

Continuous Delivery

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Survey

Quick survey

What is CD?

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

Technics

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

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- continuous inspection
- **continuous deployment**

Definition

Release = Deploy

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Release - make feature accessible to users

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Deploy - put code artifact on server

Release != Deploy

Release - make feature accessible to users

Deploy - put code artifact on server

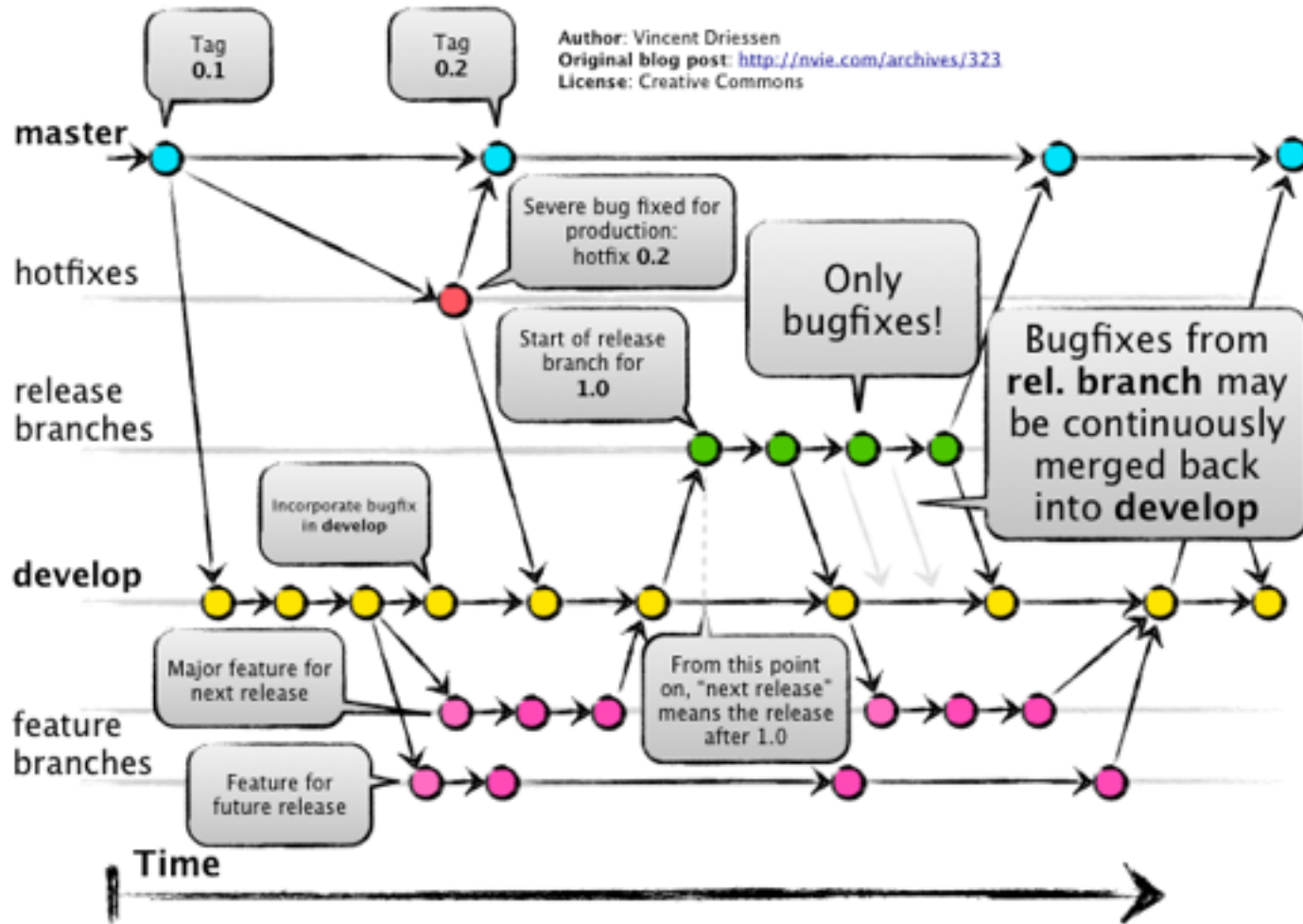
Release

How to release it?

