Project

- Home/README: https://github.com/harrah/xsbt
- Documentation
 - Wiki: https://github.com/harrah/xsbt/wiki
 - API: http://harrah.github.com/xsbt/latest/api/index.html
 - SXR: http://harrah.github.com/xsbt/latest/sxr/index.html
- Mailing List: http://groups.google.com/group/simple-build-tool/ topics
- Issues: https://github.com/harrah/xsbt/issues
- Fork: https://github.com/harrah/xsbt/fork

Contributing

- 1. Get a GitHub account: https://github.com/signup/free
- 2. Discuss/justify feature/fix on mailing list.
- 3. Fork harrah/xsbt to username/xsbt
- 4. Clone username/xsbt and branch:

\$ git clone git@github.com:username/xsbt.git

- \$ git checkout -b myfeature
- 5. Develop feature/fix
- 6. Clean up history if necessary (git rebase local commits) and push
- 7. Send pull request, justifying changes if not done in step 2.
- 8. a) Get feedback. Go to step 5. or b) Pull request gets merged.

Developing / Building from Source

- Set up latest stable release as sbt script: https://github.com/harrah/ xsbt/wiki/Setup
- 2. Build:
 - \$ sbt
 > publish-all
 > proguard
- 3. Copy sbt script as sbt-local and change launcher path to be <xsbt-dir>/target/sbt-launch-0.10.2-SNAPSHOT.jar
- 4. To use in a project:
 - i. Delete that project's project/build.properties or set sbt.version=0.10.2-SNAPSHOT
 - ii. Delete project/boot/
 - iii. \$ sbt-local
- 5. After modifying sbt, repeat step 2. **proguard** may be omitted if the launcher was not modified.
- 6. To use the updated sbt-local in another project, do one of:
 - > reboot full (won't pick up a new launcher)
 - Exit sbt-local, delete project/boot/ and start sbt-local again

Unit Testing

- Put test sources in <sub>/src/test/scala/
- ScalaCheck 1.8 mainly used, some specs 1.6.8 as well
- sub/test-only sbt.SomeTest to run a specific test in a sub project

Some areas are more difficult to unit test than others. Project loading and compiler-related code is more difficult; well-defined components like parser combinators, task engine, and settings engine are easier.

Integration Testing

Layout

```
<xsbt>/sbt/src/sbt-test/<group>/<name>/
    test
    ...
```

Running

```
> scripted group/name
> scripted group/*
```

test script

Executing a scripted test involves evaluting the test script.

- > command arg1 ... runs sbt command
- \$ command arg1 ... runs script command
- Lines starting with are expected to fail.

Script commands

- File commands accepting one or more files as arguments:
 - touch
 - delete
 - exists
 - mkdir
 - absent
- copy-file from/path to/path
- Control commands
 - sleep n where n is time in milliseconds
 - pause stops execution until enter is pressed
 - exec command arg1 ... forks the given command

Example test

Layout:

```
<xsbt>/sbt/src/sbt-test/compile/basic/
test
Failure.scala
changes/
Success.scala
```

where test might be:

```
-> compile
$ delete Failure.scala
$ copy-file changes/Success.scala Success.scala
> compile
```