

C# and Microsoft .NET

Polymorphism



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Last time...

- Static, Namespaces, Class Libraries, Nuget
 - Inheritance
 - Interfaces
 - Class Diagrams
 - Abstract Classes (**not really**)
 - ... today we will have some examples 😊
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- Feedback form... why don't we try another form 😊

Principles of OOP

- Abstraction

Hide all but relevant details from end users / programmers

- Encapsulation

Hide the internal details from end users / programmers

- Inheritance

Reuse (share) logic and state from parent classes

- Polymorphism

Access a class through its parent interface

Virtual Methods

- The **virtual** keyword

```
public class class_name
{
    public virtual method_name()
    {

    }
}
```

- Overridden methods (**override** keyword)
- New methods (**new** keyword)
- Abstract vs. Virtual

Type Casting

- Type casting and polymorphism
- How the type of the reference works?
- Abstractions
 - Casting to a base class
 - Casting to a base abstract class
 - Casting to an interface

Questions?

