Drupal Commerce at Million Dollar Scale
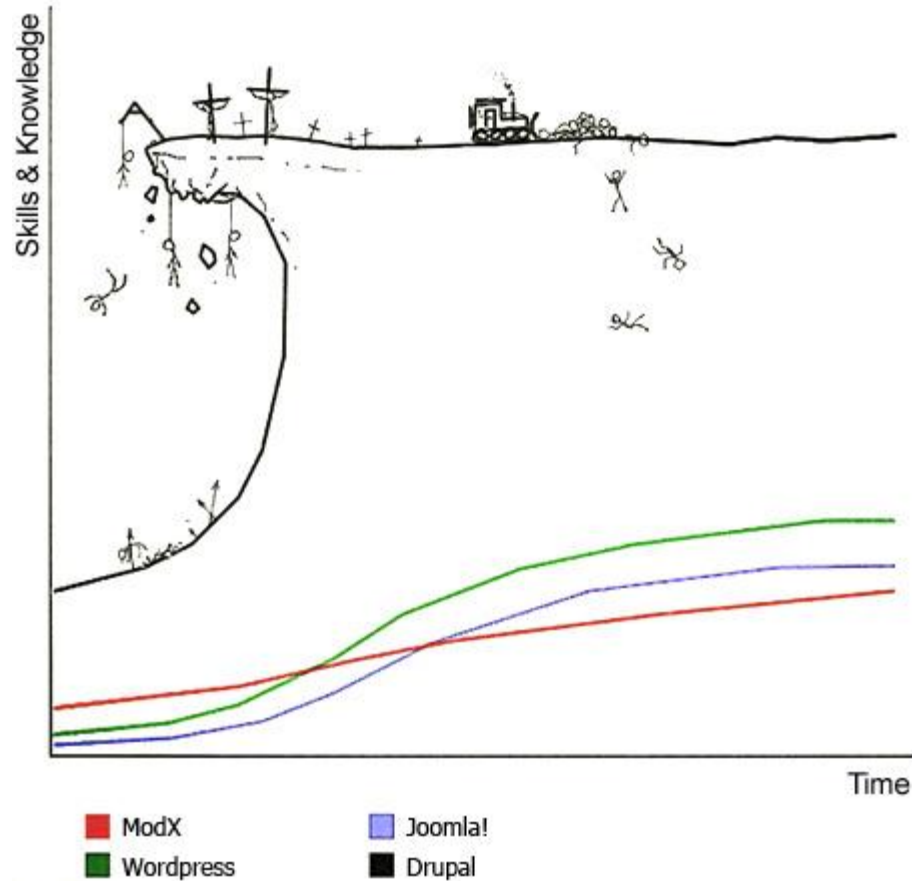
A note about Drupal

Learning curve for popular CMS

Skills & Knowledge

Time

ModX
Joomla!
Wordpress
Drupal
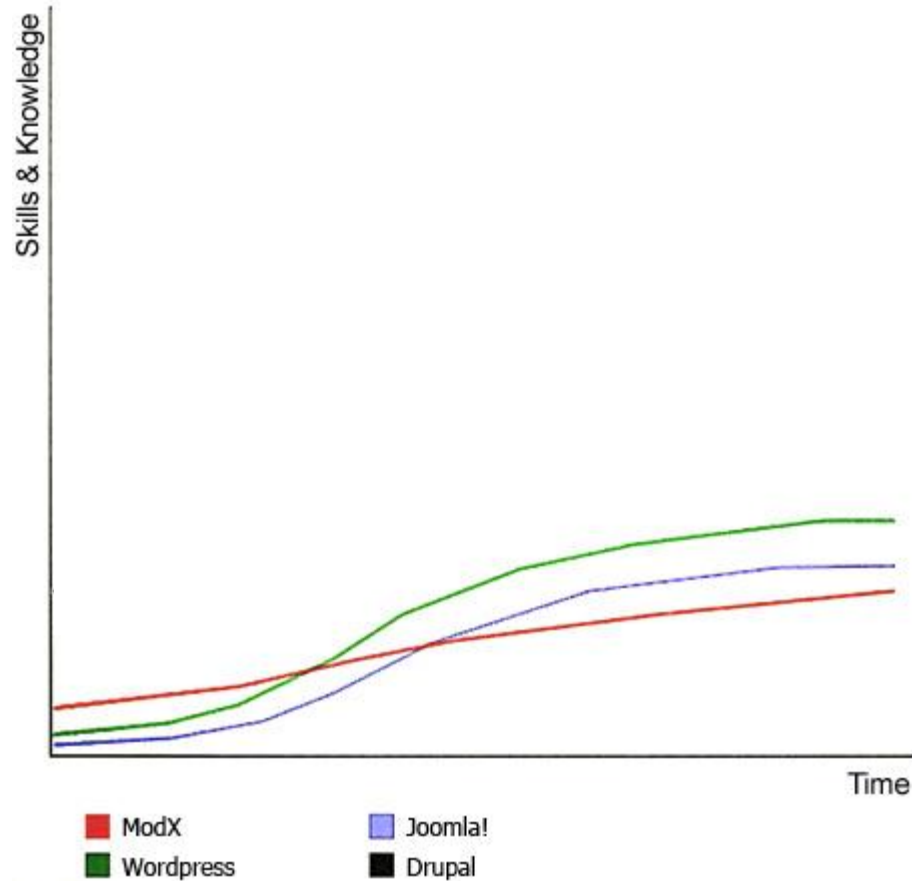
A note about Drupal

