

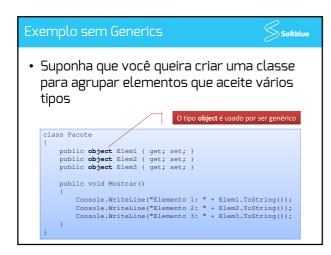


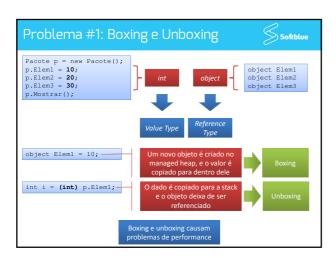
- Generics
 - Problemas de não usar o generics

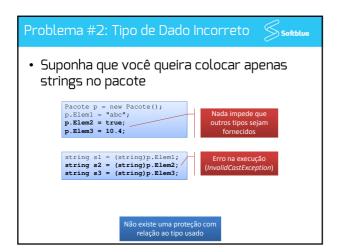
 - Boxing e UnboxingTipos de dados incorretos
- Generics e classes
- Generics e structs
- Múltiplos tipos
- Valor padrão
- Generics constraints
- Herança e implementação com generics
- Generics e métodos
 - Sobrecarga e sobrescrita

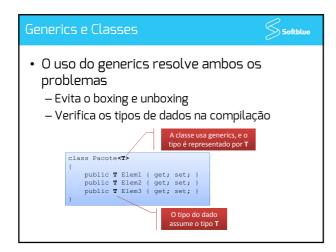


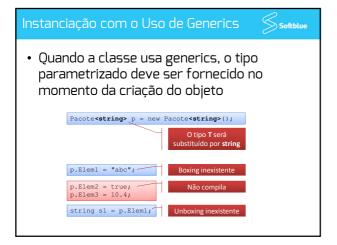
- O generics permite que classes e métodos utilizem tipos parametrizados
 - A mesma classe ou método pode receber dados dos mais variados tipos

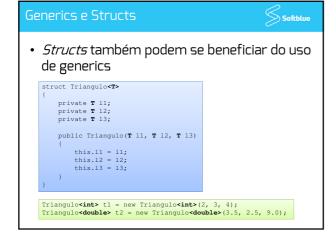




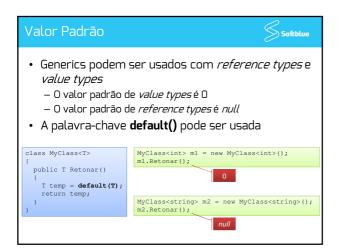


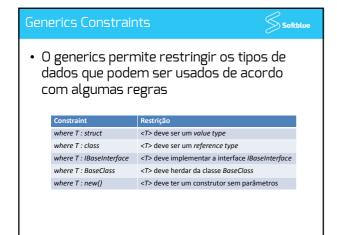




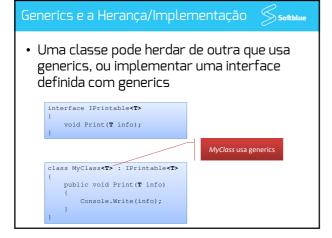


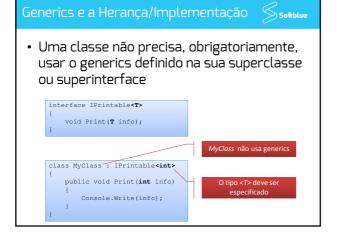


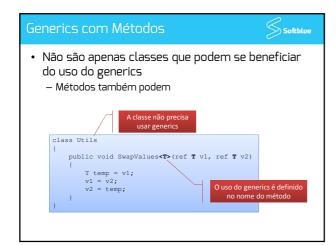


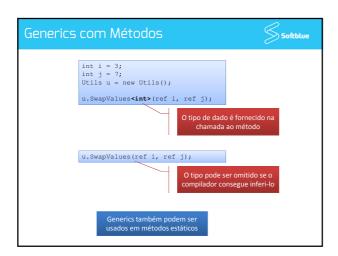












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Métodos Estáticos com Generics

• Métodos estáticos também podem usufruir dos benefícios do generics

class Utils
{
    public static void SwapValues<T>(ref T v1, ref T v2) { }
}

Utils.SwapValues<int>(ref i, ref j);

class Utils<T>
{
    public static void SwapValues(ref T v1, ref T v2) { }
}

Utils<int>.SwapValues(ref i, ref j);

class Utils<V>
{
    public static void SwapValues<T>(ref T v1, ref T v2) { }
}

Utils<int>.SwapValues(ref i, ref j);

Utils<chap>.SwapValues<int>(ref i, ref j);
```



