Read-only and immutable collections





ReadOnlyCollection
ReadOnlyDictionary
Immutable collections

ReadOnlyCollection



It's a list

Namespace: System.Collections.ObjectModel

ReadOnlyCollection

Read-only base class wrapper around lists
It's a list, elements have an index
Throws an exception if the underlying list is modified
If you have the reference, the underlying list can be modified

AsReadOnly

The AsReadOnly() list method creates a read only list from a list

Demo

Declare/Instantiate read only collections
Use read only collection methods

ReadOnlyDictionary



ReadOnlyDictionary

Similar to ReadOnlyCollection
Read-only wrapper for dictionary

Demo

Declare/Instantiate read only dictionaries
Use read only dictionaries methods

Immutable collections



Immutable collections

Collections that can't be modified
Immutable collections are REALLY immutable
The immutable collection package must be installed

Demo

Declare/Instantiate immutable collections
Use immutable collection methods



A ReadOnlyCollection is a read-only wrapper around a list

A ReadOnlyDictionary is a read-only wrapper around a dictionary

These collections can be modified if you can modify the underlying type

Immutable collections must be used if you need a real immutable collection