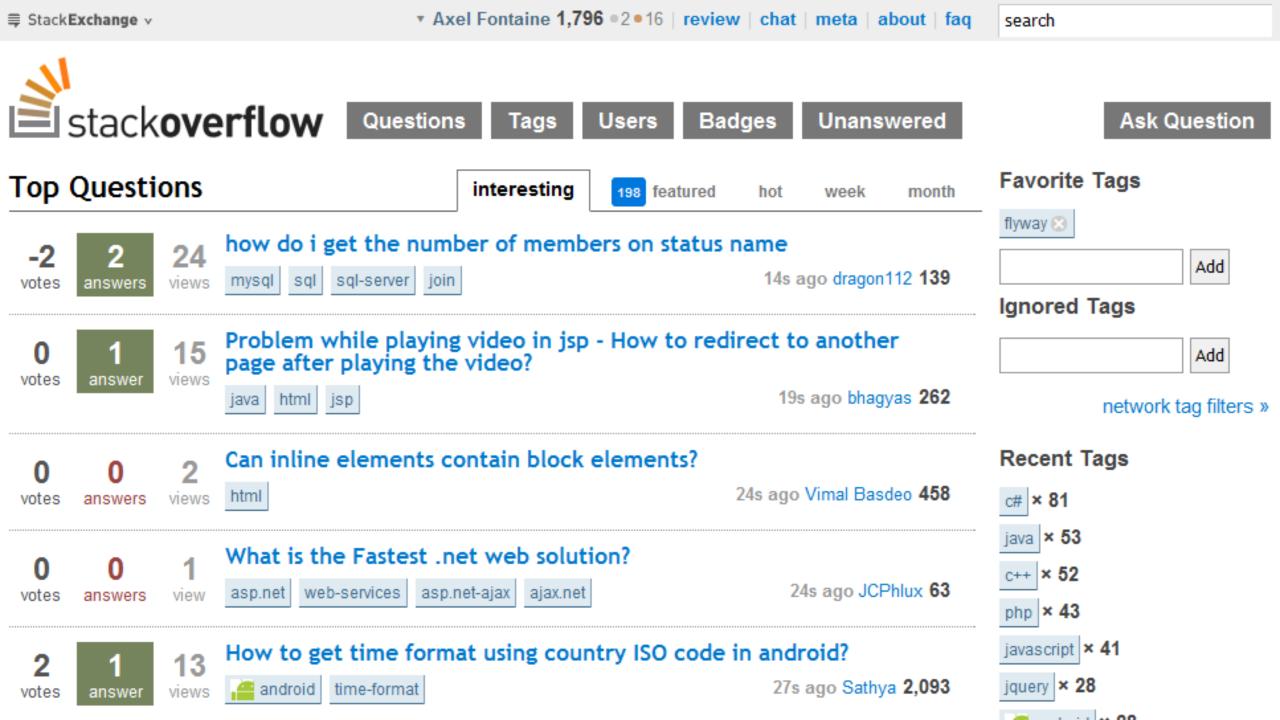


€9.47 EUR Akamatra



Picked by pitsispopis

Opposites attract. Crochet b ... €12.63 EUR sidirom





### site design / le

rev 2014.2.5.1347









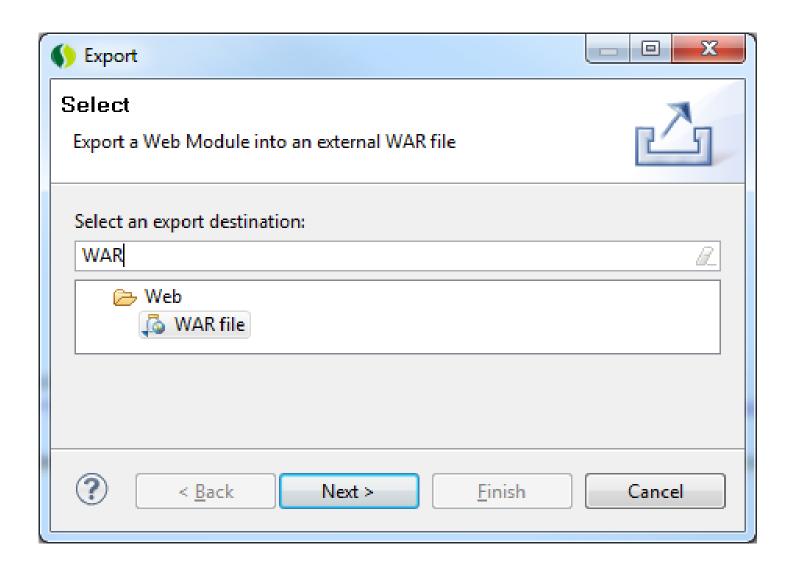


**site design / lo** rev 2014 2 5 1347

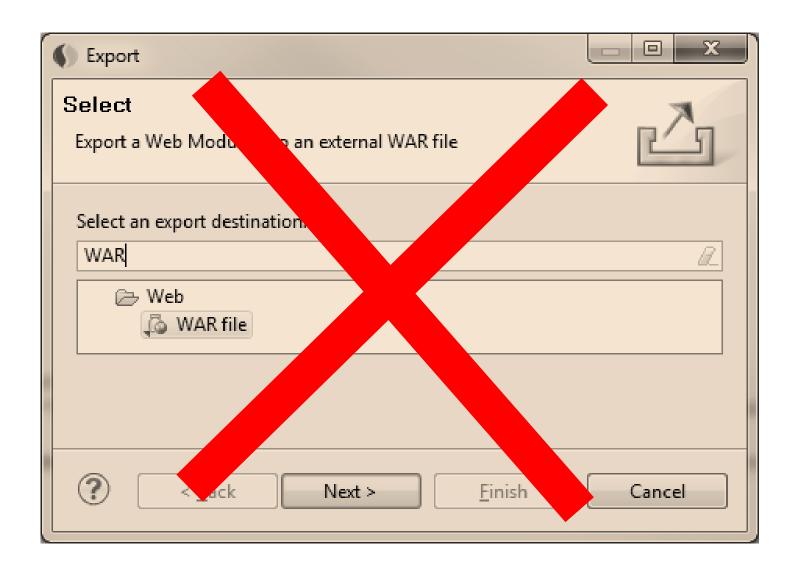
## Prerequisites







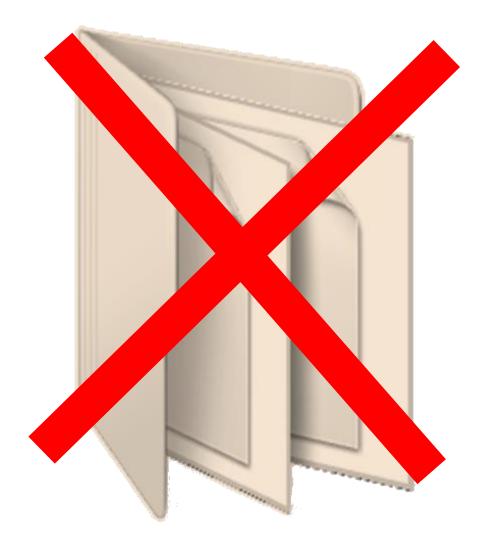
