Classes

John Sonmez

http://simpleprogrammer.com

John.Sonmez@gmail.com



Outline

- What is a Class?
- What is an Object?
- Members
- Using Classes
- Methods
- Constructors
- Access Modifiers



What is a Class?

A way we classify things in Java











Methods and Data

- A Class is a group of related methods and data
- A Class provides blueprints for creating an Object







A Class is a Type

- A Class is a non-primitive type
- A way of extending the type system
- Everything in Java is made up of primitive types
 - Classes are groupings of those types
 - Plus methods to work with that data
- Herding complexity!





What is an Object?

- Simply put: an instance of a Class
- Purchase in a store
 - Not candy (Class)
 - Not even a specific type of candy (Class)
 - A specific actual candy bar (Object)
- A Class is a cookie cutter
- A cookie is an Object





Defining a Class

- Classes have members
 - Data
 - Method
- Printer Example:
 - Data
 - Model Number
 - Manufacturer
 - Sheets of Paper Loaded
 - □ Color / Black and White
 - Methods
 - □ Print
 - □ Turn On
 - □ Turn Off
 - Show Error







Summary

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