SharePoint Cincy
June 6th, 2014

Welcome To

**SharePoint's New Swiss Army Knife:
The Content Search Web Part**

Speaker: Sean McDonough (@spmcdonough)

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SharePoint's New Swiss Army Knife

The Content Search Web Part (CSWP)

Sean P. McDonough
Lead Bitsmith and Owner
Bitstream Foundry LLC

bitstream FOUNDRY

My background

My company

Sean P. McDonough
Lead Bitsmith and Owner
Bitstream Foundry LLC

My background

- Developing software since mid '90s

- Working with SharePoint since 2004

- Many roles: developer, administrator, product manager, evangelist, and more

- Community focus: free solutions, writing, speaking, and mentoring

My company

- Started in early 2013

- Focus on SharePoint

- Deliver apps for SharePoint and the SharePoint ecosystem

- Doing custom development and infrastructure work to pay the bills

About **This Session**

- Introduce the Content Search Web Part (CSWP)
- Discuss how it works and what you need to use it
- Demonstrate common and not-so-common uses
- Investigate configuration and display options
- Identify strengths and weaknesses
- **Demos with Q&A throughout!**

- the CSWP is extremely versatile

- usable by novices and experts alike

- largely future-proof and cloud-ready

- a viable replacement for custom development in a number of scenarios

Why I'm Talking About the CSWP

- Introd
- Dis

Display basic
search results

Perform content rollups

Expose content dynamically and interactively

- the CSWP is extremely versatile

- usable by novices and experts alike

- largely future-proof and cloud-ready

- a viable replacement for custom development in a number of scenarios

Why I'm Talking About the CSWP

On-premises SharePoint 2013 Enterprise *and*

On-premises
SharePoint 2013
Enterprise

and

Office 365 Enterprise E3 & E4 Plans
Office 365 Education A3 & A4 Plans
Office 365 Government G3 & G4 Plans
SharePoint Online Plan 2

- the CSWP is extremely versatile

- usable by novices and experts alike

- largely future-proof and cloud-ready

- a viable replacement for custom development in a number of scenarios

Why I'm Talking About the CSWP

I'm mentioning development, but I'm not assuming you are a developer

This presentation is largely introductory ...

... with occasional dives into specific areas of interest to a variety of groups:
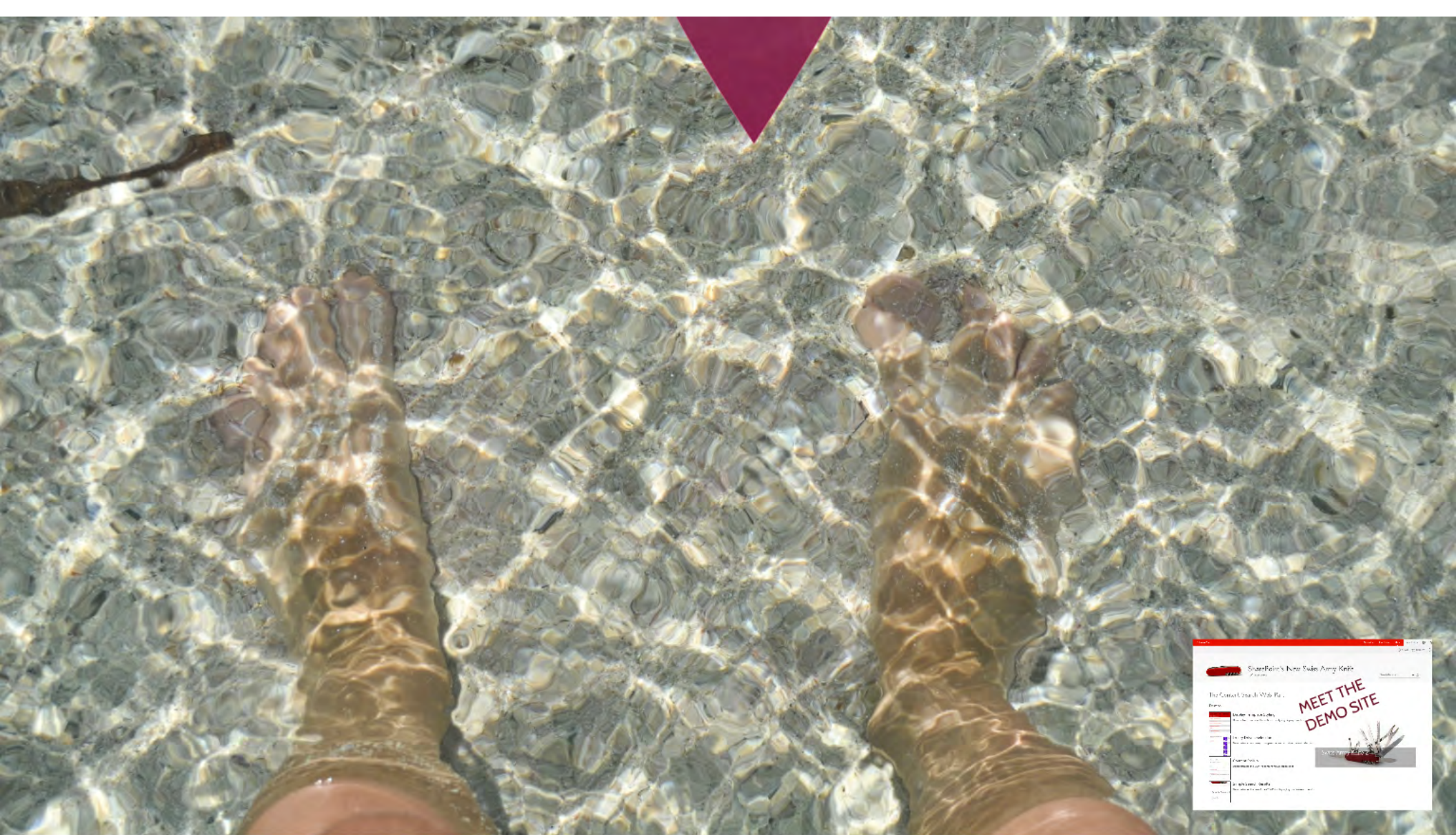
- designers
- developers
- end users
- power users

so, without further ado ...

Let's get our feet wet with some basics

- The CSWP is a web part ... obviously?

○ SHARE ☆ FOLLOW

SharePoint's New Swiss Army Knife

✎ EDIT LINKS

Search this site   ▾ 𝒪

The Content Search Web Part

Demos

Display Template Styling

Demonstrates some of the options for styling display templates
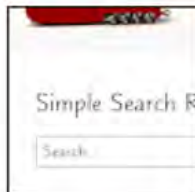
Query Driven Selection

Demonstrate how querystring parameters can drive content selection

Content Rollup

Demonstrates the CSWP's content rollup capabilities

Simple Search Results

Demonstrates the use of the CSWP for displaying simple search results.
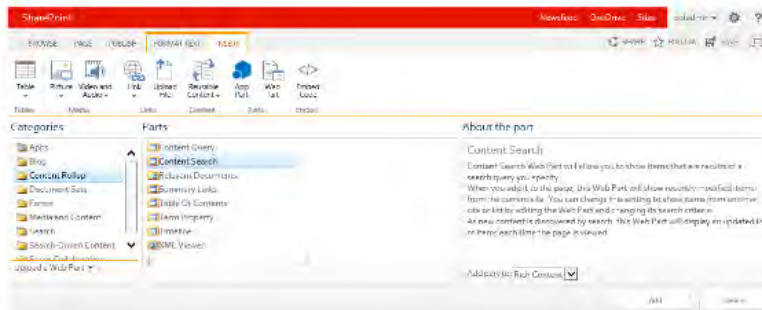
MEET THE DEMO SITE

Swiss Army Knife 2

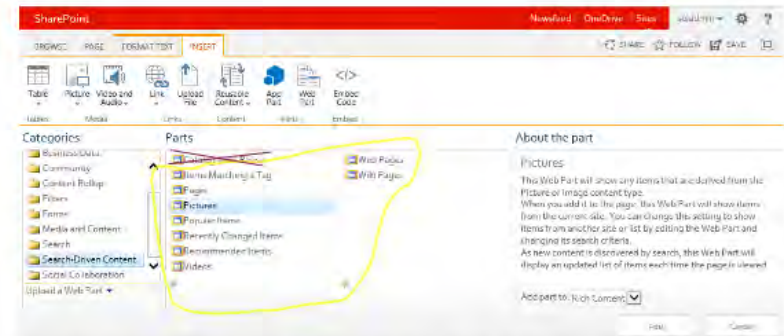# Let's get our feet wet with some basics

- The CSWP is a web part ... obviously?

- The content that it displays comes from a query that is run against the search index

- There are a multitude of levers and dials to control the content selected for display

- The manner in which content is displayed is highly configurable and styled easily

Actually, it's a family of web parts

It's hard to miss this one

But these are CSWPs, too

It's hard to miss this one

But these are CSWPs, too

Consider the Search-Driven Pictures Web Part ...

Web Part Gallery

	Type	Web Part	Edit	Modified	Modified By	Recommendation Settings
☐	📄	BlogAdmin.dwp 🆕 NEW	📝	5/26/2014 11:50 AM	☐ System Account	
	📄	BlogArchives.dwp 🆕 NEW	📝	5/26/2014 11:50 AM	☐ System Account	
	📄	BlogNotifications.webpart 🆕 NEW	📝	5/26/2014 11:50 AM	☐ System Account	
	📄	CatalogItemReuse.webpart 🆕 NEW	📝	5/26/2014 11:51 AM	☐ System Account	Search
	📄	CBS_Articles.webpart 🆕 NEW	📝	5/26/2014 11:51 AM	☐ System Account	Default
	📄	CBS_Pictures.webpart 🆕 NEW	📝	5/26/2014 11:51 AM	☐ System Account	Default
	📄	CBS_PopularItems.webpart 🆕 NEW	📝	5/26/2014 11:51 AM	☐ System Account	Default
	📄	CBS_RecentChanged.webpart 🆕 NEW	📝	5/26/2014 11:51 AM	☐ System Account	Default
	📄	CBS_RecommendedItems.webpart 🆕 NEW	📝	5/26/2014 11:51 AM	☐ System Account	Default
	📄	CBS_Tag.webpart 🆕 NEW	📝	5/26/2014 11:51 AM	☐ System Account	Default
	📄	CBS_Videos.webpart 🆕 NEW	📝	5/26/2014 11:51 AM	☐ System Account	Default
	📄	CBS_WebPages.webpart 🆕 NEW	📝	5/26/2014 11:51 AM	☐ System Account	Default
	📄	CBS_WikiPages.webpart 🆕 NEW	📝	5/26/2014 11:51 AM	☐ System Account	Default
	📄	ContentBySearch.webpart 🆕 NEW	📝	5/26/2014 11:51 AM	☐ System Account	Default
	📄	ContentQuery.webpart 🆕 NEW	📝	5/26/2014 11:51 AM	☐ System Account	Default
	📄	DocumentSetContents.dwp 🆕 NEW	📝	5/26/2014 11:51 AM	☐ System Account	
	📄	DocumentSetProperties.dwp 🆕 NEW	📝	5/26/2014 11:51 AM	☐ System Account	
	📄	GettingStarted.webpart 🆕 NEW	📝	5/26/2014 11:50 AM	☐ System Account	
	📄	Media.webpart 🆕 NEW	📝	5/26/2014 11:51 AM	☐ System Account	Default
	📄	Microsoft.Office.InfoPath.Server.BrowserForm.webpart 🆕 NEW	📝	5/26/2014 11:51 AM	☐ System Account	Dashboard
	📄	MSContentEditor.dwp 🆕 NEW	📝	5/26/2014 11:50 AM	☐ System Account	
	📄	MSImage.dwp 🆕 NEW	📝	5/26/2014 11:50 AM	☐ System Account	
	📄	MSMembers.dwp 🆕 NEW	📝	5/26/2014 11:50 AM	☐ System Account	

