
Module 4 Classes and Objects

Lecture Designing a Class

Module 4 Learning Objectives

Bloom Level	Number	Name	Description	Course Learning Objectives
3: Apply	1	Use Provided Classes	Develop a console application that uses provided classes	Basic OO Concepts, Basic Programming Concepts
6: Create	2	Design New Class	Design a new class	Basic OO Concepts

At this point in the module, we've discussed the foundational OO concepts and seen how we can use those concepts in a C# program.

In this lecture, we'll step back up from programming and do a class design exercise.

In-Lecture Quiz

Working to design a rubber chicken class would be

- A: awesome
 - B: great
 - C: fantastic
 - D: wonderful
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- What role does our rubber chicken play in the game?
 - Player avatar would be awesome – but not this time
 - Weapon (melee and ranged)
 - State first, then behavior
 - Would usually end up iterating between the two in practice
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In-Lecture Quiz

Think about the information we'd need to store about the rubber chicken's state. When you're done, click Continue.

- Reasonable state information
 - Location
 - Velocity
 - Range
 - Accuracy
 - Damage
 - Probably variable
(unless we use C4)
 - Owner

In-Lecture Quiz

Think about the behavior we'd need our rubber chicken to have. When you're done, click Continue.

- Reasonable behavior
 - Update (so location changes based on velocity)
 - Explode
 - Play animation
- Unreasonable behavior
 - Turn into a live chicken

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- Recap
 - Covered the core OO concepts and C# implementations of those concepts
 - Next Time
 - We'll start using XNA
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