Advanced XSLT editing: Content query web part (CQWP)

Dolev Raz
SharePoint Implementer @ top soft
dolev_r@Top-Soft.co.il

About Me

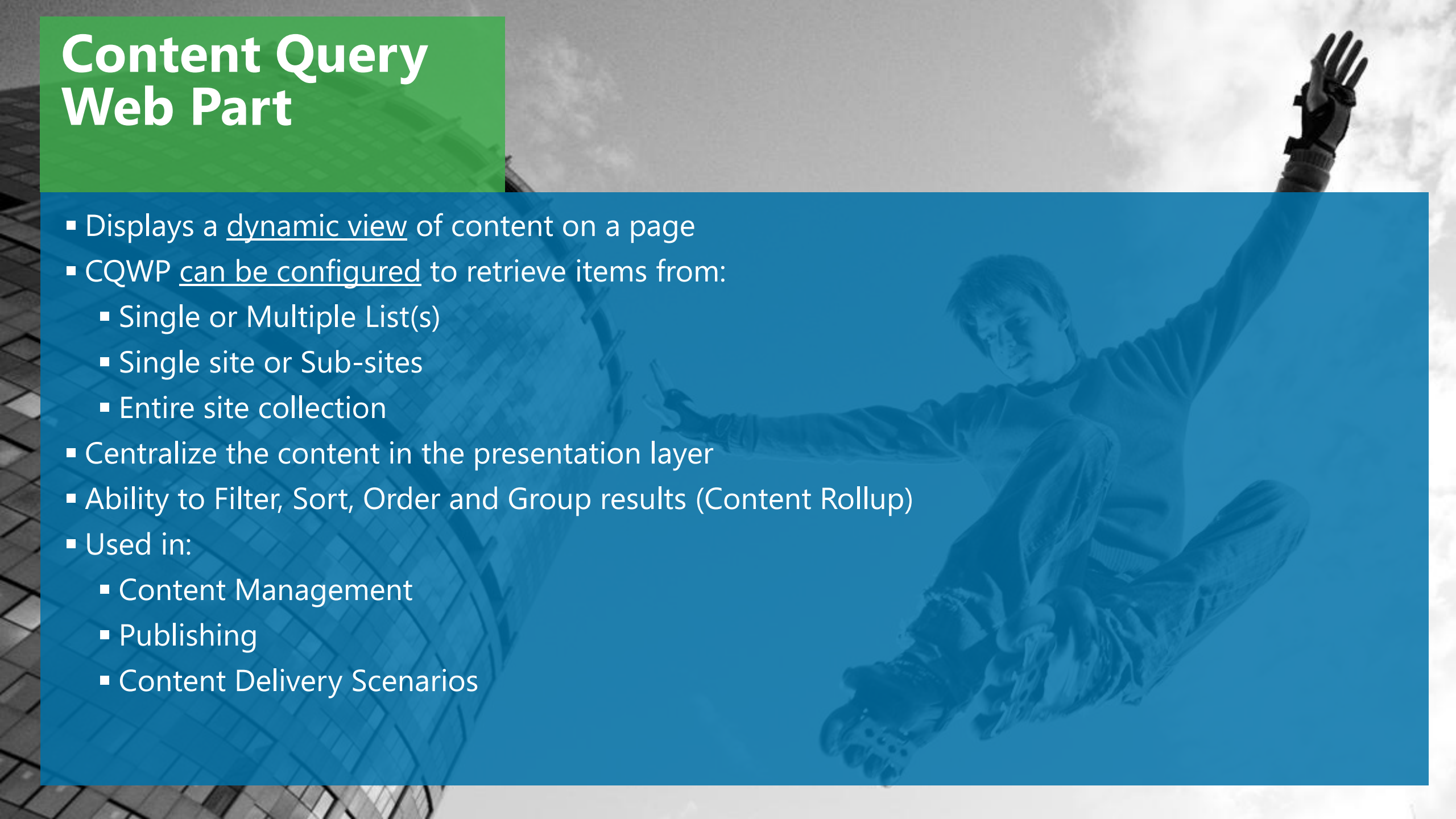
- Dolev Raz
- 22 years-old
- Live in Qiriyat Ono
- Works in Logic trough Top Soft
- Working with SharePoint for the past 4 years
- Blog: DolevRaz.blogspot.com

Agenda

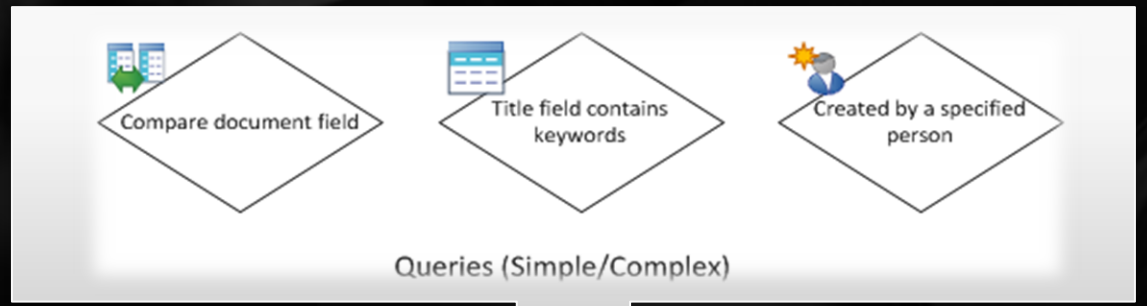
- CQWP – Understanding and using
- XSLT & Data View web part
- Conditional formatting
- Tip and trikes