BlogArchives.dwp **NEW**

BlogNotifications.webpart **NEW**

CatalogItemReuse.webpart **NEW**

CBS_Articles.webpart **NEW**

CBS_Pictures.webpart **NEW**

CBS_PopularItems.webpart **NEW**

CBS_RecentChanged.webpart **NEW**

CBS_RecommendedItems.webpart **NEW**

CBS_Tag.webpart **NEW**

Web Part Gallery

Name *	CBS_Pictures ✕ .webpart
Title	$Resources:Microsoft.Office.Server.Search,CBS_Pictures_Title;
Description	$Resources:Microsoft.Office.Server.Search,CBS_Pictures_Description;

Group
- ○ Default Web Parts ⌄
- ● Specify your own value:
  - $Resources:Microsoft.Office
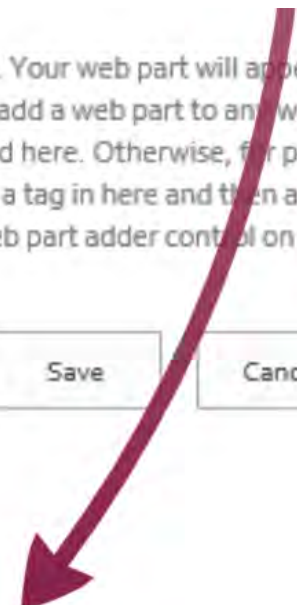
Recommendation Settings ☑ Specify your own value:

Default

Please specify site template names separated by ";#". Your web part will appear in "Recommended Items" category when a user tries to add a web part to any web part pages within sites using site templates mentioned here. Otherwise, for page level recommendations of web parts, you can include a tag in here and then add that same tag to "Recommended" property on the web part adder control on the page in question.

Created at 5/26/2014 11:51 AM by ☐ System Account
Last modified at 5/26/2014 11:51 AM by ☐ System Account

[Save] [Cancel]
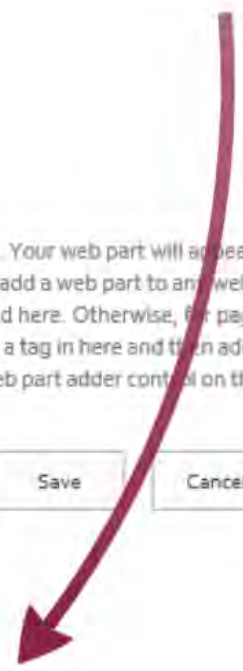
BROWSE   EDIT

Default

Please specify site template names separated by ";#". Your web part will appear in
"Recommended Items" category when a user tries to add a web part to any web
part pages within sites using site templates mentioned here. Otherwise, for page
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page in question.

Created at 5/26/2014 11:51 AM by ☐ System Account

Last modified at 5/26/2014 11:51 AM by ☐ System Account

Save   Cancel

BROWSE   EDIT

Save   Cancel   Paste   ✂ Cut   Delete   Export   View   Shared
                                📋 Copy   Item   Xml   With

Commit   Clipboard   Actions

version="1.0" encoding="utf-8"?>
Parts>
ebPart xmlns="http://schemas.microsoft.com/WebPart/v3">

```xml
1    <?xml version="1.0" encoding="utf-8"?>
2    <webParts>
3      <webPart xmlns="http://schemas.microsoft.com/WebPart/v3">
4        <metaData>
5          <type name=
            "Microsoft.Office.Server.Search.WebControls.ContentBySearchWebPart,Microsoft.Office.Server.Search,Version=15.0.0.0,Culture
            =neutral,PublicKeyToken=71e9bce111e9429c" />
6          <importErrorMessage>$Resources:core,ImportErrorMessage;</importErrorMessage>
7        </metaData>
8        <data>
9          <properties>
10           <property name="Title" type="string">$Resources:Microsoft.Office.Server.Search,CBS_Pictures_Title;</property>
11           <property name="Description" type="string">$Resources:Microsoft.Office.Server.Search,CBS_Pictures_Description;
             </property>
12           <property name="ChromeType">None</property>
13           <property name="AllowMinimize" type="bool">true</property>
14           <property name="AllowClose" type="bool">true</property>
15           <property name="Hidden" type="bool">false</property>
16           <property name="UseSimplifiedQueryBuilder" type="bool">true</property>
17           <property name="DataProviderJSON" type="string">
             {"Properties":{"TryCache":true,"Scope":"{Site.URL}"),"PropertiesJson":"{\"TryCache\":true,\"Scope\":\"{Site.URL}\"}","So
             urceId":"38403C8C-3975-41A8-826E-717F2D41568A"}</property>
18           <property name="ItemTemplateId" type="string">~sitecollection/_catalogs/masterpage/Display Templates/Content Web
             Parts/Item_LargePicture.js</property>
19           <property name="RenderTemplateId" type="string">~sitecollection/_catalogs/masterpage/Display Templates/Content Web
             Parts/Control_Slideshow.js</property>
20           <property name="NumberOfItems" type="int">10</property>
21           <property name="ResultsPerPage" type="int">10</property>
22         </properties>
23       </data>
24     </webPart>
25    </webParts>
```

```
tf-8"?>

s.microsoft.com/WebPart/v3">

Search.WebControls.ContentBySearchWebPart,Microsoft.Office.Se
1e9bce111e9429c" />
urces:core,ImportErrorMessage;</importErrorMessage>

type="string">$Resources:Microsoft.Office.Server.Search,CBS_
tion" type="string">$Resources:Microsoft.Office.Server.Search

ype">None</property>
nimize" type="bool">true</property>
```

Web Part Gallery

	Type	Web Part	Edit	Modified	Modified By	Recommendation Settings
☐					☐	
	📄	BlogAdmin.dwp ⬛ NEW	📝	5/26/2014 11:50 AM	☐ System Account	
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	📄	ContentBySearch.webpart ⬛ NEW	📝	5/26/2014 11:51 AM	☐ System Account	Default
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	📄	DocumentSetContents.dwp ⬛ NEW	📝	5/26/2014 11:51 AM	☐ System Account	
	📄	DocumentSetProperties.dwp ⬛ NEW	📝	5/26/2014 11:51 AM	☐ System Account	
	📄	GettingStarted.webpart ⬛ NEW	📝	5/26/2014 11:50 AM	☐ System Account	
	📄	Media.webpart ⬛ NEW	📝	5/26/2014 11:51 AM	☐ System Account	Default
	📄	Microsoft.Office.InfoPath.Server.BrowserForm.webpart ⬛ NEW	📝	5/26/2014 11:51 AM	☐ System Account	Dashboard
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	📄	MSImage.dwp ⬛ NEW	📝	5/26/2014 11:50 AM	☐ System Account	
	📄	MSMembers.dwp ⬛ NEW	📝	5/26/2014 11:50 AM	☐ System Account	

DEMO

Let's get our feet wet with some basics

- The CSWP is a web part ... obviously?

- The content that it displays comes from a query that is run against the search index

- There are a multitude of levers and dials to control the content selected for display

- The manner in which content is displayed is highly configurable and styled easily

Some implications

- If Search can reach the content (in or outside the farm), the CWSP can display it!

- Since Search is *FAST*, your results will come back fast, too (pardon the pun)

- Results are security trimmed for you

In case you were wondering ...

Yes, the CSWP can display "plain old search results"

So what's the difference between the CSWP

Yes, the CSWP can display "plain old search results"

So what's the difference between the CSWP and the Search Results Web Part (SRWP)?

- They are actually very similar in terms of capabilities

Yes, the CSWP can display "plain old search results"

So what's the difference between the CSWP and the Search Results Web Part (SRWP)?

- They are actually very similar in terms of capabilities

- CSWP has a few additional bells and whistles

- Most important: CSWP is end-user configurable

Let's get our feet wet with some basics

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Build Your Query

BASICS   REFINERS   SETTINGS   TEST

Learn how to build your query

Switch to Advanced Mode

SEARCH RESULT PREVIEW

Select a query
Choose what content you want to search by selecting a result source.

Recently changed items (System) ▾

Restrict by app
You can scope the search results to a specific site, library, list or URL.

Current site ▾

Restrict by tag
You can limit results to content tagged with specific terms, including site navigation terms.

◉ Don't restrict by any tag
○ Restrict by navigation term of current page
○ Restrict by current and child navigation terms
○ Restrict on this tag:

⊟ RelevantResults (126)
  Simple Search Results
    sp2013-dev:18580/SimpleSearchResults
  Content Rollup
    sp2013-dev:18580/ContentRollup
  Display Template Styling
    sp2013-dev:18580/DisplayTemplateStyling
  Query Driven Selection
    sp2013-dev:18580/QueryDrivenSelection
  Tinkering with the CSWP
    sp2013-dev:18580/Tinker
  pcgamer201201-dl
    sp2013-dev:18580/PC Gamer 2012/pcgamer201201-dl.pdf
  Echo
    sp2013-dev:18580/BunkerTuneage/DispForm.aspx?ID=77
  The Unicorn Song
    sp2013-dev:18580/BunkerTuneage/DispForm.aspx?ID=78
  Mother Nature
    sp2013-dev:18580/BunkerTuneage/DispForm.aspx?ID=79
  Closer
    sp2013-dev:18580/BunkerTuneage/DispForm.aspx?ID=64

OK   Cancel

The Query Builder

aka, "the greatest thing

Build Your Query

BASICS   REFINERS   SETTINGS   TEST

Learn how to build your query

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Select a query
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SEARCH RESULT PREVIEW

⊟ RelevantResults (126)
Simple Search Results
   sp2013-dev:18580/SimpleSearchResults
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Display Template Styling
   sp2013-dev:18580/DisplayTemplateStyling
Query Driven Selection
   sp2013-dev:18580/QueryDrivenSelection
Tinkering with the CSWP
   sp2013-dev:18580/Tinker
pcgamer201201-dl
   sp2013-dev:18580/PC Gamer 2012/pcgamer201201-dl.pdf
Echo
   sp2013-dev:18580/BunkerTuneage/DispForm.aspx?ID=77
The Unicorn Song
   sp2013-dev:18580/BunkerTuneage/DispForm.aspx?ID=78
Mother Nature
   sp2013-dev:18580/BunkerTuneage/DispForm.aspx?ID=79
Closer
   sp2013-dev:18580/BunkerTuneage/DispForm.aspx?ID=64

OK   Cancel

The Query Builder

aka, "the greatest thing since sliced bread"

