Lets have some advertisement

MageUnconference Looking for...

- Sponsors! Friends of MageUC: 300€
- Bigger Sponsors: 500€+
- 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!

Definitions

Performance low TTFB (uncached)

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)

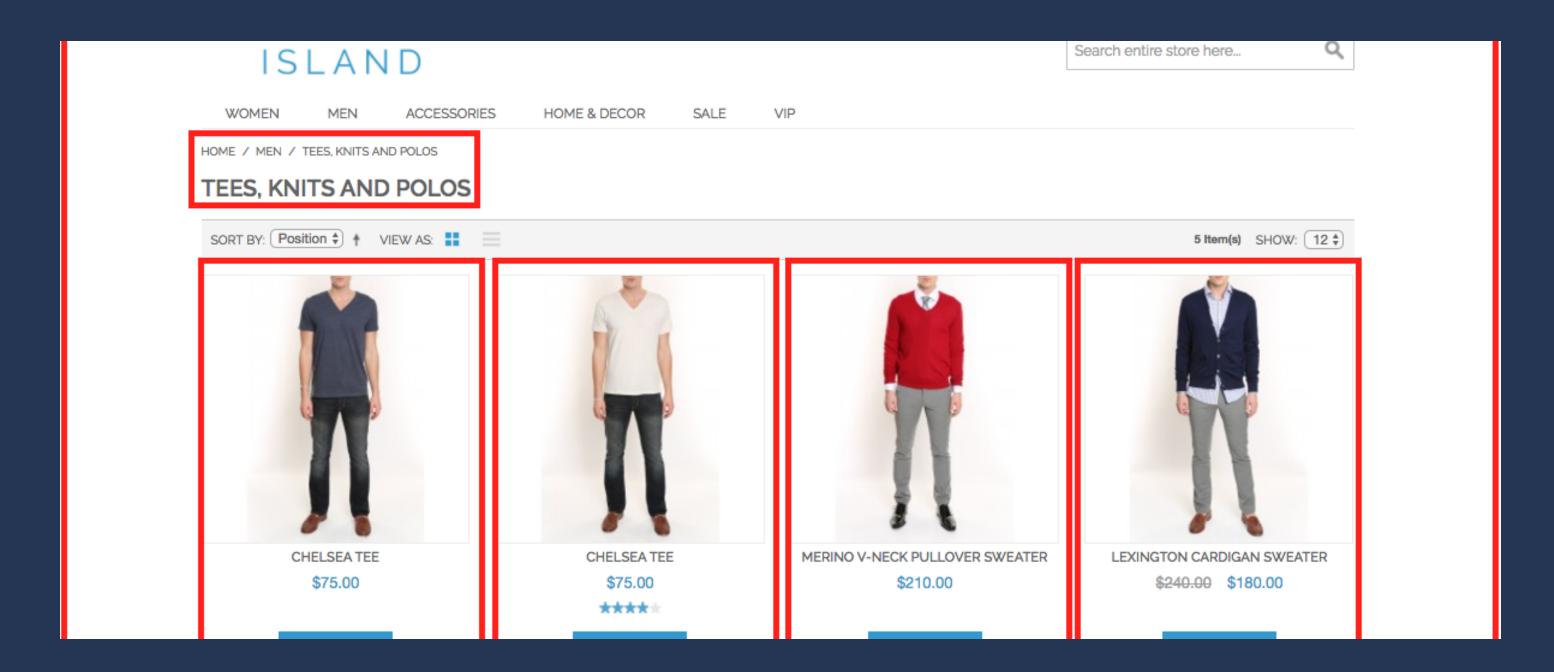
Be Prepared scouts motto

- 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)













