Umbraco Anti-Patterns

Popular Umbraco Gold Partner Moriyama

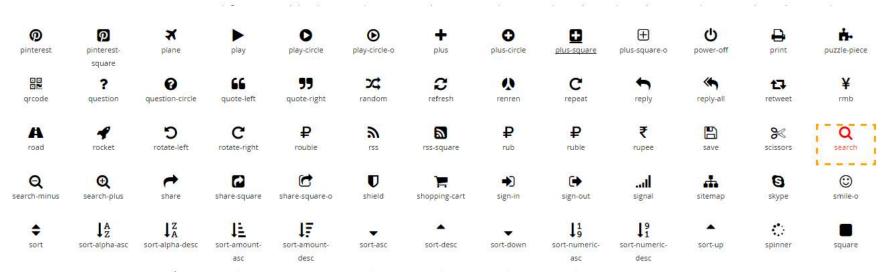
@marcemarc

Umbraco Trainer



Moriyama

uCssClassNameDropdown



Q search

Return to list Preview

Save and publish

-	_	_	_	_	_	_	_		-	-	_	_	_	_		_	-	_	_	_				_	_	
	Г	Т	Т																							
	T	\top	T	\exists																-	+	1				
	T	\top	Ť	\forall																7						
	†	+	†	\forall															7							
	$^{+}$	+	$^{+}$	\forall														7								
_	+	+	+	\forall	\neg												$\overline{}$									
_	+	+	+	\dashv																						
	+	+	+	\dashv																						
_	+	+	+	\dashv	_						<i>-</i>															
_	+	+	+	-	-																					
_	+	+	+	+	_					/				_												
_	╀	+	+	-																						
	╀	+	+	-	_																					
	╀	+	+	_																						
	╀	+	4	_				_/																		
	╙	\perp	1		Δ			\bigvee_{A}																		
	L	\perp	_	4				U																		
	L	4	1	_																						
			T																							

			V.															
_																		Ш
_					V													
										_								Ш
																		Ш
											_							Ш
												_		<u>.</u>				Ш
													_	_				Ш
_																		Ш
_																		Ш
_																		Ш
_																		Ш
_																		Ш
4																		Ш
4																	Ш	Ш

But what is this talk about?

Not Learn by Doing...

Learn by Don't-ing™

We learn from our mistakes, far more than we learn when things go well...

Sites and names have been changed to protect the innocent...

... but all these cases are real actual Umbraco sites that I have encountered.

Case 1 – Misusing Umbraco Properties

... and not knowing when to stop and refactor.

TRAVEL BOOKING

THE DESTINATION OF YOUR DREAM IS JUST A CLICK AWAY



CRUISE DEAL ALERT!

TRENDING CRUISES	NIGHTS	FROM
Baja Catifornia - Long Beach Round-Trip	4	\$249
E. Caribbean - Miami Round-Trip	7	\$299
Bahamas - Miami Round-Trip	4	\$129
E. Caribbean - Miami Round-Trip	7	\$329
W. Caribbean - Ft. Lauderdale Round-Trip	7	\$649
Bahamas - New York Round-Trip	5	\$324
E. Caribbean - New York Round-Trip	9	\$324
S. Caribbean - Miami Round-Trip	11	\$349

