



MOAR Attendees

http://www.mageunconference.org/2017/

https://www.mage-hackathon.de/upcoming/muc17de.html

HARDEST PROBLEM Introduction to Lizards & Pumpkins techniques we are using and why

Problem

Your shop is too slow

And scaling is hard and expensive!

Scalability

Double the machines double the throughput

Solutions

Solution for everything?

Solution for everything? caching 5

There are only two hard things in CS: cache invalidation and naming things.

- Phil Karlton¹

¹ http://martinfowler.com/bliki/TwoHardThings.html http://skeptics.stackexchange.com/q/19836

Problem: Broken by design

- Cache miss
- Invalidation is HARD if you do it right
- Flush can lead to downtime
- Inconsitencies are hard to avoid

Solution: Pregeneration (not cache warmup)

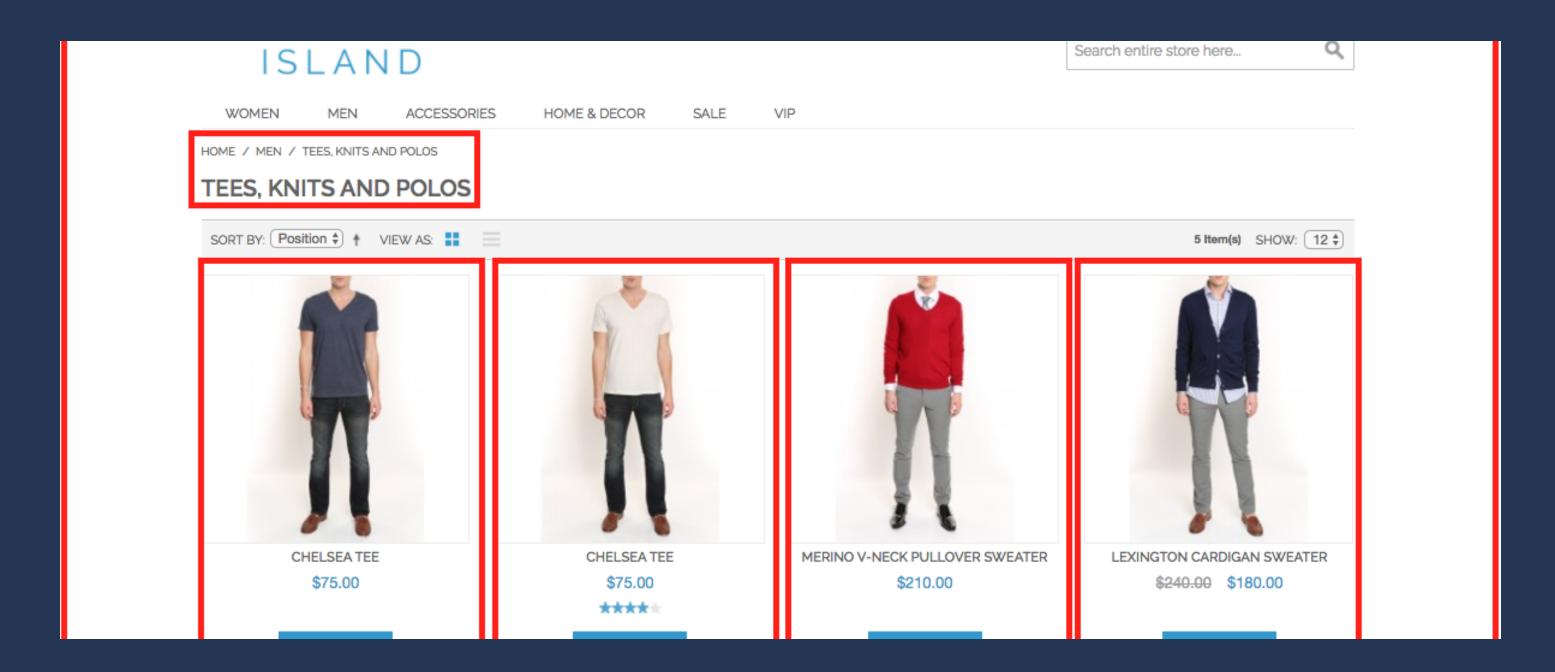
Be Prepared scouts motto

- render only if something is new
- and serve until it is updated

Not possible with Magento

- Because it doesn't know what the content looks like,
- when the product is saved,
- not until requested

Idea



How to do it?