Content Query Web Part

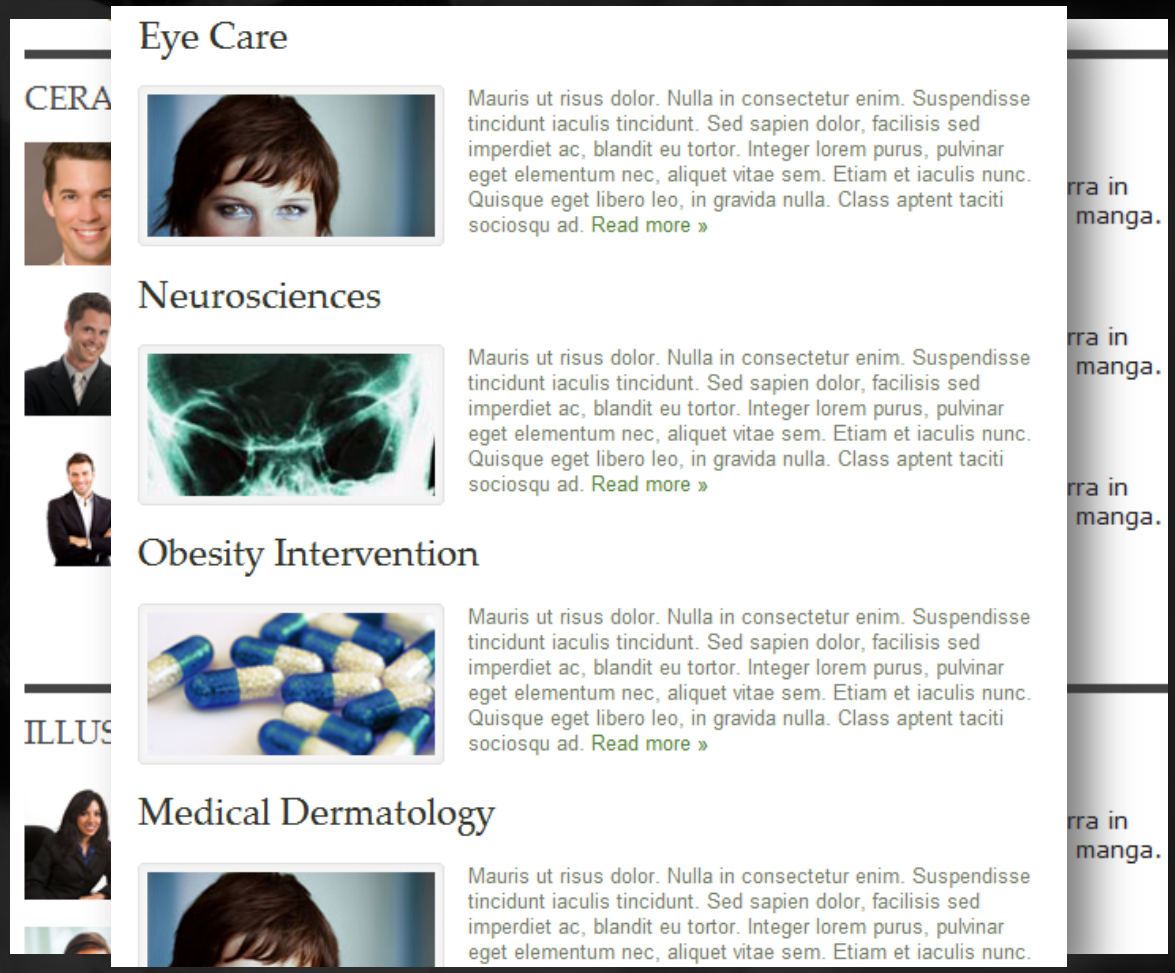
- Displays a dynamic view of content on a page
- CQWP can be configured to retrieve items from:
  - Single or Multiple List(s)
  - Single site or Sub-sites
  - Entire site collection
- Centralize the content in the presentation layer
- Ability to Filter, Sort, Order and Group results (Content Rollup)
- Used in:
  - Content Management
  - Publishing
  - Content Delivery Scenarios



CQWP Action


Compare document field
Title field contains keywords
Created by a specified person
Queries (Simple/Complex)

FACULTY
All Faculty Members »


