**Chapter 9 面向对象编程**

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在这一章中，我们将介绍当前使用最广泛的编程范式：面向对象编程：objectoriented programming。精通面向对象编程对利用.NET已存在的框架和类库来说是至关重要的，也可以编写可集成到这些类库中的F#代码。

使用面向对象编程的软件系统是人类创建的最复杂的事物之一。考虑你的基本的.NET程序：成千上万行的源代码通过编译器翻译为中间语言，然后再通过JIT编译成机器码，然后再在进程上执行。Knowing the details about how each step works is just too much to handle.  
Rather than sweating all the details of a program, object-oriented programming enables  
you to organize batches of code into conceptual objects, so that you can limit your  
interactions with code to small and well-defined interfaces.  
The Benefits of OOP  
There are several benefits to object-oriented programming:  
Encourages code reuse  
By encapsulating your code into objects, it can be reused, which ultimately saves  
time and enhances productivity.  
Tame complexity  
Rather than dealing with myriad individual functions and global variables, OOP  
allows you to deal with one item at a time. Any mutable state is scoped to just the  
object.