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Static Classes

Introducing Static Classes

- > Static class is a class that can contain only "static members".
- > If you don't want even single 'instance member' (non-static member), then use 'static class'.
- > We can avoid accidental creation of object for the class, by making it as "static class".
- > Use static classes to create ONLY static members (static fields, static methods etc.)

```
static class ClassName
{
    static fields
    static methods
    static constructors
    static properties
    static events
}
```

> Use non-static classes to create both instance & static members [or] only instance members.

Class Type	Can Inherit from Other Classes	Can Inherit from Other Interfaces	Can be Inherited	Can be Instantiated	
Normal Class	Yes	Yes	Yes	Yes	
Abstract Class	Yes	Yes	Yes	No	
Interface	No	Yes	Yes	No	
Sealed Class	Yes	Yes	No	Yes	
Static Class	N o	No	N o	N o	

Туре	1. Non- Static Fields	2. Non-Static Methods	3. Non-Static Constructors	4. Non-Static Properties	5. Non-Static Events	6. Non-Static Destructors	7. Constants
Normal Class	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Abstract Class	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Interface	No	No	No	No	Yes	No	No
Sealed Class	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Static Class	No	No	No	No	No	No	Yes

Туре	8. Static Fields	9. Static Methods	10. Static Constructors	11. Static Properties	12. Static Events	13. Virtual Methods	14. Abstract Methods	15. Non-Static Auto-Impl Properties	16. Non-Static Indexers
Normal Class	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes
Abstract Class	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Interface	No	No	No	No	No	No	Yes	Yes	No
Sealed Class	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes
Static Class	Yes	Yes	Yes	Yes	Yes	No	No	No	No