

TortoiseHg

A cross-platform GUI for Mercurial



TortoiseHg

Mercurial Conference — Paris 2019

Raphaël Gomès @ CTOBUS

Overview

The screenshot displays the TortoiseHg application interface. The top menu bar includes 'File', 'View', 'Repository', and 'Help'. Below the menu is a toolbar with various icons for repository operations. The main window is divided into several panes:

- Repository Registry:** Shows a list of repositories, including 'default', 'mercurial-devel', and 'bighperf'.
- Graph:** A visual representation of the commit history, showing a series of nodes connected by lines.
- Table:** A table listing repository changes with columns for 'Rev', 'Branch', 'Description', 'Author', 'Age', and 'Node'. The selected row is 42712 on the 'default' branch, described as 'tests: make log style a ...' by Martin von Zweigbergk.
- Changeset:** A detailed view of the selected changeset (42712). It includes the user 'Martin von Zweigbergk', the date '2019-04-18 22:16:33 +0700 (5 weeks)', the parent changeset '42711', and the child changeset '42713'. The description states: 'tests: make log style a little easier to read in test-copytrace-heuristics.t ...'. It also mentions that revision numbers were shortened for readability and that the log templates were updated.
- Diff:** A view showing the differences between the current changeset and its parent. The diff is for the file 'tests/test-copytrace-heuristics.t' and shows changes to the log template, including the addition of 'rev:' and 'phase:' fields to the log format.

Overview

The screenshot displays the TortoiseHg application interface. On the left, the 'Repository Registry' shows the 'mercurial-devel' repository. The main area is divided into three panes. The top pane, titled 'Graph', shows a commit log with columns for Rev, Branch, Description, Author, Age, and Node. The bottom-left pane shows a file explorer with 'tests/test-copytrace-heuristics.t' selected. The bottom-right pane displays the commit details for revision 42712, including the commit message, a list of changes, and a diff view.

Rev	Branch	Description	Author	Age	Node
42722	stable	context: check file exis...	Pulkit Goyal	4 weeks	14589f198e9
42721	stable	tests: show IMM is brok...	Pulkit Goyal	4 weeks	818051048c2e
42720	stable	buildrpm: bump bundle...	Antonio Muci	5 weeks	ae68418cc3a1
42719	default	merge with stable	Augie Fackler	4 weeks	7c0ece3cd3ee
42718	default	phabricator: set local:c...	Ian Moody	4 weeks	c0e30c9ee5ba
42717	default	phabricator: use templ...	Ian Moody	4 weeks	289d82a070e9
42716	default	commands: use bytesk...	Gregory Szorc	5 weeks	90d48c1c6224
42715	default	match: use raw strings ...	Gregory Szorc	5 weeks	fd384911f515
42714	default	revbranchcache: use c...	Pulkit Goyal	5 weeks	ecceca45c80d8
42713	default	revbranchcache: factor...	Pulkit Goyal	5 weeks	09fd338522fa
42712	default	tests: make log style a ...	Martin von Zweigbergk	5 weeks	802ae9772ced
42711	default	tests: avoid cryptic nod...	Martin von Zweigbergk	5 weeks	fad480dad04d
42710	default	tests: defines aliases fo...	Martin von Zweigbergk	5 weeks	1afd9d1e55ca
42709	default	rust-discovery: implem...	Georges Racinet	2 months	1b0be75cb61f
42708	default	rust-discovery: cpython...	Georges Racinet	3 months	13b64247f48f
42707	default	rust-discovery: starting...	Georges Racinet	3 months	10b465061556
42706	default	rust-dagops: roots ...	Georges Racinet	3 months	be8733552984
42705	default	rust-dagops: range of r...	Georges Racinet	3 months	3bd21bbf791
42704	stable	setup: tweak error mes...	Gregory Szorc	5 weeks	cd1be9e340b0

Changeset: 42712 (802ae9772ced) tests: make log style a little easier to read in test-copytrace-heuristics.t ...
User: Martin von Zweigbergk <martinvon@google.com>
Date: 2019-04-18 22:16:33 -0700 (5 weeks)
Parent: 42711 (fad480dad04d) tests: avoid cryptic nodeids in tests/test-rename-merge.t ...
Child: 42713 (09fd338522fa) revbranchcache: factor logic to write names and revs in separate functions ...

tests: make log style a little easier to read in test-copytrace-heuristics.t

Revision numbers are much shorter and easier to read (especially compared to the full nodeids that were used here), so I switched to that. That's also what almost all the commands used (e.g. 'hg rebase -s . -d 1'). I updated the two instances that used nodeids. I also made some other little cleanups to the log templates.