FEATURED PROMOTIONS & DESTINATIONS



Sed in lacus

Praese vestibulum aenean noummy hendrerit mauris. Cum sociis natoqu



Quis autem vel eum

Praese vestibulum aenea noummy hendrerit mauri Cum sociis natoqu



Illum qui dolorem

Praese vestibulum aenean noummy hendrerit mauris. Cum sociis natoqu

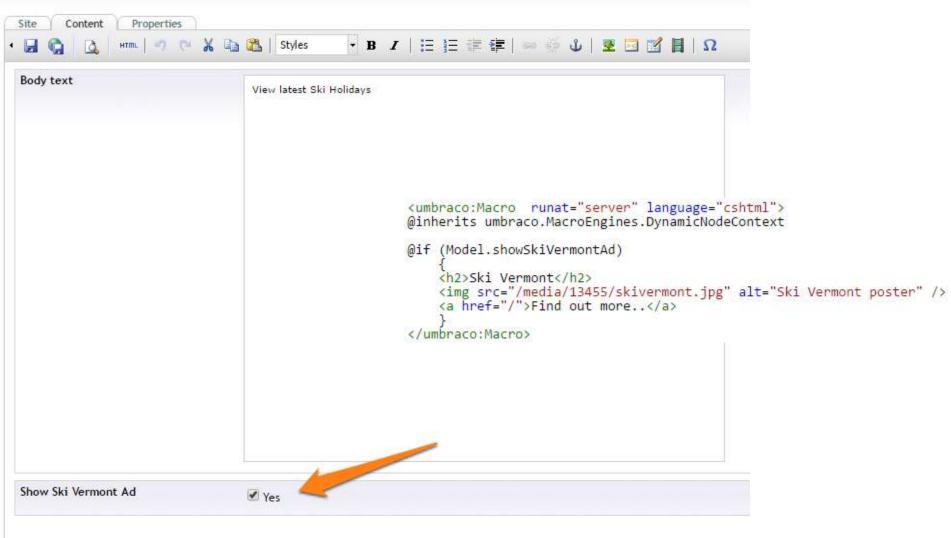


Vestibulum sed ante

Praese vestibulum aenean noummy bendrorit mauris Cum sociis nataga



OUR FAVORITE CRUISE LINE OFFERS



I KAVEL BUUKING

THE DESTINATION OF YOUR DREAM IS JUST A CLICK AWAY



CRUISE DEAL ALERT!

TRENDING CRUISES	NIGHTS	FROM
Baja California - Long Beach Round-Trip	4	\$249
E. Caribbean - Miami Round-Trip	7	\$299
Bahamas - Miami Round-Trip	4	\$129
E. Caribbean - Miami Round-Trip	7	\$329
W. Caribbean - Ft. Lauderdale Round-Trip	7	\$649
Bahamas - New York Round-Trip	5	\$324
E. Caribbean - New York Round-Trip	9	\$324
S. Caribbean - Miami Round-Trip	11	\$349
Hawaii - Honolulu Round-Trip	9	5999
Mexican Riviera - Los Angeles Round-Trip	9	\$649

FEATURED PROMOTIONS & DESTINATIONS



Sed in lacus

Praese vestibulum aenean noummy hendrerit mauris. Cum socils natoqu



Quis autem vel eum

Waese vestibulum aenean noummy hondrerit mauris. Cum sociis natogu ...



Illum qui dolorem

Praese vestibulum aenean noummy hendrerit mauris. Cum sociis natoqu....



Vestibulum sed ante

Staese vestibulum aenean noummy hendrerit mauris. Cum sociis natoqu....