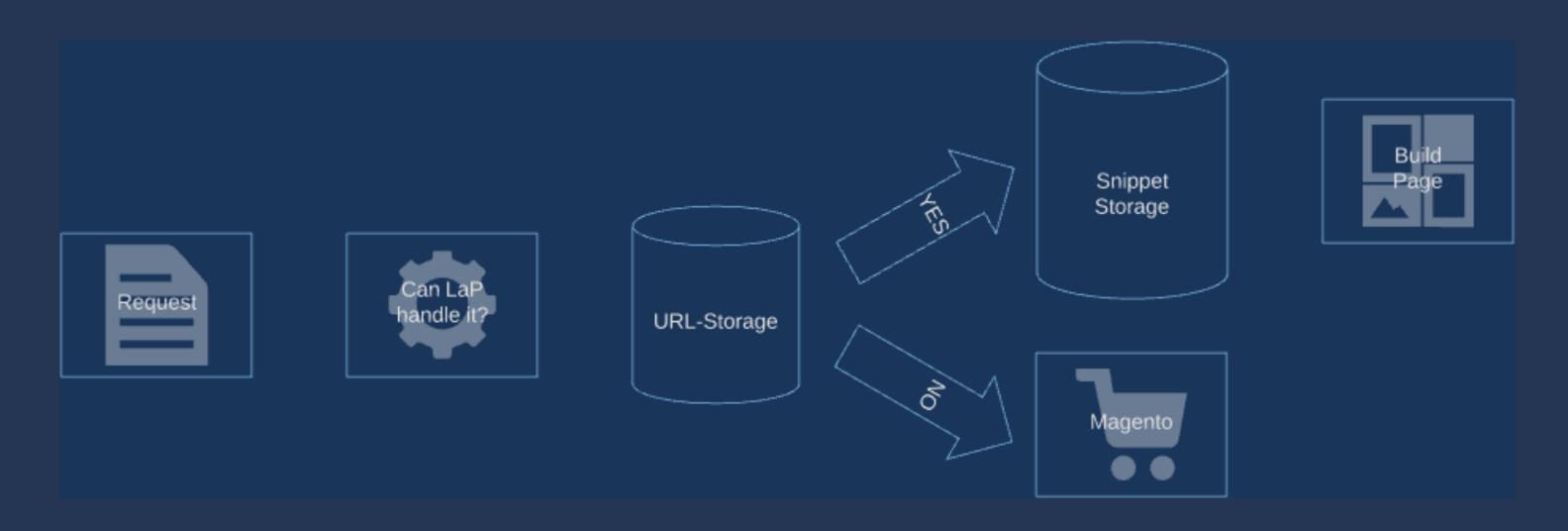




Import

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

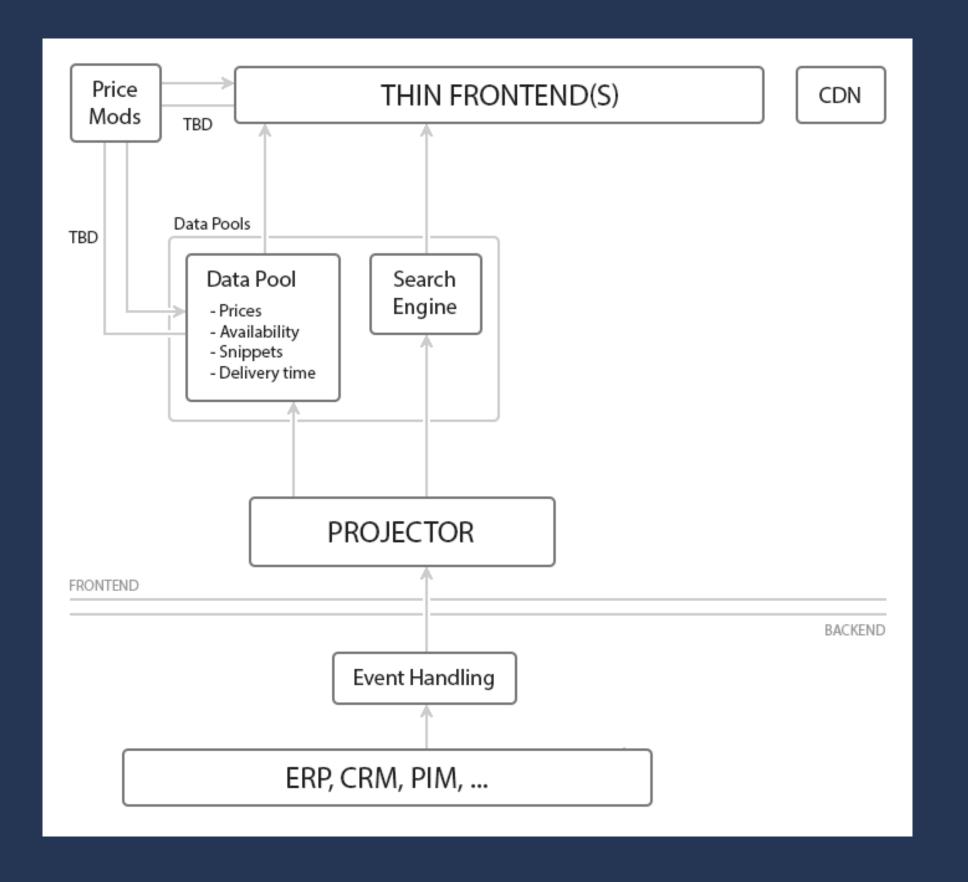
Content Delivery (Request)



Build from snippets

- KV storage
- Services (your or SaaS)

HORIZONTALLY



Up and downsides

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

Magento Connector

- Exports huge XML files (250k products)
- Schema for XML
- 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 > 3.400 commits⁴

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%	Average Order Value 8.73%

Funny thing.

10 days ago due to hosting fault first web-server at & crashed and was down over the weekend and nobody noticed

Guess why. Because Lizards was fine with a single server.

- Tim Bezhashvyly

How to get started?

- 4 day workshop to implement a ready to use solution
- Risk? 6000€ (+tax)

Questions?