Inheritance

Deriving a new class(sub class or child class) from pre-existing class(super class or parent class) is called inheritance.

The child class *inherits* the attributes of its parent class.

A child class can *override* data members and methods from the parent class.

In addition, the child class can *add* attributes and methods that are unique to the child.

Syntax

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Inheritance

class DerivedClassName(BaseClassName):
                                                                 <statement-1>
           .
           .
           <statement-n>

Multiple inheritance

Class DerivedClassName(Base1,Base2,Base3):
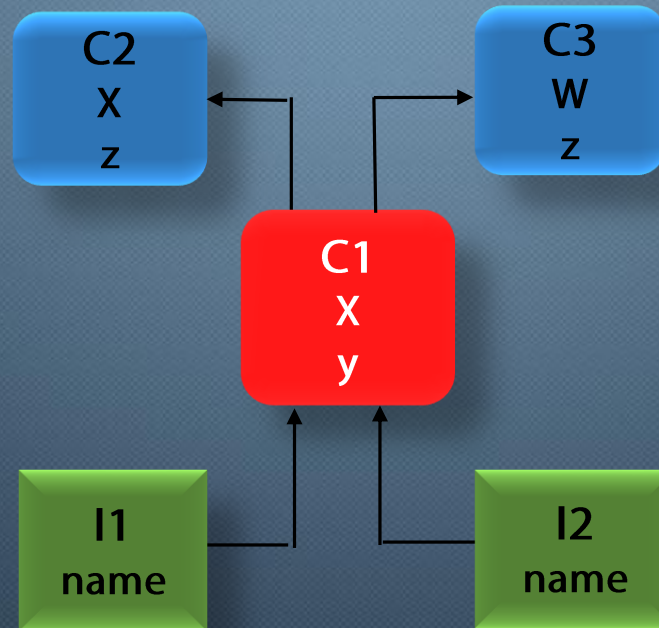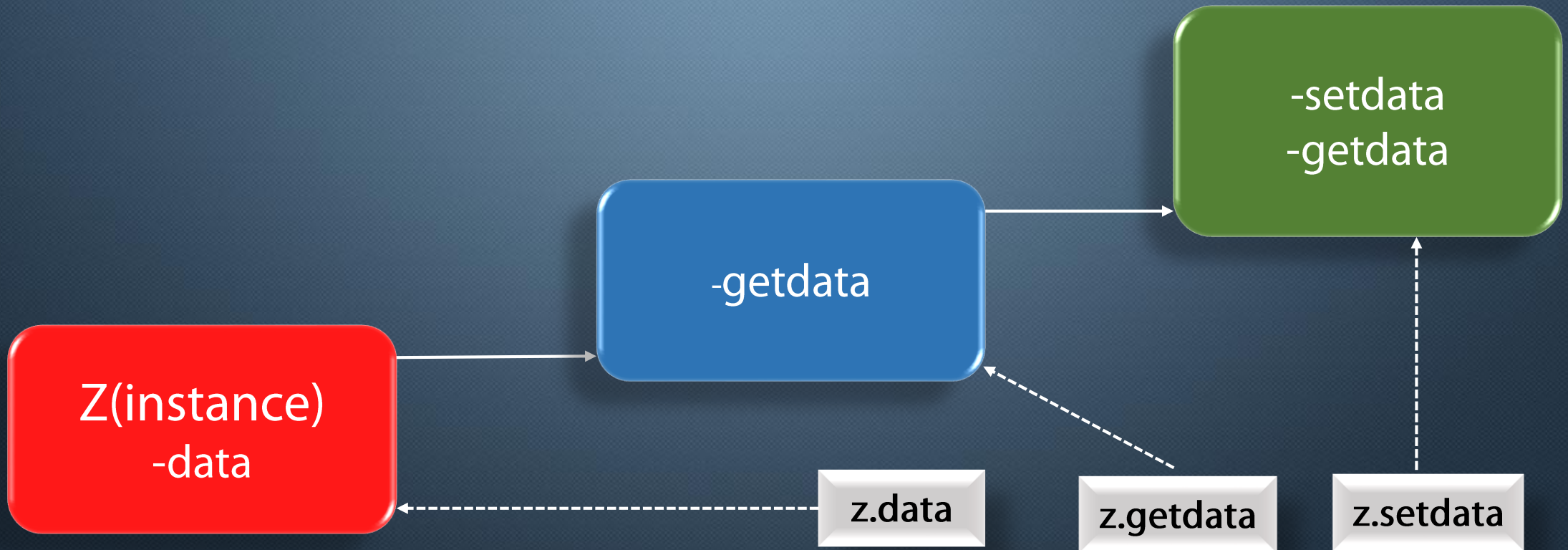   <statement-1>
           .
           .
           <statement-n>

Syntax

In Python, instances inherit from classes, and classes inherit from super classes.

C2
X
z

C3
W
z

C1
X
y

I1
name

I2
name

o I1.x and I2.x find x in C1
o I1.y and I2.y find y in C1
o I1.z and I2.z find x in C2
o I2.name finds name in I2

Inheritance

-setdata
-getdata

-getdata

Z(instance)
-data

z.data

z.getdata

z.setdata