

# Re-engineering the Website

# The Current Site

- Simple HTML
- Was one page - now meeting split onto own pages with links
- All talk data embedded directly in HTML

# What is wrong with this ?

- Have to edit HTML files directly
- Very inflexible - hard to change look and feel
- Basically one page which is user unfriendly
- No link validation

# What I want to do

- Split out talks and any other data into a simple format - (YAML)
- use a Makefile to build cross referenced data structure and validate links
- use Templates to render pages using info from data structure

# Steps

- Analyse existing site to extract talks data - used HTML::TreeBuilder
- Generate YAML files, one for each meeting
- Build data structure from YAML validating data and dump to a data file
- In web code - “do <data file>” to get data into data structure and load into cache for Templates to use

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- date: 'Tuesday, 6th September 2011'

desc: Our sixteenth technical meeting took place place

location: the Open University

month: September

talks:

- author: Colin Bradford

desc: ElasticSearch

href: <static/talks/2011/09/elasticsearch.pdf>

title: Colin's presentation on Elastic Search

- author: Tony Edwardson

desc: An Introduction to Perl6

href: <static/talks/2011/09/perl6.pdf>

title: Tony's presentation on Perl 6

- author: Tom Hukins

desc: Testing for Systems administration

- author: Tony Edwardson

desc: Managing Multiple Perl installations in your \$HOME with App::perlbrew

href: <static/talks/2011/09/perlbrew.pdf>

title: Tony's presentation on App::perlbrew

year: 2011

```
#!/usr/bin/env perl
```

```
use YAML qw/LoadFile/;  
use Data::Dumper;  
use Date::Calc qw/ Decode_Month /;  
use FileHandle;
```

```
my %talks = ();
```

```
foreach my $file (<*.yaml>) {  
    say $file;  
    my $yaml = LoadFile($file);  
    foreach my $meeting (@{ $yaml }) {  
        my $month = Decode_Month( $meeting->{month} );  
        $talks{by_date}{ $meeting->{year} }{ $month } = { %{ $meeting } };  
        foreach my $talk (@{ $meeting->{talks} }) {  
            $talks{by_author}{ $talk->{author} } { $meeting->{year} }{ $month } ||= [];  
            $talk->{month} = $meeting->{month};  
            push(@{ $talks{by_author}{ $talk->{author} } { $meeting->{year} }{ $month } }, { %{ $talk } });  
        }  
    }  
}  
  
my $fh = FileHandle->new(">talks.data");  
$fh->print(Data::Dumper->Dump([\%talks], [qw/$talks/]));  
$fh->close;
```

```
$talks = {
  'by_date' => {
    '2007' => {
      '11' => {
        'location' => 'the Open University',
        'date' => 'Thursday, 15th November 2007',
        'desc' => 'Our fifth technical meeting took place',
        'month' => 'November',
        'talks' => [
          {
            'month' => 'November',
            'href' => '/static/talks/2007/11/dave_cross_tt_intro/',
            'desc' => 'An Introduction to the Template Toolkit',
            'title' => 'Slides for Introduction to Template Toolkit (HTML)',
            'author' => 'Dave Cross'
          },
          {
            'month' => 'November',
            'href' => 'http://www.tnmoc.co.uk/',
            'desc' => 'Projects at the National Museum of Computing',
            'title' => 'The National Museum of Computing\'s Web Site',
            'author' => 'Adam Lowe'
          }
        ],
        'year' => '2007'
      },
      '4' => {
```



```
sub index :Path :Args(0) {  
  my ( $self, $c ) = @_  
  
  our $talks;  
  do $ENV{HOME}.'/MKPM/root/static/talks.data';  
  
  $c->stash( talks => $talks,  
            template => 'index.tt');  
  $c->forward( $c->view('TT') );  
}
```

```
[% WRAPPER page.tt title = c.config.name ; END %]
```

```
<body>
```

```
<div id="header">
```

```
  <h1>Milton Keynes Perl Mongers</h1>
```

```
</div>
```

```
<div id="myslidemenu" class="jqueryslidemenu">
```

```
<ul>
```

```
  <li><a href="/">Home</a></li>
```

```
  <li><a href="/contact">Contact</a></li>
```

```
  <li><a href="/talks">Talks</a>
```

```
  <ul>
```

```
    <li><a href="/talks">By Date</a>
```

```
      <ul>
```

```
        [% FOREACH year IN talks.by_date.keys.sort -%]
```

```
          <li><a href="#">[% year %]</a>
```

```
            <ul>
```

```
              [% FOREACH month IN talks.by_date.$year.keys.nsort -%]
```

```
                <li><a href="#">[% talks.by_date.$year.$month.month %]</a>
```

```
                  <ul>
```

```
                    [% FOREACH talk IN talks.by_date.$year.$month.talks -%]
```

```
                      <li><a href="[% talk.href %]" target="_blank">[% talk.author %] - [% talk.desc %]</a></li>
```

```
                    [% END -%]
```

```
                  </ul>
```

```
                </li>
```

```
              [% END -%]
```

```
            </ul>
```

```
          </li>
```

```
        [% END -%]
```

```
      </ul>
```

```
    </li>
```

```
    <li><a href="/talks">By Author</a>
```

```
.....
```

```
<!--Force IE6 into quirks mode with this comment tag-->
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" lang="en" xml:lang="en">
<head>
<meta http-equiv="Content-Type" content="text/html; charset=iso-8859-1" />
<title>Milton Keynes Perl Mongers</title>
<link rel="icon" href="static/images/favicon.ico">
<link rel="stylesheet" type="text/css" href="static/css/site.css">
<link rel="stylesheet" type="text/css" href="static/css/jqueryslidemenu.css" />

<!--[if lte IE 7]>
<style type="text/css">
html .jqueryslidemenu{height: 1%;} /*Holly Hack for IE7 and below*/
</style>
<![endif]-->

<script type="text/javascript" src="static/jquery/jquery.min.js"></script>
<script type="text/javascript" src="static/javascript/jqueryslidemenu.js"></script>
</head>
```