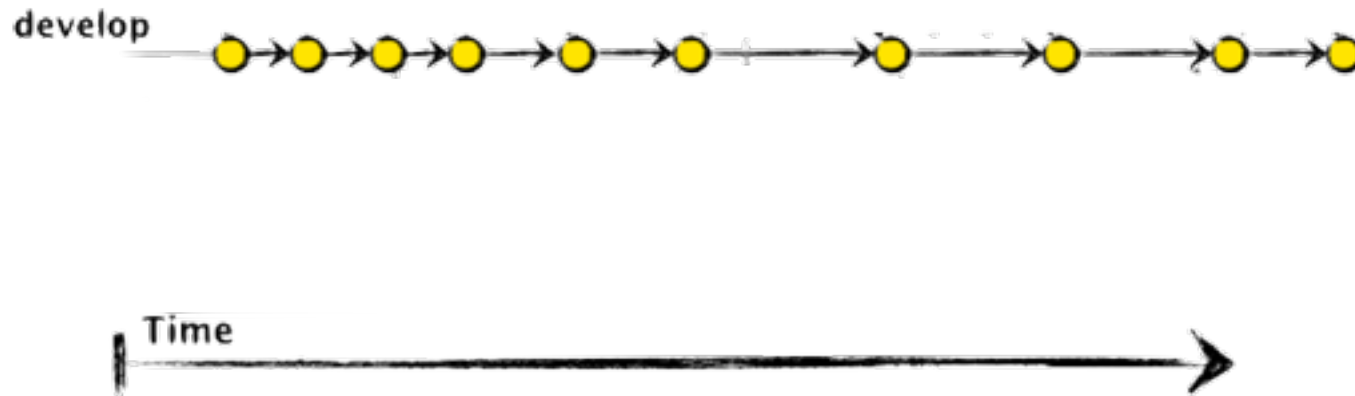
Branches slow you down



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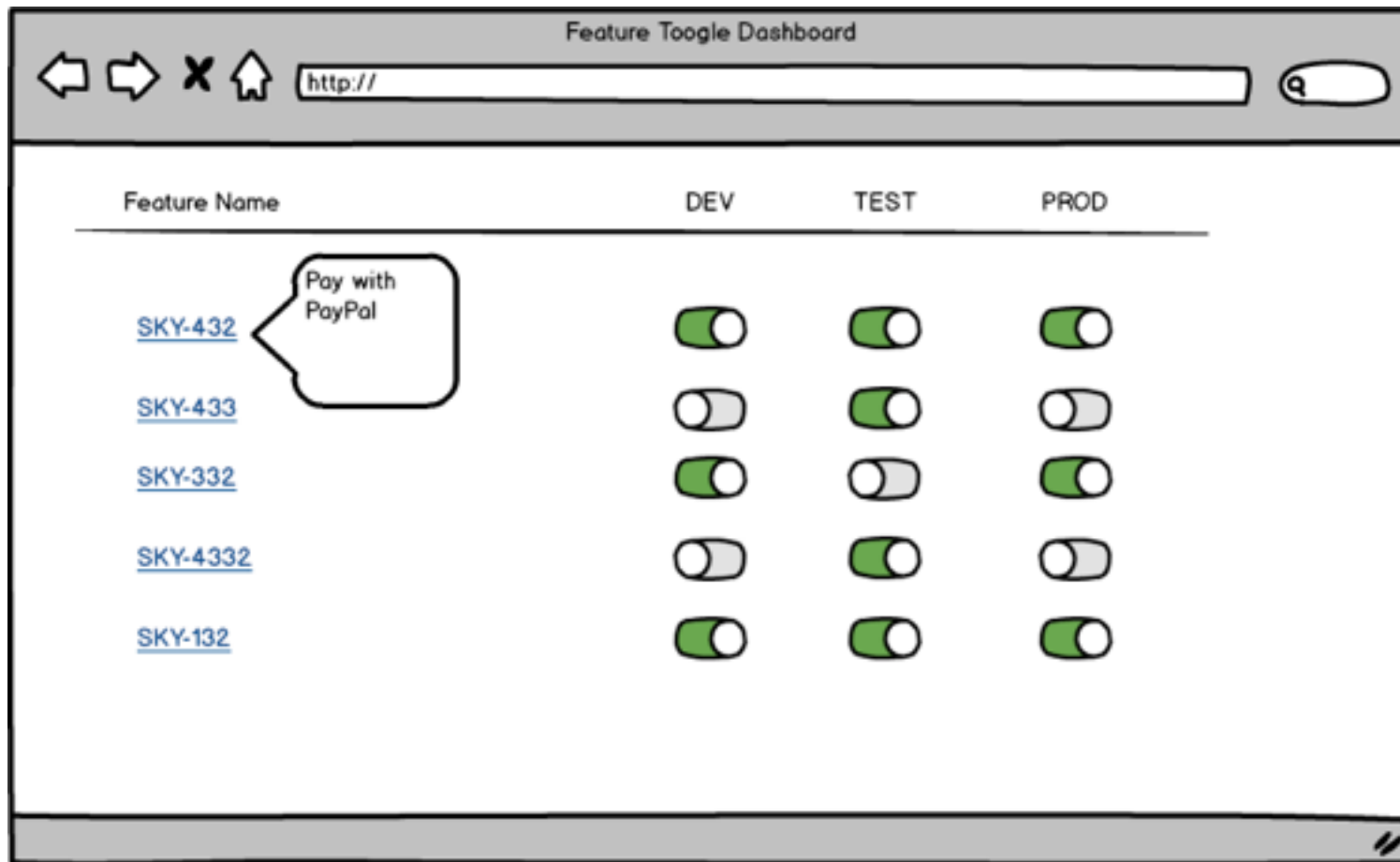
Introducing changes

Branches as Code

Introducing changes

Feature Switches

Release



Introducing changes

Branching by abstraction

Introducing changes

```
class DefaultPurchaseService implements PurchaseService {
    public Money calculateRabat(OrderNumber orderNo){
        Order order = ordersRepository.load(orderNo);
        RabatPolicy rabatPolicy = rabatPolicyFactory.get();
        Money rabatValue = order.calculateRabat(rabatPolicy);
        return rabatValue;
    }
    public void addProduct(OrderNumber orderNo,
                          ProductNumber productNo,
                          Quantity quantity){
        Product product = productsRepository.load(productNo);
        Order order = ordersRepository.load(orderNo);
        order.addProduct(product, quantity);
        ordersRepo.save(order);
    }
}
```

Introducing changes

```
class DefaultRabatPolicyFactory implements RabatPolicyFactory {  
  
    Map<Name, RabatPolicy> map = newMap()  
        .put("default", new DefRP())  
        .put("newShiny", new NewRP())  
  
    public RabatPolicy create(){  
        if(featureSwitcher.isNewRabatPolicyActive()) {  
            return map.get(newShiny);  
        } else {  
            return map.get(default);  
        }  
    }  
}
```