Eye Care
Mauris ut risus dolor. Nulla in consectetur enim. Suspendisse tincidunt iaculis tincidunt. Sed sapien dolor, facilisis sed imperdiet ac, blandit eu tortor. Integer lorem purus, pulvinar eget elementum nec, aliquet vitae sem. Etiam et iaculis nunc. Quisque eget libero leo, in gravida nulla. Class aptent taciti sociosqu ad. Read more »
Neurosciences
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Obesity Intervention
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Medical Dermatology
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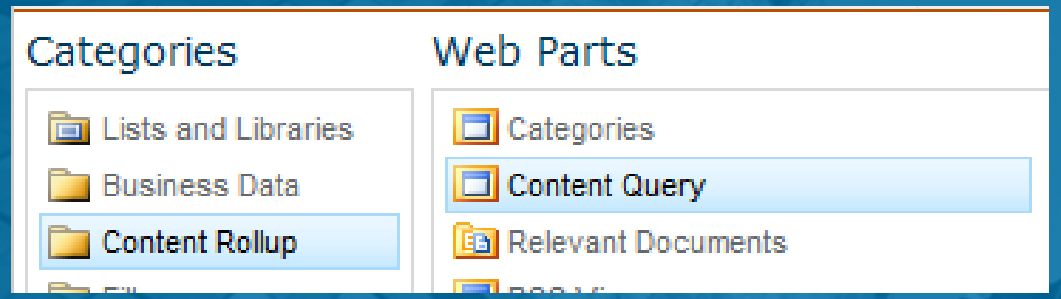
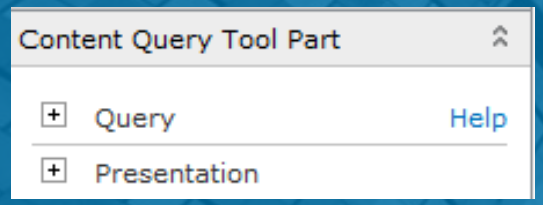
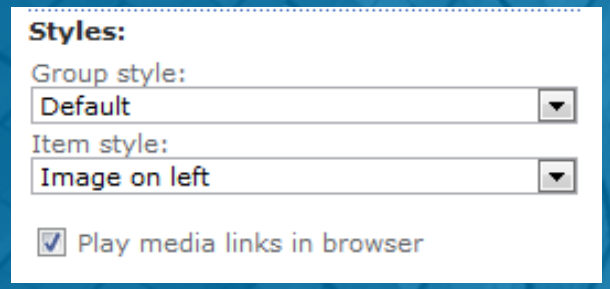
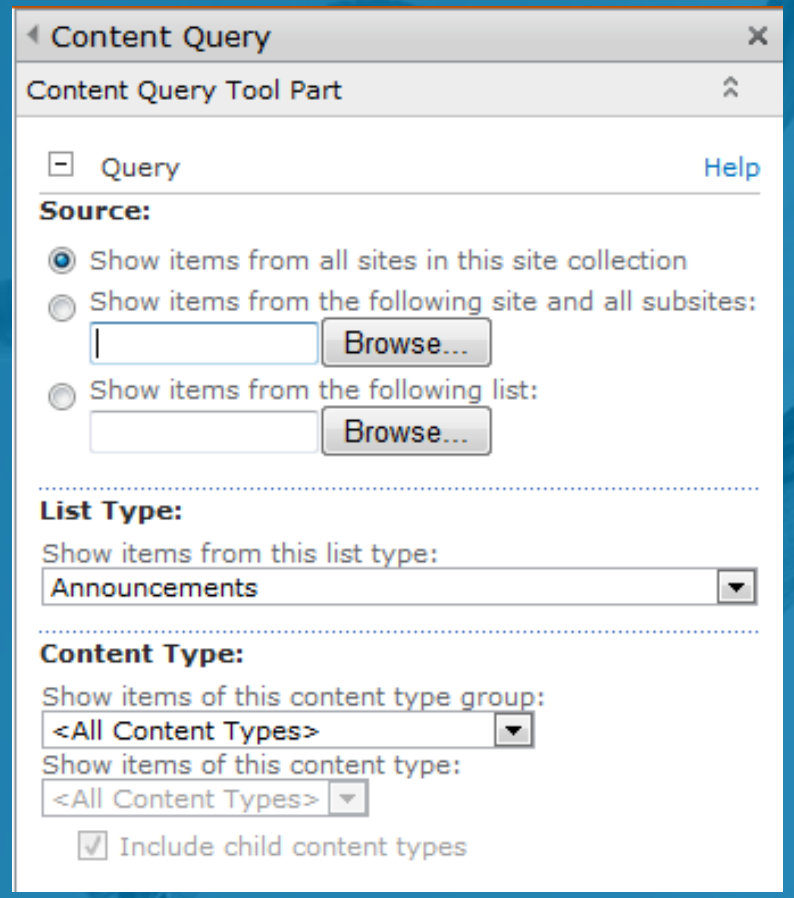
CQWP


Categories
Web Parts
Lists and Libraries
Business Data
Content Rollup
Categories
Content Query
Relevant Documents

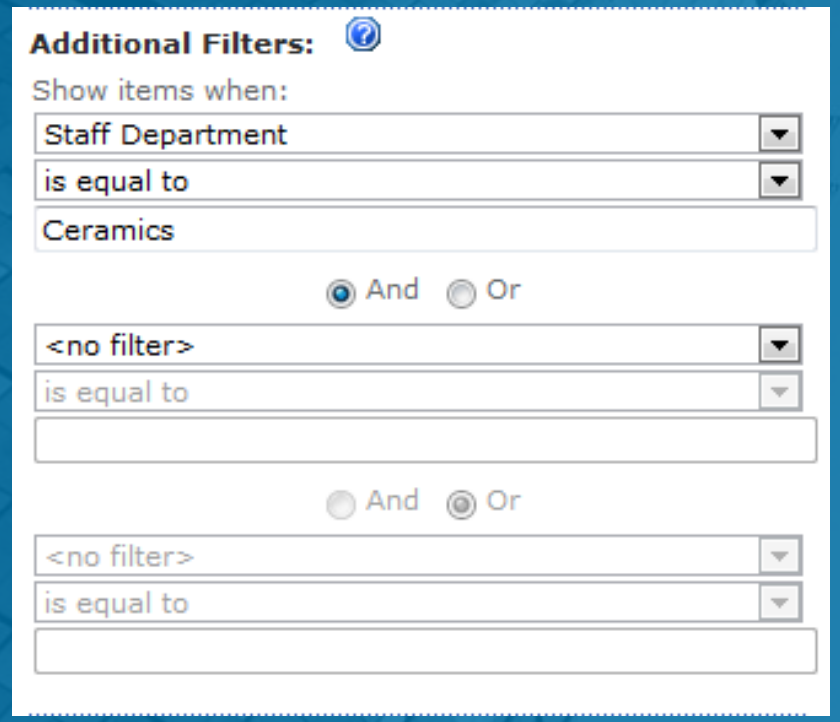

Content Query Tool Part
Query
Help
Presentation

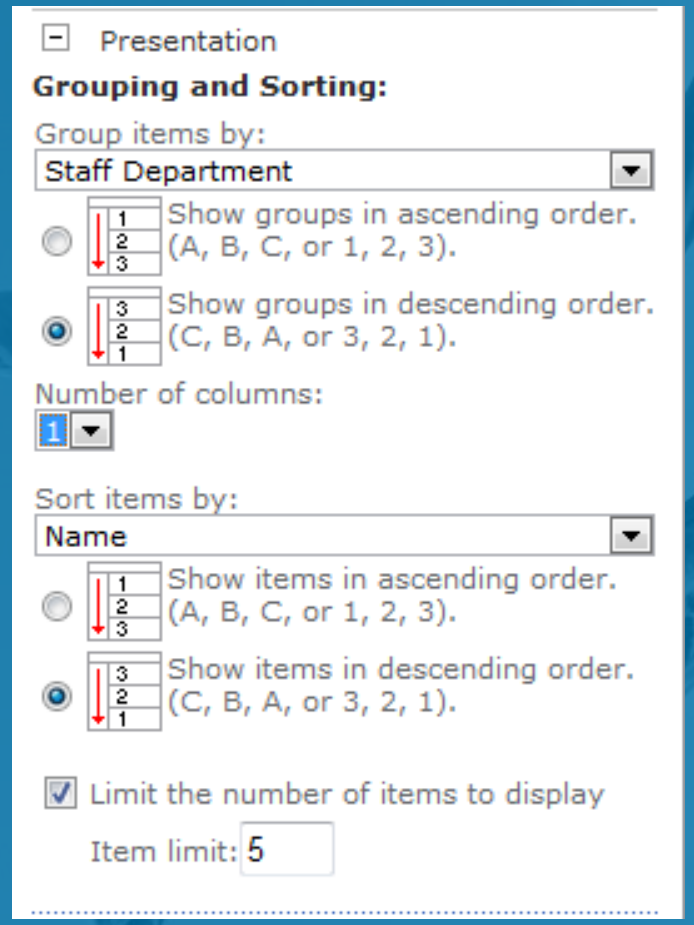

Styles:
Group style:
Default
Item style:
Image on left
Play media links in browser


