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Abstract

C# coding conventions and standards.

C# Best Practices

Naming conventions and standards

**camelCasing**: private fields, local variables and input params for a method.

**PascalCasing**: classes, public properties and methods, const and readonly variables, namespaces, constructors, delegates and enums.

**Noun/Noun phrases**: Classes, Structs and Interfaces (Interface names can also be adjectives).

**Verb**: Methods.

**Do’s and Don’ts:**

* Do not use Hungarian notation or any other type identification in identifiers.
* Do not use UPPERCASING for constants or readonly variables.
* Do prefix interfaces with the letter I.
* Avoid using Abbreviations in variable names. Commonly used acronyms like Id, Uri, Http, Html, Ftp, Xml etc. can be exceptions.
* Always use meaningful names.
* Do not use Underscores in identifiers. You can still prefix private fields with an underscore.
* Do use implicit type var for local variable declarations. However, avoid var while declaring primitive types like int, string, double etc.
* Do organize namespaces with a clearly defined structure. Examples:
  + Company.Technology.Feature
  + Company.Product.Module.SubModule
  + Product.Layer.Module.Group
  + Product.Module.Component
* Do vertically align curly brackets.
* Do declare all member variables at the top of a class, with static variables at the very top.
* Do use singular names for enum.
* Do not use an "Enum" suffix in enum type names.
* Do not use "Flag" or "Flags" suffixes in enum type names.
* Do use suffix Exception for custom exceptions.
* Do use prefixes like Has, Any, Is, Have etc. for boolean identifiers.

General standards

* Always add a summary (XML document comments) to the class and its members.
* Keep one class per file.
* Do not perform too much work in the constructor.
* Do not keep the name of namespace same as that of class.
* Use *Cleanup Using Statements* feature of VS to remove unnecessary namespaces in your class.
* Use object initializers to simplify object creation.
* Use auto implemented properties.

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