Definition

Safety Net

Automated tests

Application monitoring

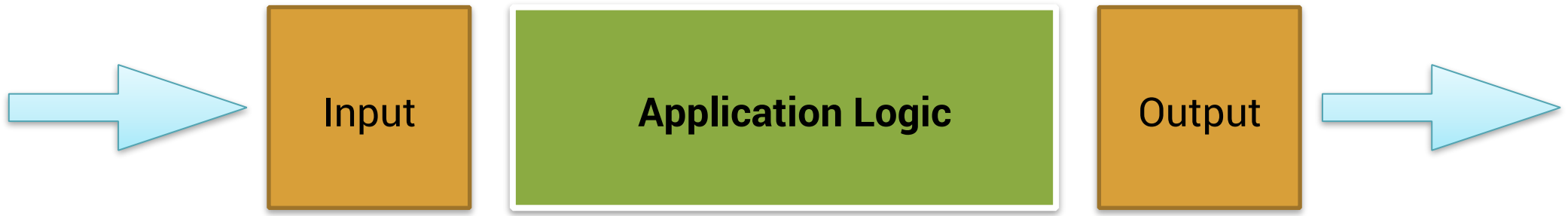
Automatic testing

How much coverage is enough?

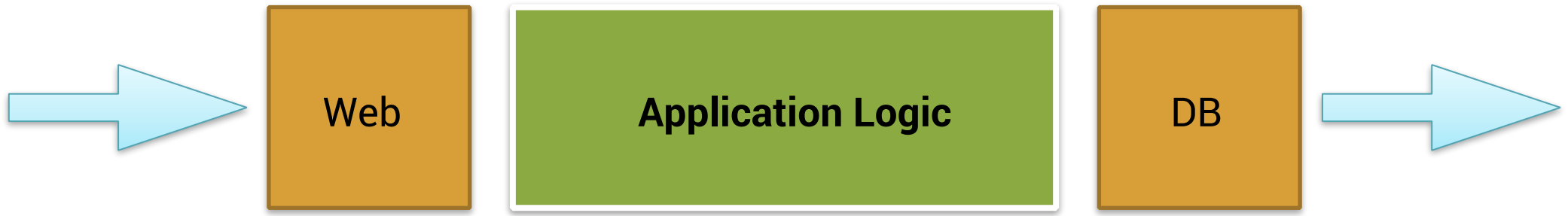
Bugs

