

# Stabile Software in volatilen Umgebungen

## International PHP Conference 2017

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24th October 2017

# Hi, we're Toby and Kore

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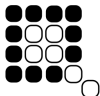
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Frontastic



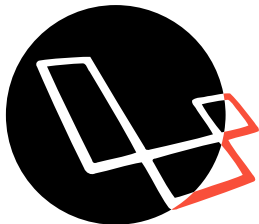
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# Well Aged Project





# Symvel

The logo graphic for the framework part of the name, featuring three horizontal green bars of varying lengths stacked vertically.

## framework

- ▶ Development worked like a charm
- ▶ Reasons to change something:
  - ▶ New (security) release of framework software
  - ▶ New feature requirements
  - ▶ New scaling requirements (Microservices!11!!)



After just one change

# Why Updates Don't Just Work?

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- ▶ Changing APIs in vendor software
- ▶ Side effects (session, global scope, class scope) between “modules”
- ▶ Wrong abstractions – not embracing the next change

# Maintenance

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**Cory House** 🏠

@housecor



Folgen



Software maintenance is not "keep it working like before." It is "keep being useful in a changing world".

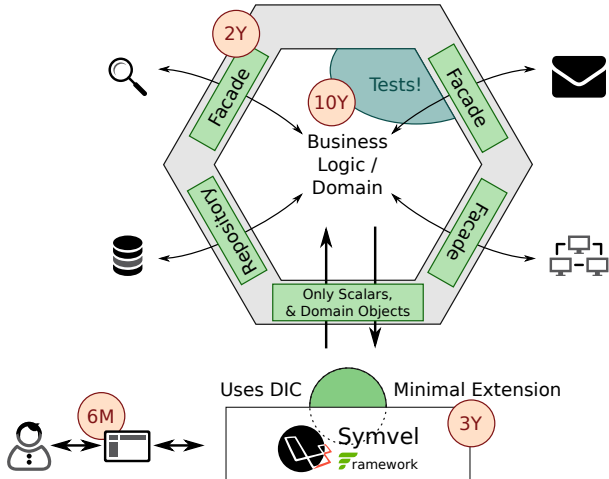
# Why Is There a Problem?

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- ▶ Life times of code:
  - ▶ Frontend Code (HTML, JavaScript)
    - ▶ Half-life period: **6 Months**
  - ▶ Service Integrations (Payment, Mailing, ...)
    - ▶ Half-life period: **2 Years**
  - ▶ Infrastructure Code (Framework, Database, Logging, ...)
    - ▶ Half-life period: **3 Years**
  - ▶ Domain Code (Basket calculations, discounts, ...)
    - ▶ Half-life period: **10 Years**



# Design Stable Modules / Extensions



# The Entry Point

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- ▶ May be an ugly mess
- ▶ **Must not** contain logic, beside:
  - ▶ Basic input conversion
  - ▶ Exception handling
  - ▶ Basic out preparation
- ▶ Access your Dependency Injection Container (Application configuration) statically, if necessary
- ▶ Do not test with Unit Tests (unless it is a certification requirement)

# Oxid Example

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```
1 class acme_dev_magic_magic extends oxAdminDetails
2 {
3   public function render()
4   {
5     parent::render();
6     try {
7       $dic = oxRegistry::get('acme_dic');
8
9       if (isset($_POST['push'])) {
10        $magic = $dic['acme_dev_magic_magic'];
11        $magic->import($this->getLanguage());
12      }
13
14      $configuration = $dic['acme_dev_magic_configuration'];
15      $this->addTplParam('hasUrl', (bool) $configuration->url);
16      $this->addTplParam('hasSecret', (bool) $configuration->secret);
17      $this->addTplParam('isProduction', (bool) oxRegistry::getConfig()->
18        isProductiveMode());
19
20      return 'acme_dev_magic_magic.tpl';
21    } catch (\Exception $e) {
22      $this->addTplParam('exception', $e);
23      return 'acme_dev_magic_error.tpl';
24    }
25  }
```

# The Domain

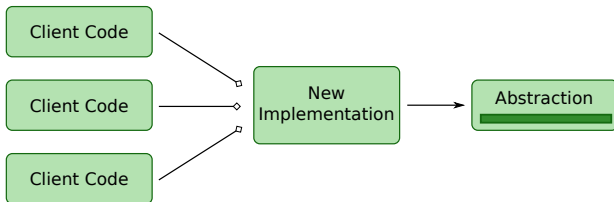
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- ▶ Find your agreed-upon patterns:
  - ▶ Separate between “Newables” (Data Objects) and “Injectables” (Services, Transaction Script)
  - ▶ Only add “Eternal Truth” to Newables – all other logic goes into Injectables
  - ▶ No Newable may aggregate an Injectable
  - ▶ No Injectable may aggregate a Newable – only use as parameters

How do we find this Domain in existing code?

# Finding The Domain (Branch By Abstraction)

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# Do **Not** Abstract

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- ▶ **Never** let fellow developers come up with technical abstractions
  - ▶ **No** custom Object Relational Mapper
  - ▶ **No** custom Request, Routing
  - ▶ **No** custom Form Handler
  - ▶ **No** custom Configuration Handlers
  - ▶ **No** custom Template Systems
  - ▶ **No** custom Logger
  - ▶ **No** custom ...
- ▶ Use the amazing components which are out there and **tested**

Your developers do not develop Symvel  
Framework

# Summary

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- ▶ Extract a framework independent domain
- ▶ Test your decoupled domain
- ▶ Sensible Domain Driven Design (just) consists of sensible Domain Objects in 99% (no CQRS, no Event Sourcing, ...)
- ▶ Embrace change
- ▶ Define an Extended Definition Of Done with design rules<sup>1</sup>

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<sup>1</sup>[https://qafoo.com/blog/097\\_extended\\_definition\\_of\\_done.html](https://qafoo.com/blog/097_extended_definition_of_done.html)





THANK YOU

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