

GHC development flow

walking guide for new contributors

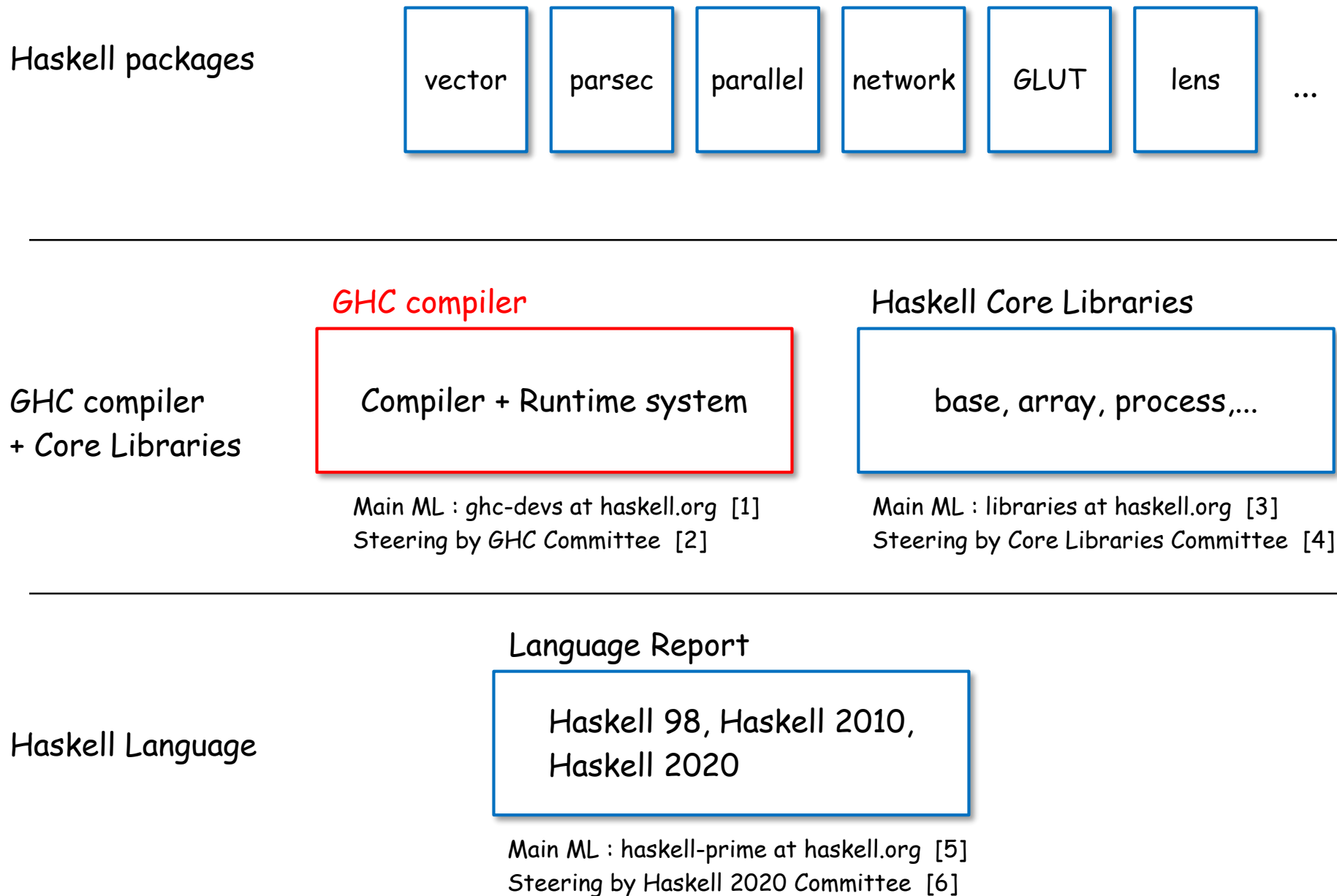
Takenobu T.

NOTE

- This is not an official document by the ghc development team.
- Please refer to the official documents in detail.
- This information is current as of Oct, 2016.