- user can't complete some action
- user can complete action wrong

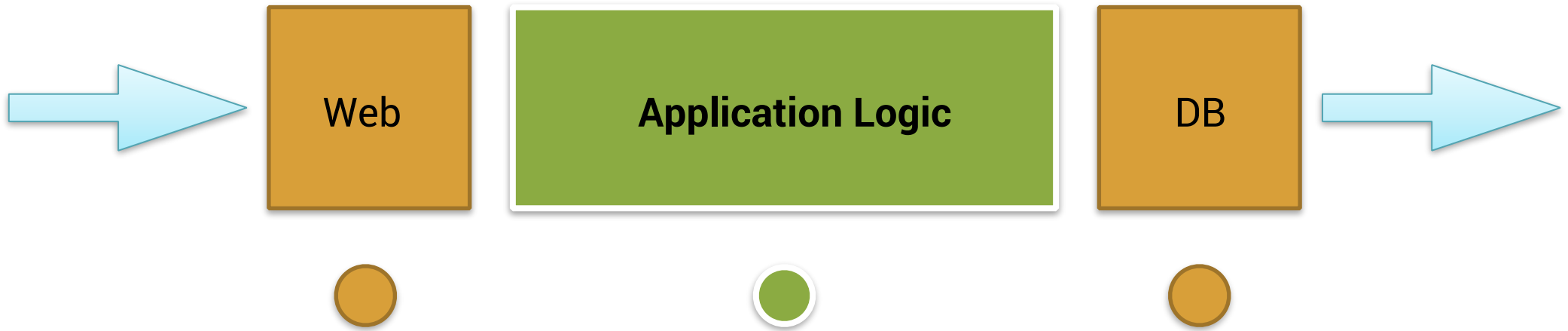
Automatic testing



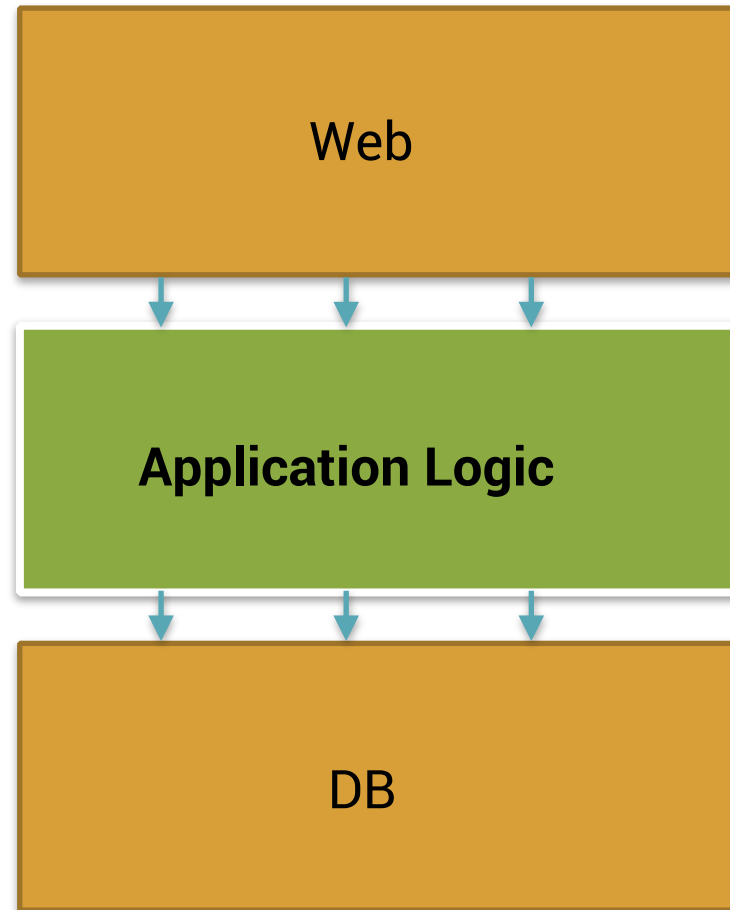
Automatic testing



