

# Custom Argument Matchers



# Understanding Argument Matchers

## Standard Argument Matchers - Example

```
when(myMock.someMethod(anyInt())) .thenReturn("Number");  
when(myMock.someMethod(eq(42))) .thenReturn("The Answer");
```

Why Use Custom Argument Matchers?

# Custom Matchers: Clarity and Precision

*// Standard approach using built-in matchers*

```
when(transactionProcessor.process(any(Transaction.class))).thenReturn(true);
```

*// Custom matcher for clarity and precision*

```
when(transactionProcessor.process(argThat(new IsBusinessDayMatcher()))).thenReturn(true);
```

# Creating Custom Argument Matchers

# The argThat Matcher

```
verify(mockedUserService).createUser(argThat(new ValidEmailUserMatcher()));
```

# Implementing matches

*// implementation of custom matcher*

```
public class ValidEmailUserMatcher implements ArgumentMatcher<User> {  
    @Override  
    public boolean matches(User user) {  
        return user.getEmail().matches("^[A-Za-z0-9+_.-]+@(.+)$");  
    }  
}
```

*// usage of ValidEmailUserMatcher*

```
verify(mockedUserService).createUser(argThat(new ValidEmailUserMatcher()));
```