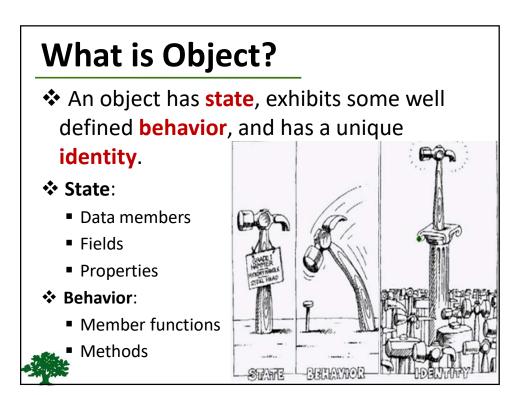
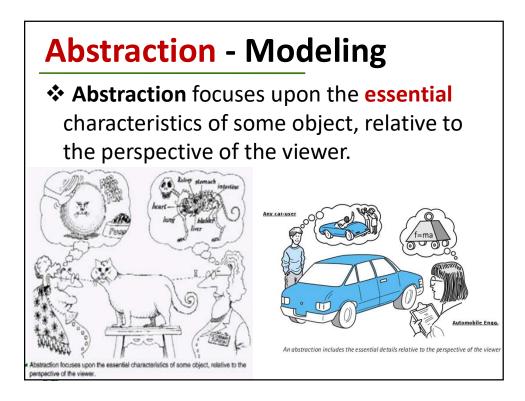


Problems with Procedural Languages

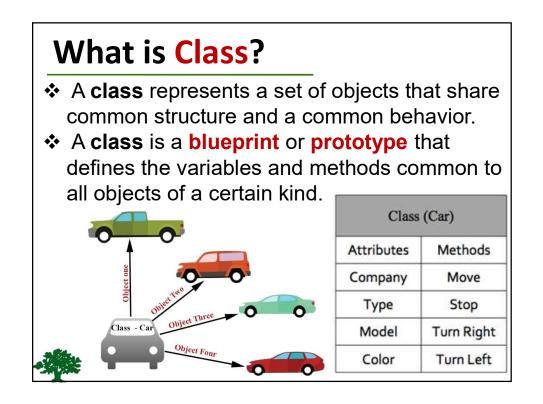
- Data does not have an owner.
- Difficult to maintain data integrity.
- Functions are building blocks.
- Many functions can modify a given block of data.
- Difficult to trace bug sources when data is corrupted.

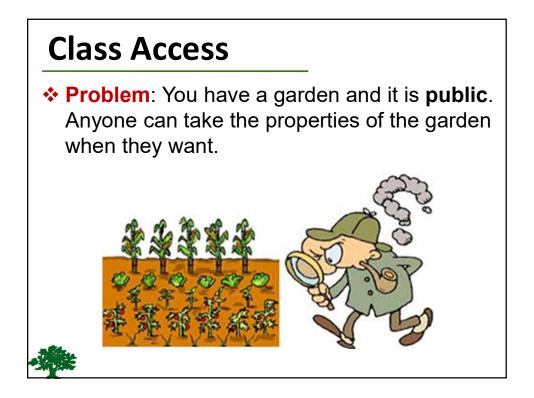
1





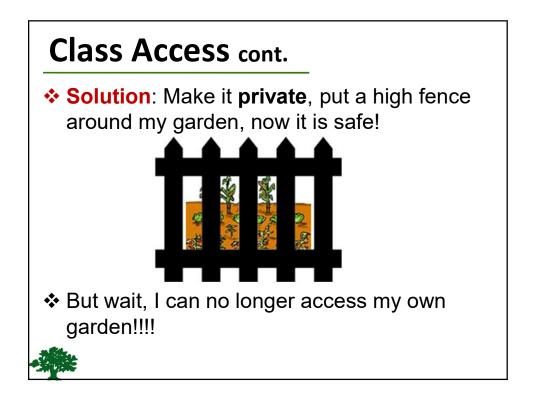
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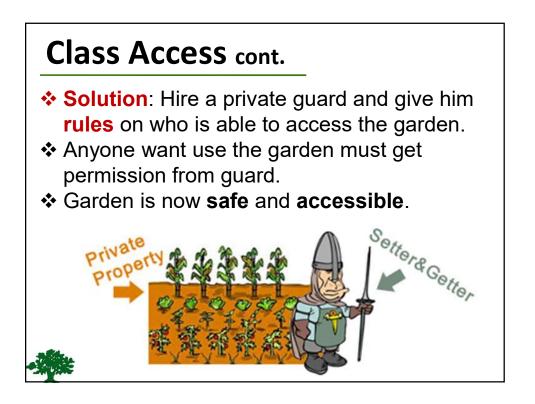


