

Contributing to GHC

Joachim Breitner
Haskell Implementors Workshop 2014
6 September 2014, Gothenburg

PROGRAMMING PARADIGMS GROUP



The take away: git

Synopsis

- `git clone --recursive git://git.haskell.org/ghc.git`
- `git pull && git submodule update --init`

More on

- <https://ghc.haskell.org/trac/ghc/wiki/Building/GettingTheSources>
- <https://ghc.haskell.org/trac/ghc/wiki/WorkingConventions/Git>
(*and subpages*)

The take away: Phabricator

Synopsis

- `arc diff` (*to create a revision*)
- `arc diff` (*to update it*)
- `arc land` (*to push it*)

Remember

- Your commits are gone and squashed at the end
- The phabricator revision description becomes the commit message

More on

- <https://ghc.haskell.org/trac/ghc/wiki/Phabricator>

Recap: A patch workflow

1. Open ticket in trac, or find an existing ticket
2. Assign it to yourself
3. Create phabricator revision
4. Link it with the ticket (`Phab:Dnnn`)
5. Get code reviews and CI results
6. Improve code and documentation
7. Validate
8. Push the code using `arc land`
9. Close the ticket

Other nice tools

Communicate!

- [ghc-dev mailing list](#)
- [#ghc IRC channel](#)
- [Comments on Trac Tickets, Phabricator diffs](#)
- [ICFP](#)

Review and validate!

- <https://phabricator.haskell.org/herald/>:
Watches for certain commits and trigger actions, e.g. an audit.
- <https://phabricator.haskell.org/harbormaster/>:
Builds all suggested revisions and commit commits
- <https://travis-ci.org/ghc/ghc>: Quick validation per commit
- <http://ghcspeed-nomeata.rhcloud.com/>: History of benchmark results

Contribute to GHC!

And don't forget to comment your code.

Thank you for your attention.

Cover image © CC-BY-SA http://commons.wikimedia.org/wiki/File:Apadana_Persepolis_Iran.JPG