Content Query
Content Query Tool Part
Query
Help
Source:
Show items from all sites in this site collection
Show items from the following site and all subsites:
Browse...
Show items from the following list:
Browse...
List Type:
Show items from this list type:
Announcements
Content Type:
Show items of this content type group:
<All Content Types>
Show items of this content type:
<All Content Types>
Include child content types

Using CQWP – Filtering and Sorting

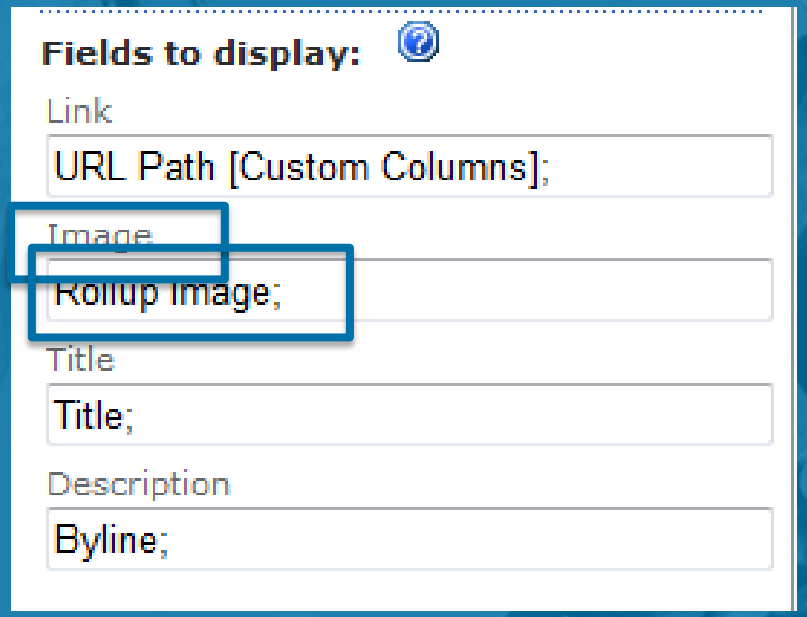
- Requires Publishing Features to be activated





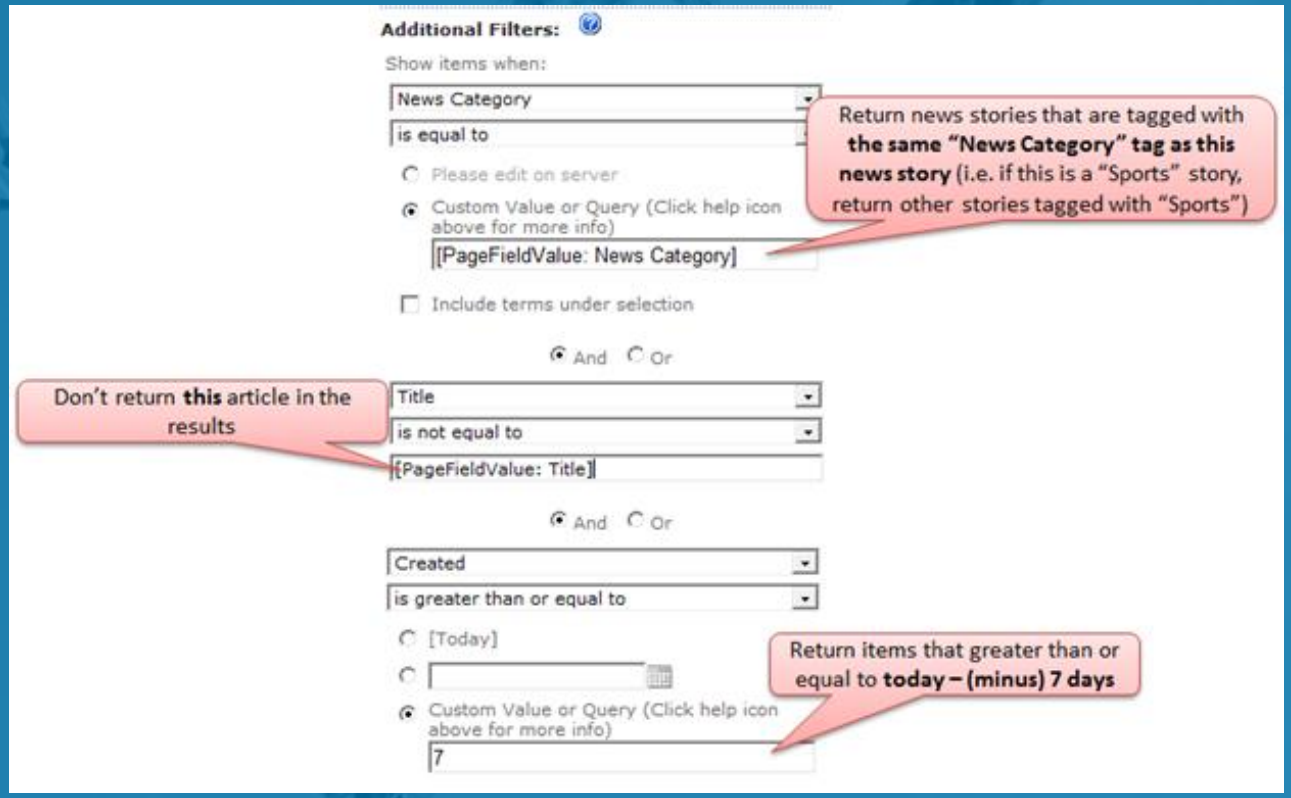
Using CQWP – Fields

- Depending on the scope of your query, select one or more site or list columns
- Column from a particular group – Column [Group]



Additional Filters - Page Content

- PageFieldValue – Dynamically replaces the value for the filter with the current page's field value.
- PageQueryString – Looks at the URL query string for a value to use in the Query.