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Display Templates "simplify" the process of modifying look and feel as well as behavior
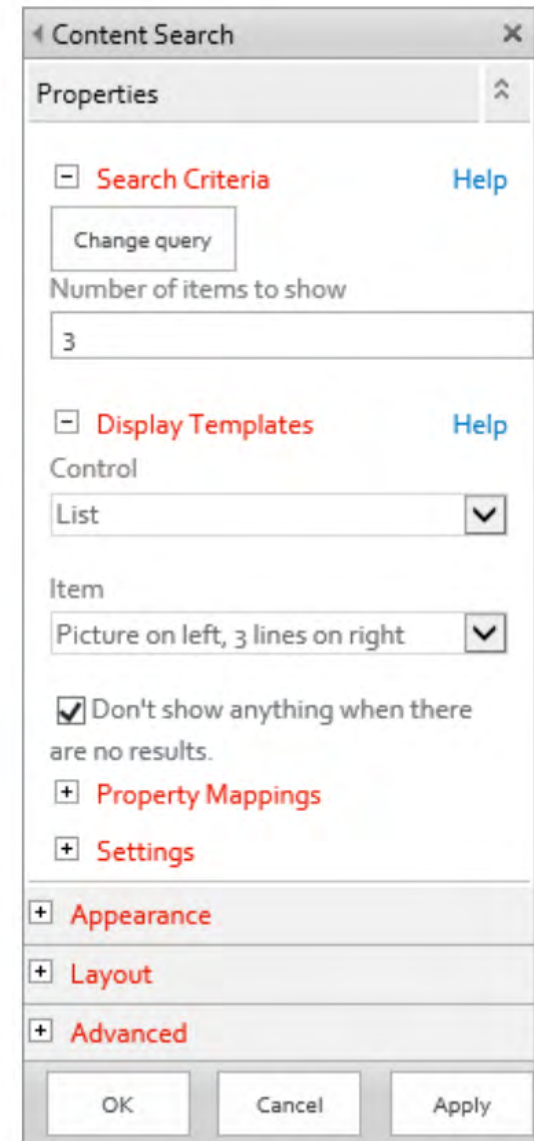
Content Search ✕

Properties

Search Criteria   Help

Change query

Number of items to show

3

Display Templates   Help

Control

List ▾

Item

Picture on left, 3 lines on right ▾

☑ Don't show anything when there are no results.

⊞ Property Mappings

⊞ Settings

⊞ Appearance

⊞ Layout

⊞ Advanced

OK   Cancel   Apply

Let's get our feet wet with some basics

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Plain old search results were a good start ... but they don't really showcase the CSWP
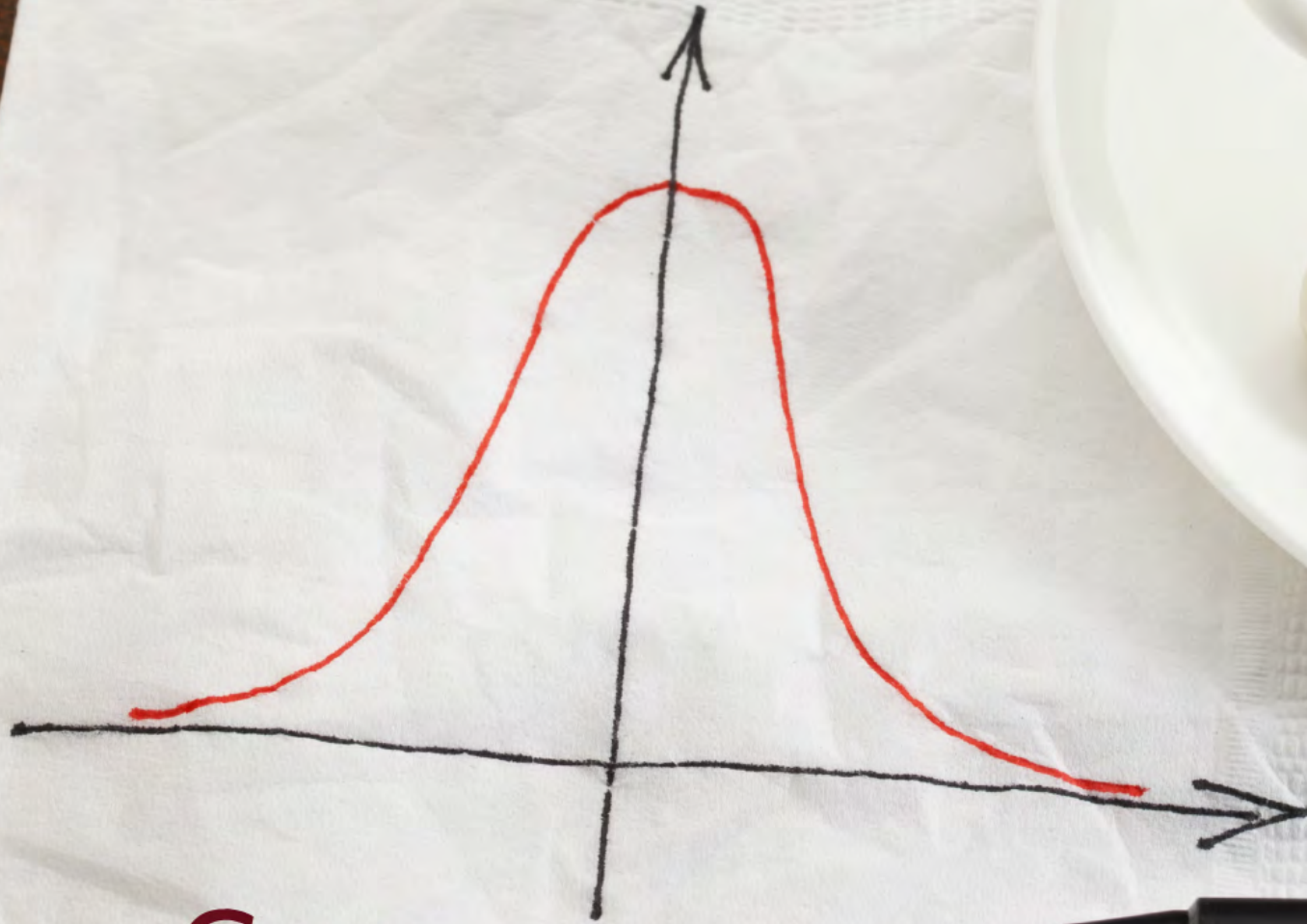
So what exactly do we mean by saying "content rollup?"

So what exactly do we mean by saying "content rollup?"

We're talking about content aggregation

Consider a
lone
document
library
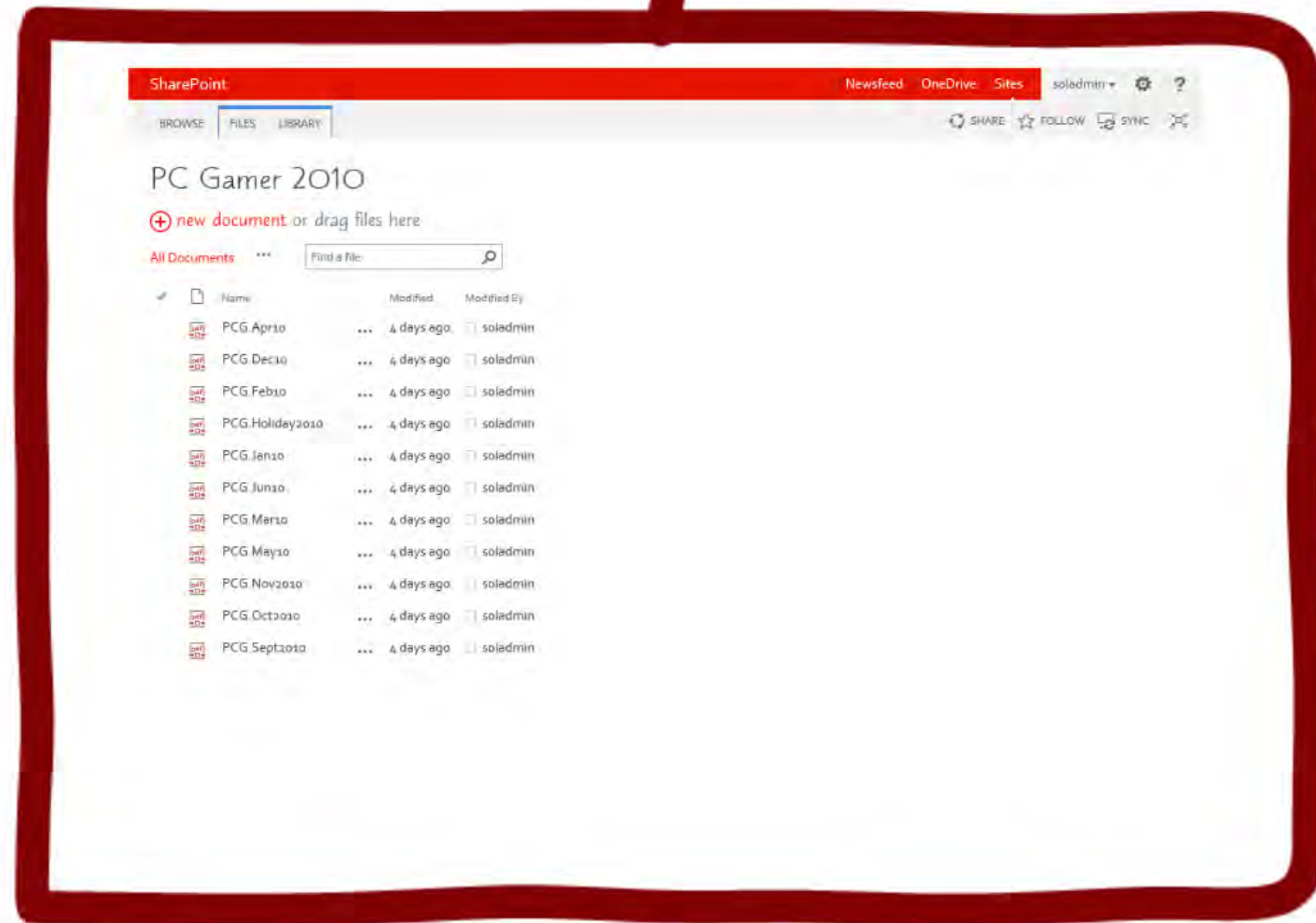
We can
display
content
using
(custom)
views

SharePoint

Newsfeed OneDrive Sites soladmin ▾ ⚙ ?

BROWSE FILES LIBRARY

◯ SHARE ☆ FOLLOW ▭ SYNC ⤢

PC Gamer 2010

⊕ new document or drag files here

All Documents ··· | Find a file | 🔍 |

✓	🗋	Name	Modified	Modified By
	🔲	PCG.Apr10	···	4 days ago	☐ soladmin
	🔲	PCG.Dec10	···	4 days ago	☐ soladmin
	🔲	PCG.Feb10	···	4 days ago	☐ soladmin
	🔲	PCG.Holiday2010	···	4 days ago	☐ soladmin
	🔲	PCG.Jan10	···	4 days ago	☐ soladmin
	🔲	PCG.Jun10	···	4 days ago	☐ soladmin
	🔲	PCG.Mar10	···	4 days ago	☐ soladmin
	🔲	PCG.May10	···	4 days ago	☐ soladmin
	🔲	PCG.Nov2010	···	4 days ago	☐ soladmin
	🔲	PCG.Oct2010	···	4 days ago	☐ soladmin
	🔲	PCG.Sept2010	···	4 days ago	☐ soladmin

Document Library

Document Library   Document Library

If we want to combine two or more libraries, views aren't an option

lection?

