

# Lava-test-shell Workshop

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# Agenda

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- Introduction to lava-test-shell
- YAML test definition format
- Best practices
- Lava-test-shell in job file
- Test results in LAVA dashboard
- Central QA test definition repository

# Introduction to lava-test-shell

- What was available before?
  - lava-test
  - lava-android-test
- Why was lava-test-shell created?
- Black box approach in lava-test-shell
- What can be done with lava-test-shell?
  - Collaboration
  - Sophisticated cases
- What cannot be done with lava-test-shell?
  - CTS
  - Tests that depend on initiative from the host (adb, monkeyrunner)

# lava-test-shell test definition (YAML)

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- Used to describe the test
- Test definitions in YAML (YAML Ain't Mark-up Language)

# lava-test-shell test definition (YAML)

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bzr branch lp:~styleesen/+junk/lca13-training-lava-test-shell

# lava-test-shell test definition (YAML)

- Anatomy
  - Meta-data
    - name
    - format
    - description
  - install
    - git-repos or bzd-repos
    - deps
    - steps
  - run
    - steps
  - parse
    - fixupdict
    - pattern

# lava-test-shell test definition (YAML)

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- Post-mortem of simple test definition
  - stylesen-smoke.yaml
  - stylesen-smoke.sh
  - stylesen-smoke-job.json

# lava-test-shell test definition (YAML)

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- Post-mortem of lava-test-case based test definition
  - stylesen-smoke-test-case.yaml
  - stylesen-smoke-test-case-job.json



# Running the test definition

- Submitting a job
- Multiple ways of calling a test definition from job file
  - testdef-access.json
  - testdef\_repos
    - git-repo
    - bzs-repo
  - testdef\_urls
- Invalid JSON (jsonlint - <http://jsonlint.com/> )
- Running the lava-dispatch command from command line
- Debugging and test definition fixing

# Finding jobs and reading test results

- How to find the job?
- How to find the bundle for your job?
- Different logs that are available
- Interpreting bundle streams
- Reading log files
- Understanding attached files such as stdout.log, run.sh, etc

# Advanced topics

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- Hooks
- Signals
- External Measurement
- [http://lava-dispatcher.readthedocs.org/en/latest/external\\_measurement.html](http://lava-dispatcher.readthedocs.org/en/latest/external_measurement.html)

# Resources

- <http://git.linaro.org/gitweb?p=qa/test-definitions.git>
- <https://lava.readthedocs.org>
- [http://lava-dispatcher.readthedocs.org/en/latest/lava\\_test\\_shell.html](http://lava-dispatcher.readthedocs.org/en/latest/lava_test_shell.html)



## **Thank You**

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