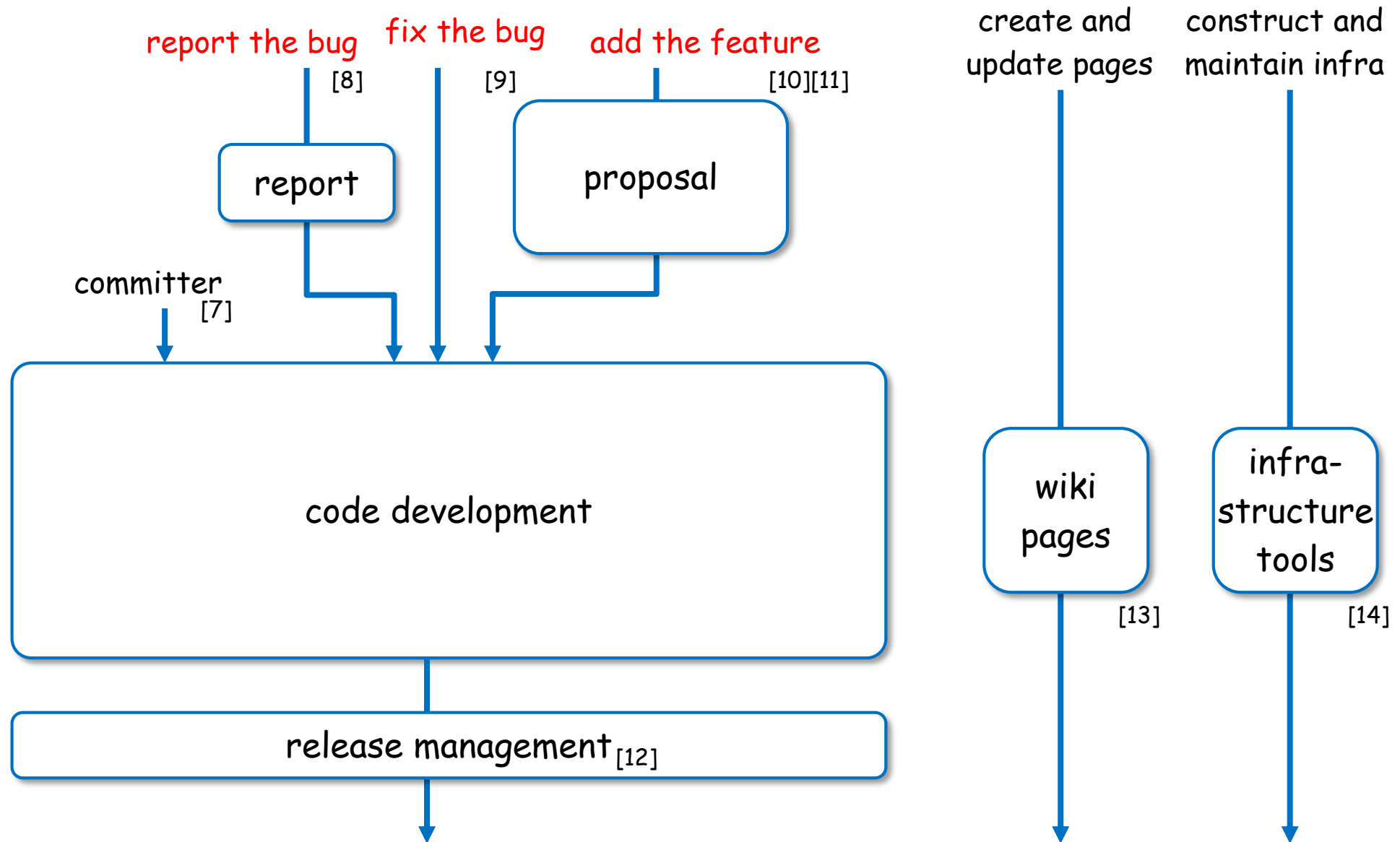
Overall relationship

Development layers

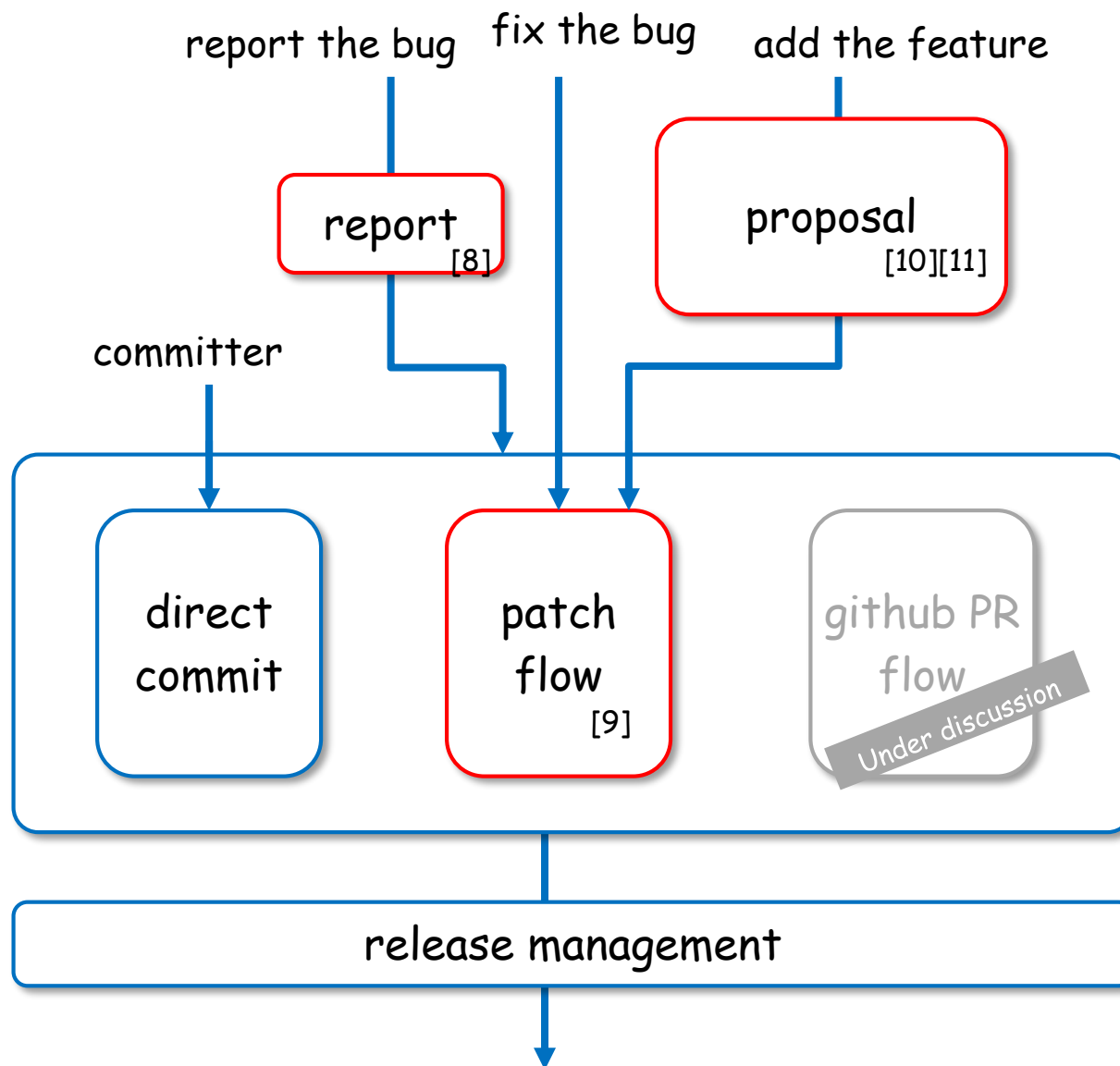


