

THE const KEYWORD

Used With Classes

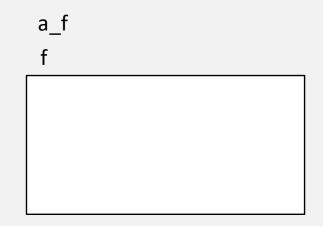
Delroy A. Brinkerhoff



PASS-BY-REFERENCE

• b.function1(f);

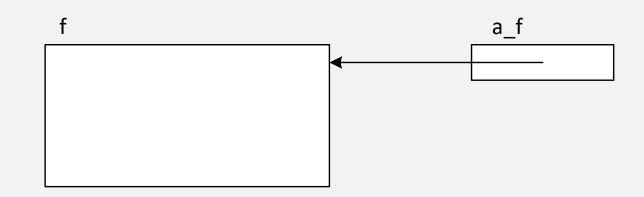
void function1(const Foo& a_f);



PASS-BY-POINTER

- b.function2(&f);
- b.function3(&f);
- b.function4(&f);

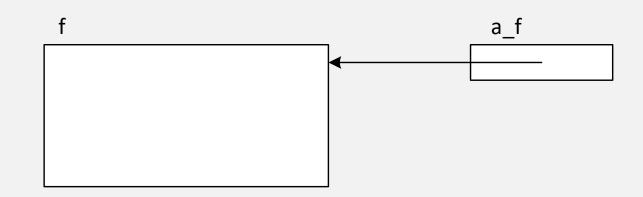
- void function2(const Foo* a_f);
- void function3(Foo* const a_f);
- void function4 (const Foo* const a_f);



PASS-BY-POINTER

- b.function2(&f);
- b.function3(&f);
- b.function4(&f);

- void function2(Foo const* a_f);
- void function3(Foo* const a_f);
- void function4 (Foo const* const a_f);

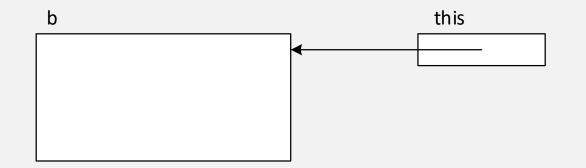




IMPLICIT / "THIS" OBJECT: PASS BY POINTER

• b.function2();

void function2() const;



GETTERS: JAVA

- int height;
- double weight;
- String name;
- Other class references
 - implements cloneable
 - clone

```
int getHeight()
{
     return height;
}
```

```
String getName()
{
    return name;
}
```

GETTERS: C++

- int height;
- double weight;
- string name;
 - Other class pointers and references
 - const return

```
int getHeight()
{
     return height;
}
```

```
string getName()
{
    return name;
}
```

GETTERS: CONST RETURN

CLASS

```
• char name[100];
```

CLIENT

• const char* student = p.get_name();

• char const* student = p.get_name();

```
• const char* get_name()
{
    return name;
}
```

• char* const student = p.get name();

SYMBOLIC CLASS CONSTANTS

}

DEFINING

```
class foo
{
   public:
      const static int N = 10;
      void function();
};
```

USING