Within a site collection, we have a couple of options for aggregating and rolling-up content

CQWP **CSWP**

Content Query Web Part

Content Search Web Part

The Content Search Web Part

Content Rollup

Document Library

Document Library

Document Library

If we want to combine two or more libraries, views aren't an option

Wha

Within a site collection, we have a couple of options for aggregating and rolling-up content

CQWP

CSWP

Content Query Web Part

Content Search Web Part

- Aggregate, filter, and display contents from a list/library, site, or site collection via cross-list and cross-site queries

CSWP

Content Search Web Part

CQWP

Content Query Web Part
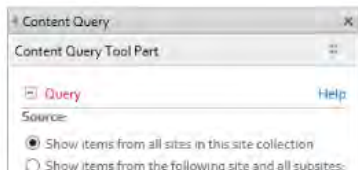
- Aggregate, filter, and display contents from a list/library, site, or site collection via cross-list and cross-site queries

Content Query Web Part

- Aggregate, filter, and display contents from a list/library, site, or site collection via cross-list and cross-site queries

- Part of SharePoint prior to current (2013) release

- Supports audiences and audience-based filtering

- Styling is difficult (you need to know XSLT)

- Support for dynamic behavior is very limited

- Queries can generate load and take time

Document Library

What happens when we have content in other site collections?

Site Collection

Content Rollup

Document Library

As mentioned, we can roll that content up within the site collection using a CQWP ...

happens when we have
t in other site collections?

DEMO

But what about
rolling-up content
across more than
one site collection?

Cross-Site Collection Rollup

Site Collection

Within a site collection,
we have a couple of
options for aggregating
and rolling-up content

CQWP   **CSWP**

'Content Query Web Part'   Content Search Web Part

Content Rollup

Site Collection

Content Rollup

Consider a
lone
document
library

We can
display
content
using
(custom)
views

Document Library   Document Library   Document Library

Document Library
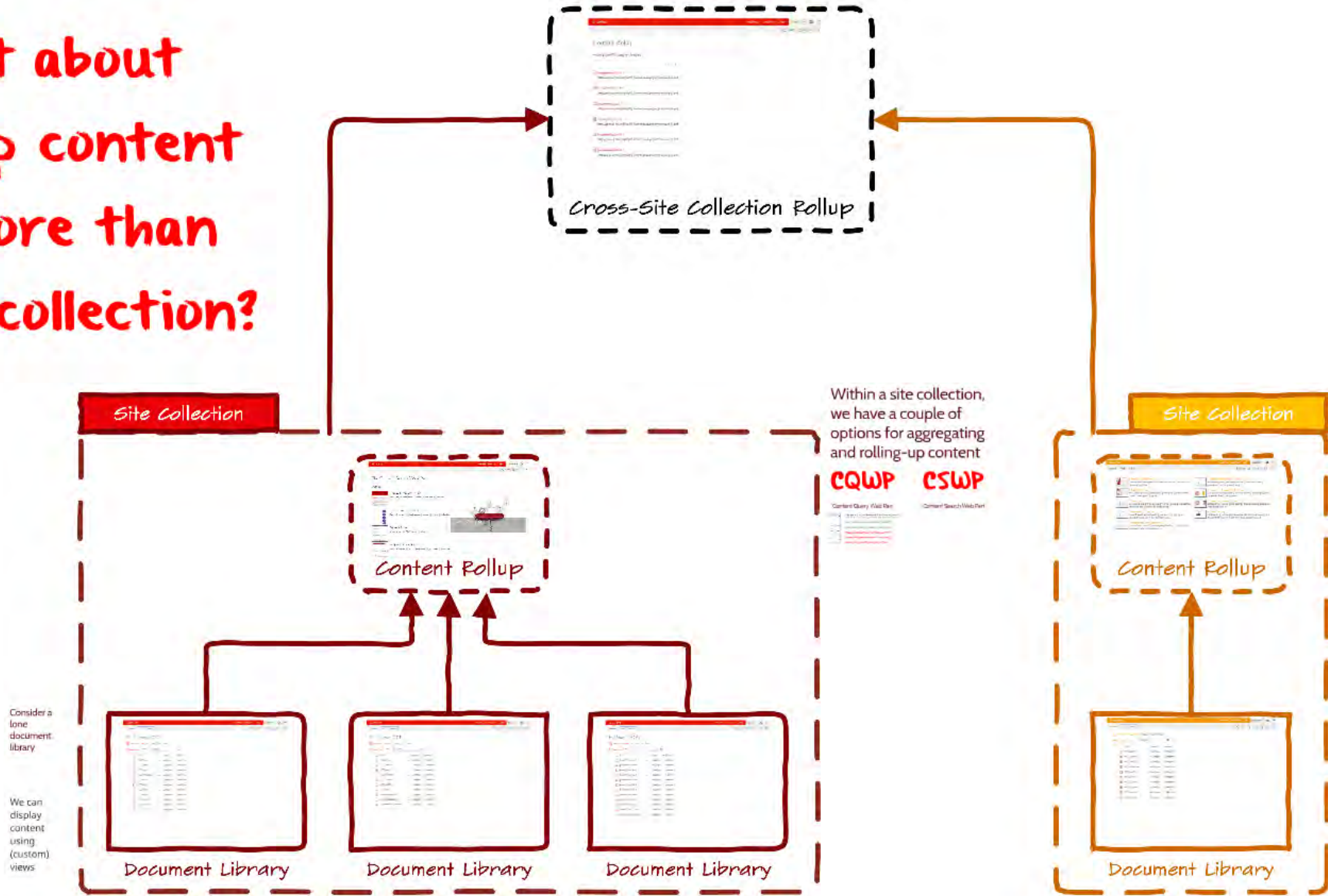
If we want to combine two or more libraries, views aren't an option

What happens when we ha
content in other site collect

I believe in presenting a balanced view

DEMO

Cross-Site Collection Rollup

strengths and weaknesses ...

I believe in presenting a balanced view

DEMO

Like anything else, the CSWP has its strengths and weaknesses ...

I believe in presenting a balanced view

... and it's fair to say that the CSWP has its own "kryptonite"

its own "kryptonite"

Don't panic, though - these are just constraints
to be mindful of as you work with the CSWP

But it goes

We're using Search!

- Fast

- Works beyond the boundaries of our farm

- Works with result sources and query rules we build

- Security trimmed

- Works on-prem and in the cloud
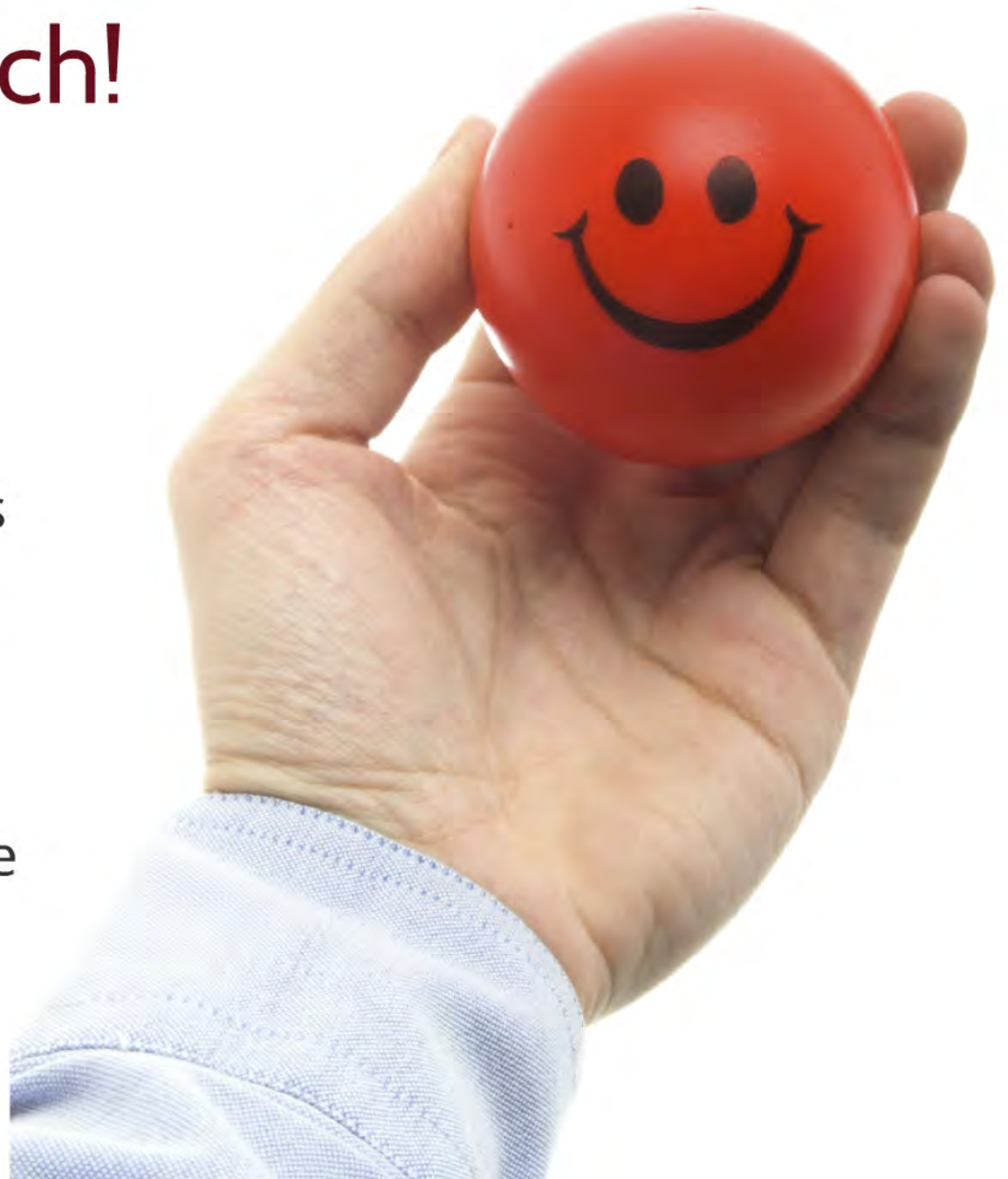
But it goes both ways ...

oth ways ...

We're using Search!

- If it hasn't been crawled, it's not available for display

- Major vs. minor versions*

- Content can be hidden and removed from indexes

- The "freshness" issue*

- Enterprise features required!

- If it hasn't been crawled, it's not available for display

- Major vs. minor versions*

- Content can be hidden and removed from indexes

- The "freshness" issue*

- Enterprise features required!