GHC compiler development flow

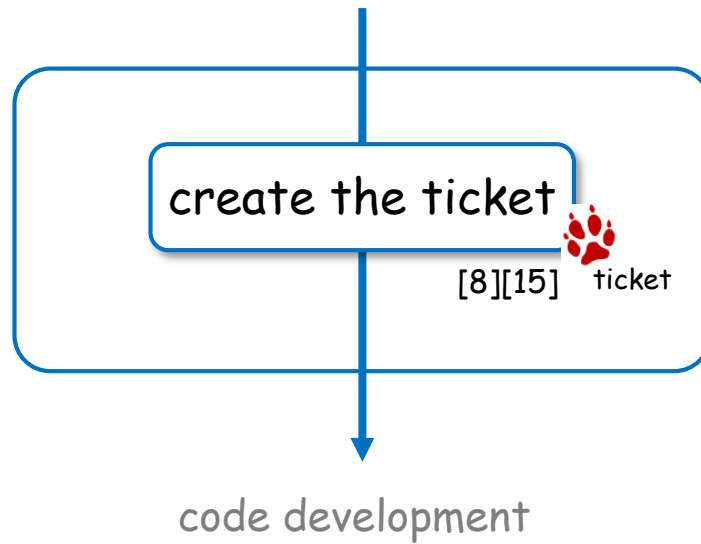
GHC compiler development flow (overview)



