

# Testing specification

Goal: 100% line coverage in the `irc` package.

The project uses the Spock Testing and Specification Framework<sup>1</sup>, which is a specification and unit testing framework and DSL for Groovy<sup>2</sup>.

We have a Jenkins server set up for continuous integration. Whenever `origin/develop` is pushed to, a hook is received by the Jenkins server. The latest revision is pulled and a specified Maven phase is executed. We execute `mvn test`, which will run all the unit tests Surefire can find. If the Maven goal does not succeed, an email notification is sent to the person(s) whom Jenkins deems responsible for the failing test.

Groovy allows us to change the private fields of IPA at runtime, so we can redirect the `OutputStream` and `InputStream` to manipulate it for testing purposes.

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<sup>1</sup> <http://code.google.com/p/spock/>

<sup>2</sup> <http://groovy.codehaus.org/>