DEMO

We've covered the CSWP at a relatively high-level

Let's dig a little deeper in two key areas

1. The Query Builder

2. Display Templates

When working with

in two key areas

1. The Query Builder

2. Display Templates

When working with the CSWP, this is where you'll spend most of your time

Build Your Query

BASICS   REFINERS   SETTINGS   TEST

Learn how to build your query

Switch to Advanced Mode

Select a query
Choose what content you want to search by selecting a **result source**.

Recently changed items (System) ▾

Restrict by app
You can scope the search results to a specific site, library, list or URL.

Current site ▾

Restrict by tag
You can limit results to content tagged with specific terms, including site navigation terms.

◉ Don't restrict by any tag

◯ Restrict by navigation term of current page

◯ Restrict by current and child navigation terms

◯ Restrict on this tag:

SEARCH RESULT PREVIEW

⊟ RelevantResults (126)

   Simple Search Results
     sp2013-dev:18580/SimpleSearchResults

   Content Rollup
     sp2013-dev:18580/ContentRollup

   Display Template Styling
     sp2013-dev:18580/DisplayTemplateStyling

   Query Driven Selection
     sp2013-dev:18580/QueryDrivenSelection

   Tinkering with the CSWP
     sp2013-dev:18580/Tinker

   pcgamer201201-dl
     sp2013-dev:18580/PC Gamer 2012/pcgamer201201-dl.pdf

   Echo
     sp2013-dev:18580/BunkerTuneage/DispForm.aspx?ID=77

   The Unicorn Song
     sp2013-dev:18580/BunkerTuneage/DispForm.aspx?ID=78

   Mother Nature
     sp2013-dev:18580/BunkerTuneage/DispForm.aspx?ID=79

   Closer
     sp2013-dev:18580/BunkerTuneage/DispForm.aspx?ID=64

OK   Cancel

Build Your Query

BASICS REFINERS SORTING SETTINGS TEST

Switch to Quick Mode

SEARCH RESULT PREVIEW

⊟ RelevantResults (126)

Select a query
Choose what content you want to search by
selecting a result source.

Local SharePoint Results (System) ▾

pcgamer201202-dl
  sp2013-dev:18580/PC Gamer 2012/pcgamer201202-dl.pdf
pcgamer201203-dl
  sp2013-dev:18580/PC Gamer 2012/pcgamer201203-dl.pdf
pcgamer201204-dl
  sp2013-dev:18580/PC Gamer 2012/pcgamer201204-dl.pdf
pcgamer201205-dl
  sp2013-dev:18580/PC Gamer 2012/pcgamer201205-dl.pdf
pcgamer201206-dl
  sp2013-dev:18580/PC Gamer 2012/pcgamer201206-dl.pdf
pcgamer201208-dl
  sp2013-dev:18580/PC Gamer 2012/pcgamer201208-dl.pdf
pcgamer201209-dl
  sp2013-dev:18580/PC Gamer 2012/pcgamer201209-dl.pdf
pcgamer201210-dl
  sp2013-dev:18580/PC Gamer 2012/pcgamer201210-dl.pdf
pcgamer201211-dl
  sp2013-dev:18580/PC Gamer 2012/pcgamer201211-dl.pdf
pcgamer201212_opt-dl
  sp2013-dev:18580/pcgamer201212_opt-dl.pdf

Keyword filter

Query from the search box ▾

Add keyword filter

Property filter

Select property ▾

Contains ▾ Select value ▾

Add property filter

Query text

path:"http://sp2013-dev:18580" (IsDocument:"True" OR contentclass:"STS_ListItem")

Test query

OK   Cancel

Build Your Query

BASICS   **REFINERS**   SETTINGS   TEST

Learn how to build your query

Choose your refiners

contentclass
  STS_ListItem_851
  STS_ListItem_DocumentLibrary
  STS_ListItem_PictureLibrary
  STS_ListItem_850
ContentType
  Audio
  application/pdf Document
  Picture
  Article Page
  Document
  Page
ContentTypeId
  0x0101009148F5A04DDD49CBA71:
  0x01010090A3E31D1BBC8C41ADA
  0x010100395F1CBF3F4EA042A7B8:
  0x010100A4994291D0CF494898FE
  0x0101020006ED64128F2F6AA4692
  0x0101010C568DB52D9D0A14D9B2
  0x0101020040D408E9FD27364D8A

[Add]

[Remove]

Show more

SEARCH RESULT PREVIEW

⊟ RelevantResults (126)
  Simple Search Results
    sp2013-dev:18580/SimpleSearchResults
  Content Rollup
    sp2013-dev:18580/ContentRollup
  Display Template Styling
    sp2013-dev:18580/DisplayTemplateStyling
  Query Driven Selection
    sp2013-dev:18580/QueryDrivenSelection
  Tinkering with the CSWP
    sp2013-dev:18580/Tinker
  pcgamer201201-dl
    sp2013-dev:18580/PC Gamer 2012/pcgamer201201-dl.pdf
  Echo
    sp2013-dev:18580/BunkerTuneage/DispForm.aspx?ID=77
  The Unicorn Song
    sp2013-dev:18580/BunkerTuneage/DispForm.aspx?ID=78
  Mother Nature
    sp2013-dev:18580/BunkerTuneage/DispForm.aspx?ID=79
  Closer
    sp2013-dev:18580/BunkerTuneage/DispForm.aspx?ID=64

[OK]   [Cancel]

Build Your Query

BASICS   REFINERS   SORTING   SETTINGS   TEST

Learn how to build your query

Sort results
You can have several levels of sorting for your results based on their managed properties.

Sort by: | Rank ▾ |

Add sort level

Ranking Model | Select model ▾ |
Choose a way of
ranking results.

Dynamic ordering
On top of the ranking model, dynamic ordering allows you to promote or demote items in the search results.

Add dynamic ordering rule

SEARCH RESULT PREVIEW

⊟ RelevantResults (126)
   pcgamer201202-dl
      sp2013-dev:18580/PC Gamer 2012/pcgamer201202-dl.pdf
   pcgamer201203-dl
      sp2013-dev:18580/PC Gamer 2012/pcgamer201203-dl.pdf
   pcgamer201204-dl
      sp2013-dev:18580/PC Gamer 2012/pcgamer201204-dl.pdf
   pcgamer201205-dl
      sp2013-dev:18580/PC Gamer 2012/pcgamer201205-dl.pdf
   pcgamer201206-dl
      sp2013-dev:18580/PC Gamer 2012/pcgamer201206-dl.pdf
   pcgamer201208-dl
      sp2013-dev:18580/PC Gamer 2012/pcgamer201208-dl.pdf
   pcgamer201209-dl
      sp2013-dev:18580/PC Gamer 2012/pcgamer201209-dl.pdf
   pcgamer201210-dl
      sp2013-dev:18580/PC Gamer 2012/pcgamer201210-dl.pdf
   pcgamer201211-dl
      sp2013-dev:18580/PC Gamer 2012/pcgamer201211-dl.pdf
   pcgamer201212_opt-dl
      sp2013-dev:18580/pcgamer201212_opt-dl.pdf

| OK | | Cancel |

Build Your Query

BASICS   REFINERS   **SETTINGS**   TEST

Query Rules:
Use query rules from Site Settings for this web part.

- ⦿ Use Query Rules
- ○ Don't use Query Rules

URL Rewriting
If the query is returning items from a catalog, choose whether to use that catalog's URL settings

- ⦿ Use URL settings from catalog
- ○ Don't rewrite URLs

Loading Behavior
Choose whether this query is issued on the server while the page is loading, which is better for your main content, or from the browser after the page appears.

- ⦿ Sync option: Issue query from the server
- ○ Async option: Issue query from the browser

Priority
Choose the importance of this web part's query. We'll run queries according to their relative priorities when the search service is overloaded.

- ○ High
- ⦿ Regular
- ○ Low

SEARCH RESULT PREVIEW

⊟ RelevantResults (126)

Simple Search Results
   sp2013-dev:18580/SimpleSearchResults

Content Rollup
   sp2013-dev:18580/ContentRollup

Display Template Styling
   sp2013-dev:18580/DisplayTemplateStyling

Query Driven Selection
   sp2013-dev:18580/QueryDrivenSelection

Tinkering with the CSWP
   sp2013-dev:18580/Tinker

pcgamer201201-dl
   sp2013-dev:18580/PC Gamer 2012/pcgamer201201-dl.pdf

Echo
   sp2013-dev:18580/BunkerTuneage/DispForm.aspx?ID=77

The Unicorn Song
   sp2013-dev:18580/BunkerTuneage/DispForm.aspx?ID=78

Mother Nature
   sp2013-dev:18580/BunkerTuneage/DispForm.aspx?ID=79

Closer
   sp2013-dev:18580/BunkerTuneage/DispForm.aspx?ID=64

OK   Cancel

Build Your Query

Learn how to build your query

Show more

SEARCH RESULT PREVIEW

Query text
Queries may give different results based on dynamic page- or user-driven values. See the final query text based on the original query template, query rules, and variable values.

path:"http://sp2013-dev:18580" (IsDocument:"True" OR contentclass:"STS_ListItem")

⊟ RelevantResults (126)
　　Simple Search Results
　　　sp2013-dev:18580/SimpleSearchResults
　　Content Rollup
　　　sp2013-dev:18580/ContentRollup
　　Display Template Styling
　　　sp2013-dev:18580/DisplayTemplateStyling
　　Query Driven Selection
　　　sp2013-dev:18580/QueryDrivenSelection
　　Tinkering with the CSWP
　　　sp2013-dev:18580/Tinker
　　pcgamer201201-dl
　　　sp2013-dev:18580/PC Gamer 2012/pcgamer201201-dl.pdf
　　Echo
　　　sp2013-dev:18580/BunkerTuneage/DispForm.aspx?ID=77
　　The Unicorn Song
　　　sp2013-dev:18580/BunkerTuneage/DispForm.aspx?ID=78
　　Mother Nature
　　　sp2013-dev:18580/BunkerTuneage/DispForm.aspx?ID=79
　　Closer
　　　sp2013-dev:18580/BunkerTuneage/DispForm.aspx?ID=64

OK   Cancel

Build Your Query

BASICS   REFINERS   SETTINGS   **TEST**

Show less

SEARCH RESULT PREVIEW

☐ RelevantResults (126)

Query template
See the query as defined in Basics or in the result source.

> {?path:{Scope}} {?owstaxIdMetadataAllTagsInfo:
> {Tag}} (IsDocument:"True" OR

Refined by
See the refiners applied to this query.

Grouped by
See the managed property groups applied to the results.

Applied query rules
See the active query rules based on the query template and its variables.

Query template variables
Test the query template's functionality by specifying values for the different variables.

{Scope} : `"http://sp2013-dev:18580"`

{Tag} : `Not applicable`

User segment terms
Test the query template's functionality with different user segment terms.

Add user segment term for testing

Query text
Queries may give different results based on dynamic page- or user-driven values. See the final query text based on the original query template, query rules, and variable values.

