Subject: I don't understand Moveable
Posted by Xemuth on Thu, 27 Sep 2018 12:10:40 GMT
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Hello Everyone,

I have a class that contains only two string :

```
class Argument{
    public:
Argument(Upp::String argname, Upp::String argvalue);
    Argument();
  Upp::String ArgName;
  Upp::String ArgValue;
};
```

Somewhere in my code I want to do some Vector of "Argument" :

```
 Upp::Vector<Argument> mesArguments;
 mesArguments.Insert(mesArguments.GetCount() ,Argument("test1","test1"));
 mesArguments.Insert(mesArguments.GetCount(),Argument("test2","test2"));
 mesArguments.Insert(mesArguments.GetCount(),Argument("test3","test3"));
```

and later in my code I past this vector through a Method that copy the vector into another vector :

```
void RequetageSoap::SetLesArgs(const Upp::Vector<Argument> &lesargs){
   for(Argument arg : lesargs){
  this->lesArgs.Insert(this->lesArgs.GetCount(),arg); // Here lesArgs is my Secondary vector of
Argument
 }
}
```

When I compile it I got this kind of error : C:\Upp\upp/uppsrc/Core/Topt.h (157): error: no match for 'operator*' (operand type is 'Argument')

According to : https://www.ultimatepp.org/srcdoc$Core$Moveable$en-us.html
it happen because Argument is not marked as moveable

so I juste try to inherite my class Argument with : Moveable<Argument> but I got a lot of errors at compilation :

```
class Argument : Moveable<Argument>{
    public:
    Argument(Upp::String argname, Upp::String argvalue);
    Argument();
  Upp::String ArgName;
```

```
  Upp::String ArgValue;
};
```

```
C:\Upp\upp\MyApps\TestCallSoap\RequetageSoap.h (10): error: expected template-name before
'<' token
C:\Upp\upp\MyApps\TestCallSoap\testCallSoap.cpp (2): In file included from
C:\Upp\upp\MyApps\TestCallSoap\testCallSoap.cpp:2:0:
 (): class Argument : Moveable < Argument>{
C:\Upp\upp\MyApps\TestCallSoap\RequetageSoap.h (10): error: expected '{' before '<' token
C:\Upp\upp\MyApps\TestCallSoap\RequetageSoap.h (10): error: expected unqualified-id before
'<' token
C:\Upp\upp\MyApps\TestCallSoap\testCallSoap.cpp (40): error: invalid use of incomplete type
'class Argument'
C:\Upp\upp\MyApps\TestCallSoap\testCallSoap.cpp (41): error: invalid use of incomplete type
'class Argument'
...
```

can Someone explain me why ?

(sorry for my bad english)

Thanks in advance

Subject: Re: I don't understand Moveable
Posted by omari on Fri, 28 Sep 2018 09:28:55 GMT
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Hi,

Moveable is a part of the Upp namespace,

you have to use Upp::Moveable

or add "using namespace Upp" at the beginning of your cpp file (after includes)

Subject: Re: I don't understand Moveable
Posted by Xemuth on Fri, 28 Sep 2018 11:30:12 GMT
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Thanks Omari,

However I had the Upp namespace, sadly I didnt find any issue to fix the problème,
so I just change my Upp::Vector<Argument> to Upp::Vector<Argument*>

Howerver if someone have any idea of why my inherite didn't worked, it would be really

interesting if he could explain it :p

Thanks in advance !

Subject: Re: I don't understand Moveable
Posted by Klugier on Fri, 28 Sep 2018 12:01:54 GMT
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Hello Xemuth,

Please try to change inheritance level to public:

class Argument : public Upp::Moveable<Argument>{

Sincerely,
Klugier

Subject: Re: I don't understand Moveable
Posted by Xemuth on Fri, 28 Sep 2018 13:16:27 GMT
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Hello Klugier

since I remember to have tried it
I just rewrite my class :

```
class Argument : public Upp::Moveable<Argument>{
    public:
    Argument(Upp::String argname, Upp::String argvalue);
    Argument();
    Upp::String ArgName;
    Upp::String ArgValue;
};
```

And it worked :blush:
I think I forget to do public inherite when I tried to use Namespace on Moveable
and vice versa. :blush:

Well it work now (I feel stupid).
Thank you everyone for taking the time to answer me. :d

Have a good day !
