Cheatography

Microsoft Extensibility Framework Cheat Sheet

by r.schindhelm via cheatography.com/51393/cs/14064/

Export

Export type	`[Export(typeof(IOperation))]` `class A : IOperation { }`

Export type hierarchy	`[InheritedExport(typeof(IOperation))]`
	`class A : IOperation { }`
	`class B : A { }`

Export specific contract (category)	`[Expor t("M yCo ntr act ", typeof(IOperati on))]` `class A : IOperation { }`

Import

0..1	`[Impor t(A llo wDe fault = true)]` `IOperation operation;`
1..1	`[Import]` `IOperation operation;`
0..*	`[ImportMany]` `IEnumerable<Lazy<IOperation, IOpera tio nMe tad ata >> operat ions;`
Import specific contract	`[Import("MyContract")]` `IOperation operation;`

The import attributes work on class fields.
For the ImportMany attribute to work, the type of the field must be a collection type.

Catalogs

Aggregate-Catalog	Combines multiple catalogs.
ApplicationCatalog	Discovers attributed parts in the dynamic link library (DLL) and EXE files in an application's directory and path.
AssemblyCatalog	Discovers attributed parts in a managed code assembly.
DirectoryCatalog	Discovers attributed parts in the assemblies in a specified directory. Use the overload with two parameters to narrow down DLLs and EXEs.
FilteredCatalog	Represents a catalog after a filter function is applied to it.
TypeCatalog	Discovers attributed parts from a collection of types.

Boilerplate code for using 0..n catalogs:

```
var catalog = new AggregateCatalog();
catalog.Catalogs.Add(otherCatalog);
var container = new Compos iti onC ont ain er( cat alog);
```

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