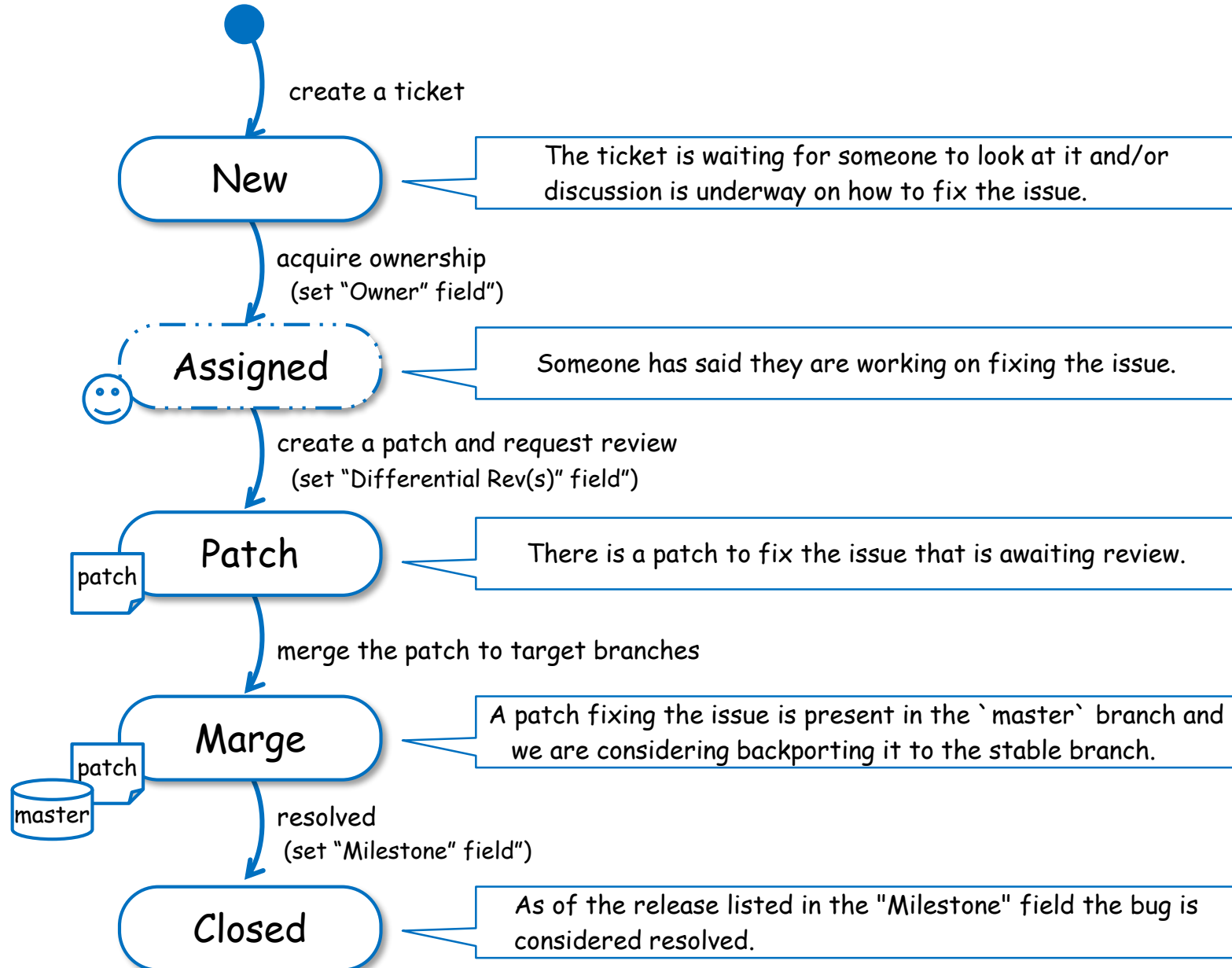
GHC compiler code development flow



