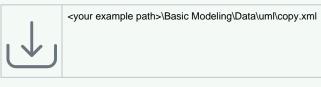
## copy

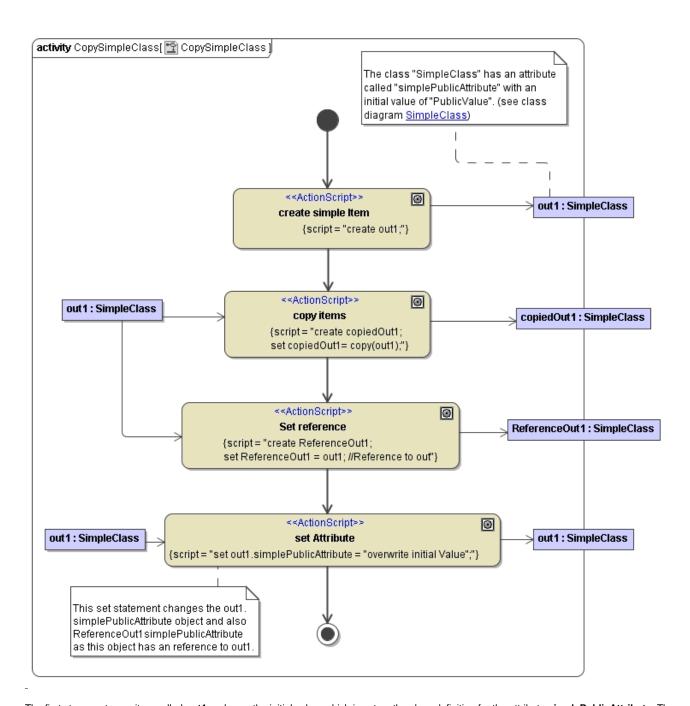
Syntax	set aClonedObject = anObject.copy()	
Semantics	An independent copy of the object will be created.  The Bridge distinguishes between referencing and copying object nodes. If you have two objects of same type, for example item1 and item2, you can write set item2 = item1 thus assigning item2 a reference to item1. This means, if you later on modify any attribute values of item1, object item2 will also have these changed values.  Contrary to this situation, if you write set item2 = item1.copy(), changes in the state of item1 will not effect item2 (see The Essential Thing: Object References).	
Substitutables	an0bject	Any object.
Examples	<pre>set cloneOfA = a.copy();</pre>	

## Example File (Builder project Basic Modeling/Data):



The following activity diagram illustrates the difference between copying and referencing items.

Figure: Copy Object Example



The first step creates an item called **out1** and uses the initial value, which is set on the class definition for the attribute **simplePublicAttribute**. The second step creates a copy of **out1** which has also this initial value for **simplePublicAttribute**. The third step creates a reference to **out1** called **ReferenceOut1** having also this initial value.

At this point all items have the same value for the attribute simplePublicAttribute. The fourth step executes a set assignment statement:

```
set outl.simplePublicAttribute = "overwrite initial Value";
```

This statement modifies out1 and ReferenceOut1, but not copiedOut1.

```
set outl.simplePublicAttribute = "overwrite initial Value";
```