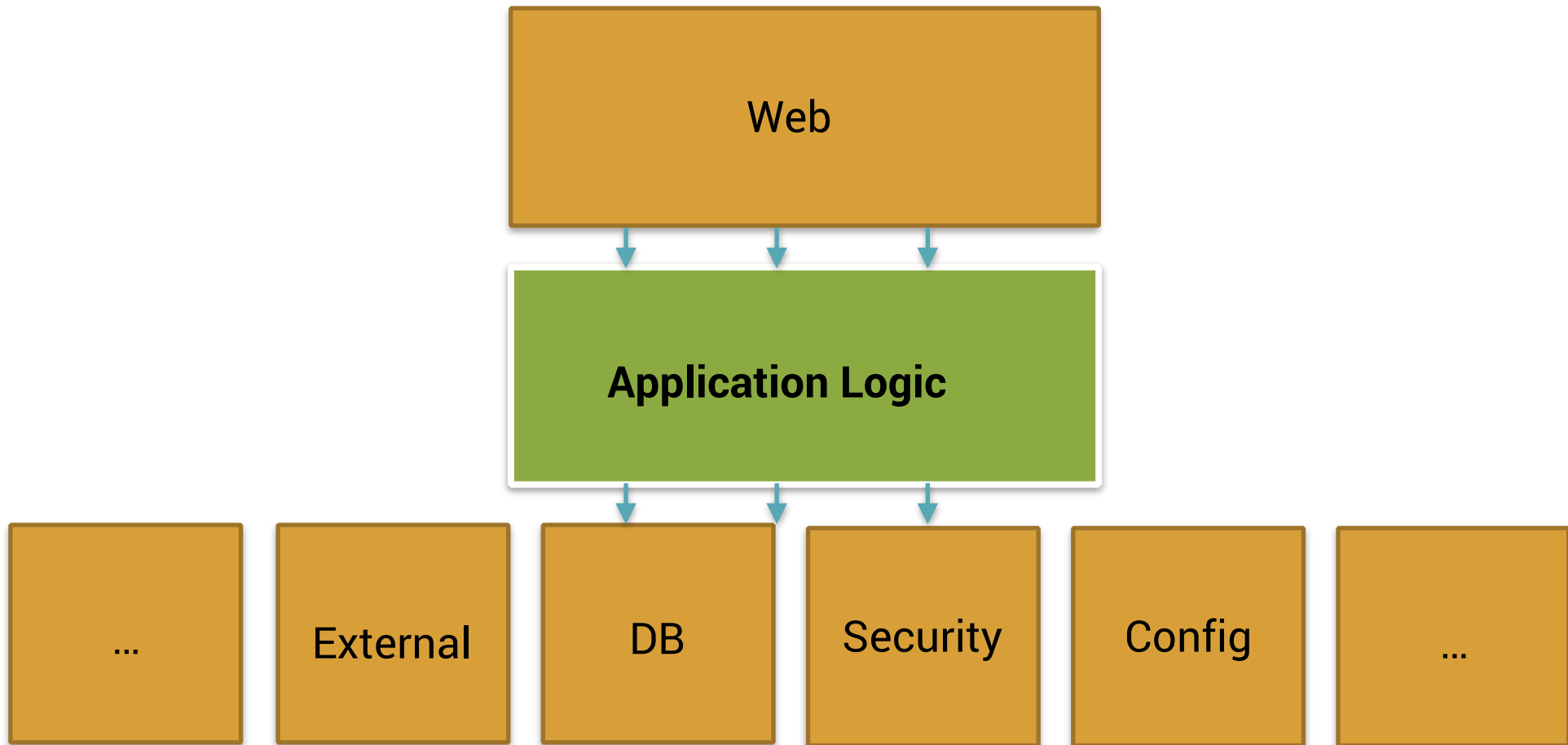
Automatic testing



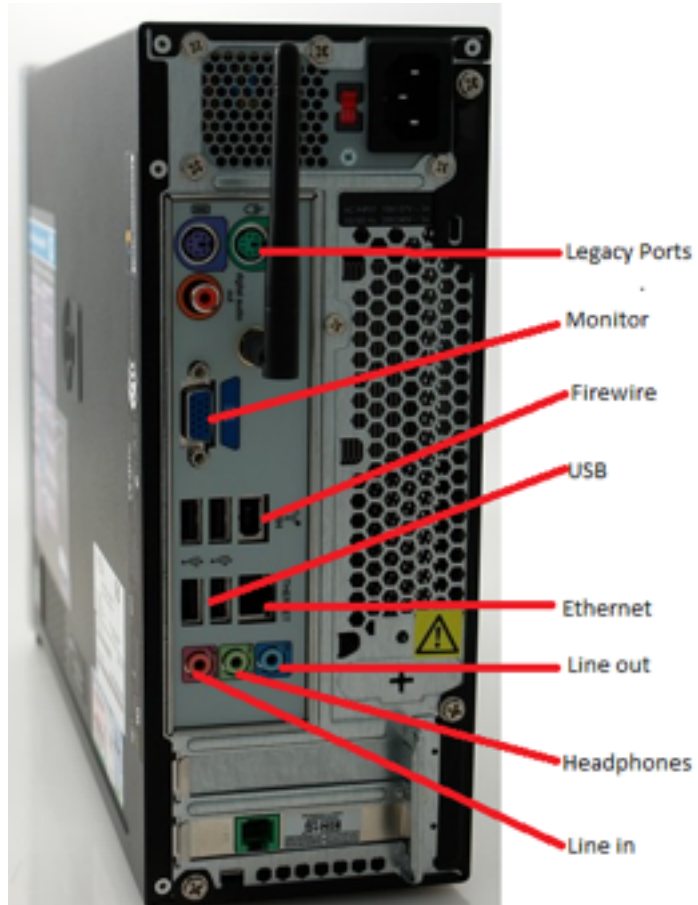
Architecture



Architecture

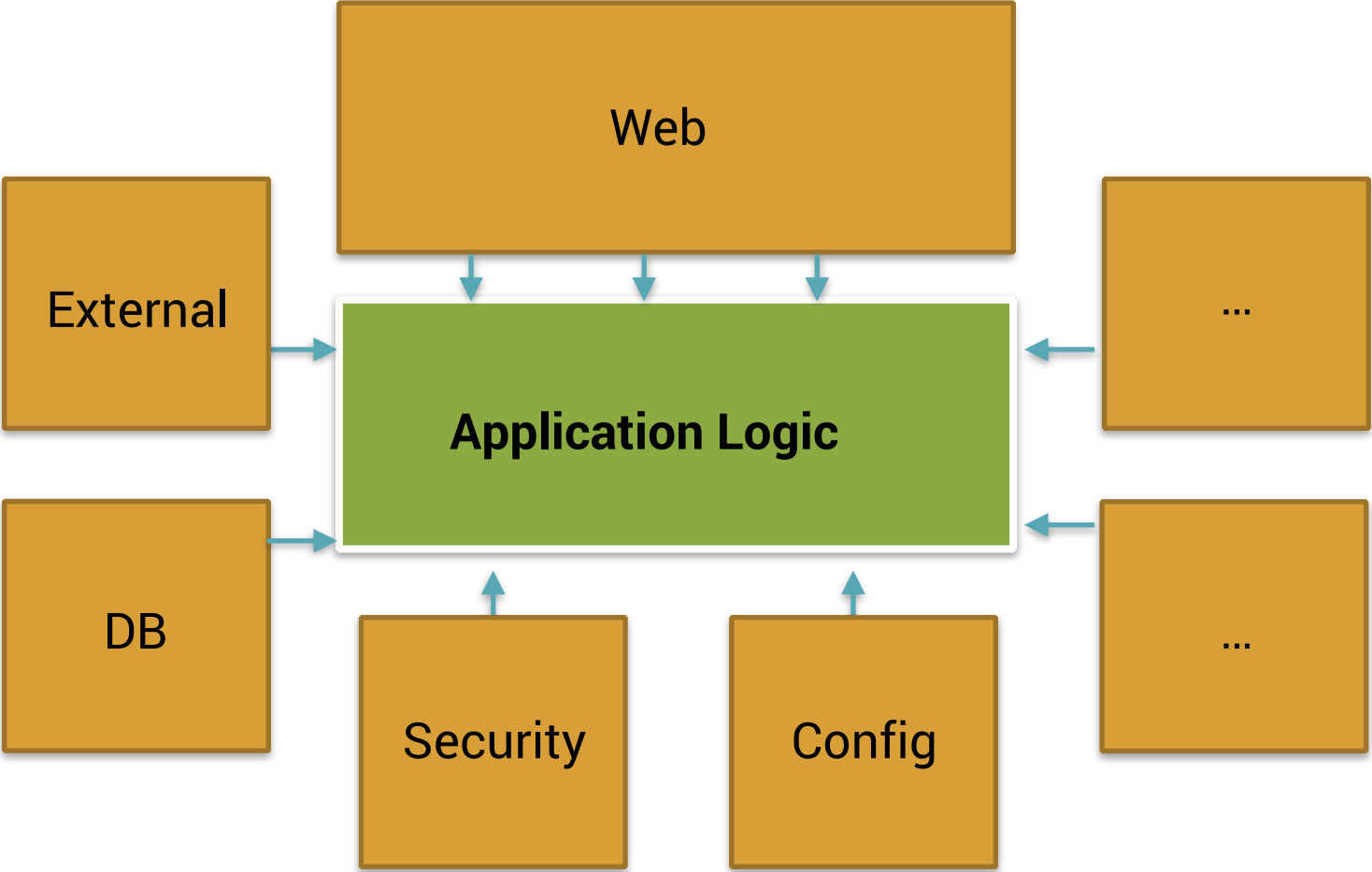


Architecture