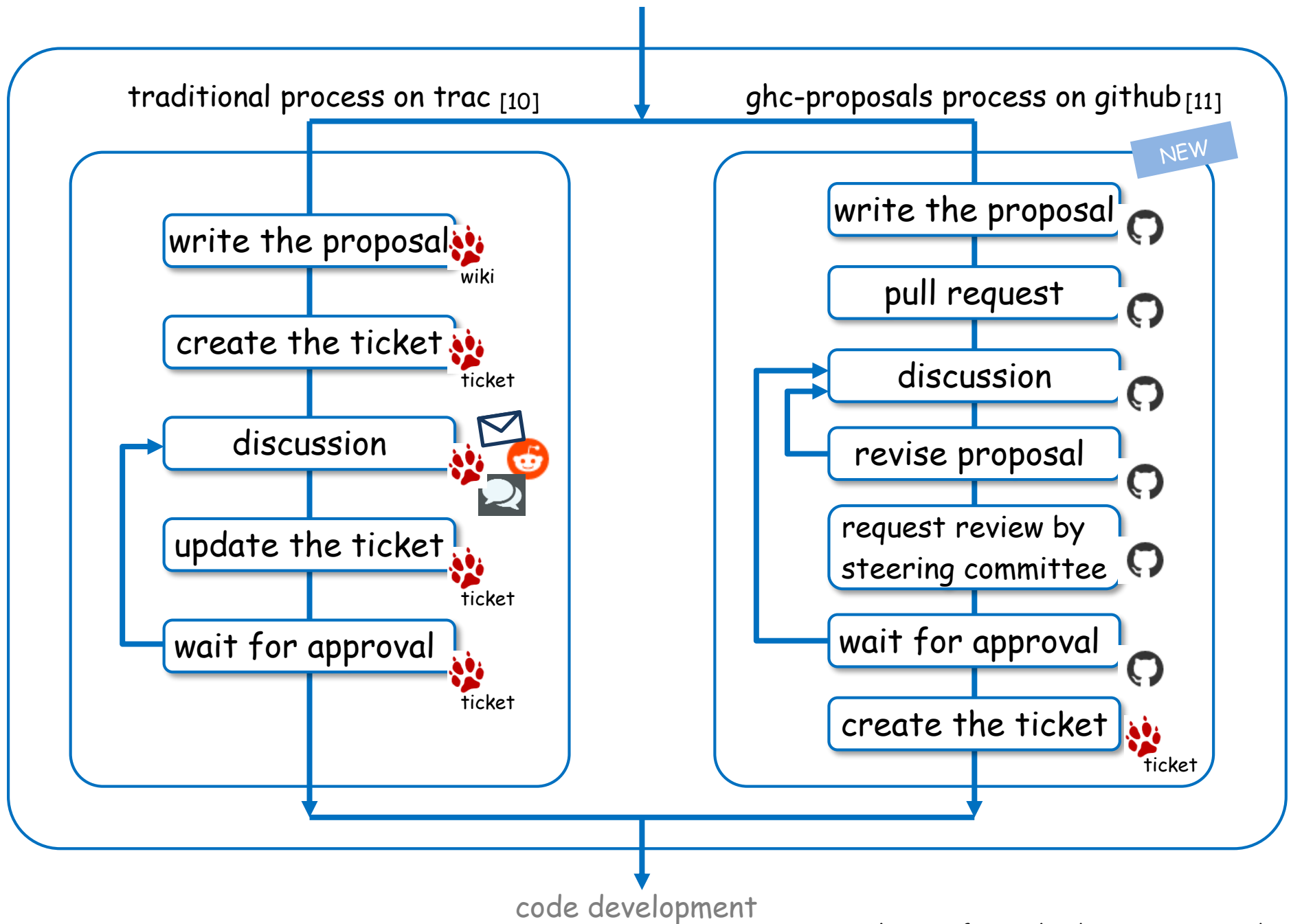
Report flow



Please consult [ghc-devs ML](#) if you worry.