### Build



### Build



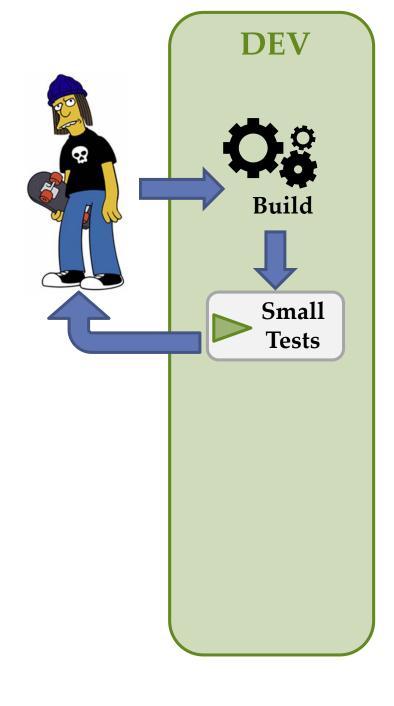
### Version Control

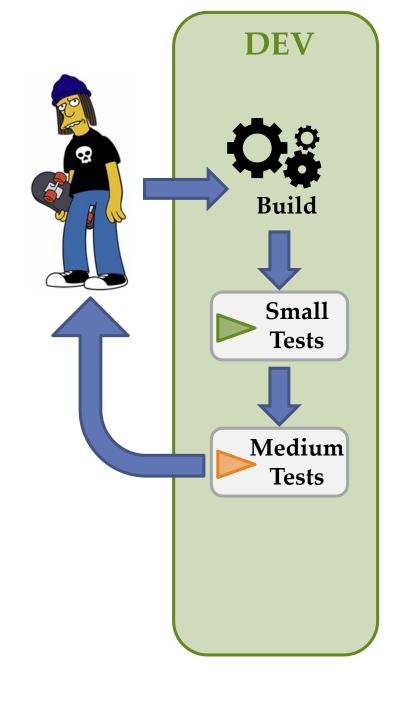


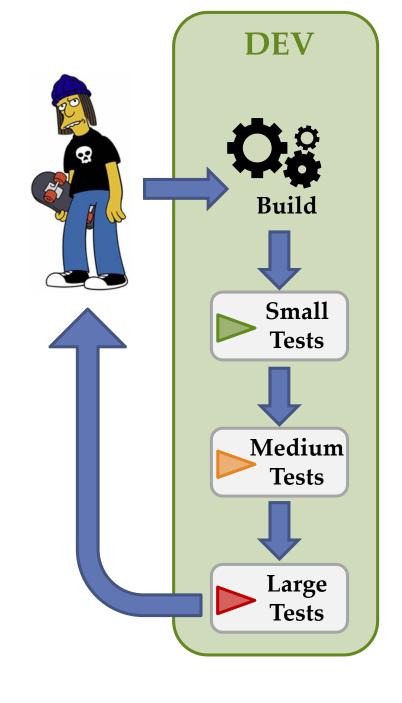
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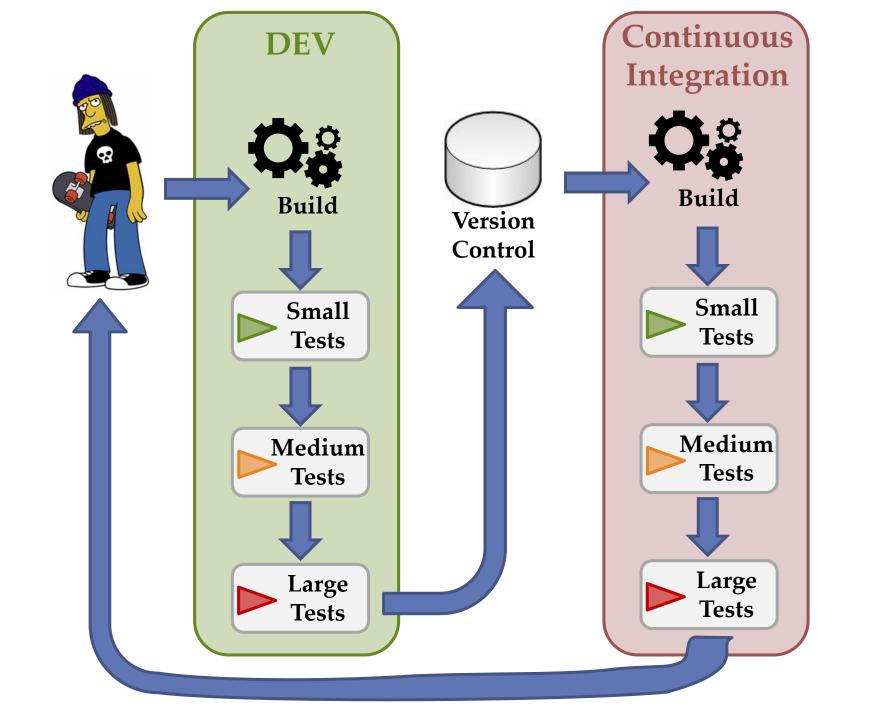












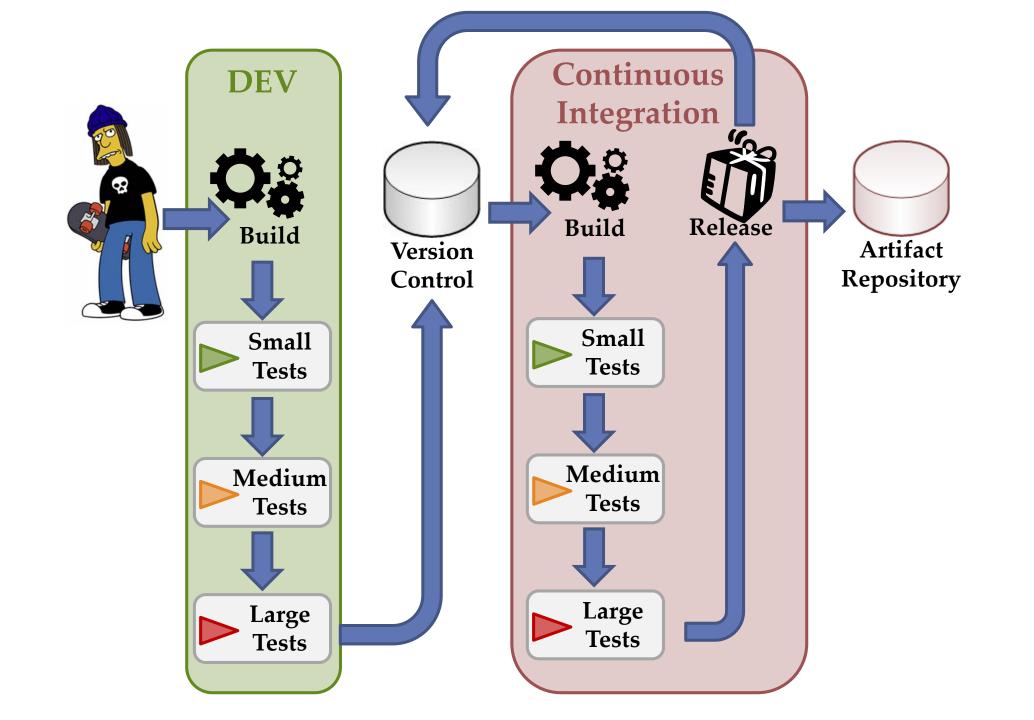


do

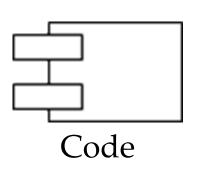
NOT

deploy

SNAPSHOTS!