Lizards and Pumpkins

Process (Import)













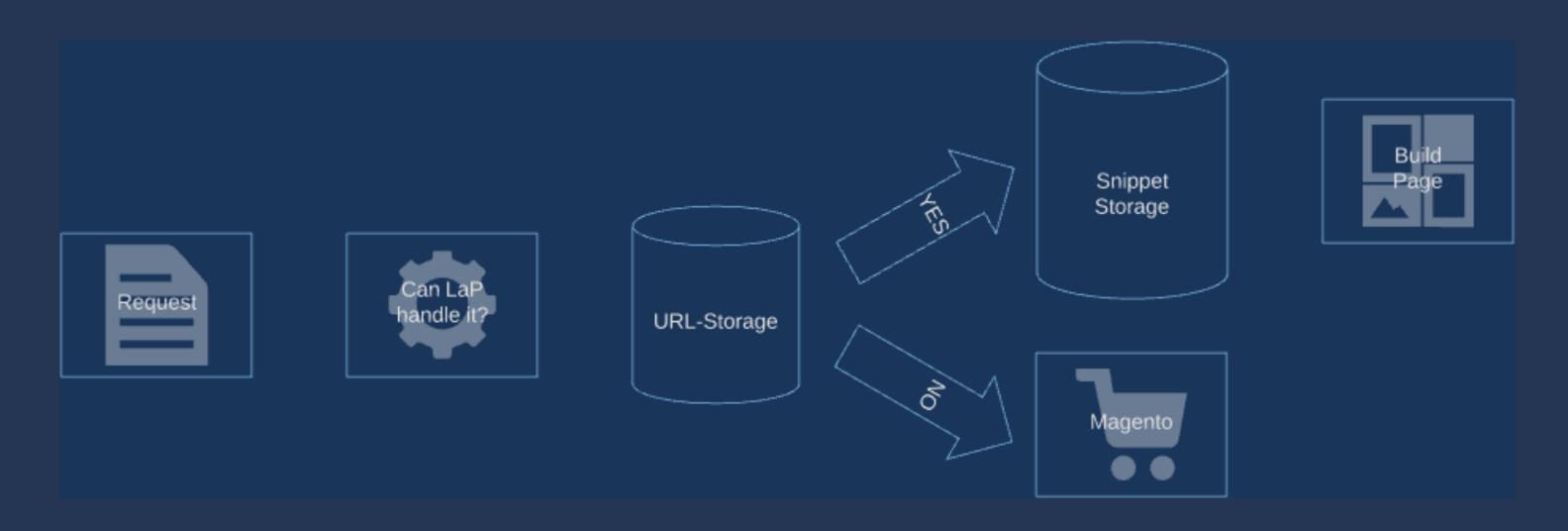




Import

- Work already done, HTML/JSON/XML rendered!
- Logic is in keys, e.g.
 - prices per country
 - availability per customer (group)
 - description per geo ip

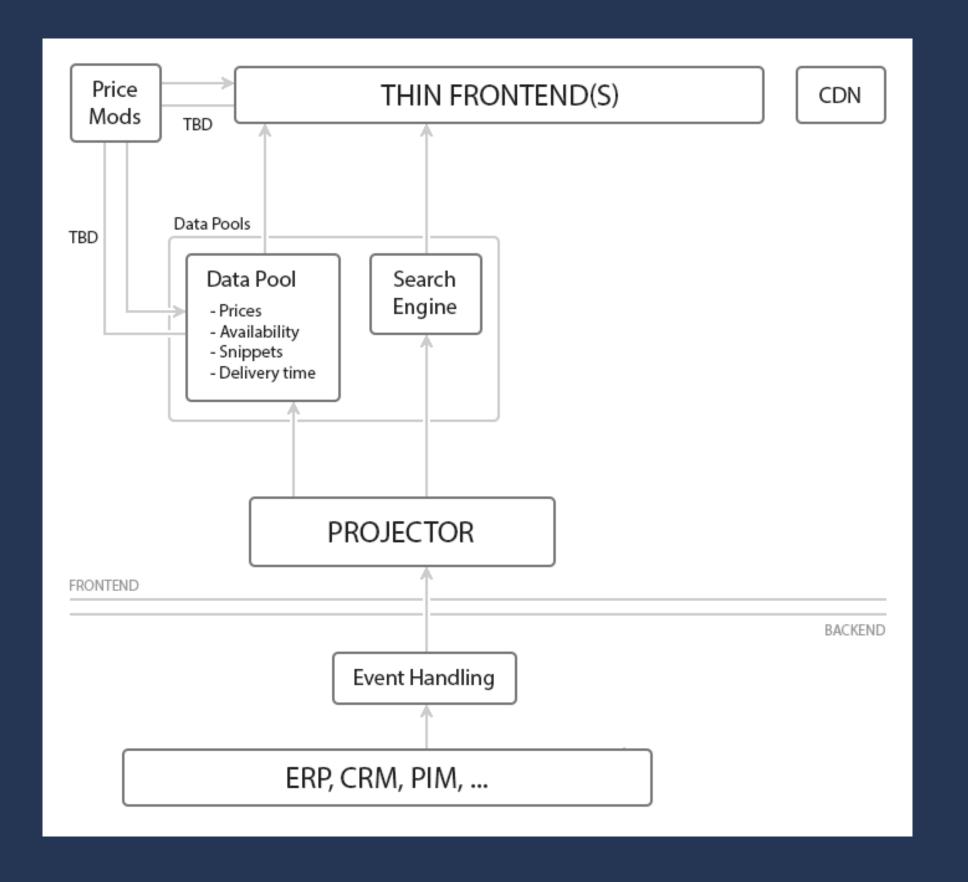
Content Delivery (Request)



