Modern Object Implementation

An object encapsulates some data and the code operating on that data.

Process

Object

Application Code

Data

constructor()

Function Call

method()
method()

Function Call

method()

Function Call
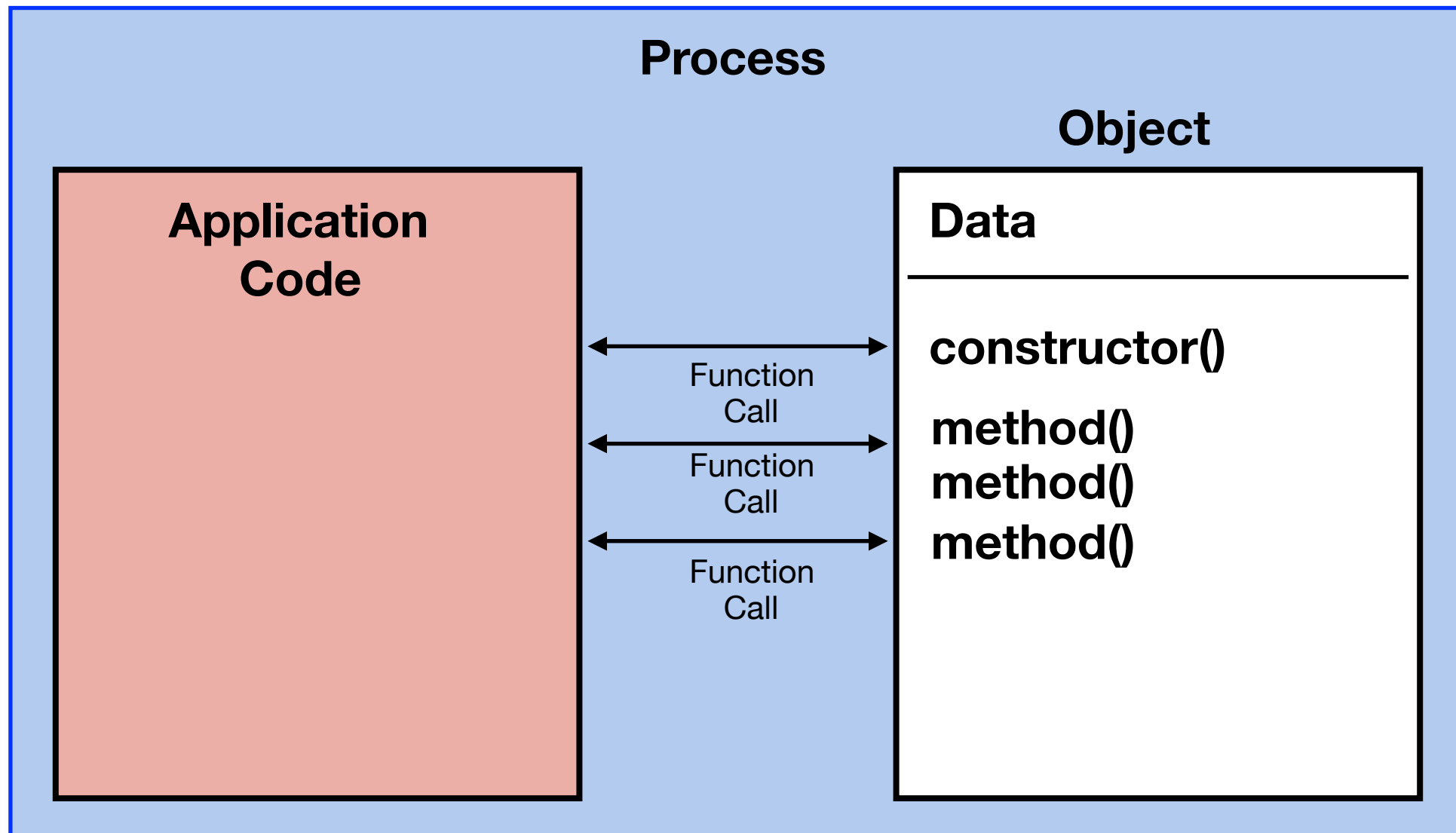
Modern Object Problems

- If the object crashes, the whole program crashes!

- If the program or object, that the object is part of crashes, the encapsulated data is lost.

- The object can possibly share global data with the rest of the program. If the shared global data is changed from outside the object:

  - ◆ The results of method calls become indeterminate.

  - ◆ A method call may cause a crash, causing the whole program to crash.

- The program can possibly manipulate the object state without using the objects methods. Same effect as above!