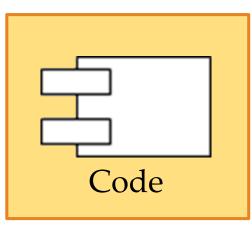


### What gets deployed?

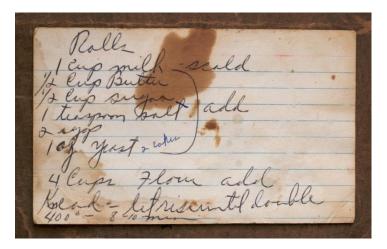


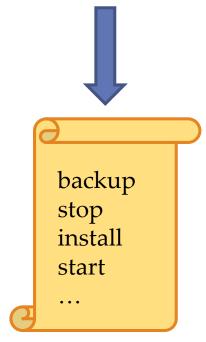




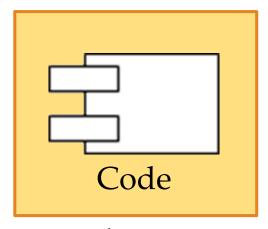


Deployment Package

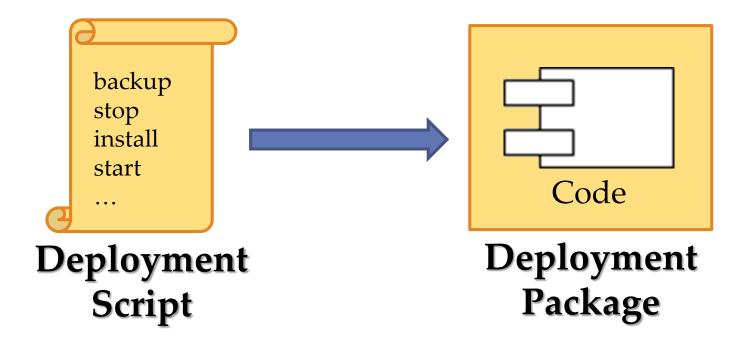


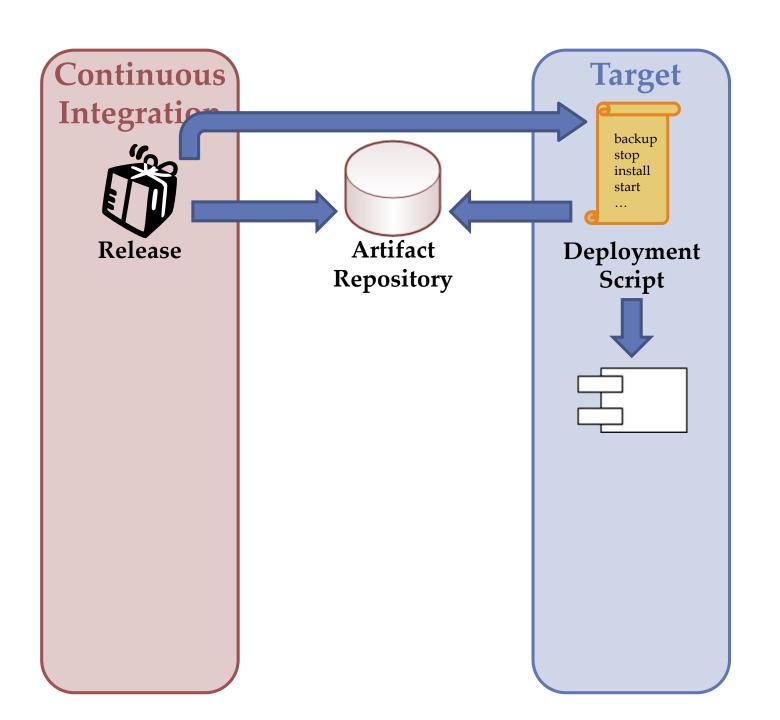


Deployment Script



Deployment Package



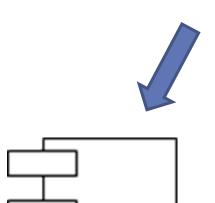




Configuration

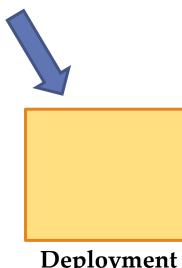


Maybe it could change one day



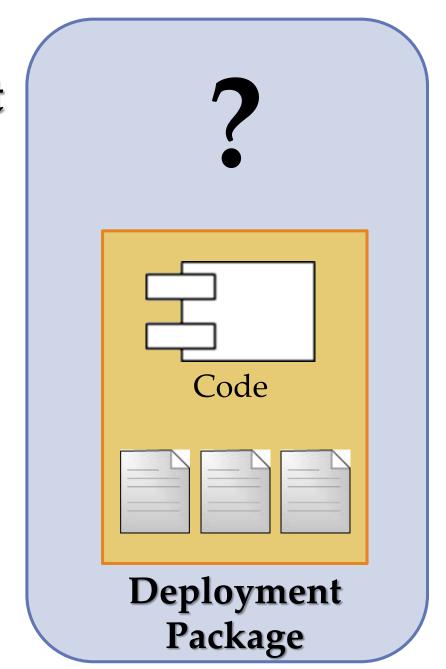
Code



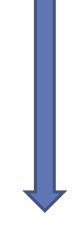


Deployment Package

## **Environment Detection**

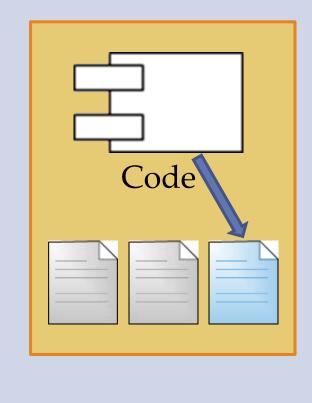


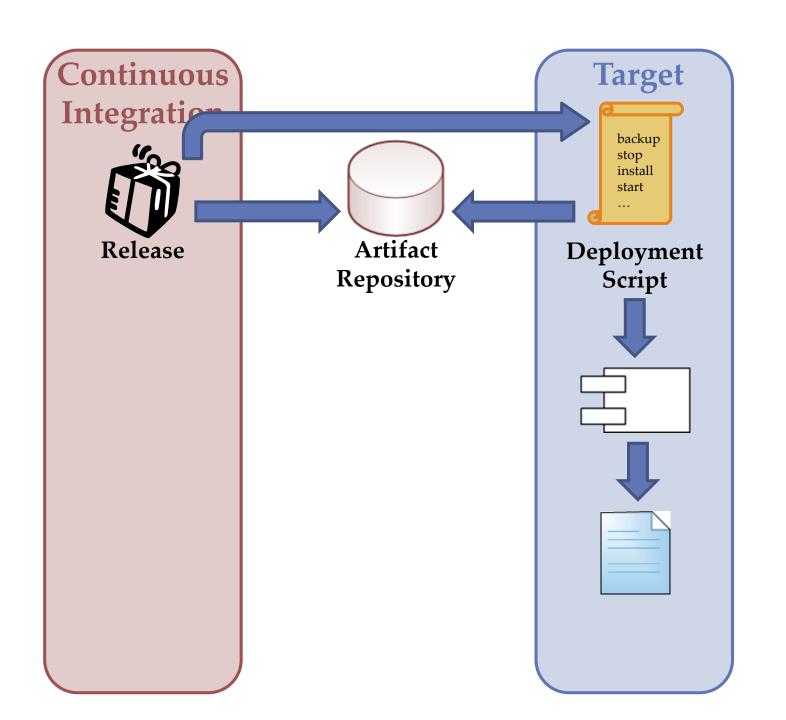
## **Environment Detection**

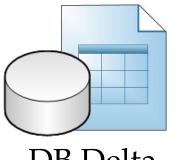


Auto-Configuration









DB Delta



The Fear of DDL



VS



Name	Balance
Homer	163
Marge	214
Bart	9
Lisa	25

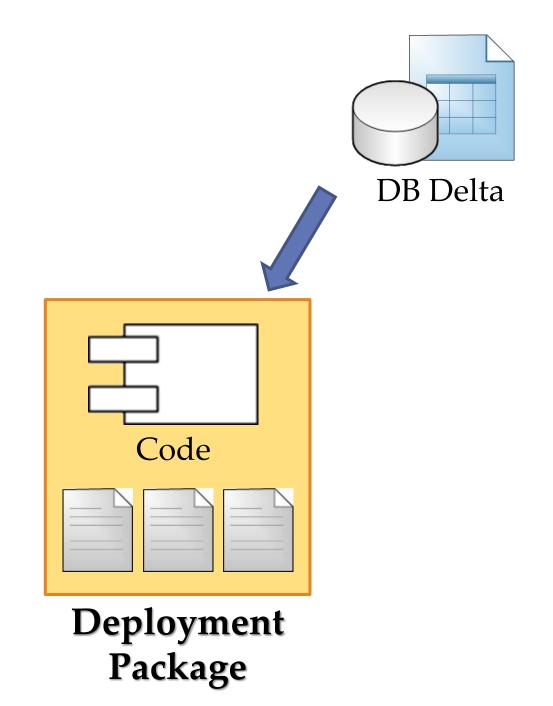
Name	Balance
Homer	0
Marge	0
Bart	0
Lisa	0