> path:"http://sp2013-dev:18580" (IsDocument:"True"
> OR contentclass:"STS_ListItem")

Test query

Simple Search Results
  sp2013-dev:18580/SimpleSearchResults
Content Rollup
  sp2013-dev:18580/ContentRollup
Display Template Styling
  sp2013-dev:18580/DisplayTemplateStyling
Query Driven Selection
  sp2013-dev:18580/QueryDrivenSelection
Tinkering with the CSWP
  sp2013-dev:18580/Tinker
pcgamer201201-dl
  sp2013-dev:18580/PC Gamer 2012/pcgamer201201-dl.pdf
Echo
  sp2013-dev:18580/BunkerTuneage/DispForm.aspx?ID=77
The Unicorn Song
  sp2013-dev:18580/BunkerTuneage/DispForm.aspx?ID=78
Mother Nature
  sp2013-dev:18580/BunkerTuneage/DispForm.aspx?ID=79
Closer
  sp2013-dev:18580/BunkerTuneage/DispForm.aspx?ID=64

OK   Cancel

The Query Builder

#1

The Query Builder

Content Search ✕

Properties ⌃

☐ Search Criteria   Help

Change query

Number of items to show

3

☐ Display Templates   Help

Control

List ▾

Item

Picture on left, 3 lines on right ▾

☑ Don't show anything when there are no results.

☐ Property Mappings

☐ Settings

☐ Appearance

☐ Layout

☐ Advanced

OK   Cancel   Apply
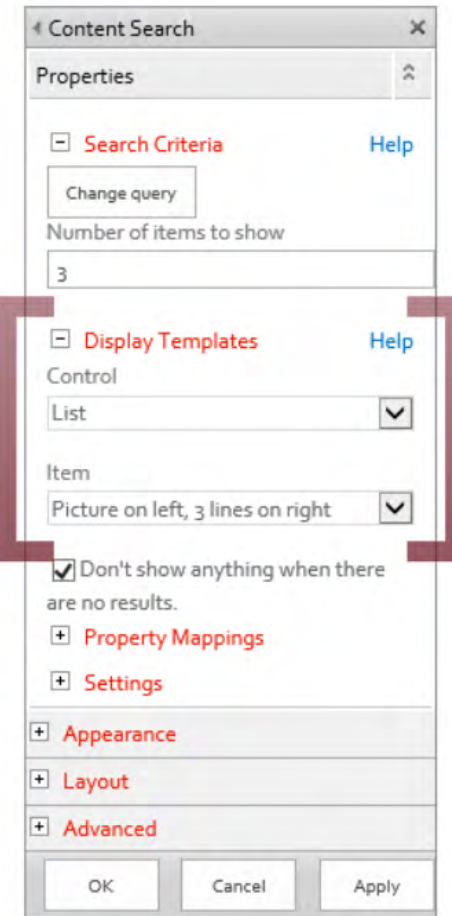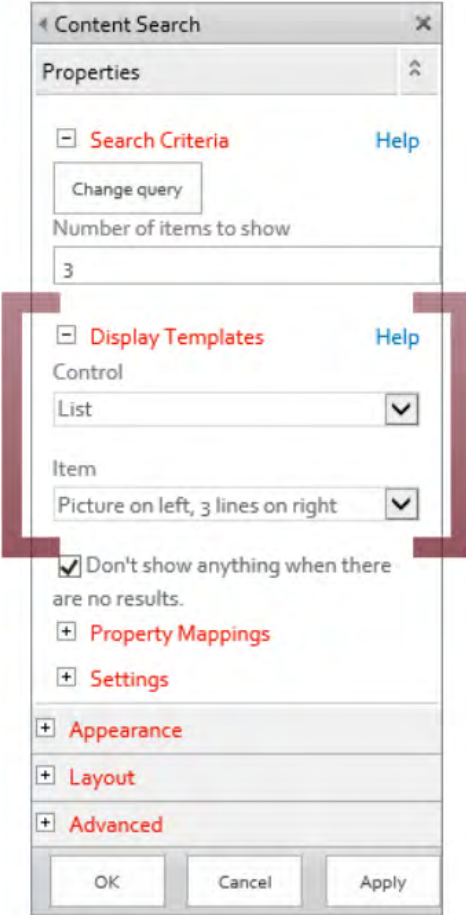
Two simple selections that make ALL the difference

Consider this CSWP and the selected display templates
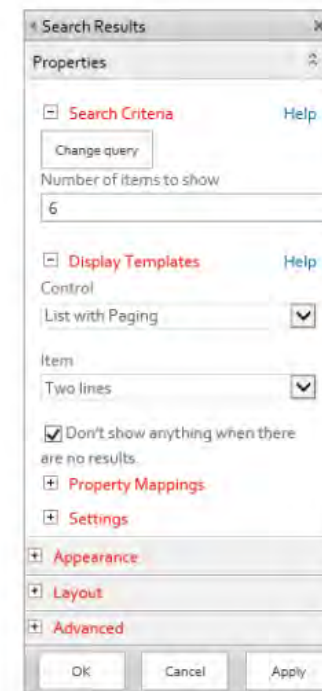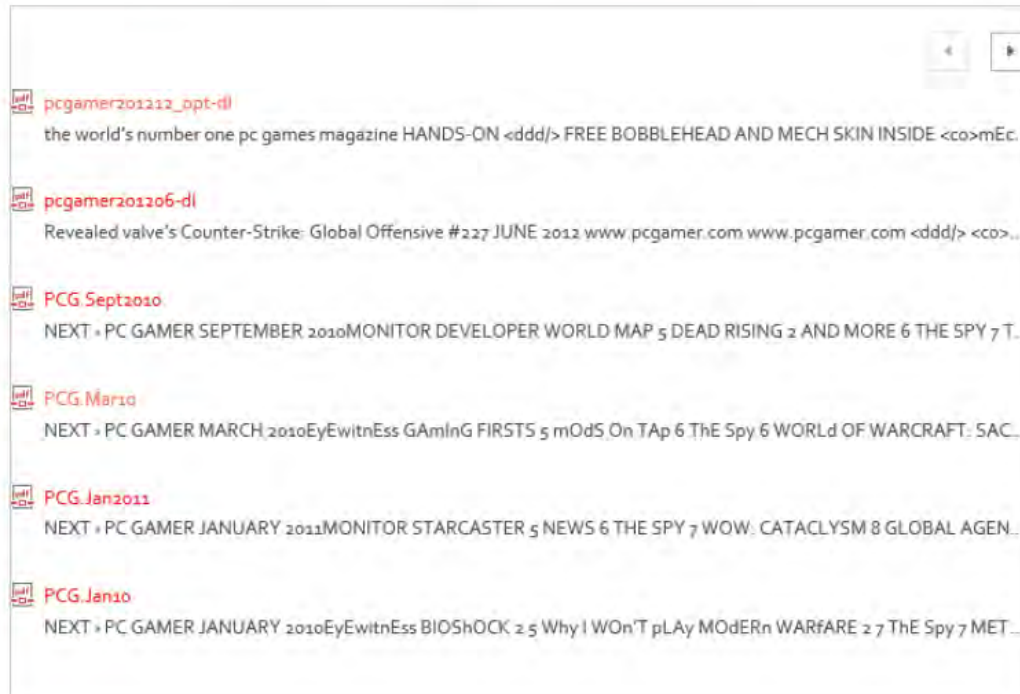
The Control template covers the display of the surrounding region
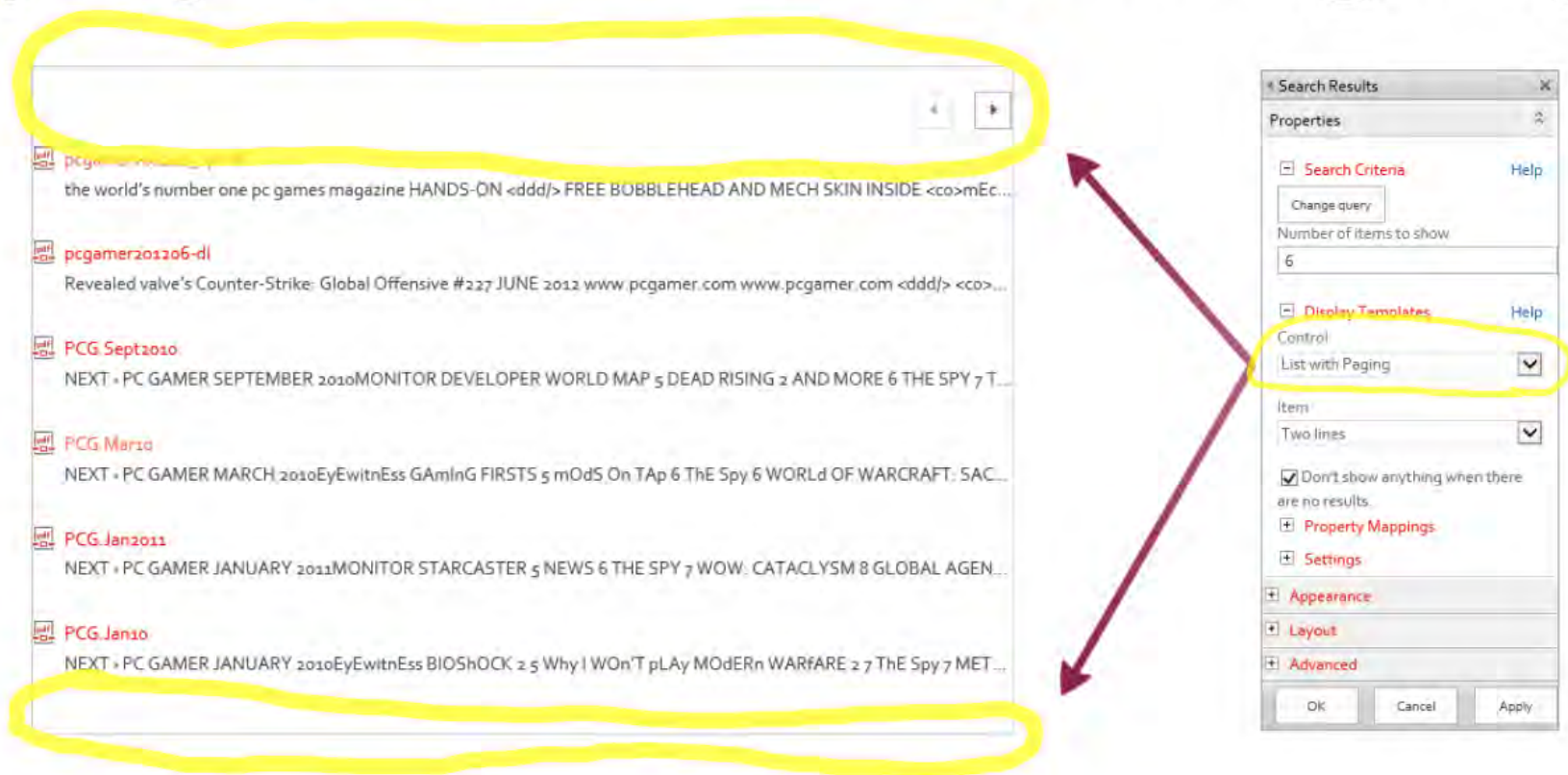
An Item template controls each result that appears in the Control

PCG.Sept2010
NEXT › PC GAMER SEPTEMBER 2010MONITOR DEVELOPER WORLD MAP 5 DEAD RISING 2 AND MORE 6 THE SPY 7 T...

PCG.Mar10
NEXT › PC GAMER MARCH 2010EyEwitnEss GAmInG FIRSTS 5 mOdS On TAp 6 ThE Spy 6 WORLd OF WARCRAFT: SAC...