Learning curve for popular CMS

Drupal architectural choices

- Highly normalised database structure

- Hook based modifications / operations

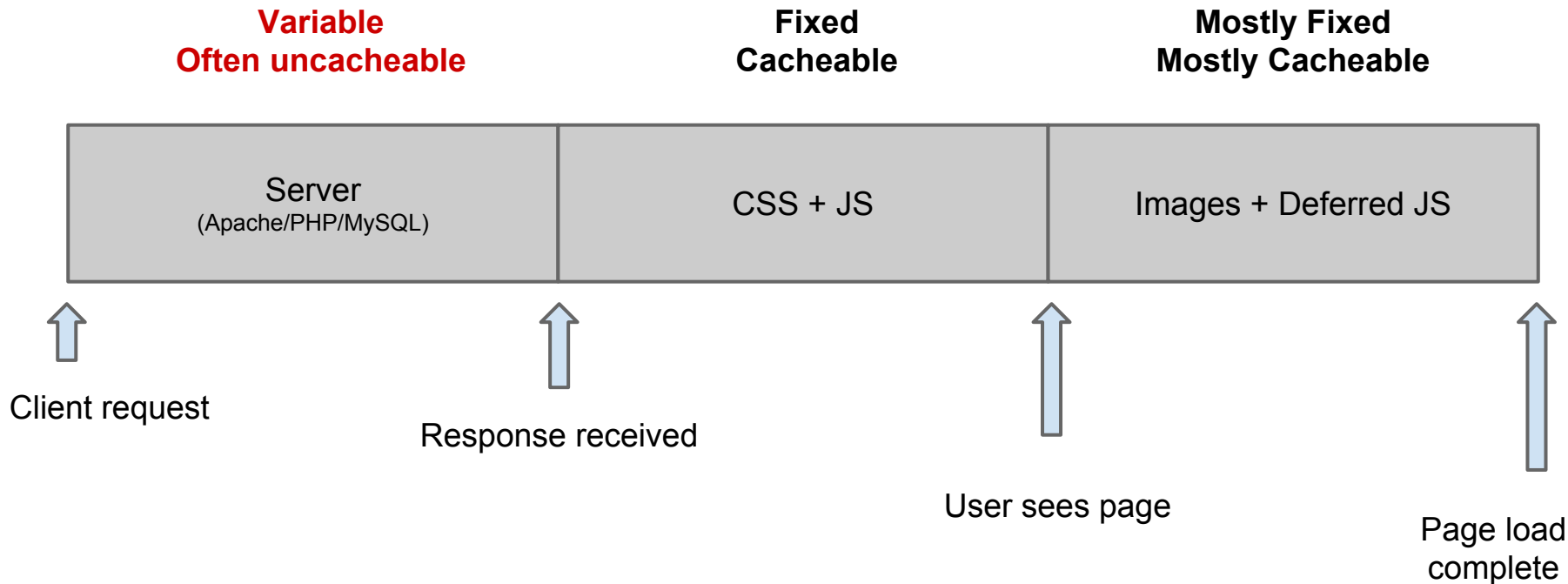# Drupal Commerce architectural choices

- The cart is a lie

- Everything is a line item

- Rules integration is great

  - until it's not… hello shipping!