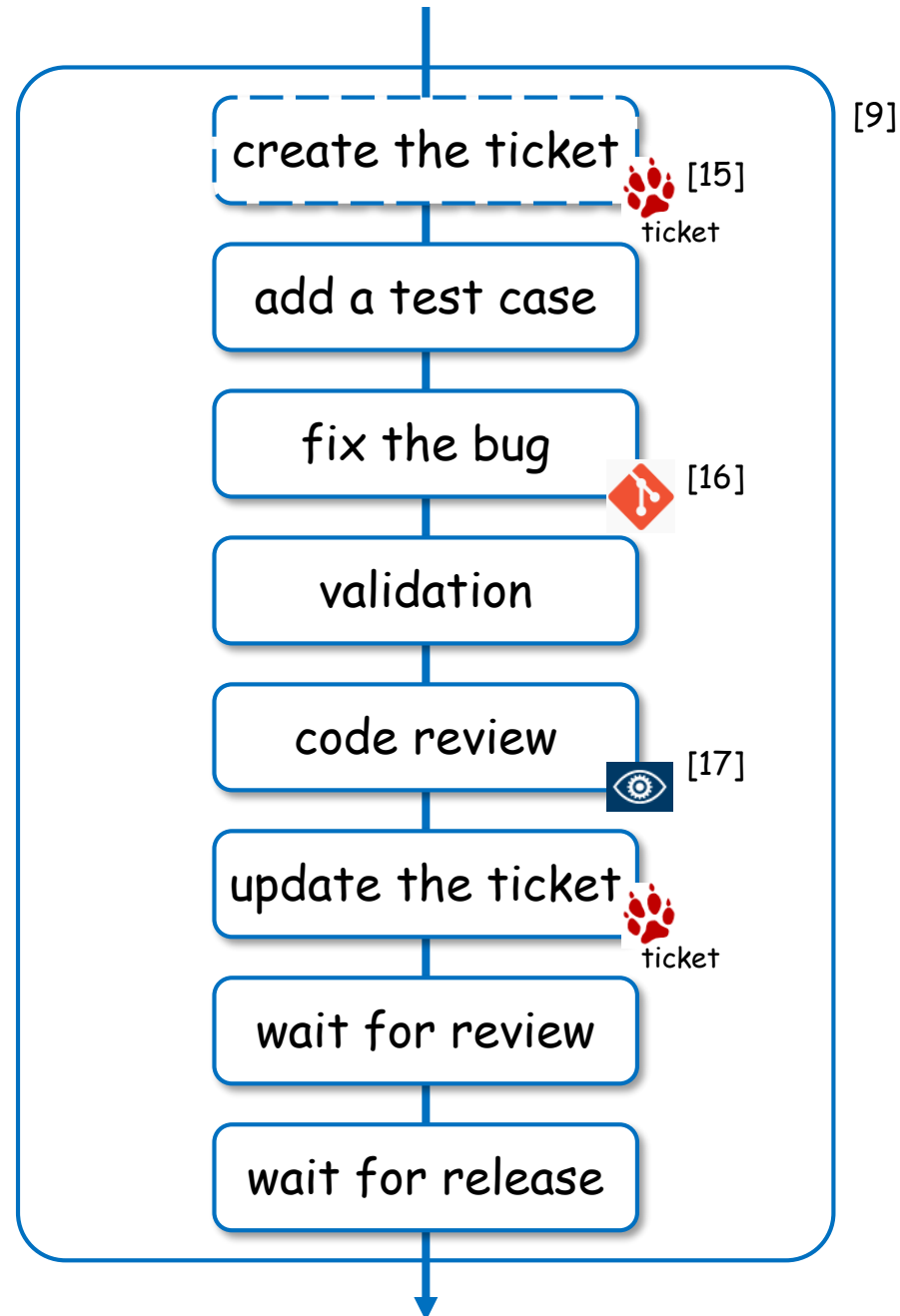


Proposal flow



Please refer to the documentation in details.