PCG.Jan2011
NEXT › PC GAMER JANUARY 2011MONITOR STARCASTER 5 NEWS 6 THE SPY 7 WOW: CATACLYSM 8 GLOBAL AGEN...

PCG.Jan10
NEXT › PC GAMER JANUARY 2010EyEwitnEss BIOShOCK 2 5 Why I WOn'T pLAy MOdERn WARfARE 2 7 ThE Spy 7 MET...

Search Results ✕

Properties ⌃

⊟ Search Criteria   Help

[Change query]

Number of items to show

[6]

Diagnostic
Large picture
Picture on left, 3 lines on right
Picture on top, 3 lines on bottom
Recommended Items: Picture on left, 3 lines on right
Swiss Army Item Template
Two lines
Video

☑ Don't show anything when there are no
results.

⊟ Property Mappings

☑ Change the mapping of managed
properties for the fields in the Item Display
Template.

Link URL
[Path ▾]

Line 1
[Title ▾]

Line 2
[HitHighlightedSummary ▾]

⊞ Settings

⊞ Appearance

⊞ Layout

⊞ Advanced

[OK]   [Cancel]   [Apply]

Looking more closely at the template and Property Mappings assignments:

- Several control and item templates are available OOTB.

- Property Mappings identify "which" Search property goes "where" for display

Consider this CSWP and the selected display templates
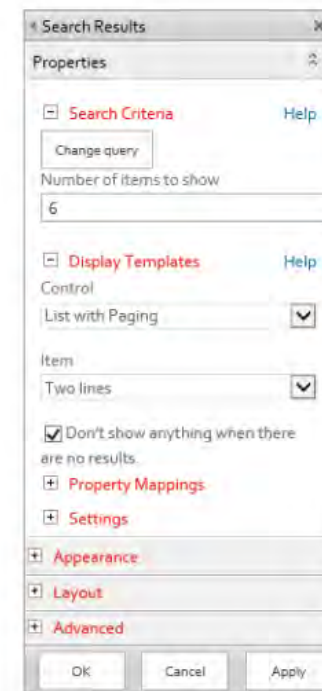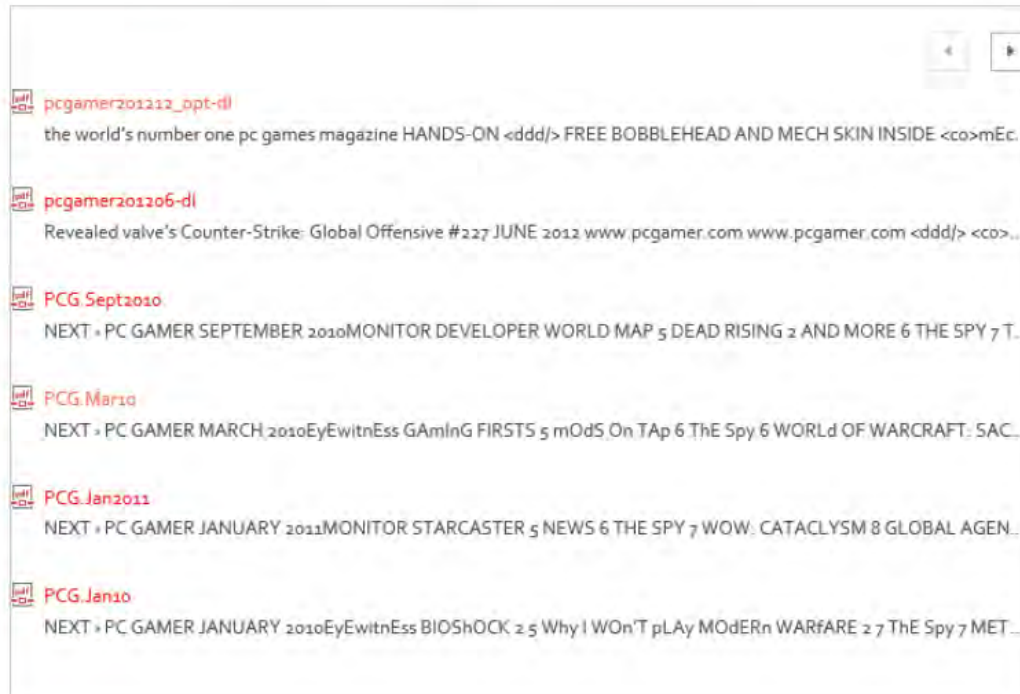
Display Templates Can Be Edited ...

But first we need to acknowledge

Display Templates Can Be Edited ...

But first we need to acknowledge some important differences

To play to stereotypes

These two types of individuals tend to see the world very differently
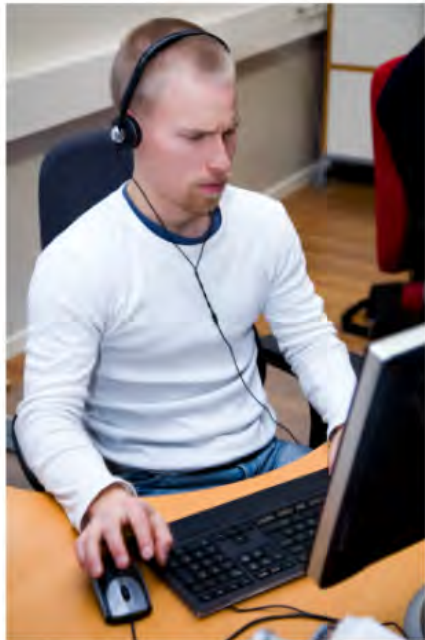
Display Templates Can Be Edited ...

But first we need to acknowledge some important differences

To play to stereotypes

to see the world very differently

Display Templates Can Be Edited ...
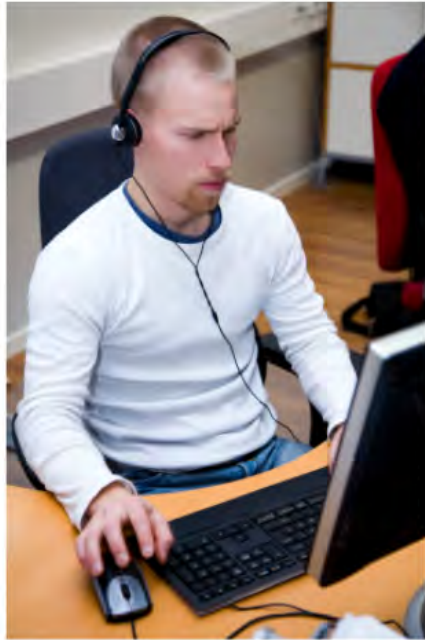
But first we need to acknowledge some important differences

To play to stereotypes

Devs

Designers

With SharePoint 2013's

Prior to display templates, you didn't stand a chance if you were a designer

You needed to know XSL,

```xml
<?xml version="1.0" encoding="UTF-8"?>
<xsl:stylesheet version="1.0" xmlns="http://www.w3.org/1999/xht
    xmlns:xsl="http://www.w3.org/1999/XSL/Transform" xmlns:html="
    <xsl:output method="xml" indent="no" encoding="UTF-8"
```
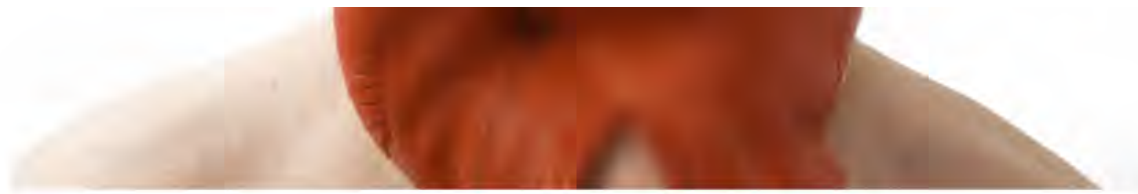
You needed to know XSL, how to handle ASP.NET tags and markup, and other "non-designer" technical details

```xml
<?xml version="1.0" encoding="UTF-8"?>
<xsl:stylesheet version="1.0" xmlns="http://www.w3.org/1999/xht
    xmlns:xsl="http://www.w3.org/1999/XSL/Transform" xmlns:html="
    <xsl:output method="xml" indent="no" encoding="UTF-8"
        omit-xml-declaration="yes" />

    <xsl:param name="currentPage" />
    <xsl:template match="/">
        <xsl:variable name="recordsPerPage" select="5" />
        <xsl:variable name="pageNumber">
            <xsl:choose>
                <!-- first page -->
                <xsl:when test="$currentPage &lt;= 0 or $current
                <!-- what was passed in -->
                <xsl:otherwise>
                    <xsl:value-of select="$currentPage" />
                </xsl:otherwise>
            </xsl:choose>
        </xsl:variable>
        <xsl:variable name="numberOfRecords" select="count(/grou

        <!-- The fun starts here -->

        <xsl:call-template name="pagination">
            <xsl:with-param name="pageNumber" select="$pageNumbe
            <xsl:with-param name="recordsPerPage" select="$recor
            <xsl:with-param name="numberOfRecords" select="$numbe
        </xsl:call-template>

        <ul class="listing self-clear">
            <xsl:for-each select="//item">
                <xsl:if
                    test="position() &gt; $recordsPerPage * numbe
                    <li>
                        <xsl:attribute name="class">
```

Designers

With SharePoint 2013's new Design Manager, designers have a fighting chance

Design Manager: Welcome

1. Welcome
2. Manage Device Channels
3. Upload Design Files
4. Edit Master Pages
5. Edit Display Templates
6. Edit Page Layouts
7. Publish and Apply Design
8. Create Design Package

The Design Manager helps you create your own site design in SharePoint. Learn how SharePoint sites work

If you aren't creating your own design, you may instead want to choose from one of the following options:

- Import a complete design package
- Pick a pre-installed look

Otherwise, go ahead to the next step of the Design Manager. Get an overview

The Design Manager crunches HTML input

The Design Manager crunches HTML input

```html
<div class="sas-tablecell" id="_#= containerId =#_" data-displaytemplate="SAS_Item_Template">
    <div id="_#= dataContainerId =#_">
        <a href="_#= linkURL =#_" title="_#= $htmlEncode(displayText.defaultValueRenderer(displayText)) =#_" id="_#= displayText
    </div>
</div>
</div>
</body>
</html>
```


Design Manager: Edit Display Templates

Search results and other search-related web parts rely on display templates to control the appearance and behavior of search results. The best way to create a new display template is to copy an existing one that's similar to what you want and then change yours using any HTML editor. Learn more

1. Welcome
2. Manage Device Channels
3. Upload Design Files
4. Edit Master Pages
5. Edit Display Templates
6. Edit Page Layouts
7. Publish and Apply Design
8. Create Design Package

	Title	Name	Status	Content Type	Target Control Type (Search)	Hidden Template	Approval Status
	Blank Control	Control_Blank	...	Control Display Template		No	Approved
	Default Catalog Result	Control_CatalogDefault	...	Control Display Template	Content Web Parts	Yes	Approved
	Tabular Exchange results	Control_eDiscoveryExchangeResult	...	Control Display Template	Content Web Parts	Yes	Approved
	Tabular SharePoint results	Control_eDiscoverySharePointResult	...	Control Display Template	Content Web Parts	Yes	Approved
	List	Control_List	...	Control Display Template	Content Web Parts	No	Approved
	List with Paging	Control_ListWithPaging	...	Control Display Template	Content Web Parts	No	Approved
	Query Builder Preview Control	Control_QueryBuilderPreview	...	Control Display Template		No	Approved
	Query Builder Refinement Control	Control_QueryBuilderRefinement	...	Control Display Template		No	Approved
	Recommended Items Result	Control_Recommendations	...	Control Display Template	Content Web Parts	Yes	Approved
	Vertical	Control_Refinement	...	Control	Refinement	No	Approved

... and spits out a converted lay

```
= linkURL =#_" title="_#= $htmlEncode(displayText.defaultValueRenderer(displayText)) =#_" id="_#= displayText
```

Design Manager: Edit Display Templates

Search display templates and other search-related web components on display templates to control the appearance and behavior of search results. The best way to create a new display template is to copy an existing one that's similar to what you want and then change your display using any HTML editor. Learn more.