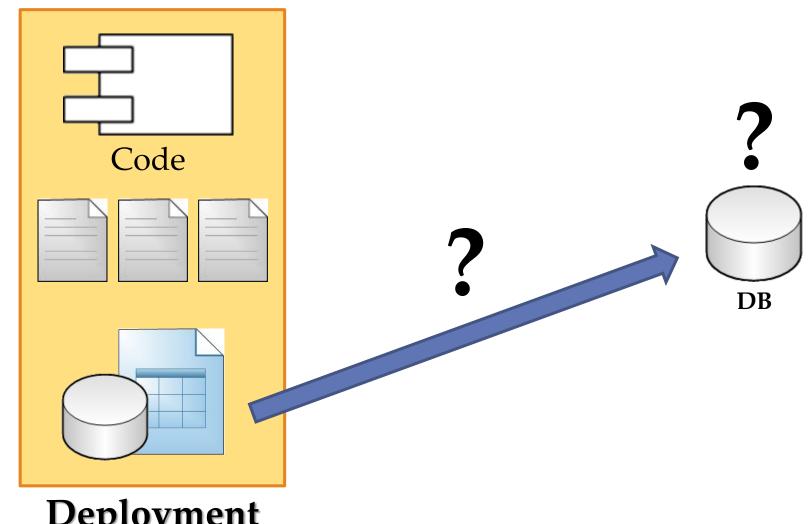


Name
Homer
Marge
Bart
Lisa

DML

DDL

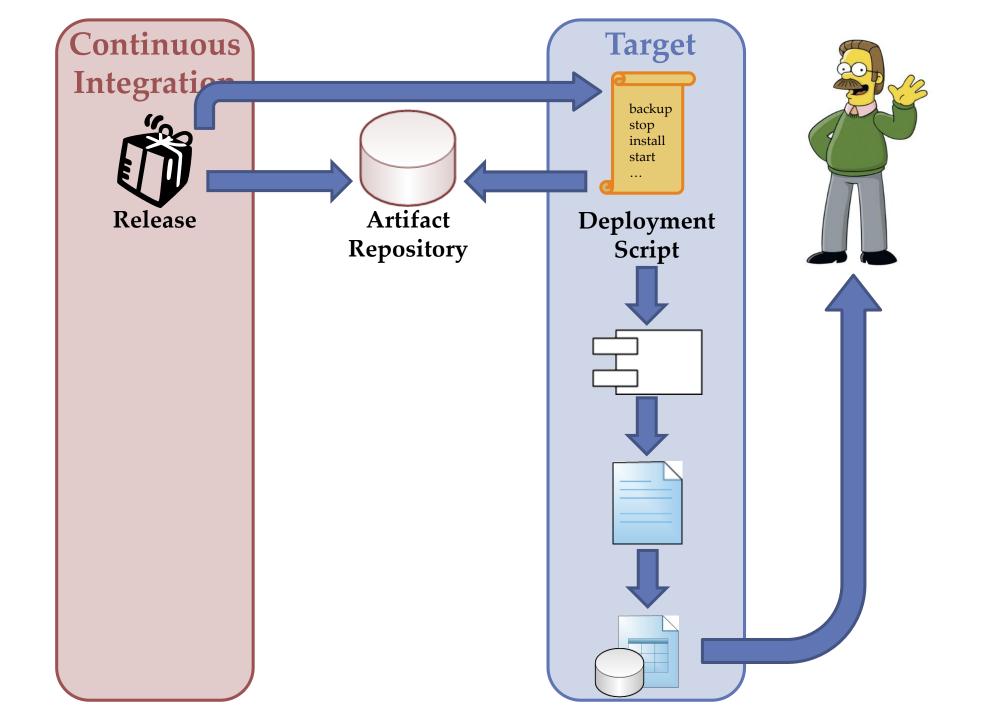


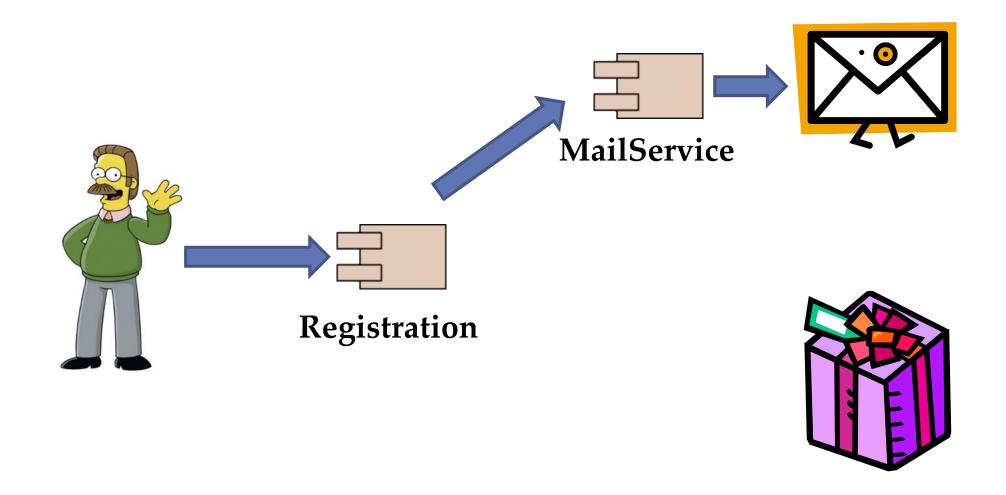


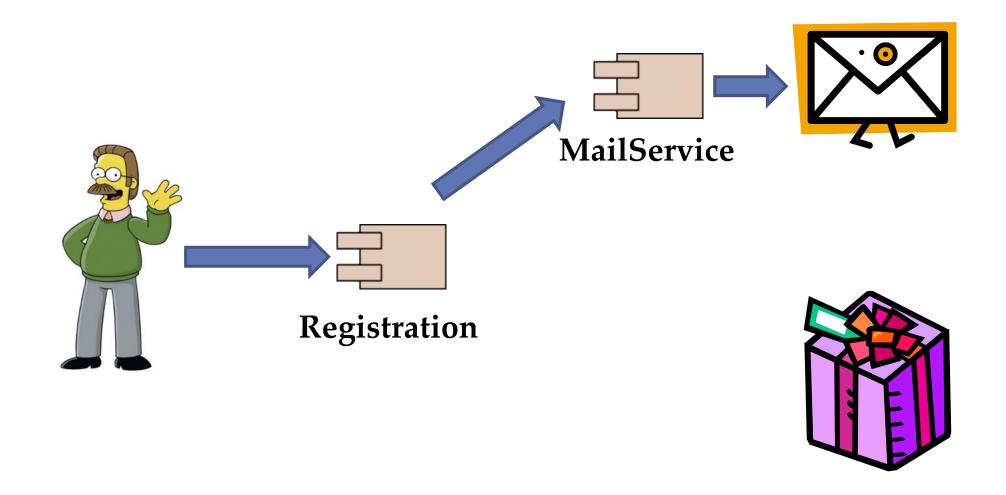
Deployment Package