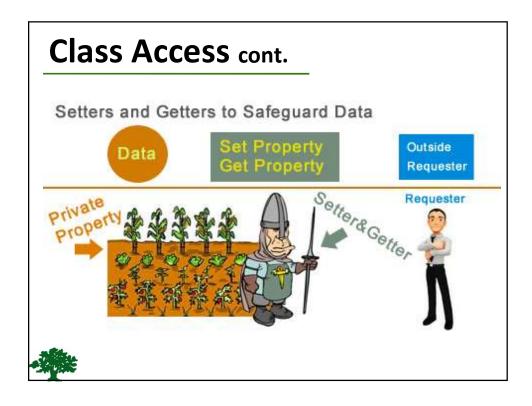


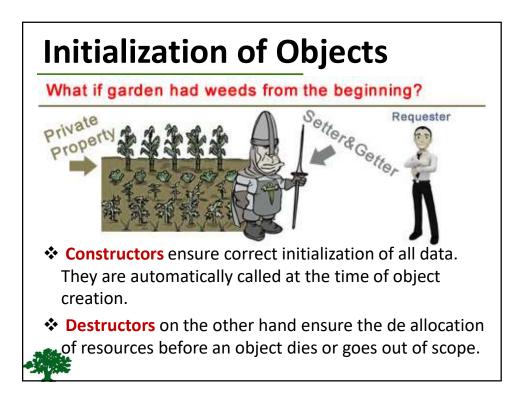
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3









Lifecycle of an Object

***** Born Healthy:

Using constructors

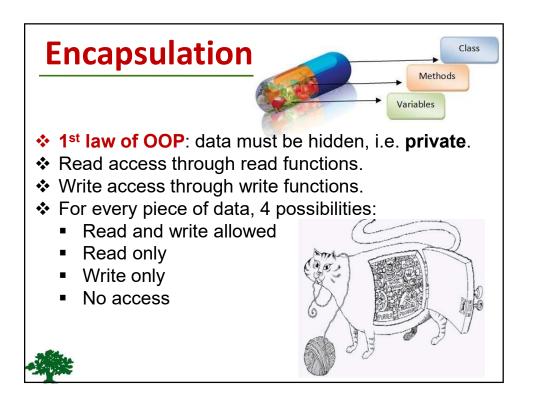
Lives Safely:

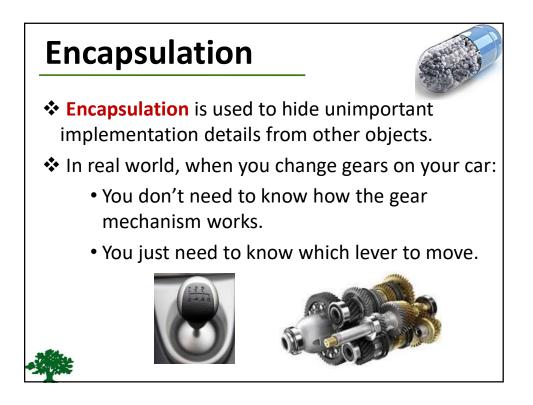
Using setters and getters

***** Dies Cleanly:

Using destructors

Anatomy of a Class	
PRIVATE	PUBLIC
data	Setters/Getters
	Constructors Destructors
Private Methods	Methods
	Public Interface Of Class





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Encapsulation cont.



- In software programs:
 - You don't need to know how a class is implemented. (e.g. Math class)
 - You just need to know which methods to invoke. (e.g. pow method)
- Thus, the implementation details can change at any time without affecting other parts of the program.

