Cheatography

T4 Templates Cheat Sheet

by Greg Finzer (GregFinzer) via cheatography.com/15280/cs/24200/

T4 Extensions

Devart T4 Editor	https://www.devart.com/t4-editor/
Tangible Engineering T4 Editor	https://t4-editor.tangible-engineering.com/T4-Editor-Visual-T4-Editing.html
Resharper T4 Extension	https://plugins.jetbrains.com/plugin/13469-fortea/

Microsoft Documentation on T4

Overview of T4	https://docs.microsoft.com/en-us/visualstudio/modeling/code-generation-and-t4-text-templates?view=vs-2019
Writing a T4 Template	https://docs.microsoft.com/en-us/visualstudio/modeling/writing-a-t4-text-template?view=vs-2019
TextTransformer.exe	https://docs.microsoft.com/en-us/visualstudio/modeling/generating-files-with-the-texttransform-utility?view=-vs-2019

Template Header

Define Language and Debugging	`<#@ template debug= " fal se" hostsp eci f`
Define File Extension	`<#@ output extens ion =".c s" #>`
Reference Built In Assembly	`<#@ assembly name="S yst em.C or e" #>`
Reference External Assembly	`<#@ assembly name="$ (pr oje ctD ir) \As s ra tor -Lo gic.dl l" #>`
Include Another Template	`<#@ include file="$ (pr oje ctD ir) \In cl`

Control Blocks

```
<#
        for(int i = 0; i < 4; i++)
        {#>
                This is index <#= i+1 #>
<# }#>
```

Videos on T4 Templates

C# Code Generation Using T4 Templates	https://www.youtube.com/watch?-v=kGvwOwv7KQ8
Code Generation with T4 Templates	https://www.youtube.com/watch?-v=XK17iNvJqQs

Text Template Utility Methods

WriteLine("Some Text")
Write("Some Text")
PushIndent("\t")
ClearIndent()

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Class Feature Block

```
<#+
        private string GetTem pla teD ire ctory()
       {
                return Path.G etD ire cto ryN ame -
(Ho st.T em pla teF ile);
       }
        private void SaveOu tpu t(s tring output -
Fil eName, string subDir ectory= " ") {
                string templa teD ire ctory =
GetTem pla teD ire cto ry();
               if (!stri ng.I sN ull OrE mpt y(s -
ubD ire ctory))
               {
                        tem pla teD ire ctory =
Path.C omb ine (te mpl ate Dir ectory, subDir ect -
ory);
               }
                string output Fil ePath = Path.C -
omb ine (te mpl ate Dir ectory, output Fil eName);
               if (!Dire cto ry.E xi sts (te mpl -
ate Dir ect ory))
               {
                        Dir ect ory.Cr eat eDi -
rec tor y(t emp lat eDi rec tory);
               }
                Fil e.W rit eAl lTe xt( out put -
Fil ePath, this.G ene rat ion Env iro nme nt.T oS -
tri ng());
                thi s.G ene rat ion Env iro nme -
nt.C le ar();
       }
#>
```

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