Sandcastle www.





Sandcastle Help File Builder (SHFB)

A Reference to Sandcastle's XML Documentation Comments

Michael Sorens • Copyright © 2010-2011 • V1.0.4 • 2011.08.03

This quick reference accompanies Taming Sandcastle: A .NET Programmer's Guide to Documenting Your Code at http://www.simple-talk.com/dotnet/.net-tools/tamingsandcastle-a-.net-programmers-guide-to-documenting-your-code/.



.NET SHFB S child/inline • text Format short text content as code. Formats code fragments inline; compare to <code>. <code> .NET SHFB S child/block • text|element Language [lang=language_ID | language= language_ID]

Numerical [tabsize=number_of_spaces] **Boolean** [filter] [keepSeeTags] [numberLines] [outlining] [removeRegionMarkers]

Format block as code with syntax highlighting for supported languages (default C#). Child: <code>

[region=region_name] [source=file_name] [title=text]

- SHFB adds all above custom attributes to the .NET standard <code> tag.
- Only source and region attributes may be used when nesting <code> elements.
- If title is omitted, language becomes the title; to suppress, set title to single space.
- Attributes are supported by SHFB only, not .NET or Sandcastle.
- Filter attribute applies only to VS2005.

SHFB Help ► Conceptual and Additional Content ► Additional Content

SHFB Help ► Custom Build Components ► Code Block Component

<example> .NET SHFB S root • mixed

Generates an eponymous output section. Typically includes <para> and <code> elements

Specifies exceptions that can be thrown from the current member.

Compiler does not require <exception> tags but will validate cref value if used.

<exclude> SHFB root • empty Suppresses documenting the current member in the generated output.

Supported by SHFB but preferred approach is to use the ApiFilter project property

<filterpriority> root ● text

Used by the VB editor to filter elements in the auto-complete popup.

Not used by Sandcastle at all. Valid values are 0 to 3. See Scott Dorman's blog

<u>sinclude</u> .NET SHIFB S root • empty file=file_name path=XPath_expr Imports a block of XML comments from an external file.

Select all or part of an XML file with an XPath expression.

<inheritdoc> SHFB S root|child/block • empty [cref=member] [select=XPath_expr] Inherit common information from ancestors.

Must use cref attribute unless at root level.

- <overloads> tag is never inherited; use select="overloads/*" if needed.
- <param> tags are only inherited if names match base class names.
- Use cref and/or select, plus nested tags, to refine inheritance.

SHFB Help ▶ Getting Started ▶ Using the <inheritdoc /> Tag

type="bullet" "number" "table" "definition"

Create a list or table.

Child: child: child if present) and <item> (multiple instances allowed), each of which contain successive children <term> and <description>.

Table, bulleted list, or numbered list require just <description> in each <item>.

Definition list (not officially supported) requires both <term> and <description>. Table requires only a <term> in the stheader>, if present.

<note> SHFB S child/inline • mixed type="caution"|"inheritinfo"|"implementnotes" Format text block as a note.

Use this for a paragraph that should stand out.

<overloads> SHFB S root ● mixed

Adds documentation specific to the overloads page of an overloaded member.

May contain any root elements

Structure a text block as a paragraph.

Use to structure your text containing multiple paragraphs.

<param> ✓ .NET SHFB S root • mixed

Describes an ordinary (non-type) parameter of a method or constructor

Should be a sentence—not just a fragment—describing each method parameter

<paramrep .NET SHFB S child/inline • empty | |</pre> name=param_name Indicates that a word refers to an ordinary parameter

<permission> ✓ .NET SHFB S root • mixed

cref=member

Document the security accessibility of a member.

Very few examples of this tag exist; all set cref to System. Security. Permission Set.

This wall chart originally appeared in the Simple-Talk.com newsletter and is available electronically here - or type this URL: http://tiny.cc/q9urn.



on 4.0 details the language constructs across the top. Content column terms come from XMI

SHFB child/inline • text|element

[lang=language_ID] [title=text] [tabsize=number_of_spaces]
[numberLines="true"|"false"] [outlining="true"|"false"]

Syntax-highlights code just like <code> but in HTML additional content files.

- Child: <code>
- does not apply to XML doc comments, only additional files.
- SHFB adds these custom attributes to the standard HTML tag.

SHFB Help ► Conceptual and Additional Content ► Additional Content

Empty content generates a default message.

<remarks> .NET SHFB S root • mixed

Generates an eponymous output section

<returns> .NET SHFB S root ● mixed Describes the return value of a method.

cref=member | href=URL

Generates an inline hyperlink to an internal (cref) or external (href) target.

> You may use relative (to ./html directory) href paths; same for <a> and .

See discussions of other important usage points in <u>Taming Sandcastle</u> article.

cref=member | href=URL Generates an eponymous output section.

Generates a block hyperlink to an internal (cref) or external (href) target.

All such links are collected in the "See Also" section of the page.

Summary NET SHFB S root • mixed Generally short description of a type or member at the top of the generated page.

The most important element; its content is used for Intellisense, quick info. class

- view, class designer, object browser, as well as aggregate pages in the generated output (e.g. method list page shows <summary> from each method).
- <summary> is required on every member unless inherited with <inheritdoc>. Comments automatically inherited for explicit interface members lacking comments

Describes how a class or structure behaves in a multi-threaded scenario.

Specify class references and instance references separately via attribute

<tocexclude> SHFB root ● empty

Suppresses documenting the current member in the table of contents.

SHFB Help ▶ Build Process Plug-Ins ▶ <u>Table of Contents Exclusion Plug-In</u>

name=tvpe param name

> Should be a sentence—not just a fragment—describing each type parameter.

<u><typeparamreP</u> .NET SHIFB S child/inline • empty name=type_param_name

Indicates that a word refers to a type parameter

Required even though Visual Studio uses <summary>, not <value>, for Intellisense

	(A) Encoding:	lechniques for Including Special XML Characters			
	< ▶ <	> ► >	& ► &	" ► "	'▶'
	(B) By reading from an external file (<include>, <code>). (C) By using a CDATA section (<!-- [CDATA[]]-->).</code></include>				

Material for this wall chart derived in part from:

- Eric Woodruff's Sandcastle Help File Builder Documentation (SHFB Creator)
- C# Prog. Guide: Recommended Tags for Documentation Comments (MSDN) • Wm. Eric Brunsen's XML Documentation Comments Guide (Dynicity)
- Anson Horton's XML Documentation in C# (Microsoft C# Compiler Program Manager)