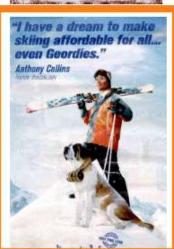
OUR FAVORITE CRUISE LINE OFFERS

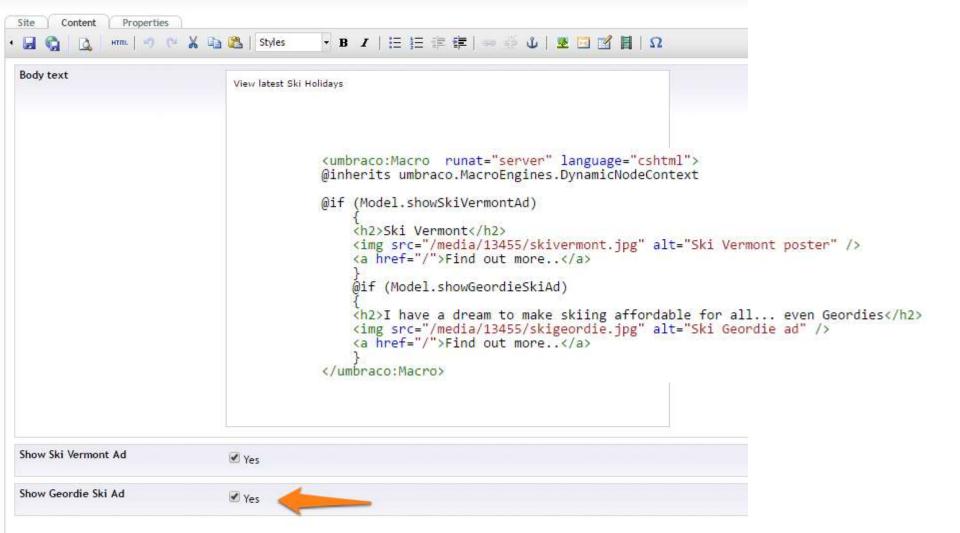


Nemo enim ipsam voluptatem quia voluptas sit dolore magnam aliquam quaerat volupta.

Proin dictum elementum vellt. Fusce edismod consequat ante. Lorem Ipsum dolor sit amet, consectatuer adipiscing elit. Pellentesque sed dolor. Aliquam conque femientum nisi. Mauris accumsan multa vel diam. Sed in lacus ut enim adipiscing attiquet. Nulla versonatis.







	No.		
Show Ski Vermont Ad	⊘ Yes		
Show Geordie Ski Ad	Yes		
	-		
Visit Fanoe Blue Blue	☐ Yes		
Visit Fanoe Red	⊘ Yes		
Red	- 10,		
Visit Fanoe White	Yes		
MICAS			

Visit Fanoe Blue Blue	Yes	
Visit Fanoe Red	☐ Yes	
Visit Fanoe White White	☐ Yes	
Show Advert 1	Yes	
Show Advert 2	☑ Yes	
Show Advert 3	Yes	
Show Advert 4	Yes	
Show Advert 5	Yes	
Show Advert 6	Yes	
Show Advert 7	☐ Yes	
Show Advert 8	☐ Yes	
Show Advert 09 Show advert ref 09	✓ Yes	
Show Advert 10 Show advert ref 10	☐ Yes	

it doesn't stop here	

Show Advert 09 Yes Yes Show advert ref 09 Show Advert 10 Yes Show advert ref 10 Show Advert 11 Yes Show Advert 12 Yes Show Advert 13 Yes Show Advert 14 Yes Show Advert 15 Yes Yes Show Advert 16 Yes Show Advert 17 Yes Yes Show Advert 18 Yes Show Advert 19 Yes Yes Show Advert 20 Yes Yes

	Show Advert 19	☐ Yes
Or here	Show Advert 20	Yes
	Show Advert 21	✓ Yes
	Show Advert 22	✓ Yes
	Show Advert 23	✓ Yes
	Show Advert 24	✓ Yes
	Show Advert 25	✓ Yes
	Show Advert 26	✓ Yes
	Show Advert 27	✓ Yes
	Show Advert 28	✓ Yes
	Show Advert 29	✓ Yes
	Show Advert 30	✓ Yes

but it does stop here:



If's forever...

```
<umbraco:Macro runat="server" language="cshtml">
@inherits umbraco.MacroEngines.DynamicNodeContext
@if (Model.showSkiVermontAd)
    <h2>Ski Vermont</h2>
    <img src="/media/13455/skivermont.jpg" alt="Ski Vermont poster" />
    <a href="/">Find out more..</a>
    @if (Model.showGeordieSkiAd)
    <h2>I have a dream to make skiing affordable for all... even Geordies</h2>
    <img src="/media/13456/skigeordie.jpg" alt="Ski Geordie ad" />
    <a href="/">Find out more..</a>
        @if (Model.visitFanoeBlue)
    <h2 class="blue">Visit Fanoe</h2>
    <img src="/media/13457/fanoeblue.jpg" alt="Fanoe Blue Ad" />
    <a href="/">Find out more..</a>
        @if (Model.visitFanoeRed)
    <h2 class="red">Visit Fanoe</h2>
    <img src="/media/13458/fanoered.jpg" alt="Fanoe Red Ad" />
    <a href="/">Find out more..</a>
        @if (Model.visitFanoeWhite)
    <h2 class="white">Visit Fanoe</h2>
    <img src="/media/13459/fanoewhite.jpg" alt="Fanoe White Ad" />
    <a href="/">Find out more..</a>
        @if (Model.showAdvert1)
    <h2>Canada</h2>
    <img src="/media/13462/visit-canada.jpg" alt="Canada" />
    <a href="/">Find out more..</a>
        @if (Model.showAdvert2)
    <h2>Delights of the Danube Cruise</h2>
    <img src="/media/13465/danube-delights.jpg" alt="Danube Cruise" />
    <a href="/">Find out more..</a>
        @if (Model.showAdvert3)
    <h2>Monaco Grand Prix</h2>
    <img src="/media/13467/f1.jpg" alt="Monaco Grand Prix by coach" />
    <a href="/">Find out more..</a>
```