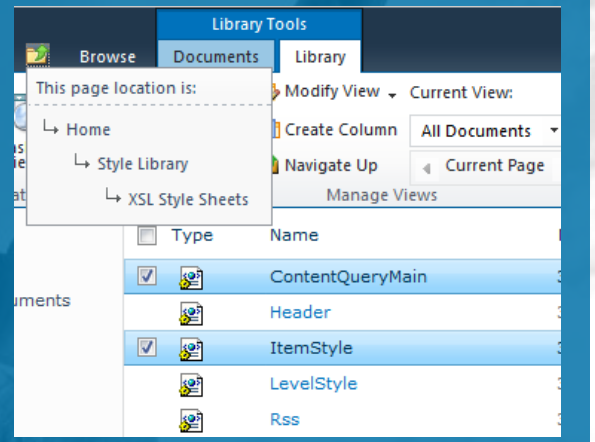


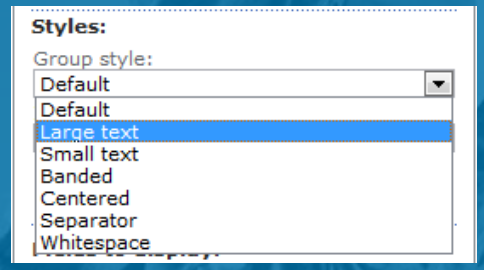
Anatomy of CQWP

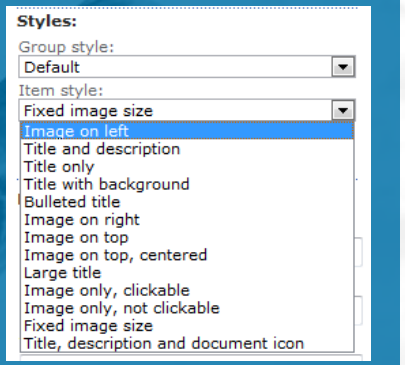
- CQWP uses property settings and CAML to construct the query
- SPSiteDataQuery class to query the SharePoint site to gather results
- More advanced properties available and requires modifying the web part file
- Once modified, you can re-import or even upload the modified file to the web part gallery

CQWP XSL Sheets

- **ContentQueryMain.XSL**
  - Receives all the content, parses it, and sends appropriate pieces to the ItemStyle and Header templates.
  - Maintains the structure of the Content By Query Web Part.
  - Stores data retrieved when querying content in the path /dsQueryResponse/Rows/Row.
- **ItemStyle.XSL**
  - Contains templates that define how to display an item.
  - These templates receive and process one row of data at a time, ensuring that the style and data in the item rows is consistent.







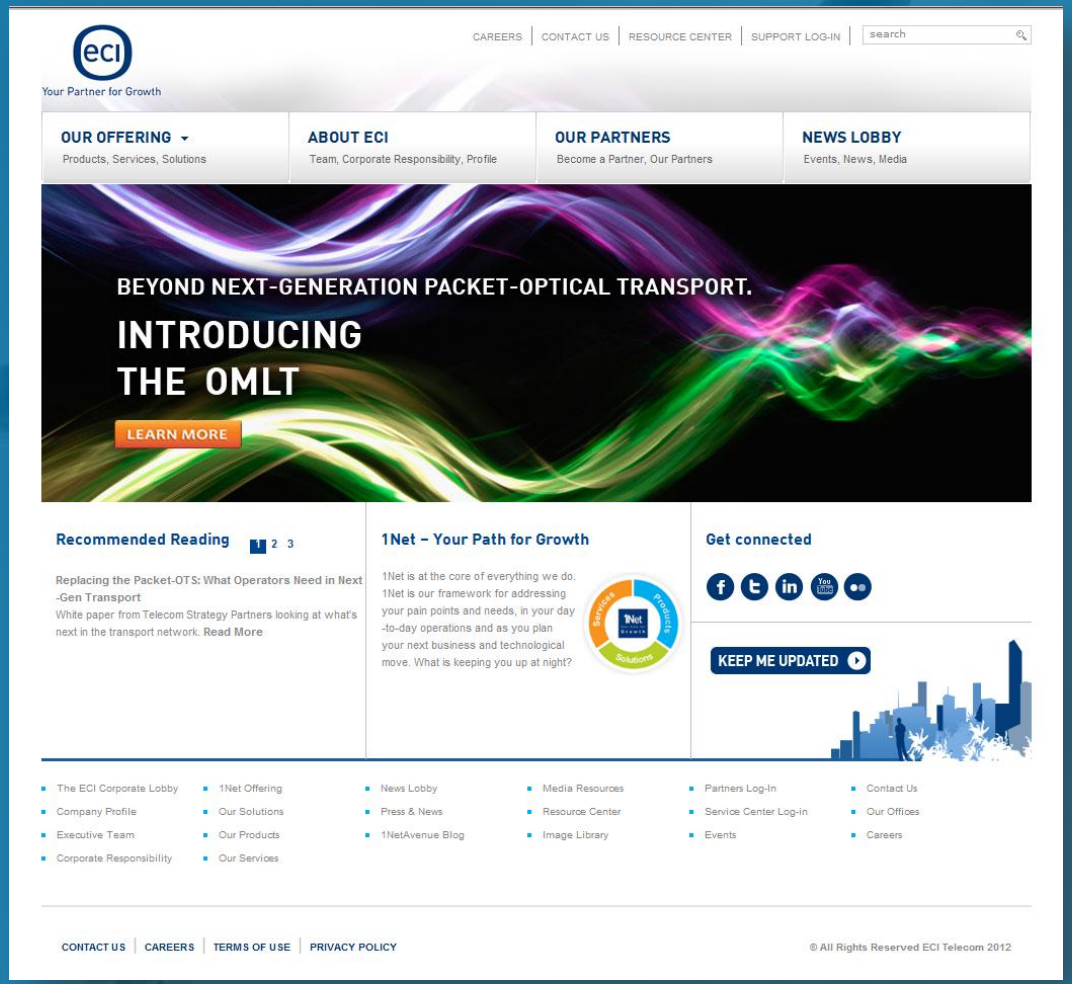
Demo – Using CQWP

XSLT Theory

- Extensible Style sheet Language Transformations (XSLT).
- Data Presentation – Style from XML
- Data Transformations – Medium, the output way.
- In SharePoint – received as XML and transformed into XSLT to be styled.

