schema.org TechArticle

Thing > CreativeWork > Article > **TechArticle**

A technical article - Example: How-to (task) topics, step-by-step, procedural troubleshooting, specifications, etc.

Property	Expected Type	Description
Properties from Thing		
description	Text	A short description of the item.
image	URL	URL of an image of the item.
name	Text	The name of the item.
url	URL	URL of the item.
Properties from CreativeWork		
about	Thing	Anchor link to subject matter definition of the content / reference article for the given product / technology category / Scenario / reference to code.
accountablePerson	Person	Specifies the Person that is legally accountable for the CreativeWork.
aggregateRating	AggregateRating	The overall rating, based on a collection of reviews or ratings, of the item.
alternativeHeadline	Text	A secondary title of the CreativeWork.
associatedMedia	MediaObject	The media objects that encode this creative work. This property is a synonym for encodings.

audio	AudioObject	An embedded audio object.
author	Person or Organization	The author of this content. Please note that author is special in that HTML 5 provides a special mechanism for indicating authorship via the rel tag. That is equivalent to this and may be used interchangeably.
awards	Text	Awards won by this person or for this creative work.
comment	UserComments	Comments, typically from users, on this CreativeWork.
contentLocation	Place	The location of the content.
contentRating	Text	Official rating of a piece of content—for example, 'MPAA PG-13'.
contributor	Person or Organization	A secondary contributor to the CreativeWork.
copyrightHolder	Person or Organization	The party holding the legal copyright to the CreativeWork.
copyrightYear	Number	The year during which the claimed copyright for the CreativeWork was first asserted.
creator	Person or Organization	The creator/author of this CreativeWork or UserComments. This is the same as the Author property for CreativeWork.
dateCreated	Date	The date on which the CreativeWork was created.
dateModified	Date	The date on which the CreativeWork was most recently modified.
datePublished	Date	Date of first broadcast/publication.
discussionUrl	URL	A link to the page containing the comments of

		the CreativeWork.
editor	Person	Specifies the Person who edited the CreativeWork.
encodings	MediaObject	The media objects that encode this creative work
genre	Text	Specifies content type and purpose that aligns with audience intent. (e.g. How-to, Security Bulletin, News, Code Sample, Reference, Support Knowledge Base (KB), FixIt Utility, Download)
headline	Text	Headline of the article
inLanguage	Text	The language of the content. Please use one of the language codes from the IETF BCP 47 standard.
interactionCount	Text	A count of specific user interactions with this item—for example, `20 UserLikes`, `5 UserComments`, or `300 UserDownloads`. The user interaction type should be one of the subtypes of UserInteraction.
isFamilyFriendly	Boolean	Indicates whether this content is family friendly.
keywords	Text	The keywords/tags used to describe this content.
mentions	Thing	Indicates that the CreativeWork contains a reference to, but is not necessarily about a concept.
offers	Offer	An offer to sell this item—for example, an offer to sell a product, the DVD of a movie, or tickets to an event.

provider	Person or Organization	Specifies the Person or Organization that distributed the CreativeWork.
publisher	Organization	The publisher of the creative work.
publishingPrinciples	URL	Link to page describing the editorial principles of the organization primarily responsible for the creation of the CreativeWork.
reviews	Review	Review of the item.
sourceOrganization	Organization	The Organization on whose behalf the creator was working.
thumbnailUrl	URL	A thumbnail image relevant to the Thing.
version	Number	The version of the CreativeWork embodied by a specified resource.
video	VideoObject	An embedded video object.
Properties from Article		
articleBody	Text	The actual body of the article.
articleSection	Text	Articles may belong to one or more sections in a magazine of newspaper. Example – Lifestyle, sports.
wordCount	Integer	The number of words in the text of an article.
Properties from TechArticle		
dependencies	Text	Prerequisites needed to fulfill steps in article.
proficiencyLevel	Text	Beginner, Expert
technicalAudience	Text	Programmer, DBA, End-User, System Administrator, Web Developer