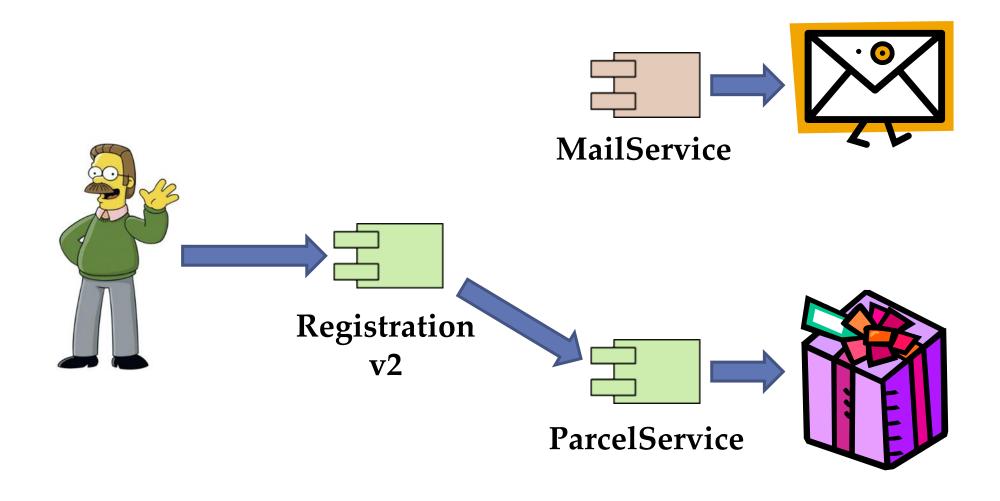


flywaydb.org



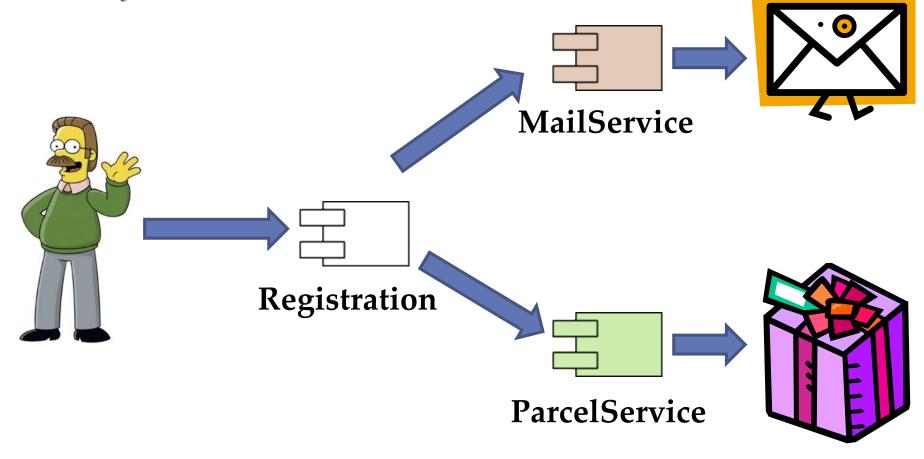






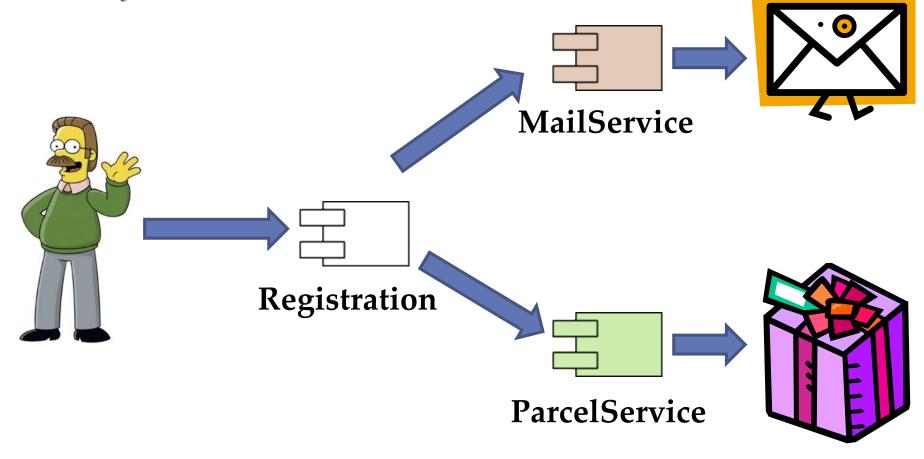
### **Feature Toggles**

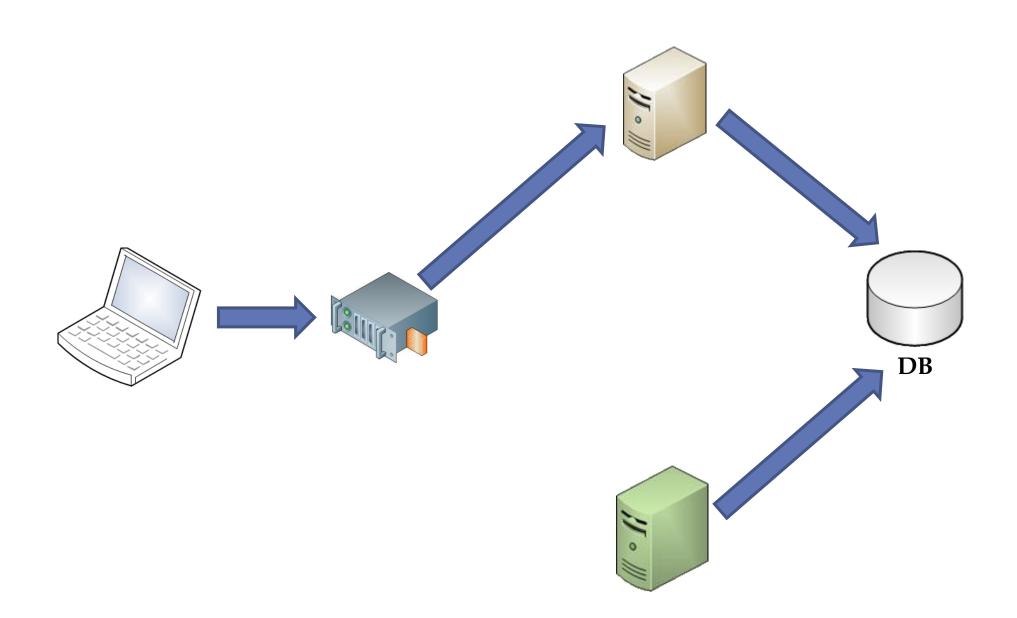