Commerce challenges with Scale

- What do 100,000 orders look like?

- cache_form is a little inconvenient

- Mo' modules mo' problems

Solutions

A (rough) anatomy of a web request

Variable
Often uncacheable

Fixed
Cacheable

Mostly Fixed
Mostly Cacheable

| Server (Apache/PHP/MySQL) | CSS + JS | Images + Deferred JS |

Client request

Response received

User sees page

Page load complete

Outside Drupal

- APC your source

- Varnish all the things

- Install and use NewRelic

- Tune your database

```
        ┌─────────────┐          ┌─────────────┐
        │             │          │   Apache    │
        │   Varnish   │          │    APC      │
        │             │          │  Memcache   │
        │             │          │    Files    │
        └─────────────┘          └─────────────┘

  →   ┌─────────────┐   →   ┌─────────────┐   →   ┌─────────────┐   →   ┌────────┐
      │             │       │             │       │   Apache    │       │        │
      │LoadBalancer │       │   Varnish   │       │    APC      │       │   DB   │
  ←   │             │   ←   │             │   ←   │  Memcache   │   ←   │        │
      └─────────────┘       └─────────────┘       │    Files    │       └────────┘
                                                  └─────────────┘

                              ...                     ...


                              ...                     ...
```
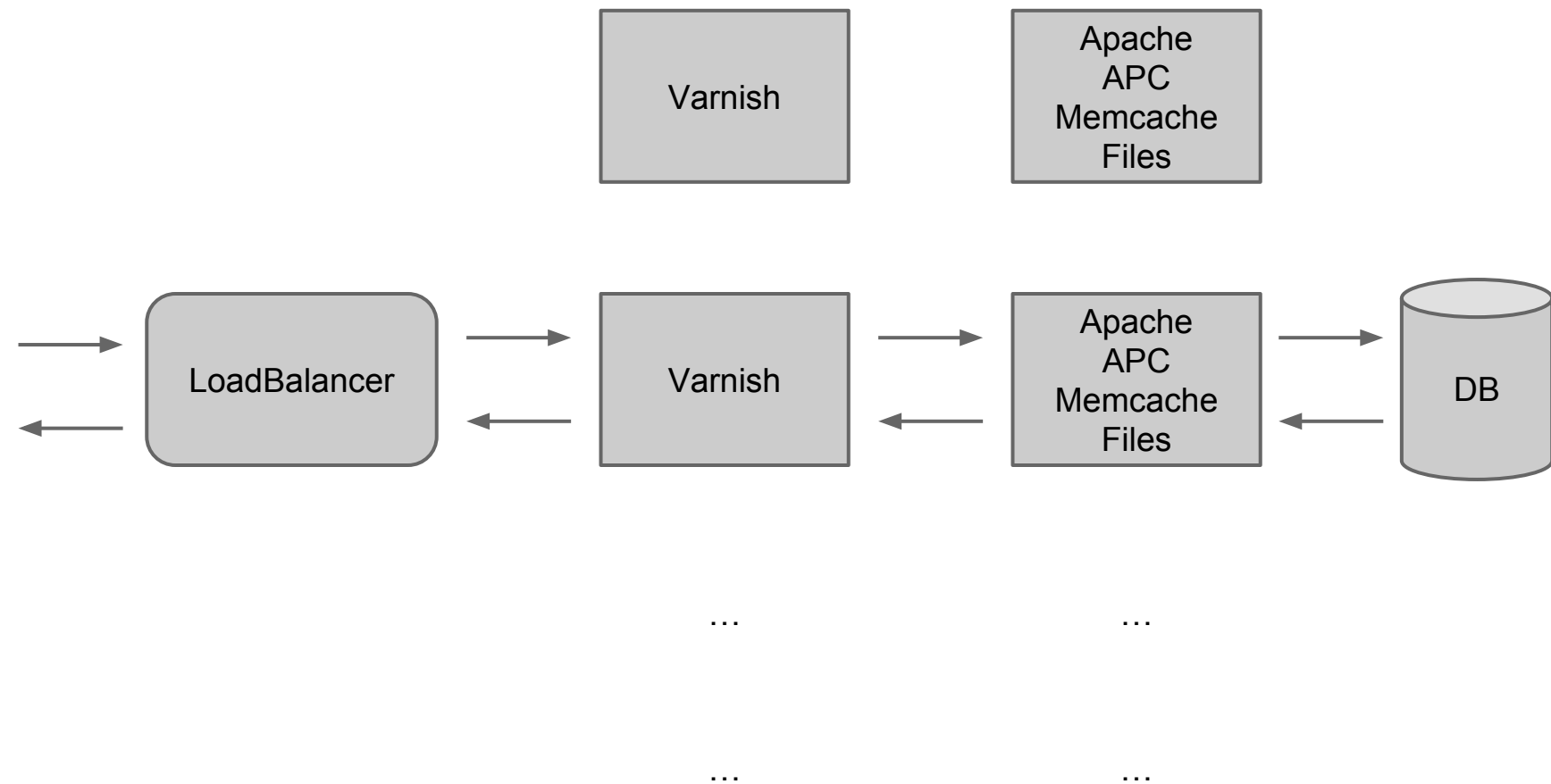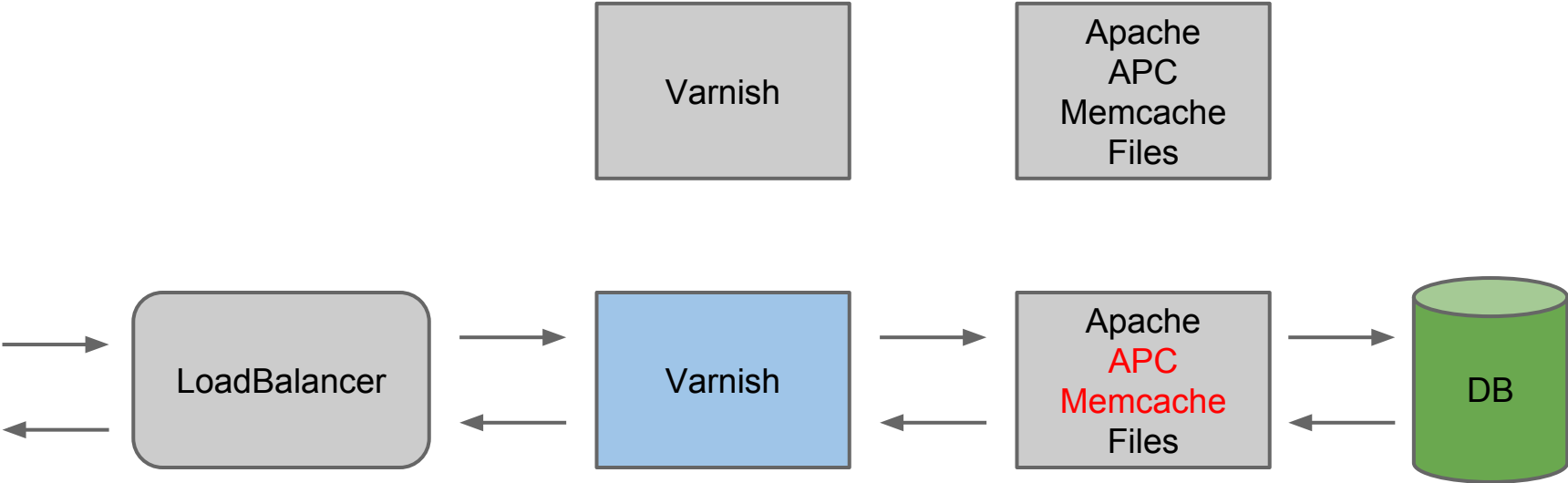
Inside Drupal

- Entitycache + Commerce Entitycache

- Memcache for Drupal caches

Summary

- Scaling software is hard

- Drupal Commerce's focus is flexibility, as per Drupal's

- You have to tread carefully to scale

- Deeply considering performance as an afterthought will hurt

Questions?

Thanks!

hello@mario.net.au

@realmario

github.com/supermario