Mock Objects

Test Doubles

- Dummy
- Fake
- Stub
- Spy
- Mock

Mockito

Life Cycle

- · Stub E Arrange
- Test
- Verify Assert

Import

import static org.mockito.Mockito.*;

Create Mock Object

```
List mockedList = mock(List.class);

Stub

Mock
```

Setup Mock Object: Stubbing (1)

No static or final methods!

Setup Mock Object: Stubbing (2)

- No static or final methods!
- Methods that return void:

```
doThrow(new RuntimeException())
    .when(mockedList)
    .clear();
```

Verify calls on mocks

```
verify(mockedList).add("one");
verify(mockedList, times(2)).add("two");
verify(mockedList, never()).add("three");
```

Argument Matchers

Capturing Arguments

```
ArgumentCaptor<Person> argument =
    ArgumentCaptor.forClass(Person.class);
verify(mock) doSomething(argument)capture());
              methode
assertEquals(
    "John",
   argument.getValue().getName());
```

...and there's more

- Automatic mocking
- Injecting mocks
- Adding user defined behaviour
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