**Branch by Abstraction** 

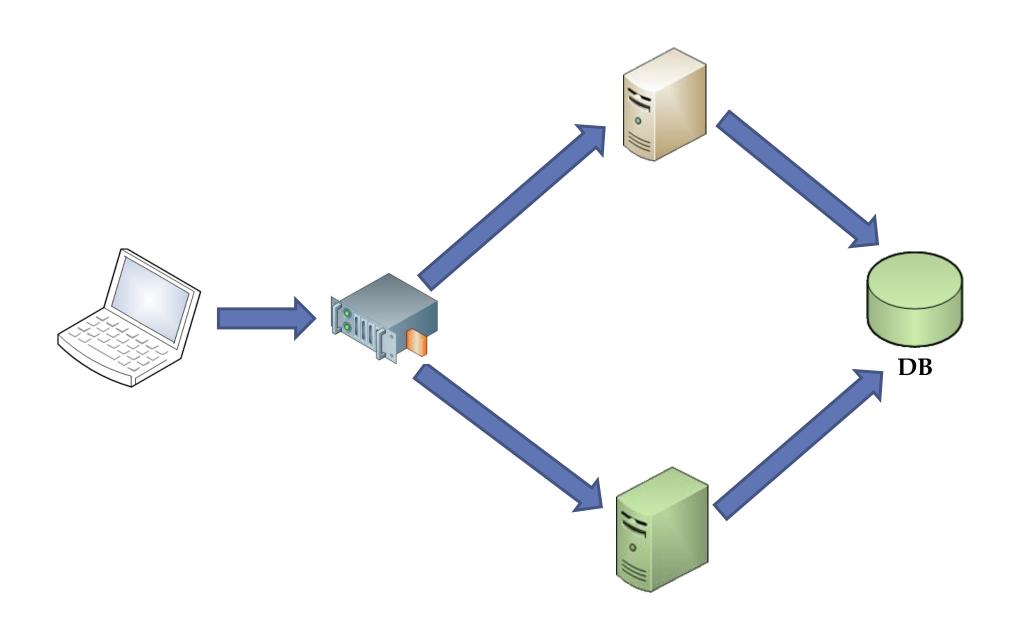


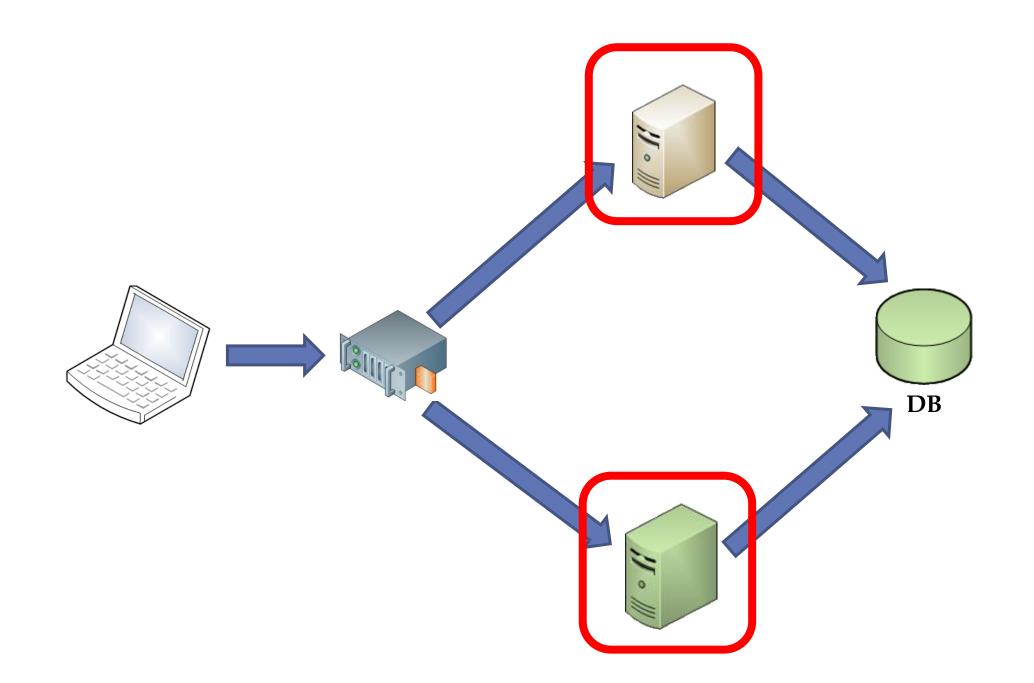
### **Feature Toggles**

**Branch by Abstraction** 

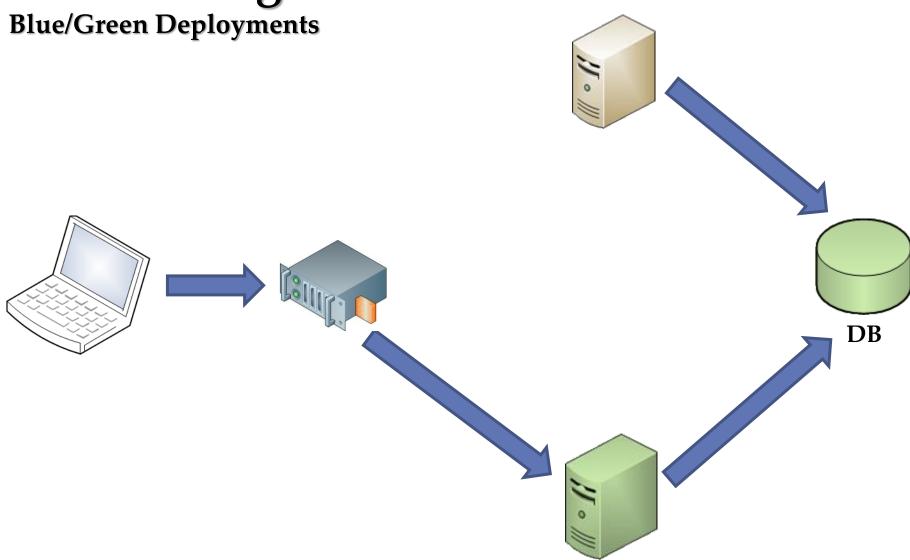


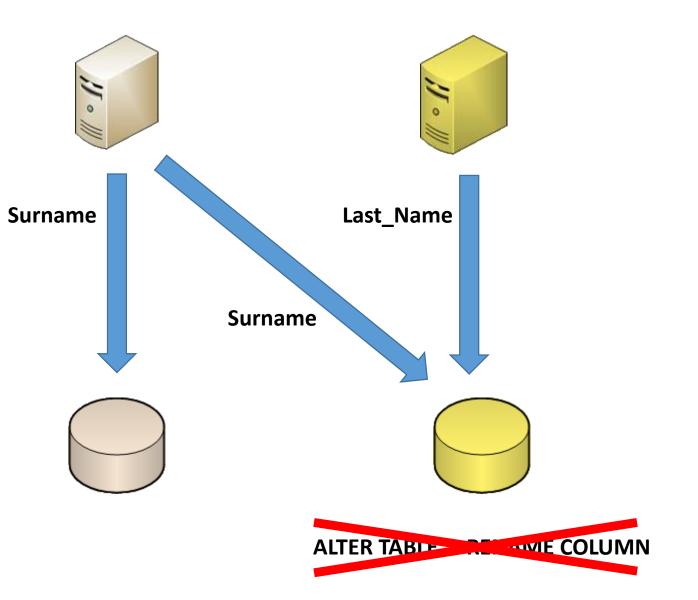




