

# Love reusing, hate rebuilding

J-P Stacey, Torchbox Ltd



# Love Food Hate Waste

- Love Food Hate Waste = LFHW
- Two Drupal instances on one server
- **Eleven** domains in total
- **2500** pages/day ~**100,000** HTTP/day
  - Other site: 10,500 pages/day ~670,000 HTTP/day
- **2500** nodes, no logins (40 users)
- Image- and CSS-heavy



# Tour around the website

Love Food, Hate Waste  
(LFHW)



# Managing the project

- 1-3 developers, 1-2 client product owners, 1 PM
- *Feature*-driven development
  - Both traditional PM meaning AND Drupal meaning
  - Just-in-time specification
- Drupal team (6-8 devs, 3-4 PMs) uses Kanban



# Feature-driven development

WRAP

## Love Food Hate Waste scoping document

Version 8, 1 September 2011

### Points of contact

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### #3281 Events

Summary  
Provides a list of events that each event type can have, including videos, pictures, and other content.

There are three event listings:  
1. Main events listing, showing only promoted events (upcoming and past)  
2. Full upcoming events listing  
3. Full past events listing

### Development

Projects  
• Event  
• Gmap  
• Location

### Modules

• Event  
• Gmap  
• Location  
• Ndrp  
• Location

### Functional

New content type: event

The event content type shall comprise the following fields:

• Title: standard Drupal plain text node title

• Intro: CKR text

• Body: CKR text

• Date: CKR date

• Teaser image: CKR node reference

• Field image teaser

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Provides an event content type, with a view listings to show both upcoming and past events. It is expected that each event node could be edited after the event to report on the success and showcase associated videos, pictures and other content.

