

|                |                       |                  |   |   |   |                                     |                     |  |              |                                       |                             |   | members  |                            |                                 |                    |   |  |  |        |          |  |
|----------------|-----------------------|------------------|---|---|---|-------------------------------------|---------------------|--|--------------|---------------------------------------|-----------------------------|---|--|----------------------------|---------------------------------|--------------------|---|--|--|--------|----------|--|
|                | definition            | define operators | base class ( this class inherits from other )                         | derived (other classes can inherit this one ) | what members inherits from his base class                   | inherited members are accesible     | type of inheritance | Interfaces (can implement )                                | instantiated | declaration modifiers                 | executable code             | constituent types (types used in member declarations)         | general  | members implicitly made... | nested class implicitly made... | constants          | fields  | methods                                      | properties                             | events | indexers |  |
| class          | reference type        |                  | can't be System.{Array, Delegate, Enum, ValueType}, and have only one | yes   | All except instance constr., finalizers, and static constr. | it depends on accesibility modifier | transitive          | several, and re-implement                                  | yes          | PB, PT, INPT, IN, PV (D) *            | inside function members (*) | constant field property event indexer, return type of method* | PTIN is the only allowed combination of mem. access mod. |                            |                                 | NW, PB, PT, IN, PV | NW, PB, PT, IN, PV, ST, RO, VL                          | NW, PB, PT, IN, PV, ST, VR, SD, OV, AT, EX * | NW, PB, PT, IN, PV, ST, VR, SD, OV, AT |        |          |  |
| abstract class | can't be instantiated |                  | yes   | can be derived to abstract and non abstract   |   |                                     |                     | several, re-implement, and map intf. methods onto abstract | NO           |                                       | yes                         |   | abstract members are permitted (but not required)        |                            |                                 |                    | can have variables and values but they must be null (*) | yes  |  |        | yes      |  |
| static class   |                       | NO               | NO  | NO  |   |                                     |                     | NO   | NO           |                                       | yes                         |   | only ST and NOT PTIN                                     | nothing                    |                                 |                    |   |  |  |        |          |  |
| sealed class   | can't be derived      |                  | yes   | can't be                                      |   |                                     |                     |  | yes          |                                       |                             |   |  |                            |                                 |                    |   |  |  |        |          |  |
| struct         | value type            |                  | not support definition , but inherits from System.ValueType           | not supported                                 |   |                                     |                     | several, and re-implement                                  | N.A.         | NW, PB, PT, IN, PV                    |                             |   |  |                            |                                 | yes                | yes   | yes  | yes                                    | yes    | yes      |  |
| interface      | define a contract     |                  | Base interfaces!  |   |   |                                     |                     | can inherit multiple base-interfaces                       | N.A.         | NW (only in nested) PB, PT, INT, PV * | NO                          |   | cannot be declared AT, PB, PT, IN, PV, VR, OV, ST        |                            |                                 |                    |   | yes, but without implementing them           |  | yes    | yes      |  |

