

Generic Constraints

What

- › Generic Constraints are used to specify the types allowed to be accepted in the "generic type parameter".
- › where T : class
- › where T : struct
- › where T : ClassName
- › where T : InterfaceName
- › where T : new()

Generic Constraints - Example

```
class ClassName<T> where T : class
{
    public T FieldName;
}
```

Object of Generic Class - Example

```
ClassName<int> referenceVariable = new ClassName<int> ( ); //error
```

Advantage



- › You can restrict what type of data types (class names) allowed to be passed while creating object.
- › In C#, constraints are used to restrict a generics to accept only particular type or its derived types.
- › By using 'where' keyword, we can apply constraints on generics.
- › You can apply multiple constraints on generic classes or methods based on your requirements.
- › Ex: `where T : class where T2 : class`