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#### Development

##### Projects to download

- Event (Torchbox Drupal feature event)
- Gmap
- Location

##### Modules to enable

- event
- gmap
- location
- gmap\_location
- ndrp\_location
- location\_node

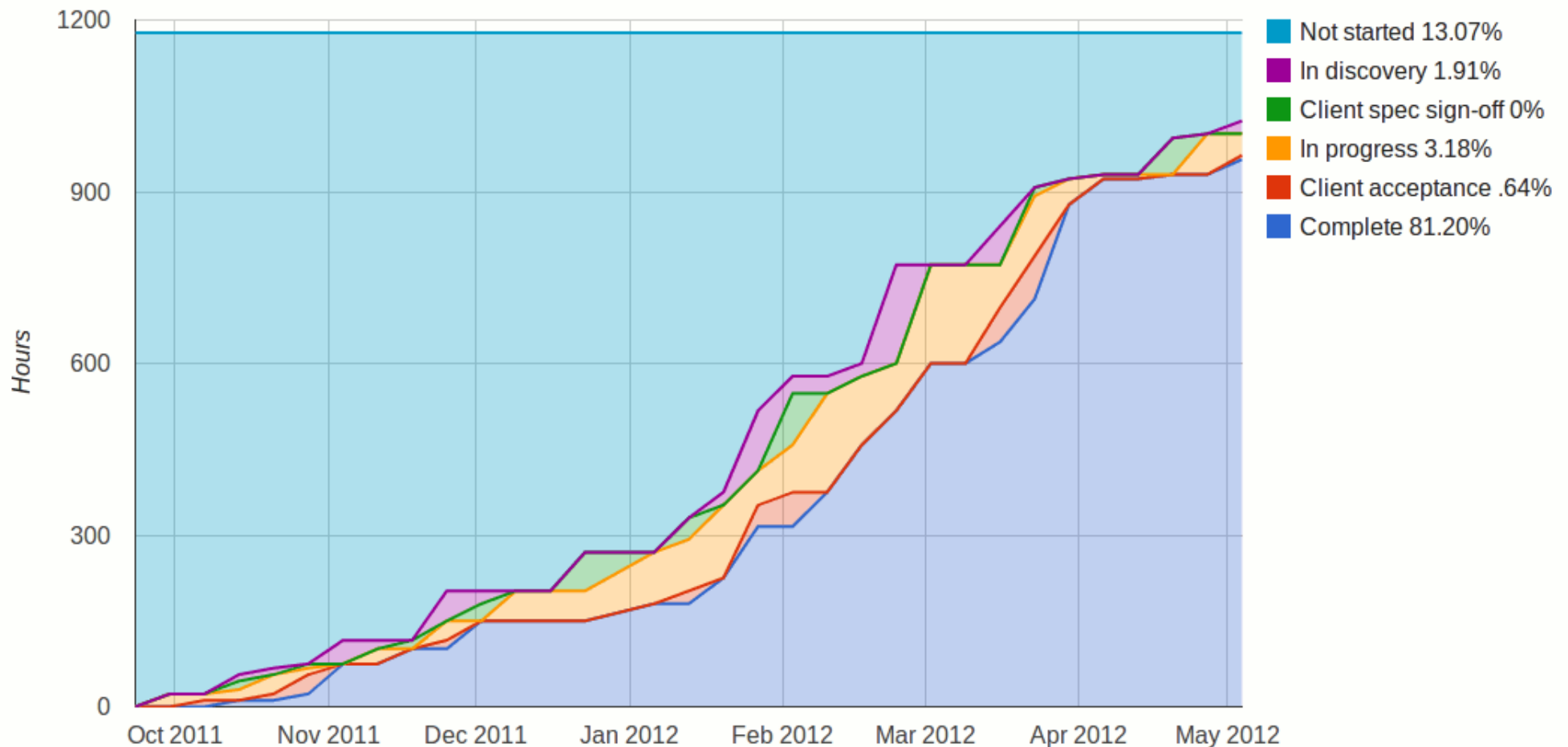
#### Functional

##### New content type: event

The event content type shall comprise the following fields:

- Title: standard Drupal plain text node title
  - required
- Intro: CKR text
  - field\_intro
  - standard field across other content types
- Body: CKR text
  - field\_body
  - standard field across other content types
- Date: CKR date
  - field\_event\_date
  - from (start) date required; to (end) date optional
  - default value (for from date): blank
  - default value for to date: blank
  - granularity: year to minute inclusive
- Teaser image: CKR node reference
  - field\_image\_teaser

# Cumulative project flow



# Kanban

- PMs put work on board and explain priority
- Devs pull work through as time permits
- Row=client/project
- Column=phase, limited by “WIP” & tokens
- Features=white
- Smaller issues=colours



# Technical stack

- Virtual machine
- 4x2GHz logical CPUs
- 8GB memory
- 250GB partition
- Debian Lenny
- MySQL tuned
- Apache prefork clients  
(70% of mem)
- PHP 5.2.6
- Drupal 6
- Memcache
- Varnish
- Server Density





# Functionality & solutions

Hat-tip to Hedley Smith from earlier OxDUG meetup

## Functionality:

- Many domains
- Field display/edit
- Menus
- Search
- Web fonts
- Workflow
- Re-use/deployment

## Solution:

- Domain Access
- DS & vertical tabs
- Nice menu, menu block
- Apache Solr & Tika
- @fontyourface
- Rules
- Features



# Clever theming

## “Childing” themes

- Mothership
  - Base child theme
    - LFHW Scotland
    - Gateway
    - Four other almost empty child themes
- Less CSS
- CSS structure & YUI
- Grid & style guide
- Mobile & print stylesheets
- IE stylesheets (mothership)
- Really good images



# Media management

- Document management
  - Documents as nodes
  - Noderelationships
- Image management
  - Images as nodes
  - Image browser plus hacks
  - Noderelationships
  - Dedicated image-friendly views
- Video & audio coming soon using emfield



# Content type features

- CCK redirects
- Webform
- News items
- Blog with comments
- Events
- Hints & tips
- Advertisement
- Sponsorships



# More complex features

- |                          |                   |
|--------------------------|-------------------|
| • Gateway homepage       | Views plugin + JS |
| • National homepages     | DS & Views        |
| • Section indexes        | DS & Views        |
| • Recipes                | DS & Views        |
| • Two-week menu planners | DS & theme        |



# Completely custom features

- Portion planners
- Save/reset national preferences
- Background image as CSS



# Other bits & pieces

- Google Analytics
- XML Sitemap
- WYSIWYG
  - TinyMCE
  - Better Formats
- ImageCache
- jCarousel
- Fivestar
- Standards
  - HTML5 & shim
  - CSS3
  - (Less CSS helps)



# Successes

- Went live!
  - Initial traffic “404 heavy”
  - Server behaved well
- Operating load avg per CPU = 0.1-0.4
- Increase in traffic?
  - Too early to tell
- DOS attack: today!
- Chinese IP address
- POSTs circumvent Varnish
- Two hours before noticed!
- Load avg high: Apache tuning kept server up