How on earth does this happen?

We can only speculate

If something works, we repeat it

It's an anti-pattern.

How could you do this?

Advert Doc Type + Multi-node Tree Picker ?

Custom Property Editor

The Grid

Nested Content

Google Ad Code

Anything but this...

```
Mitigating comments...
else
{
    // I'm sorry
    IEnumerable<int> ids = Tag.GetNodesWithTags(Request.QueryString["hallCaseStudies = new UmbracoHelper(UmbracoContext.Current).TypedCo
}
```

```
@using System.Globalization
@inherits Umbraco.Web.Mvc.UmbracoViewPage
@{
    // Sorry Marc :)
    var fieldsToHide = Convert.ToString(Umbraco.Field("fieldsToHide")).Split(',');
```

bool hasFormAdvisoryText = Umbraco.Field("formAdvisoryText", altText:"") != nul

Foundation + Bootstrap

```
<script src="/js/lib/jquery.fittext.js" type="text/javas</pre>
<script src="/js/lib/matchMedia.js" type="text/javascrip")</pre>
<script src="/js/lib/fixedfixed.js" type="text/javascrip"</pre>
<script src="/js/lib/picturefill.js" type="text/javascr:</pre>
<!-- help, they are making me do this -->
<script src="~/js/vendor/foundation.js"></script>
<script src="~/Scripts/bootstrap.min.js"></script>
<script src="/js/lib/svgeezy.js" type="text/javascript":</pre>
<script src="/js/init.js" type="text/javascript"></script"></script</pre>
```

```
21
                  // yes, this makes no sense to me either...
                  if (_Clients != null && _Clients.Count == 1)
22
23
24
25
26
27
                      foreach (ClientInfo client in _Clients.Values)
                           _CurrentClient = client;
                           break;
29
                      Session["CurrentClient"] = CurrentClient;
30
```

```
private static void ProcessLine(string line, int lineNumber)
    try
        List<string> cells = line.Split(',').ToList();
        if (cells.Count == 2)
            int id = Convert.ToInt32(cells[0]);
            string email = cells[1];
            //not sure why this method errors, but try.. catch fixes it
            CustomerImport.LegacyCustomerSoapClient webservice = new CustomerImpor
            bool imported = webservice.Import(id, email);
            if (imported) Log("Line " + lineNumber + " Imported");
            else Log("Line " + lineNumber + " NOT Imported");
        else
            Log("Line " + lineNumber + " has incorrect number of cells...");
  catch (Exception e)
        Log(e.Message);
```

Credit gar til Greystate

```
<!-- Fetch all the documents in one go (!) - Credit går til Greystate-->
<xsl:variable name="nodes" select="key('document-by-id', nodeId)" />
<xsl:for-each select="nodeId">
  <!-- Process the nodes in selected sort order - Credit går til Greystate-->
```

```
int i=0;
@foreach (var person in people){
    var imageUrl = Umbraco.TypedMedia(person.Id).Url;
        if (i%3==0){
            <div class="clear"></div>
    <div class="col-md-4">
        <a href="@person.Url">
            <h2>@person.Name</h2>
            <img src="@imageUrl" />
            <span class="jobtitle">@person.GetPropertyValue("jobTitle")</span>
        </a>
    </div>
    // add one to the value i
    i++;
```

Case Number 2 – Umbraco Versions

What exactly is your Versioning policy?