XSLT Example – ECI Telecom Site

- SharePoint 2010 publishing platform
- XSTL Customizations
- http://www.ecitele.com/



Demo –
First Look
On DVWP
מכללת הי-טק
JOHN BRYCE
תלמד הי-טק. זה עובד!
SharePoint
EXTREME
Microsoft
Be what's next.

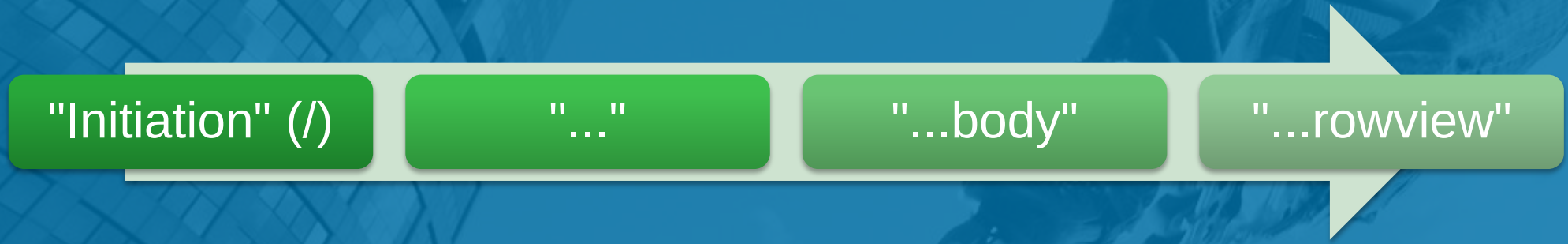
What the XSLT?!

- <xsl:template> definition of the template
  - <xsl:call-template> Call the Template to work
    - <xsl:with-param>, <xsl:param>, <xsl:variable> including the actions, parameters and values of the template.
    - <xsl:for-each> iterate over the group of rows (nodeset)
    - <xsl:sort> determine the sort order of the nodeset
    - <xsl:if> single conditional test – it true, it will work
    - <xsl:choose> multiple conditionals test
      - <xsl:when> used as a condition
      - <xsl:otherwise> a “fall-back” condition
  - <xsl:value-of> out-puts the value to which it evaluates

The Templates

- <xsl:template match="/"> the "initiation" function.
- <xsl:template name="..."> the node set retrieved from the Data Source and the rendering starts and define the container.
- <xsl:template name="....body"> calls the Rows template
- <xsl:template name="....rowview"> where we work with each row, outputting the values

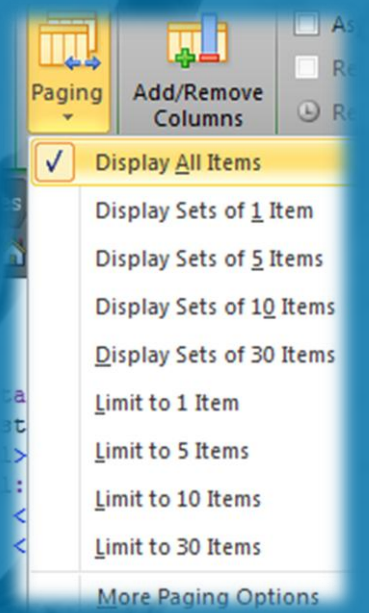
- The names are changeable, except their suffix. The names are default names so even it better to change them.



Clean your Data View

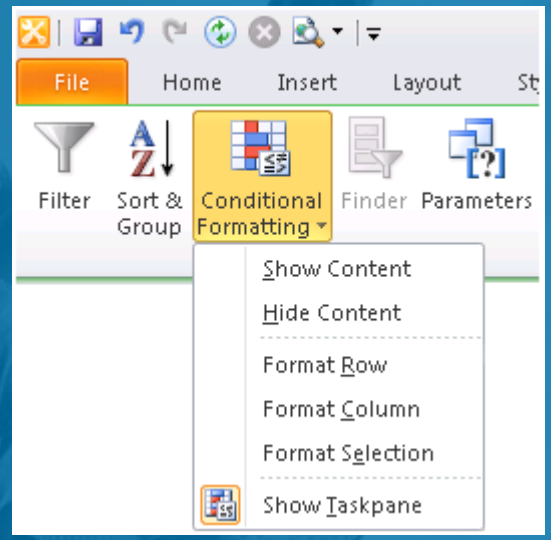
- There are many options and functions we can remove from the code:
  - "Display all items" will remove some of the code.
  - **<xsl:when test="($ManualRefresh = 'True')">** - This function builds a table with "Refreshing" option. In many DVWP we don't use it – so we can erase this.
  - **<xsl:call-template name="dvt_1.empty"/>** and **<xsl:template name="dvt_1.empty">** - Empty template
  - ms-alternating class function
  - <xsl:if test="$dvt_1_automode = '1'" ddwrt:cf_ignore="1">

- 178 rows to 31 rows of code.



