Person<-Student

Inheritance introduces quite a few new possibilities into your programs. It is easy to miss some of the details that you really must master to make effective use of the object-oriented technique of inheritance.

So, instead of working with fun stuff, like card games and shooting down aliens, we'll start by returning to the old, boring "finger-exercise" example that lets you concentrate on one piece of the inheritance puzzle at a time.

Click the Running Man to open the lab example in **Replit**. **Fork** the **Repl** so you'll have your own copy to work on.

Extending Person

In Java, you use the extends keyword to specify the parent or superclass (called the base class in C++) when you define the child or subclass (called the derived class in C++). Instead of using the **extends** keyword, as in Java, we **use a colon** in exactly the same position. In addition, we specify that the **base class** is **public**.

```
class Student : public Person
    // members of the derived class
};
```

Student is the derived class, while Person is the base class. Each of these class definitions is placed in its own header file, with the implementation of the member functions in person.cpp and student.cpp. You can open these in the Replit editor.



urse content is offered under a CC Attribution Non-Commercial license. Content in