Rollback

Sooo Umbraco saves a version in the database for every change in content forever, so you can rollback:

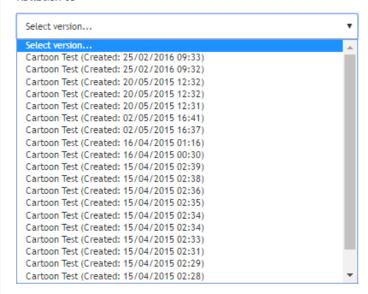
Rollback

Select a version to compare with the current version

Current version

Cartoon Test (Created: 25/02/2016 09:33)

Rollback to

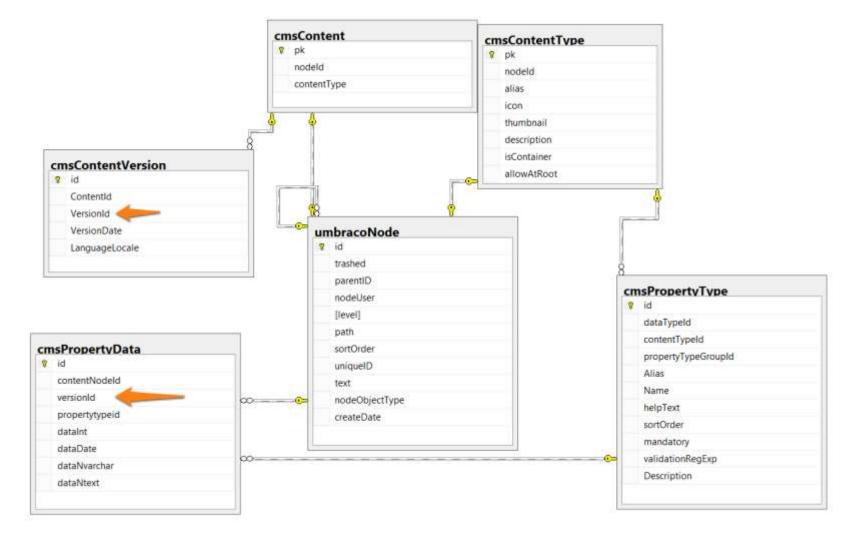


What's the anti-pattern here?

What if you are programmatically updating content?

No version?

Version!



Tour booking site

Copenhagen, Lübeck And Münster Christmas Markets





Duration: 7 day(s)
Board Basis: Mixed Board

7 days from £609

Departure Points

Southport \$

£609.00 per person

Holiday Summary

Travel: Coach

More Info

Explore Germany's Baltic Coast, Denmark, Copenhagen & Lubeck

Denmark



Duration: 12 day(s)
Board Basis: Mixed Board

Explore this undiscovered corner of
Germany, with its pretty harbour towns,
crystal blue waters and tranquil villages. Our
itinerary also takes in the delights of the
Danish capital, Copenhagen and Lubeck,
Queen of the Hanseatic Cities. 12 days f...

Departure Points

Southport \$

Available dates

Available dates

£1,195.00

Holiday Summary

Travel: Coach

More Info

14,006,050

rows



How to resolve...

Our - Projects - Website utilities

₩-37 setun

Short term: UnVersion

UnVersion

SUMMARY

This package automatically removes any previous versions for those times when a version history aren't important, and you don't want to take up the database space.

With Umbraco being such a versatile platform, it's very easy to develop small scale apps that go beyond the regular "Content" paradim. In some situations, version history becomes unimportant, and a waste, so this package automatically cleans up any previous versions when a new version is published.

HOW TO USE

The package is configured via an unVersion.config file located in the default umbraco config folder.

To define a new unversion rule, create an add element with the following attributes.

docTypeAlias [Optional] - The doc type alias of the documents to be unversioned, if undefined, applies to all (If you don't define docTypeAlias, it is advised you define rootXpath to narrow down the scope of the unversion).

rootXpath [Optional] - An xpath statment to define the root folder for the unversion rule, ie: //NewsIndex

maxDays [Optional] - The maximum number of days to keep versions. If attribute is not present, defaults to int. MaxValue (Pre v2.0 defaults to 0, so bare this in mind).

maxCount [Optional] - The maximum number of latest versions to keep. If attribute is not present, defaults to int.MaxValue (Pre v2.0 defaults to 0, so bare this in mind).