Patch flow



Please refer to the documentation in details.

Infrastructure tools

Tool relation

communication

discussion

ghc-devs ML



[1]

information

Trac (wiki)



[13]

wiki

issue tracking,
discussion and PR

Github



[11]

issue tracking
and discussion

Trac (ticket)



[15]

ticket

code review

Phabricator



[17]

phabricator cli

Arcanist



[17]

automated build

Harbormaster



[18]

code management

code repository

Git



[16]

performance regression

Perf

[21]

automated build

Travis



[19]

various builds

GHC builder

[20]

References

References

- [1] *ghc-devs* -- GHC development discussion
<https://mail.haskell.org/mailman/listinfo/ghc-devs>
- [2] Call for Nominations: *GHC Steering Committee*
<https://ghc.haskell.org/trac/ghc/blog/steering-committee-cfn>
- [3] *Libraries* -- Discussion about libraries for Haskell
<https://mail.haskell.org/cgi-bin/mailman/listinfo/libraries>
- [4] *Core Libraries Committee*
https://wiki.haskell.org/Core_Libraries_Committee
- [5] *Haskell-prime* -- Haskell' - A Haskell Standard Revision - discussion list
<https://mail.haskell.org/cgi-bin/mailman/listinfo/haskell-prime>
- [6] *Welcome to Haskell'*
<https://prime.haskell.org/>
- [7] *The Glasgow Haskell Team*
<https://ghc.haskell.org/trac/ghc/wiki/TeamGHC>
- [8] *Reporting bugs in GHC*
<https://ghc.haskell.org/trac/ghc/wiki/ReportABug>
- [9] *How to contribute a patch to GHC*
<https://ghc.haskell.org/trac/ghc/wiki/WorkingConventions/FixingBugs>
- [10] *How to contribute a new feature to GHC*
<https://ghc.haskell.org/trac/ghc/wiki/WorkingConventions/AddingFeatures>

References

- [11] GHC Proposals
<https://github.com/ghc-proposals/ghc-proposals>
- [12] Release management and branches
<https://ghc.haskell.org/trac/ghc/wiki/WorkingConventions/Releases>
- [13] Welcome to the GHC Developer Wiki
<https://ghc.haskell.org/trac/ghc/wiki>
- [14] Developer's Infrastructure
<https://ghc.haskell.org/trac/ghc/wiki/Infrastructure>
- [15] The Bug Tracker
<https://ghc.haskell.org/trac/ghc/wiki/WorkingConventions/BugTracker>
- [16] Using git with GHC
<https://ghc.haskell.org/trac/ghc/wiki/WorkingConventions/Git>
- [17] Using Phabricator for GHC development
<https://ghc.haskell.org/trac/ghc/wiki/Phabricator>
- [18] Harbormaster: continuous integration & patch building for GHC
<https://ghc.haskell.org/trac/ghc/wiki/Phabricator/Harbormaster>
- [19] Travis
<https://ghc.haskell.org/trac/ghc/wiki/Travis>
- [20] The GHC Builder
<https://ghc.haskell.org/trac/ghc/wiki/Builder>

References

- [21] perf
<https://perf.haskell.org/ghc/>

See also

- [22] Working on GHC
<https://ghc.haskell.org/trac/ghc/wiki/WorkingConventions>
- [23] Resources for newcomers to GHC
<https://ghc.haskell.org/trac/ghc/wiki/Newcomers>
- [24] Haskell :: Reddit
<https://www.reddit.com/r/haskell/>
- [25] IRC Channels
<https://www.haskell.org/irc>
<http://ircbrowse.net/ghc>