TechArticle Example 1

```html
<html itemscope itemtype=http://schema.org/TechArticle
xmlns="http://www.w3.org/1999/xhtml">
  <head>
    <meta name="Description" itemprop="description" content="Summary:  Learn to use the
SharePoint Foundation 2010 managed client object model to write applications that are
based on the .NET Framework and access SharePoint content from clients without installing
code on the server that runs SharePoint Foundation 2010."
          xmlns:c="urn:msdn-com:mtps/2004/1/common" xmlns="http://www.w3.org/1999/xhtml"
/>
    <meta name="keywords" itemprop="keywords" content="object model [SharePoint
2010],client object model in sharepoint 2010,sharepoint 2010 object model,sharepoint
client object model,client object model in sharepoint 2010,sharepoint 2010 object
model,sharepoint client object model"
          xmlns="http://www.w3.org/1999/xhtml" />
    <meta name="Ms.Locale" itemprop="inLanguage" content="en-us" />
    <link rel="canonical" itemprop="url" href="http://msdn.microsoft.com/en-
us/library/ee857094.aspx"
        xmlns="http://www.w3.org/1999/xhtml" />
    <meta name="DCSext.Role" itemprop="technicalAudience" content="web developers" />
    <meta itemprop="genre" content="How-to"/>

  </head>
  <body>
    <div itemprop="about" itemscope itemtype="http://schema.org/Product">
      <p>
        <strong>Applies to:</strong>
        <span itemprop="name">SharePoint Foundation 2010</span>
      </p>
        <meta itemprop="model" content="2010"/>
        <meta itemprop="currentModel" content="2010"/>
    </div>
    <div itemprop="author" itemscope itemtype="http://schema.org/Person">
      <p>
        <strong>Provided by:</strong> <span itemprop="givenName">Eric</span> <span
itemprop="familyName">
          White
        </span>, <span itemprop="worksFor">Microsoft Corporation</span>
      </p>
    </div>

    <span itemprop="about" itemscope itemtype="http://schema.org/CreativeWork">
      <meta itemprop="name" content="SharePoint - Development and Programming"/>
      <meta itemprop="url" content="http://msdn.microsoft.com/en-
us/sharepoint/aa905688.aspx"/>
    </span>

    <h1 class="heading" itemprop="articleSection">
      Overview
    </h1>
```

```html
<div id="section99" class="section">
  ...
</div>

...

<a id="SP2010ClientOM_Creating_Populating_List"></a>
<h1 class="heading" itemprop="articleSection">
  Creating and Populating a List
</h1>
<div id="section601" class="section">
  <p>
    The following example creates a list, and adds some fields and several items to
    it.
  </p>
  <div class="codeSnippetContainer" itemscope itemtype="http://schema.org/Code"
xmlns="http://www.w3.org/1999/xhtml">
    <div class="codeSnippetContainerTabs">
      <div class="codeSnippetContainerTab codeSnippetContainerTabSingle"
itemprop="programmingLanguage" dir="ltr">
        <a>C#</a>
      </div>
      <meta itemprop="name" content=" Creating and Populating a List" />
      <meta itemprop="targetProduct" content="SharePoint Foundation 2010" />
    </div>
    <div class="codeSnippetContainerCodeContainer">
      <div class="codeSnippetToolBar">
        <div class="codeSnippetToolBarText">
          <a name="CodeSnippetCopyLink" title="Copy to clipboard."
href="javascript:CodeSnippet_CopyCode('CodeSnippetContainerCode_cd850452-d551-431d-b0d9-
d6dc46b73eed');">
            Copy
          </a>
        </div>
      </div>
      <div id="CodeSnippetContainerCode_cd850452-d551-431d-b0d9-d6dc46b73eed"
class="codeSnippetContainerCode"
        itemprop="codeSample" content="snippet"  dir="ltr">

        <div style="color: Black;">
          <pre>
            <span style="color: Blue;">using</span> System;
            <span style="color: Blue;">using</span> Microsoft.SharePoint.Client;

            <span style="color: Blue;">class</span> Program
            {
            <span style="color: Blue;">static</span> <span style="color:
Blue;">void</span> Main()
            {
            ClientContext clientContext =
            <span style="color: Blue;">new</span> ClientContext(<span style="color:
#A31515;">"http://intranet.contoso.com"</span>);
            Web site = clientContext.Web;

            <span style="color: Green;">// Create a list.</span>
            ListCreationInformation listCreationInfo =
            <span style="color: Blue;">new</span> ListCreationInformation();
```

```
                listCreationInfo.Title = "Client API Test
List";
                listCreationInfo.TemplateType = (int)ListTemplateType.GenericList;
                List list = site.Lists.Add(listCreationInfo);

                // Add fields to the list.
                Field field1 = list.Fields.AddFieldAsXml(
                  @"&lt;Field Type='Choice' DisplayName='Category' Format='Dropdown'&gt;
                    &lt;Default&gt;Specification&lt;/Default&gt; &lt;CHOICES&gt;
&lt;CHOICE&gt;Specification&lt;/CHOICE&gt;
                    &lt;CHOICE&gt;Development&lt;/CHOICE&gt;
&lt;CHOICE&gt;Test&lt;/CHOICE&gt; &lt;CHOICE&gt;Documentation&lt;/CHOICE&gt;
                    &lt;/CHOICES&gt; &lt;/Field&gt;"
                 ,
                 true, AddFieldOptions.DefaultValue);
                Field field2 = list.Fields.AddFieldAsXml(
                 @"&lt;Field Type='Number'
DisplayName='Estimate'/&gt;",
                 true, AddFieldOptions.DefaultValue);

                // Add some data.
                ListItemCreationInformation itemCreateInfo =
                 new ListItemCreationInformation();
                ListItem listItem = list.AddItem(itemCreateInfo);
                listItem["Title"] =
                    "Write
                    specs for user interface."
                 ;
                listItem["Category"] =
"Specification";
                listItem["Estimate"] =
"20";
                listItem.Update();

                ...
                }
                }
              </pre>
            </div>
          </div>
        </div>
      </div>


      <div id="section1163" class="section" itemprop="mentions" itemscope
itemtype="http://schema.org/TechArticle">
        <p>
          For more information, see the following resources:
        </p>
        <ul>
          <li class="unordered">
            <a href="http://blogs.msdn.com/EricWhite/" itemprop="url">
              <span itemprop="name">Eric White's Blog</span>
            </a>
            <br />
```

```html
        </li>
      </ul>
    </div>

    <div id="ReviewValue" itemprop="aggregateRating" itemscope
itemtype="http://schema.org/AggregateRating">
      <span>
        <meta itemprop="ratingValue" content="3.1" />
        <meta itemprop="reviewCount" content="29" />
      </div>

    <h1 class="heading" itemprop="articleSection">
      Change History
    </h1>
    <div id="section1206" class="section">
      <h3 class="subHeading">
      </h3>
      <table>
        <tr>
          <th>
            Date
          </th>
          <th>
            Reason
          </th>
        </tr>
        <tr>
          <td>
            <p>
              <span itemprop="dateModified">
                2010-01-01
              </span>
            </p>
          </td>
          <td>
            <p>
              Content update
            </p>
          </td>
        </tr>
        <tr>
          <td>
            <p>
              <span itemprop="dateCreated">2009-11-01</span>
            </p>
          </td>
          <td>
            <p>
              Initial publication
            </p>
          </td>
        </tr>
      </table>
    </div>

  </body>
```

Example 2

This technical article is about JavaScript and can apply to either Metro style application development, or Internet Explorer.

```html
<div itemscope itemtype ="http://schema.org/TechArticle">
  <h1 itemprop="headline">Fundamentals of JavaScript</h1>

  <div itemprop="about">
    <a href="http://msdn.microsoft.com/en-
us/library/windows/apps/6974wx4d(v=vs.94).aspx" itemprop="url">Metro style
apps</a>
  </div>

  <div itemprop="about">
    <a href="http://msdn.microsoft.com/en-us/library/ie/6974wx4d(v=vs.94).aspx"
itemprop="url">Internet Explorer</a>
  </div>
</div>
```