

# JMock Crash-Course

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- Too hard to test things that involve external components?
- Too slow, even if you could?
- Unit Tests as much fun as smacking yourself in the head with a baseball bat?
  
- You can ‘mock’ out SpellChecker while unit-testing WordProcessor, etc
- Anything ‘external’ or ‘heavy’ to the thing you really want to test.

# Simple Example

```
public class FooTest extends MockObjectTestCase {
    Mock mockMap = mock(Map.class);
    public void testJMockItself() {

        mockMap.expects(once()).method("get")
                .with(eq("jmock-rocks"))
                .will(returnValue("Yup"));

        Map map = (Map) mockMap.proxy();
        assertEquals("Yup", map.get("jmock-rocks"));
    }
}
```

“mockMap expects ‘get’ to be invoked once with a single parameter of ‘jmock-rocks’ and will return a value of ‘Yup’.” \*

If anything other than that happens, exceptions will be thrown by JMock

How many times the method is called:

- `expects(once())`
- `expects(atLeastOnce())`
- `expects(exactly( n ))`
- `expects(never())`

- `with( .. )`

Syntax:

- `with(eq( parm1 ), eq( parm2 )) // etc`

Alternatives:

- `withNoArguments()`
- `withAnyArguments()`

Some Boolean Flexibility:

- `same( .. ) & isA ( .. ) & not ( .. ) & or ( .. )`  
• `& and ( .. ) // complex huh?`

- `will(returnValue ( .. ))`
- `will(throwException ( .. ))`

- Use with Junit (not instead of)
  - MockObjectTestCase extends TestCase
- It is just a simple library
  - that uses lots of reflection
- Can do concrete classes too -
  - via another library - more difficult to get right
- `its.builder().syntax().reads().well().right();`
- [www.jmock.org](http://www.jmock.org) - widely used and respected
- Other tools by Joe Walnes: XStream, QDox, Sitemesh, NMock