Namespace (1A)

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Local Scope

```
Local scope within a function within a block
```

```
void func( ... ) {
    int r;
    {
        int r;
    }
}
```

Class Scope

Class scope

within a class including definitions in an implementation file

Class scope operator ClassName::

```
File scope (Global scope)
```

A declaration outside of all functions and classes

```
File scope operator ...
```

```
int r;
void func( ... ) {
 int r;
 r = 3.0;
 ::r = 4.0;
class Ccircle {
  int r;
                                   x.cpp
```

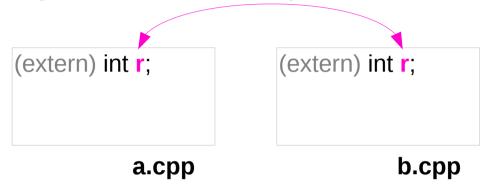
Namespace

```
namespace myspc {
  int r;
}
using myspc::r;
using namespace myspc;
```

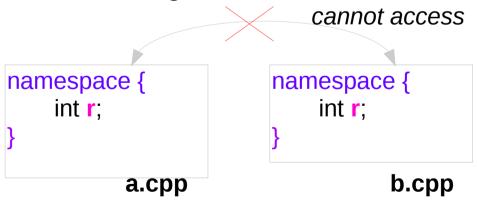
Internal & External Linkage

External Linkage

a global variable shared by two source codes



Internal Linkage



- 1. unnamed namespace
- 2. static int r;

Class Structure

References

- [1] W Savitch, "Absolute C++"
- [2] P.S. Wang, "Standard C++ with objected-oriented programming"
- [3] http://www.cplusplus.com