Build from snippets

- KV storage
- Services (your or SaaS)

It scales HORIZONTALLY



No dependencies

Technologies we use

- Queuing
- KV Storage
- Search Engine

Up and downsides

- + boost for TTFB
- + IT SCALES!
- +/- Theme needs to be reimplemented (get rid of legacy)
- slowly more documentation (but good to read code!)
- Second software stack to maintain

Magento Connector

- Exports huge XML files (250k products)
- Simple, config products
- no custom options

Some facts and numbers

- TTFB 30ms (+network)
- 100% TDD (even JS!)⁵
- 100% PHP 7.0 (PHP 5.6 incompatible)⁶
- we have thePHP.cc as consultants since beginning
- first commit by @Vinai on Tue Oct 14 2014³
- Main repo > 3.600 commits ⁴
- nearly 500 PRs merged

⁵ https://scrutinizer-ci.com/g/lizards-and-pumpkins/catalog/

⁶ https://github.com/lizards-and-pumpkins/catalog/pull/936

³ https://github.com/lizards-and-pumpkins/catalog/commit/34abfd6900ab00015b4798c62dc6d9126e51d95b

⁴ https://github.com/lizards-and-pumpkins/catalog

First day with &&&

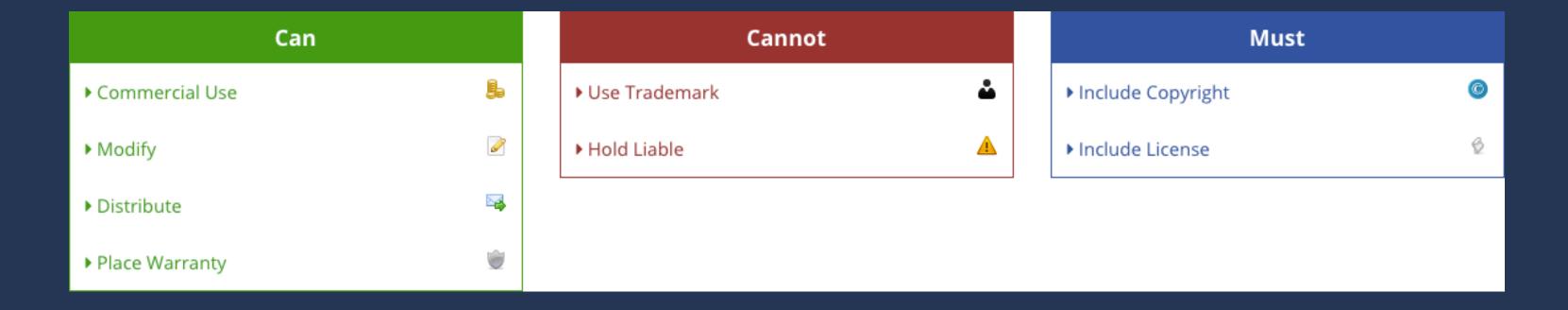
Revenue & Conversion Rate		Transactions	
Revenue 24.52%	Ecommerce Conversion Rate 44.93%	Transactions 14.52%	8.73%

Our first web-server for & & crashed and was down over the weekend - nobody noticed. Because Lizards was fine with a single server.

- Tim Bezhashvyly

License: BSD 3-clause

The BSD 3-clause license allows you almost unlimited freedom with the software so long as you include the BSD copyright and license notice in it. ⁷



⁷ Image License

How to get started?

- https://github.com/lizards-and-pumpkins
- https://github.com/lizards-and-pumpkins/dev-vm

Our offer

- 2-4 days workshops to implement a proof of concept
- Vinai, Tim and/or me visiting you
- Write me an email for dates and prices

Questions?