Project owner



Matt Brailsford Matt has 8222 karma points

Project Compatibility

This project is compatible with the following vers as reported by community members who have downloaded this package:

7.2 x (100%) 7.1.x (100%)

Report compatibility

Project Information

Project owner: Matt Brailsford

Long Term

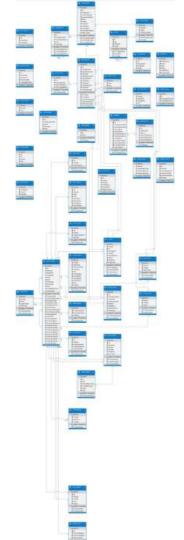
Rethink and re-architect the solution

So if Marc inherits my site in the future how can I make it a lot easier for him?

Some quickfire don'ts...

- Don't use only one document type for every page on the site
- Don't create a new document type for every single page
- Don't mix your naming conventions for alias Uppercase/Lowercase stick to it
- Don't fire off a thousand things to happen on a content publish event (and complain that publish is slow)
- Don't use the Content Service to pull back content to display on your website (it's for CRUD only)
- Don't use the Entity Framework to access Umbraco database tables directly...

Entity framework diagram For the Umbraco db



- Don't rely on Umbraco. TypedMedia it is not magic
 Umbraco. TypedMedia (id). Url has the capacity to YSOD
- · Don't not check for nulls!

```
var thing = Umbraco.TypedContent(1234);
@if (thing != null){
  <h2>@thing.Name</h2>
```

I still see Umbraco Logos...

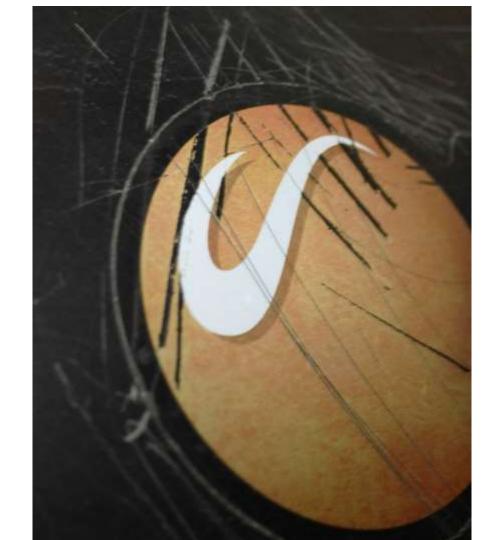
... all the time

uDentistsLogo





uVendingMachineSticker



uPintHandle



Case 3 – Examining Examine

Or Examine + Linq does not really support IQueryable...

Simple search with Umbraco TypedSearch

```
@{
     var searchResults = Umbraco.TypedSearch("fish").Where(f=>f.DocumentTypeAlias == "NewsArticle");
     var searchCount = searchResults.Count();
     foreach(var searchResult in searchResults)
         <h2>@searchResult.Name</h2>
string searchTerm = "fish";
var searcher = ExamineManager.Instance.SearchProviderCollection["ExternalSearcher"];
ISearchCriteria criteria = searcher.CreateSearchCriteria(BooleanOperation.Or);
var result = criteria.GroupedOr(new string[] { "title", "bodyText" }, searchTerm).And().NodeTypeAlias("NewsArticle");
//...
// lots more complex Or conditions and boosting etc
//...
ISearchResults searchResults = searcher.Search(result.Compile());
var itemCount = searchResults.TotalItemCount:
```

Specialist Print Magazine - 16 years of news articles



So close...

```
ISearchResults results = ArticleSearchHelper.Search(model.Keywords, model.OrderBy, model.ArticleTags, model.Region
model.TotalResultCount = results.TotalItemCount;
foreach (var result in results)
    IPublishedContent page = Umbraco.TypedContent(result.Id);
    CustomSearchResult searchResult = new CustomSearchResult();
    if (page != null)
        // do stuff - get url of related image etc
        model.SearchResults.Add(searchResult);
model.SearchResults = model.SearchResults.Skip(model.PageSize*(model.Page - 1)).Take(model.PageSize).ToList();
return PartialView("ArticleSearch", model);
```

