Delegates

Delegates pré-definidos

1.

delegate <u>void</u> <u>Action</u>();

" " Action< in T >(T obj);

" " Action< in T1, in T2 >(T1 arg1,
T2 arg2);

...

17 overloads

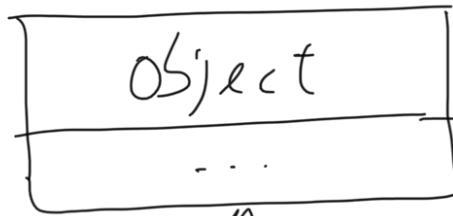delegate <u>TResult</u> <u>Func</u>< out TResult >();

" " Func< in T, out TResult(
T arg);

" " Func< in T1,
in T2,
out TResult >(
T1 arg1, T2 arg2);

...

delegate <u>bool</u> <u>Predicate</u>< in T >(<u>T obj</u>);

delegate <u>TOutput</u> <u>Converter</u>< in TInput,
out TOutput >(
<u>TInput input</u>);

```
┌─────────────────────────────┐
│          Object             │
├─────────────────────────────┤
│          ...                │
└─────────────────────────────┘
              △
              │
```

Invoca, usando
reflexão, o método
associado ao this

```
┌──────────────────────────────────────────────┐
│                Delegate                        │
├──────────────────────────────────────────────┤
│  object  DynamicInvoke (params                 │
│              object[] args)                    │
│                                                │
│  object  Target } get;{                        │
│  MethodInfo   method } set;{                    │
│                                                │
│  static  Delegate  Combine (Delegate,          │
│                                  Delegate)     │
│                                                │
│  static  Delegate  Remove (Delegate,           │
│                                  Delegate)      │
└──────────────────────────────────────────────┘
              △
              │
```

```
┌──────────────────────────────────────────────┐
│            Multicast Delegate                  │
├──────────────────────────────────────────────┤
│  ...                                           │
│  Delegate[]   GetInvocationList ()             │
└──────────────────────────────────────────────┘
              △
              │
```
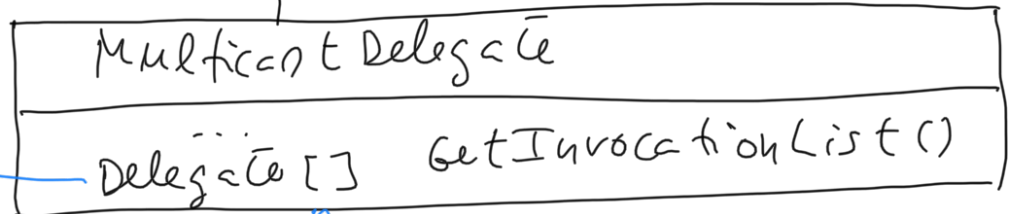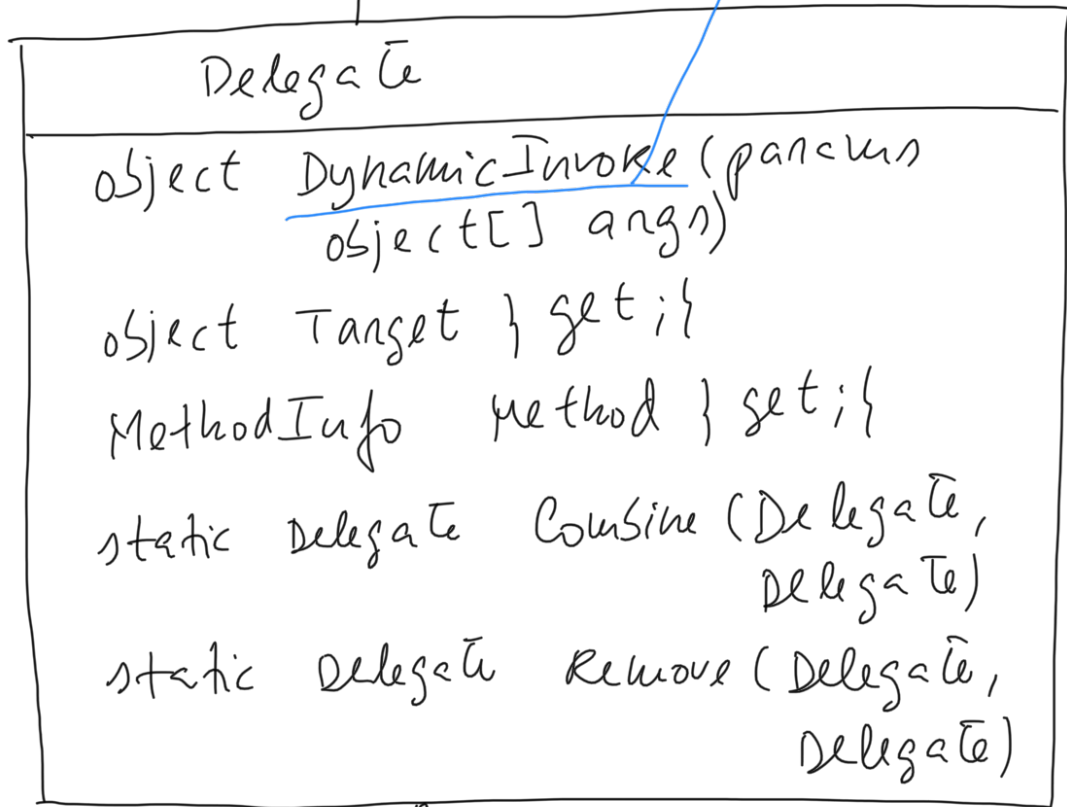
cadeia de
delegates ←

(User defined delegates)

método Invoke gerado à
medida