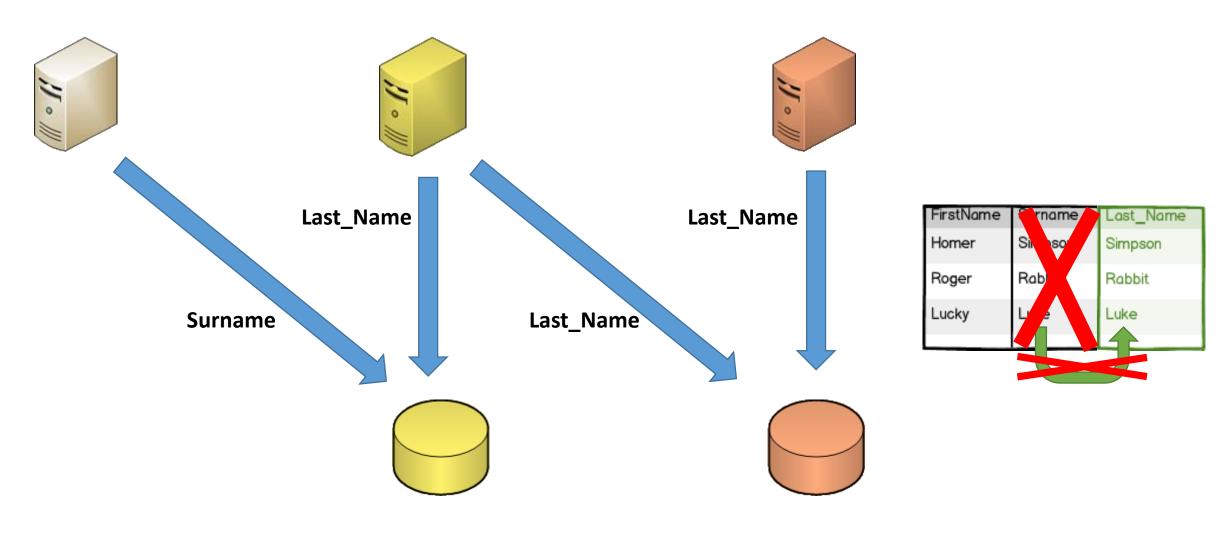


### State Management Blue/Green Deployments





FirstName	Surname
Homer	Simpson
Roger	Rabbit
Lucky	Luke



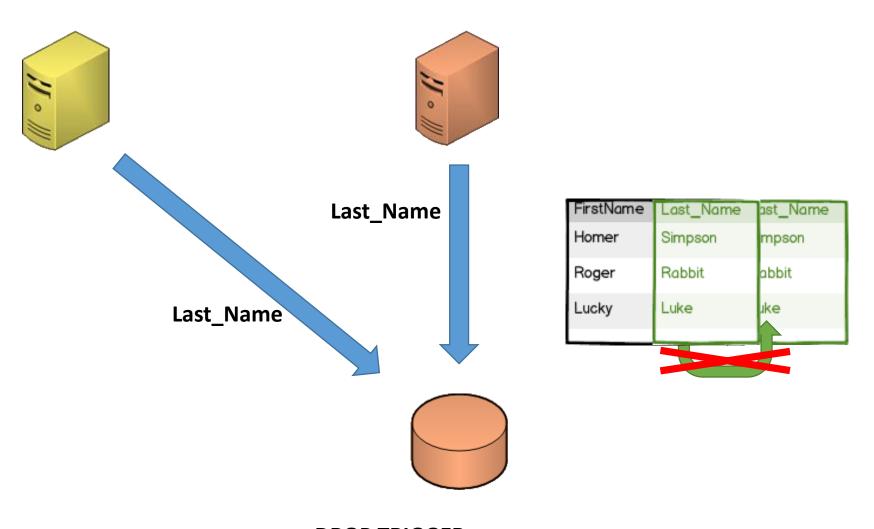
ALTER TABLE ...

ADD COLUMN Last\_Name

CREATE TRIGGER ...