Speedy Speed IIS Module

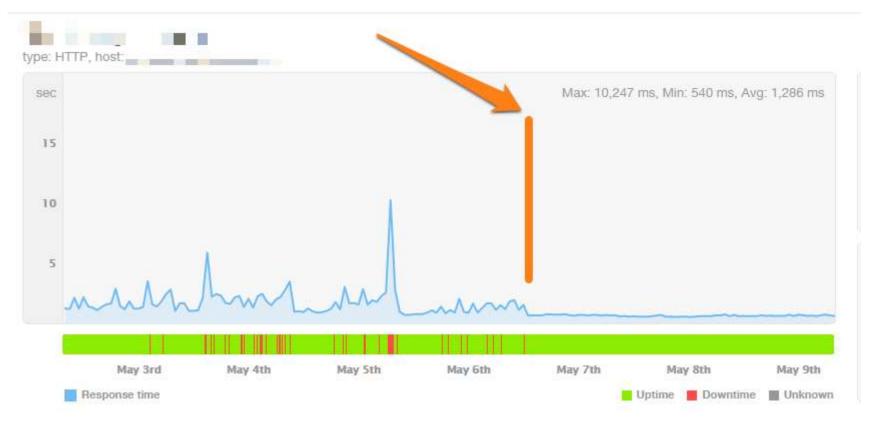
Official Google Pagespeedy speed Speed Optimisation for Microsoft IIS

// model.SearchResults = model.SearchResults.Skip(model.PageSize*(model.Page - 1)).Take(model.PageSize).ToList();

// do stuff - get url of related image etc
model.SearchResults.Add(searchResult);

return PartialView("ArticleSearch", model);

Speedy Speed IIS Module Irony



Umbraco Street Bingo

Spotting Umbraco logos is one thing...

Courier



Concierge



Contour



POCO Classes



uSinc?



Case 4 - Last minute changes

Can we just...

Imagine a travel site...

```
$("#industry").change(function () {
    var subIndustryList = $("#subindustry");
    // clear subindustry list
    subIndustryList.html('');
    // get selected item
    selectedIndustryId = $(this).val();
    if (selectedIndustryId != '') {
        // get list of child options for selected parent
        $.get("/umbraco/api/Industry/List", { id: selectedIndustryId, culture: '@CultureInfo.CurrentCulture'}, func
           // if no children, add current parent as option to child list
            if (data == null | data.length == 0) {
                subIndustryList.append('<option value="' + jQuery(this).val() + '">' + jQuery(this).text() + '</opt
                                  // if lots of children, add each child to child list
           else {
                $.each(data, function (index, element) {
                    subIndustryList.append('<option value="' + element.Key + '">' + element.Value + '</option>');
                });
```

```
});
     });
-</script>
+<script src="/scripts/campaignForm.js" type="text/javascript"></script>
  @Html.Partial("JqueryValidationErrorMessages")
  $.get("/umbraco/api/Industry/List", { id:
```

selectedIndustryId, culture: '@CultureInfo.CurrentCulture'}

Peer review

... software testing alone has limited effectiveness...

the average effectiveness of design and code inspections in finding problems is:

between 55 and 60 percent**

(** a meaningless figure plucked from the internet):

How do we find ourselves in these situations?

It's all about context but consider these questions...

How long will it take you to?

Could you just?

When will this be done?

If you ask a developer how long?

2 Minutes...

... half a day...

Maybe 3 days...

When is something actually done?

Does Done mean Done?

Is it 'Done Done'?

We live in an era of relentless positivity...





When was the last time as a developer you said...



Do I say **CS** too often?

The End

Sorry,

Fail...fail fast... fail often, bask in your failure, you are learning!

Come on the Official Umbraco Training!

Be as awesome as you care to be...

And find someone you like, and who likes you, to talk through your code with

Please leave comments in your code for future version of me to smile at...