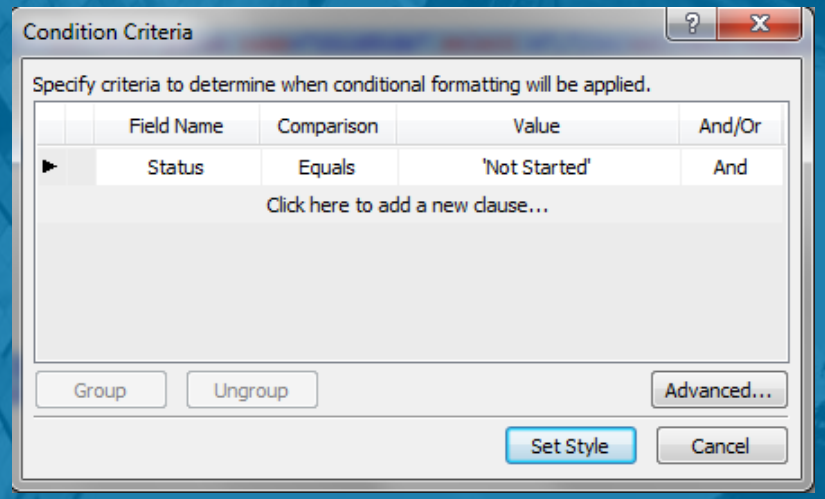
Conditional Formatting

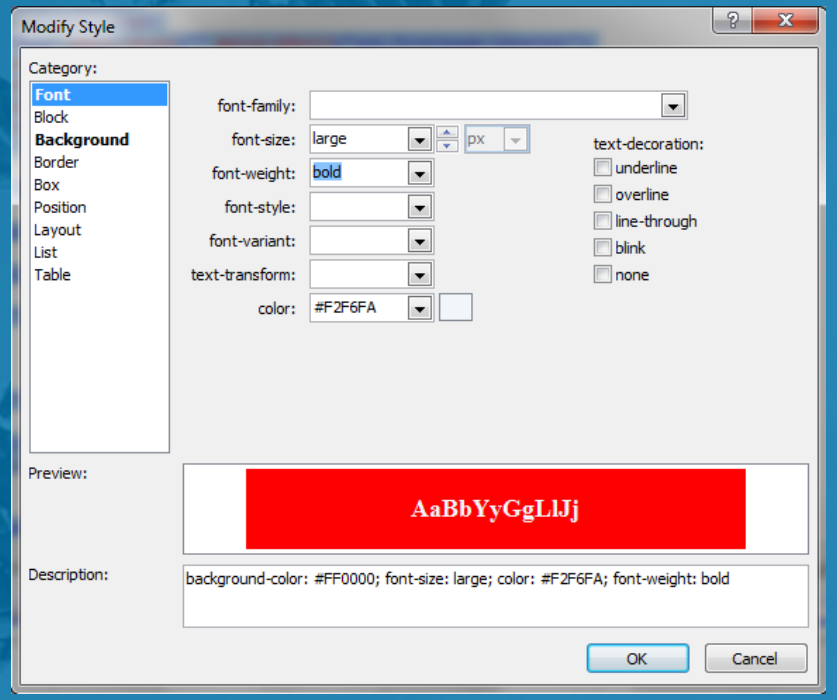
- Apply conditional formatting based on rules and expressions.
- Use for:
  - Show Content
  - Hide Content
  - Format Content



Conditional Formatting

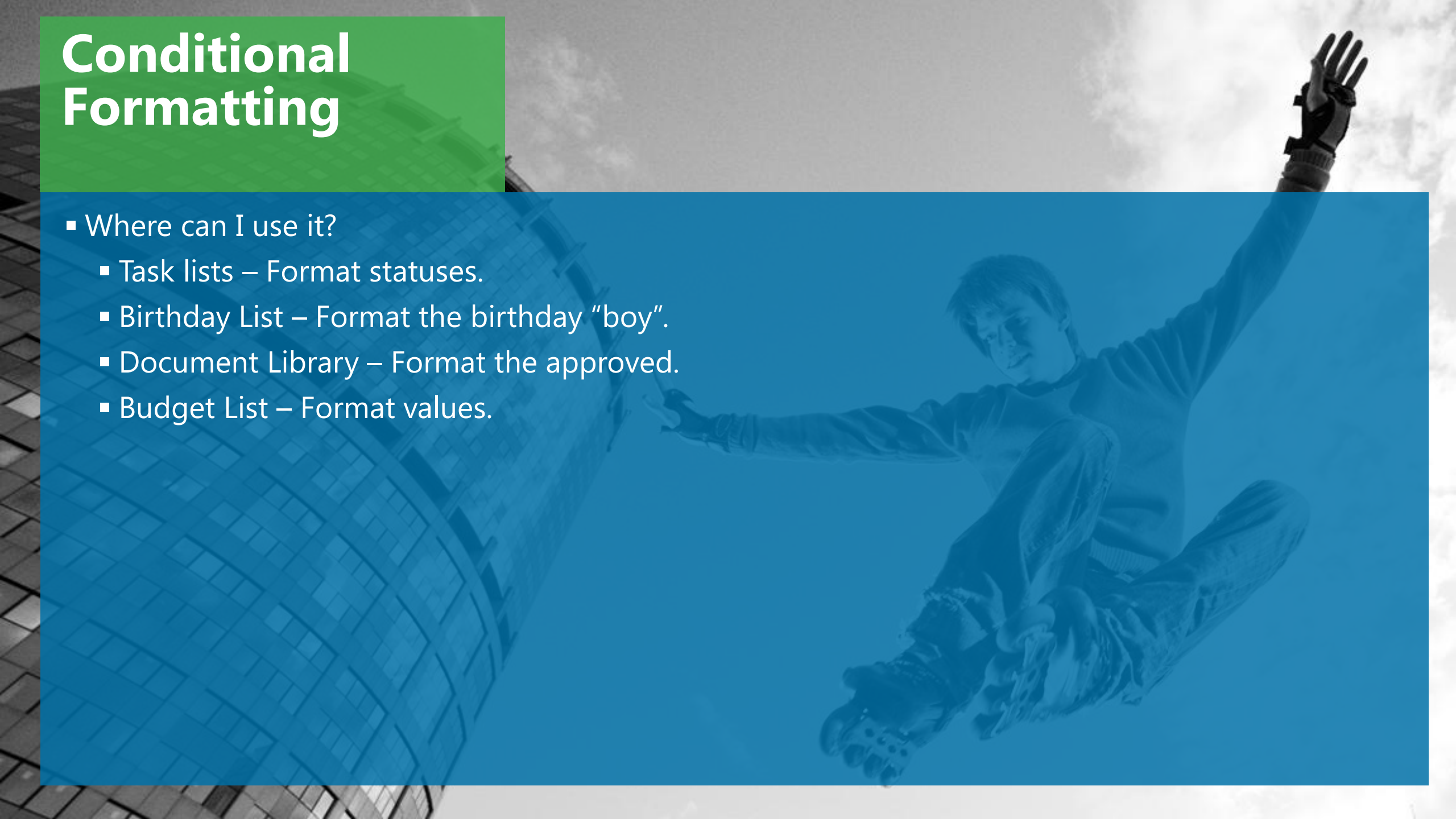
- Select the desired row
- Set the rule
- Modify the style





