

Modern C++

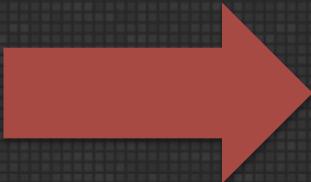
@klmr

CC0

Don't use f*cking pointers.

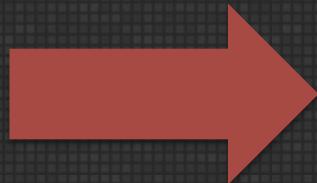
No, seriously.

```
int* pi = new int;
```



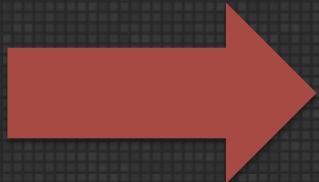
```
int i;
```

```
int* arr = new int[1024];
```



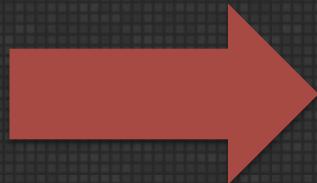
```
std::array<int, 1024> arr;
```

```
int* arr = new int[n];
```



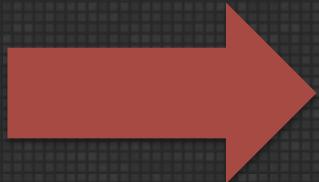
```
std::vector<int> arr(n);
```

```
char* str = new char[1024];
```



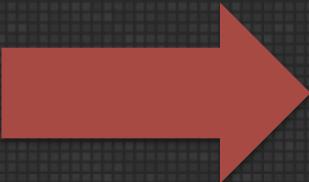
```
std::string str;
```

```
void draw_shape(Shape const* shape);  
draw_shape(new Rectangle());
```



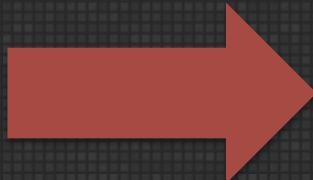
```
void draw_shape(Shape const& shape);  
draw_shape(Rectangle());
```

```
huge_object* build_new_object() {  
    huge_object* ret = new huge_object;  
    ...  
    return ret;  
}
```



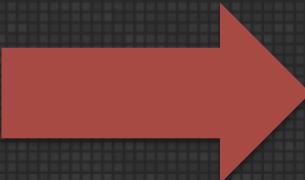
```
huge_object build_new_object() {  
    huge_object ret;  
    ...  
    return ret;  
}
```

```
struct owner {  
    resource* pr;  
    owner() : pr(new resource) { }  
    ~owner() { delete pr; }  
};
```



```
struct owner {  
    std::unique_ptr<resource> r;  
  
    owner() : r(new resource) { }  
};
```

```
struct owner {  
    resource* pr;  
    owner() : pr(new resource) { }  
    ~owner() { delete pr; }  
};
```



```
struct owner {  
    std::shared_ptr<resource> r;  
  
    owner() : r(make_shared<resource>()) {}  
};
```

Pointers
must. not. own.
resources.

That's it.