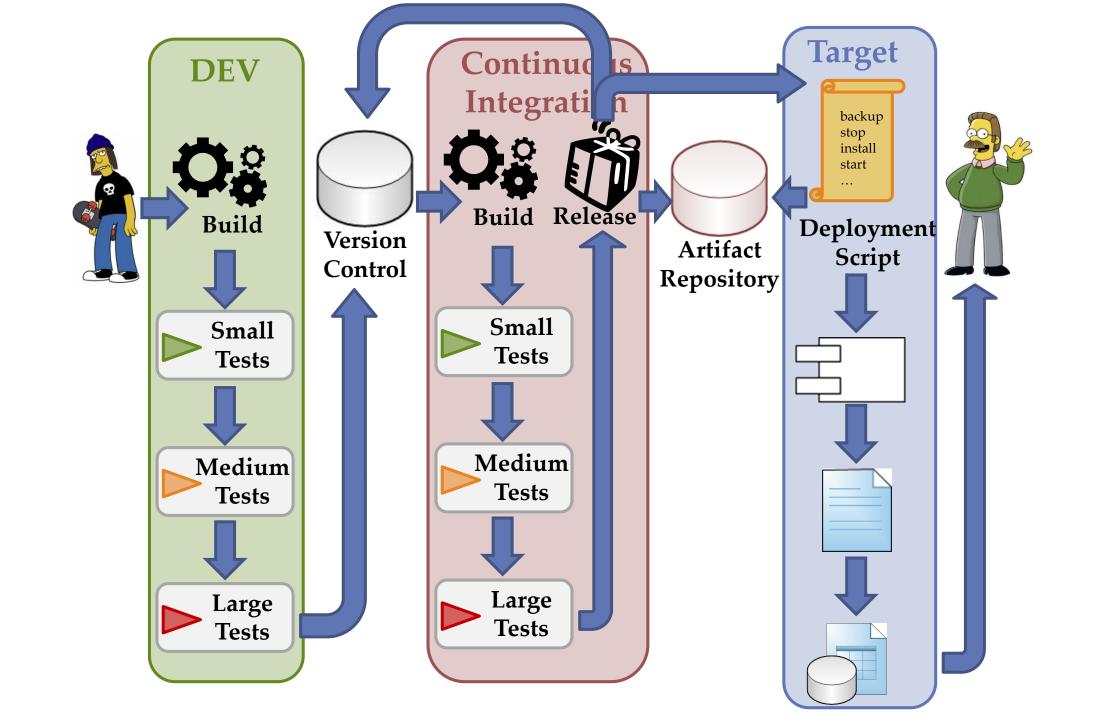
UPDATE ... SET Last\_Name = Surname

DROP TRIGGER ...
ALTER TABLE ...
DROP COLUMN Surname

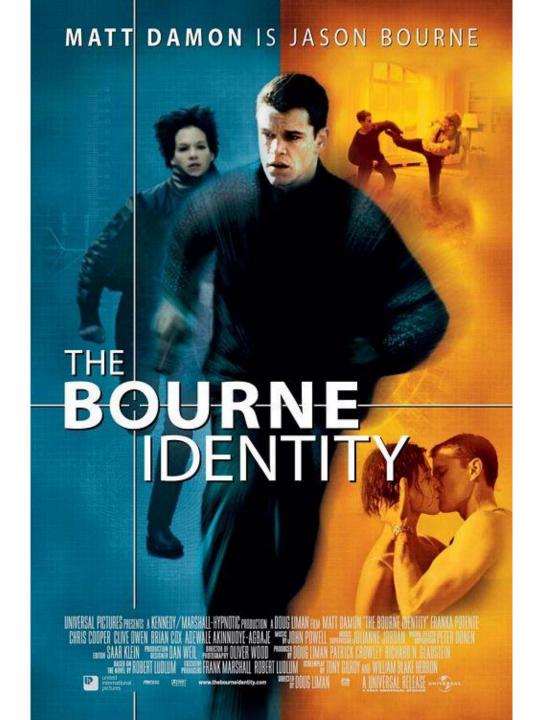


DROP TRIGGER ...
ALTER TABLE ...
DROP COLUMN Surname

# Summary



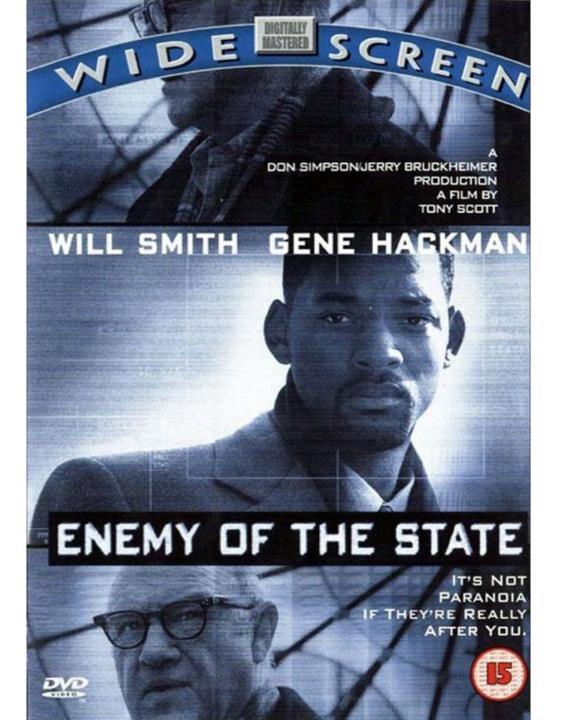


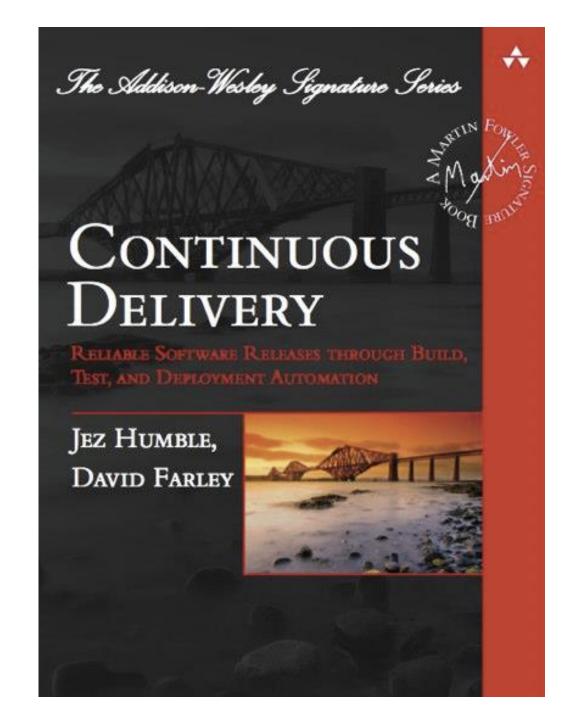




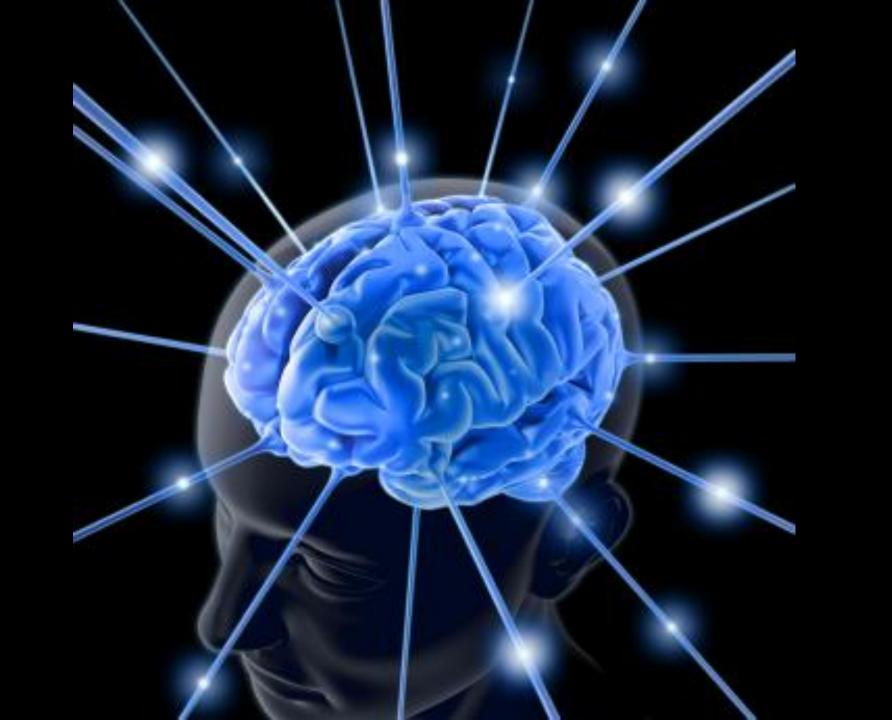








# One more thing





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Software Development Expert

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#### **Further reading:**

http://axelfontaine.com/blog/final-nail.html

http://axelfontaine.com/blog/environment-detection.html

http://martinfowler.com/bliki/FeatureToggle.html

http://googletesting.blogspot.com/2010/12/test-sizes.html

http://blog.shinetech.com/2012/12/18/simple-session-sharing-intomcat-cluster-using-the-session-in-cookie-pattern/