

Isolator++ Cheat Sheet

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Change behavior
                 WHEN_CALLED(SomeClass::StaticMethod()).Return(10); // static
Changing return
                 SomeClass myClass;
    values
                 WHEN CALLED(myClass.Method()).Return(10); // instance
                 FAKE GLOBAL(fopen);
                 WHEN_CALLED(fopen(_, _)).Return(NULL); // global C style
 Deep chaining
                 WHEN CALLED(SomeClass::StaticMethod()->OtherMethod()->Inside()).Return(10);
                 WHEN_CALLED(SomeClass::StaticMethod()).Ignore();
Ignoring Methods
                 exception problem("Something has gone wrong!");
   Throwing
                 WHEN_CALLED(SomeClass::StaticMethod()).Throw(&problem);
   Exceptions
                 static int CustomValueWithData(int a)
                   if (a == 5) return 30;
 Custom Return
                   return 10000;
     Value
                 WHEN CALLED(SomeClass::StaticMethod()).DoStaticOrGlobalInstead(CustomValue
                 WithData, <user-data>).
  Conditional
                 WHEN_CALLED(SomeClass::StaticMethod(EQ("US")).Return(10);
   behavior
                 SYSTEMTIME fakeTime;
                 WHEN_CALLED(GetSystemTime(RET(&fakeTime))).Ignore();
   Out args
                 WHEN_CALLED(GetSystemTime(RET_IF(EQ(...), &fakeTime))).Ignore(); //
                 conditional
                 PRIVATE_WHEN_CALLED (_, MyClass::staticPrivateMethod).Ignore(); // static
   Non public
   methods
                 SomeClass myClass;
                 PRIVATE_WHEN_CALLED(myClass,privateMethod).Return(10); // instance
```



Conditions				
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-	All arguments are	<pre>WHEN_CALLED(fake->Foo(_)).Return(1);</pre>		
	ok			
Any value -	All arguments are	<pre>WHEN_CALLED(fake->Foo (ANY_VAL(Type))).Return(1);</pre>		
ANY_VAL	ok (value types)			
Any ref -	All arguments are	WHEN CALLED(fake->Foo(ANY REF(Type))).Return(1);		
ANY REF	ok			
,	(byref)			
Faural FO		WHEN CALLED(fake->Foo(EQ(100))).Return(1);		
Equal - EQ	Arg must equal	which_childb(take >100(120(100))).hecalin(1),		
	(using ==			
	operator)			
Not equal - NE	Arg must not	WHEN_CALLED(fake->Foo(NE(3))).Return(1);		
	equal			
Less than - LT	Arg is smaller	WHEN_CALLED(fake->Foo(LT(5))).Return(1);		
	than			
Less or equal - LE	Arg is smaller or	WHEN CALLED(fake->Foo(LE(4))).Return(1);		
	equals	_		
Greater than - GT	Arg is greater	WHEN CALLED(fake->Foo(GT(10.2))).Return(1);		
Greater than - Gr	than			
Crostor or ornal		WHEN CALLED(fake->Foo(GE(1))).Return(1);		
Greater or equal -	Arg is greater or	WHEN_CALLED(lake >100(GE(1))).Netuin(1),		
GE	euqals			
Lambda function -	Arg must pass	WHEN_CALLED(fake->Foo(IS(<char*>([]</char*>		
IS	lambda function	<pre>(char* s) {return !strcmp(s, "typemock"); }))).Return(1);</pre>		
		}))).Recuin(i),		
Lambda function	By Ref Arg must	WHEN_CALLED(fake->Foo(IS_REF(<const char*="">([]</const>		
by ref – IS_REF	pass lambda	<pre>(const char* s){return !strcmp(s,</pre>		
.,	function	"typemock");}))).Return(1);		
Assissa sectionalise		HILLEN CALLED (fako		
Assign out value –	Assign out value,	<pre>WHEN_CALLED(fake- >Foo(RET IF(EQ(&value), &out)).Return(1);</pre>		
RET_IF	if condition is	Proo(REI_IF(LQ(avalue), aout)).Return(1),		
	true			
Assign value with	Use in condition	WHEN_CALLED(fake-		
condition –	macros to assign	<pre>>Foo(RET_IF(EQ(BY_REF("typemock")), &out)).Return(1);</pre>		
BY_REF	value directly			

Creating objects	
Create a fake object	<pre>SomeClass * fakeClass = FAKE<someclass>();</someclass></pre>
Pure Virtual	<pre>IInterface* fake = FAKE<iinterface>();</iinterface></pre>
Future Objects	<pre>SomeClass* classHandle = FAKE_ALL<someclass>();</someclass></pre>



Acting on objects		
Call private method	<pre>bool ret = false; ISOLATOR_INVOKE_FUNCTION(ret, _, SomeClass::StaticMethod, arg1, arg2); ISOLATOR_INVOKE_FUNCTION(ret, myClass , MyMethod, arg1, arg2);</pre>	
Set variable	<pre>ISOLATOR_SET_VARIABLE(_,SomeClass::m_static, 10); SomeClass* myClass = new SomeClass (); ISOLATOR_SET_VARIABLE(myClass, m_id, 10); ISOLATOR_SET_VARIABLE(_,staticVariable, 10);</pre>	
Get variable	<pre>int memberValue; ISOLATOR_GET_VARIABLE(_,SomeClass::m_static, memberValue); SomeClass* myClass = new SomeClass (); ISOLATOR_GET_VARIABLE(myClass, m_id, memberValue); ISOLATOR_GET_VARIABLE(_,staticVariable, memberValue);</pre>	

Call verification		
Public methods	ASSERT_WAS_CALLED(SomeClass::StaticMethod());	
	ASSERT_WAS_CALLED(myClass.Method());	
Private methods	PRIVATE_ASSERT_WAS_CALLED((_, MyClass::staticPrivateMethod);	
	<pre>PRIVATE_ASSERT_WAS_CALLED(myClass, Method);</pre>	
Conditional	ASSERT_WAS_CALLED(SomeClass::StaticMethod(EQ("US"));	
	<pre>PRIVATE_ASSERT_WAS_CALLED(myClass, Method, EQ("US"));</pre>	

For more examples go to our documentation <u>here</u>.