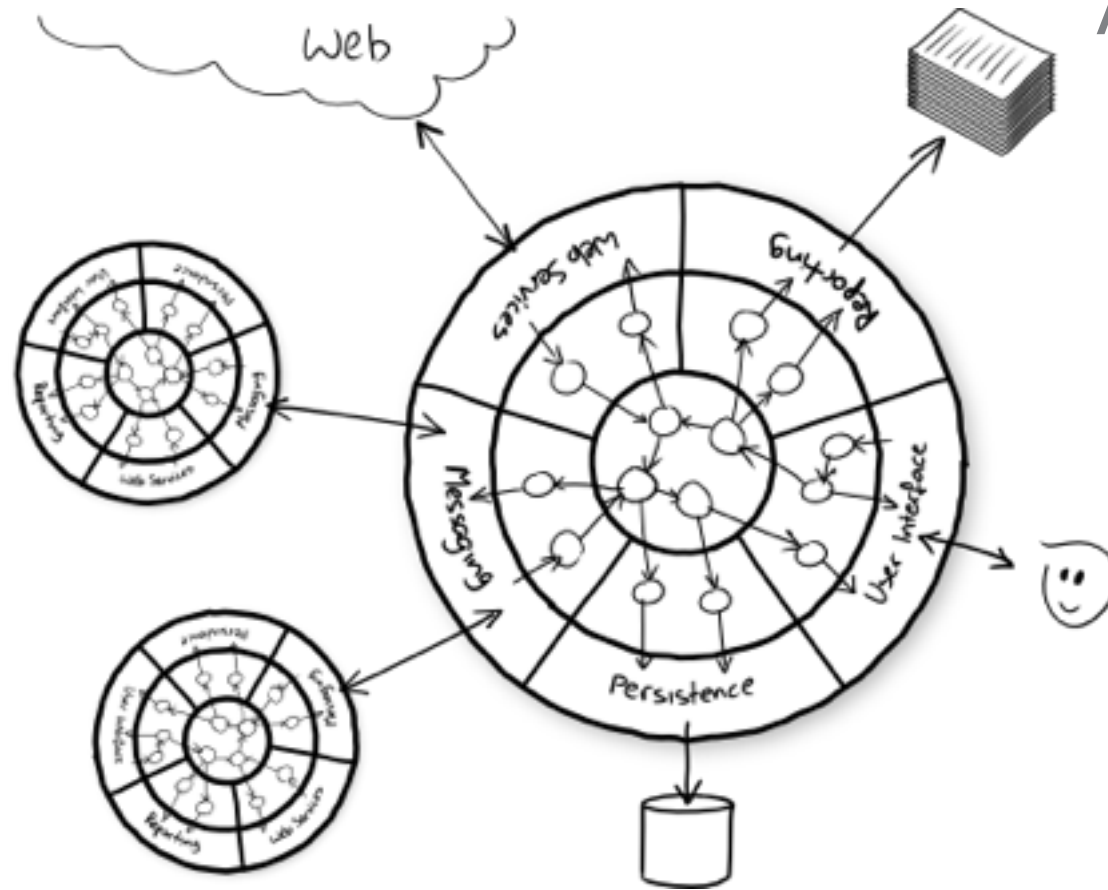


Do you remember PC?

Architecture



Ports&Adapters/Hexagonal/Onion Architecture



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About me

Programmer/Architect/Consultant

Writes code mostly in Java

Specializes in DDD, CD, BDD

Trainer at Bottega IT Solutions

Branch free since 2010 (with small break)

Q&A

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