Subject: Re: moveable question Posted by dolik.rce on Wed, 28 Nov 2012 07:04:09 GMT

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Hi,
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First let me comment on you constructor, see the comments:SimpleVector::SimpleVector(){ int n = 2; int * y = &n; // this is broken, you're taking addresss of temporary object, // the pointer will point to random data in memory when you leave the function v.Add(y); Cout()<<*v[0]; // you can use U++ Cout() instead of std::cout ;) }
```

Now, the assertion, AssertMoveable merely checks if the object is moveable. It is users responsibility to assure that anything that inherits from Moveable<T> (or is marked with NTL\_MOVEABLE() macro) is actually moveable. Moveable is just a hint from a programmer to the compiler, it doesn't really make it moveable, or prevent you from doing moveability-breaking operations.

```
To illustrate how the pointers in TestMove() break things, you have to think little further, lets see what happens when you try to copy the SimpleVector:CONSOLE_APP_MAIN {
SimpleVector s;
s.TestMove();

// To actually break it, try to perform a copy operation:
SimpleVector v;
v=s;

// Now it is broken, because the pointers were just copied
// The v.val points s.a, which is in most cases not what you want
// Also v.sv == s.sv, same problem
// Imagine what happens when s is destructed earlier than v
// -> you have pointers to non-existent objects, just asking for a crash;)
```

Does that shed some light on the subject?

Best regards, Honza