1. Welcome
2. Manage Device Channels
3. Upload Design Files
4. Edit Master Pages
5. Edit Display Templates
6. Edit Page Layouts
7. Publish and Apply Design
8. Create Design Package

Title	Name	Status	Content Type	Target Control Type (search)	Hidden Template	Associated View
Fixed Control	Control_Blank	...	Control Display Template		No	Approved
Result Control Result	Control_CommonResult	...	Control Display Template	Content Web Parts	Yes	Approved
Tabular Exchange result	Control_EDiscoveryExchangeResult	...	Control Display Template	Content Web Parts	Yes	Approved
Tabular SharePoint results	Control_eDiscoverySharePointResult	...	Control Display Template	Content Web Parts	Yes	Approved
List	Control_List	...	Control Display Template	Content Web Parts	No	Approved
List with Paging	Control_ListWithPaging	...	Control Display Template	Content Web Parts	No	Approved
Query Builder Preview Control	Control_QueryBuilderPreview	...	Control Display Template		No	Approved
Query Builder Refinement Control	Control_QueryBuilderRefinement	...	Control Display Template		No	Approved
Recommended Items Result	Control_Recommendations	...	Control Display Template	Content Web Parts	Yes	Approved
Vertical	Control_Refinement	...	Control	Refinement	No	Approved

… and spits out a converted Javascript display template that is ready for use

For example

from this

```
<html xmlns:mso="urn:schemas-microsoft-com:office:office" xmlns:msdt="uuid:C2F41010-65B3-11d1-A29F-00AA00C14882">
<head>
<title>Swiss Army Item Template</title>

<!--[if gte mso 9]><xml>
<mso:CustomDocumentProperties>
<mso:TemplateHidden msdt:dt="string">0</mso:TemplateHidden>
<mso:ManagedPropertyMapping msdt:dt="string">
    'Link URL'{Link URL}:'Path',
    'Display Text'{Display Text}:'Title',
    'FileExtension',
    'SecondaryFileExtension'
</mso:ManagedPropertyMapping>
<mso:MasterPageDescription msdt:dt="string">This display template controls an individual item in the full page of results.</mso:MasterPageDescription>
<mso:ContentTypeId msdt:dt="string">0x0101002039C03B61C64EC4A04F5361F385106603</mso:ContentTypeId>
<mso:TargetControlType msdt:dt="string">;#Content Web Parts;#</mso:TargetControlType>
<mso:HtmlDesignAssociated msdt:dt="string">1</mso:HtmlDesignAssociated>
</mso:CustomDocumentProperties>
</xml><![endif]-->
</head>


<body>


    <!--
            Warning: Do not try to add HTML to this section. Only the contents of the first <div>
            inside the <body> tag will be used while executing Display Template code. Any HTML that
            you add to this section will NOT become part of your Display Template.
    -->
    <script>
        $includeLanguageScript(this.url, "~sitecollection/_catalogs/masterpage/Display Templates/Language Files/{Locale}/CustomStrings.js");
```

to this

```
/* This file is currently associated to an HTML file of the same name and is drawing content from it.  Until the files are disassociated, you will not be able to move, delete,
rename, or make any other changes to this file. */

function DisplayTemplate_2aa45a743fd94e75a3e53c940628e2ec(ctx) {
   var ms_outHtml=[];
   var cachePreviousTemplateData = ctx['DisplayTemplateData'];
   ctx['DisplayTemplateData'] = new Object();
   DisplayTemplate_2aa45a743fd94e75a3e53c940628e2ec.DisplayTemplateData = ctx['DisplayTemplateData'];

   ctx['DisplayTemplateData']['TemplateUrl']='~sitecollection\u002f_catalogs\u002fmasterpage\u002fDisplay Templates\u002fContent Web Parts\u002fSwissArmy_Control_Template.js';
   ctx['DisplayTemplateData']['TemplateType']='Control';
   ctx['DisplayTemplateData']['TargetControlType']=['Content Web Parts'];
   this.DisplayTemplateData = ctx['DisplayTemplateData'];

ms_outHtml.push('','' 
,''
);
if (!$isNull(ctx.ClientControl) &&
    !$isNull(ctx.ClientControl.shouldRenderControl) &&
    !ctx.ClientControl.shouldRenderControl())
{
    return "";
}
ctx.ListDataJSONGroupsKey = "ResultTables";
var $noResults = Srch.ContentBySearch.getControlTemplateEncodedNoResultsMessage(ctx.ClientControl);

var isRollupPageInDisplayMode = Srch.ContentBySearch.isRollupPage(ctx.ClientControl) && !Srch.U.isPageInEditMode();
var noResultsClassName = isRollupPageInDisplayMode ? "ms-attractMode ms-uppercase ms-alignCenter" : "ms-srch-result-noResults";

var ListRenderRenderWrapper = function(itemRenderResult, inCtx, tpl)
```

```
<html xmlns:mso="urn:schemas-microsoft-com:office:office" xmlns:msdt="uuid:C2F41010-65B3-11d1-A29F-00AA00C14882">
<head>
<title>Swiss Army Item Template</title>

<!--[if gte mso 9]><xml>
<mso:CustomDocumentProperties>
<mso:TemplateHidden msdt:dt="string">0</mso:TemplateHidden>
<mso:ManagedPropertyMapping msdt:dt="string">
    'Link URL'{Link URL}:'Path',
    'Display Text'{Display Text}:'Title',
    'FileExtension',
    'SecondaryFileExtension'
</mso:ManagedPropertyMapping>
<mso:MasterPageDescription msdt:dt="string">This display template controls an individual item in the full page of results.</mso:MasterPageDescription>
<mso:ContentTypeId msdt:dt="string">0x0101002039C03B61C64EC4A04F5361F385106603</mso:ContentTypeId>
<mso:TargetControlType msdt:dt="string">;#Content Web Parts;#</mso:TargetControlType>
<mso:HtmlDesignAssociated msdt:dt="string">1</mso:HtmlDesignAssociated>
</mso:CustomDocumentProperties>
</xml><![endif]-->
</head>


<body>

    <!--
            Warning: Do not try to add HTML to this section. Only the contents of the first <div>
            inside the <body> tag will be used while executing Display Template code. Any HTML that
            you add to this section will NOT become part of your Display Template.
    -->
    <script>
        $includeLanguageScript(this.url, "~sitecollection/_catalogs/masterpage/Display Templates/Language Files/{Locale}/CustomStrings.js");
```

```
/* This file is currently associated to an HTML file of the same name and is drawing content from it.  Until the files are disassociated, you will not be able to move, delete,
rename, or make any other changes to this file. */

function DisplayTemplate_2aa45a743fd94e75a3e53c940628e2ec(ctx) {
  var ms_outHtml=[];
  var cachePreviousTemplateData = ctx['DisplayTemplateData'];
  ctx['DisplayTemplateData'] = new Object();
  DisplayTemplate_2aa45a743fd94e75a3e53c940628e2ec.DisplayTemplateData = ctx['DisplayTemplateData'];

  ctx['DisplayTemplateData']['TemplateUrl']='~sitecollection\u002f_catalogs\u002fmasterpage\u002fDisplay Templates\u002fContent Web Parts\u002fSwissArmy_Control_Template.js';
  ctx['DisplayTemplateData']['TemplateType']='Control';
  ctx['DisplayTemplateData']['TargetControlType']=['Content Web Parts'];
  this.DisplayTemplateData = ctx['DisplayTemplateData'];

ms_outHtml.push('','
'
);
if (!$isNull(ctx.ClientControl) &&
    !$isNull(ctx.ClientControl.shouldRenderControl) &&
    !ctx.ClientControl.shouldRenderControl())
{
    return "";
}
ctx.ListDataJSONGroupsKey = "ResultTables";
var $noResults = Srch.ContentBySearch.getControlTemplateEncodedNoResultsMessage(ctx.ClientControl);

var isRollupPageInDisplayMode = Srch.ContentBySearch.isRollupPage(ctx.ClientControl) && !Srch.U.isPageInEditMode();
var noResultsClassName = isRollupPageInDisplayMode ? "ms-attractMode ms-uppercase ms-alignCenter" : "ms-srch-result-noResults";

var ListRenderRenderWrapper = function(itemRenderResult, inCtx, tpl)
```

Worth mentioning: display templates and related files can be packaged for deployment

DEMO

Sum-Up:

- The CSWP is your friend
- Usable by novices and experts alike
- Uses Search to serve content quickly
- Available on-prem and in the cloud

Yes, this is a real knife. Look up "Wenger 16999 Swiss Army Knife" on Amazon!

Resources

Search Driven Publishing Features Are Now Available in SharePoint Online

http://community.office365.com/en-us/b/office_365_community_blog/archive/2013/10/30/search-driven-publishing-features-are-now-available-in-sharepoint-online.aspx

Configure Search Web Parts in SharePoint Server 2013

http://technet.microsoft.com/en-us/library/jj679900(v=office.15).aspx

SharePoint Content Query Web Part vs Content Search Web Part in SharePoint On-Premises vs SharePoint Online Environments

http://nikpatel.net/2014/02/28/content-query-web-part-vs-content-by-search-web-part/

Resources

Using the Content Search Web Part (and Understanding SP2013 Search)
http://www.sharepointnutsandbolts.com/2012/10/using-content-search-web-part-and.html

SharePoint Online Service Description
http://technet.microsoft.com/en-US/library/jj819267.aspx

SharePoint 2013 Content Search Web Part vs Search Results (video)
http ://www.youtube.com/watch?v=RkhCYZm_ljo

Query variables in SharePoint Server 2013
http://technet.microsoft.com/en-us/library/jj683123

Resources

SharePoint Cincy
June 6th, 2014

Remember to visit the exhibit hall.

Get to know your user groups to find out about local activities and events in your area.

Make sure you stick around for the closing session and turn in your cards to be eligible for the prize raffles.

#sharepointcincy
@sharepointcincy

Sean P. McDonough

SharePoint Gearhead, Developer, and Problem-Solver

My Company: bitstream FOUNDRY

Twitter: @spmcdonough

Blog: http://SharePointInterface.com

About: http://about.me/spmcdonough