

# Analyzing an existing Magento Shop

**Code Quality, Security,  
Performance, Updatability**

## Overview

- Introduction
- Approach
  - Code Quality
  - Security
  - Performance
  - Updatability
- Discussion



## About me

- Andreas von Studnitz
- Living and working in Aachen, Germany
- Magento Development since 2008
- Freelancer since 2009
- Co-Founder of integer\_net GmbH in 2012
- Active member of the German Magento Community
- Magento Frontend/Backend Development, Magento Training, Magento Consulting



## Introduction

### Why should I do a shop analysis?

- Taking over an existing project
- Value the work of a former agency / developer
- An agency wants to know how well they are doing

## Approach

### What you need:

- Complete code base
- Database dump

### What you have to do:

- Install local copy, all warnings on
- Get an overview
- Analyze code
- Analyze log files

## Approach (2)

How to get an overview?

- How many non-core modules are there?
- You have to know what every module is doing
- See each module's config.xml for that
- Have a look into the central classes for that

## Approach (3)

Structure your analysis:

	Quality	Security	Performance	Updatability
Base Magento		?		?
Template	?	?	?	?
External Modules	?	?	?	?
Individual Modules	?	?	?	?
Configuration	?	?	?	

## Code Quality (1)

- How are classes, methods and variables named?
- Does the code contain comments?
- How long are methods and classes?
- Is there commented code?
- Is everything at the place where it belongs to?  
(MVC)



## Code Quality (2)

- Does the code use Magento Coding Standards?
- Are there obvious warnings in the IDE? (i.e. non-initialized or non-used variables, unreachable code blocks etc.)
- Are there automated tests?
- Use testing tools (for PHP, HTML, ...)
- Keep your eyes open

## Security

Look at:

- Magento Version
- Unfixed Security Issue in Zend Framework (July 2012)
- Accessible files (Database dumps, PHP scripts, Export files, ...)
- SQL in PHP or template files
- Third party extensions
- (Server)

## Performance

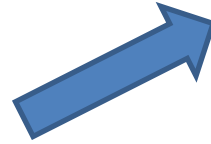
Look at:

- Configuration (Caching, Flat Catalog, JS/CSS merging)
- Use of built-in caching (use AoE\_TemplateHints)
- `$product->load()` or `$category->load()` in Collections
- `$product->save()`
- (Server)

## Updatability

Look for:

- Changes in core files
- Files in app/code/local/Mage
- Too many rewrites of central classes
- SQL in PHP or template files
- Copy of layout files instead of using local.xml
- Copy of whole template folders



- Use git
- Create a new branch
- Overwrite with raw Magento
- Check for changes

## Tips

- Do a full text search for “product->load(” and “category->load(” outside the core files
- For templates, have a look at `catalog/product/view.phtml`

## Report

- Can be a bullet list or a text
- Should include:
  - An overview of the analyzed shop
  - Structured results with weighting
  - Summary
  - Recommendations

## Thank you

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