Conditional Formatting

- Where can I use it?
  - Task lists – Format statuses.
  - Birthday List – Format the birthday “boy”.
  - Document Library – Format the approved.
  - Budget List – Format values.



Demo
DVWP –
Deep Dive
מכללת הי-טק
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תלמד הי-טק. זה עובד!
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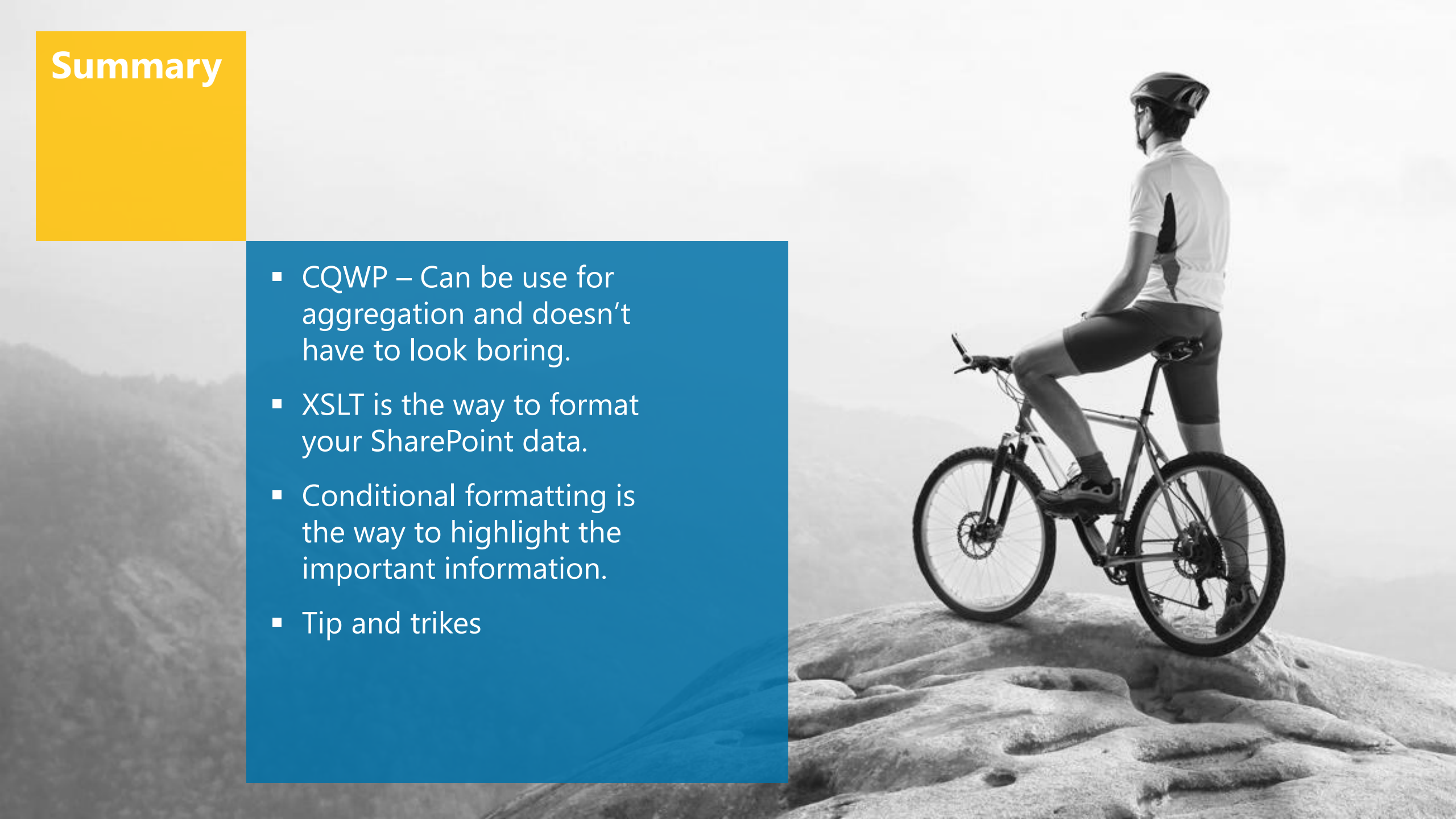
Be what's next.

Tips and Tricks

- Use consistent site columns for content filtering.
- ALL XML inside a <property/> tag must be enclosed in a <![CDATA[ ]]> block.
- Upload to the web part gallery.
- If you need to query against >1000 lists you can add the MaxListLimit attribute to the ListsOverride property.
  - By default this is set to 1000
  - There is a performance trade-off here
- When filtering on Yes/No data type use the value “1” and “0”
- To render HTML and not raw tags set the disable-output-escaping attribute to true:
  - <xsl:value-of select="@InternalName" disable-output-escaping="yes"/>
- Use “Empty Data View” to start DVWP.

Summary

- CQWP – Can be use for aggregation and doesn't have to look boring.
- XSLT is the way to format your SharePoint data.
- Conditional formatting is the way to highlight the important information.
- Tip and trikes



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SharePoint Implementer @ top soft
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