Differential Revision: <https://phab.mercurial-scm.org/D6279>

```
13 34179 $ . "$TESTTMP/copytrace.sh"
14 34179
15 34179 $ cat >> $HGRCPPATH << EOF
16 34179 > [extensions]
17 34179 > rebase=
18 34179 > shelve=
19 42710 > [alias]
20 42712 > l = log -G -T 'rev: {rev}\ndesc: {desc}\n'
21 42712 > pl = log -G -T 'rev: {rev}, phase: {phase}\ndesc: {desc}\n'
22 34179 > EOF
23 34179
```

Log graph

Overview

The screenshot displays the TortoiseHg application window. On the left, the 'Repository Registry' pane shows the 'mercurial-devel' repository selected. The main area is divided into three panes. The top pane, titled 'Graph', shows a commit log with columns for Rev, Branch, Description, Author, Age, and Node. The bottom-left pane shows a file list with 'tests/test-copytrace-heuristics.t' selected. The bottom-right pane displays the 'Changeset' information for the selected file, including the commit message, user, date, parent, and child, followed by a diff view showing changes to the file.

Rev	Branch	Description	Author	Age	Node
42722	stable	context: check file exis...	Pulkit Goyal	4 weeks	14589f198e9
42721	stable	tests: show IMM is brok...	Pulkit Goyal	4 weeks	818051048c2e
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Changeset: 42712 (802ae9772ced) tests: make log style a little easier to read in test-copytrace-heuristics.t ...

User: Martin von Zweigbergk <martinvonz@google.com>
Date: 2019-04-18 22:16:33 -0700 (5 weeks)
Parent: 42711 (fad480dad04d) tests: avoid cryptic nodeids in tests/test-rename-merge1.t ...
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tests: make log style a little easier to read in test-copytrace-heuristics.t

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Log graph

Changeset info

Overview

The screenshot displays the TortoiseHg application interface. The top menu bar includes 'File', 'View', 'Repository', and 'Help'. Below the menu is a toolbar with various icons. The main window is divided into three panes:

- Left Pane (Repository Registry):** Shows a tree view with 'default' selected, and sub-items 'mercurial-devel' and 'bighperf'.
- Center Pane (Log graph):** Displays a commit log table with columns: Rev, Branch, Description, Author, Age, and Node. The table lists several commits, with the most recent being 42704 (stable) by Gregory Szorc.
- Right Pane (Changeset info):** Shows detailed information for the selected changeset (42712). It includes the user (Martin von Zweigbergk), date (2019-04-18), parent (42711), and child (42713). It also provides a description of the changeset and a link to the differential revision.

Below the changeset info, the **Internal diff tool** is visible, showing a diff between the current changeset and its parent. The diff highlights changes in the file 'tests/test-copytrace-heuristics.t'.

Log graph

Changeset info

Internal diff tool

Overview

The screenshot displays the TortoiseHg application interface. On the left, the 'Repository Registry' pane shows the 'mercurial-devel' repository selected. The main area is divided into three panes: a 'Log graph' on the left showing a commit history graph, a 'Changeset info' pane in the middle showing details for changeset 42712, and an 'Internal diff tool' pane on the right showing a diff of the file 'tests/test-copytrace-heuristics.t'.

Rev	Branch	Description	Author	Age	Node
42722	stable	context: check file exis...	Pulkit Goyal	4 weeks	14589f198e9
42721	stable	tests: show IMM is brok...	Pulkit Goyal	4 weeks	818051048c2e
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User: Martin von Zweigbergk <martinvonz@google.com>
Date: 2019-04-18 22:16:33 -0700 (5 weeks)
Parent: 42711 (fad480dad04d) tests: avoid cryptic nodeids in tests/test-rename-merge.t ...
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tests: make log style a little easier to read in test-copytrace-heuristics.t

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tests/test-copytrace-heuristics.t

```
13 34179 $ . "$TESTTMP/copytrace.sh"
14 34179
15 34179 $ cat >> $HGRCPTH << EOF
16 34179 > [extensions]
17 34179 > rebase=
18 34179 > shelve=
19 42710 > [alias]
20 42712 > l = log -G -T 'rev: {rev}\ndesc: {desc}\n'
21 42712 > pl = log -G -T 'rev: {rev}, phase: {phase}\ndesc: {desc}\n'
22 34179 > EOF
23 34179
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Log graph

Changeset info

Internal diff tool

Changeset files

TortoiseHg

May 28th 2019

Overview

Repositories

Log graph

Changeset info

Internal diff tool

The screenshot displays the TortoiseHg application interface. The top menu bar includes 'File', 'View', 'Repository', and 'Help'. Below the menu is a toolbar with various icons. The main window is divided into several panes:

- Repository Registry:** A list of repositories including 'default', 'mercurial-devel', and 'bighperf'.
- Graph:** A visual representation of the commit history, showing a series of nodes connected by lines.
- Table:** A table listing changesets with columns for Rev, Branch, Description, Author, Age, and Node. The table shows a list of changesets, with the selected changeset (42712) highlighted in blue.
- Changeset info:** A pane displaying detailed information about the selected changeset (42712), including the user (Martin von Zweigbergk), date (2019-04-18), parent (42711), and child (42713). It also includes a description of the changeset and a link to the Differential Revision.
- Internal diff tool:** A pane showing the internal diff tool output for the selected changeset, displaying a list of lines with their corresponding revision numbers and the diff content.

May 28th 2019

Changeset files

TortoiseHg

Commands

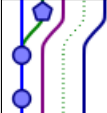
- Pull
- Push
- Commit
- Amend
- ...

Phases

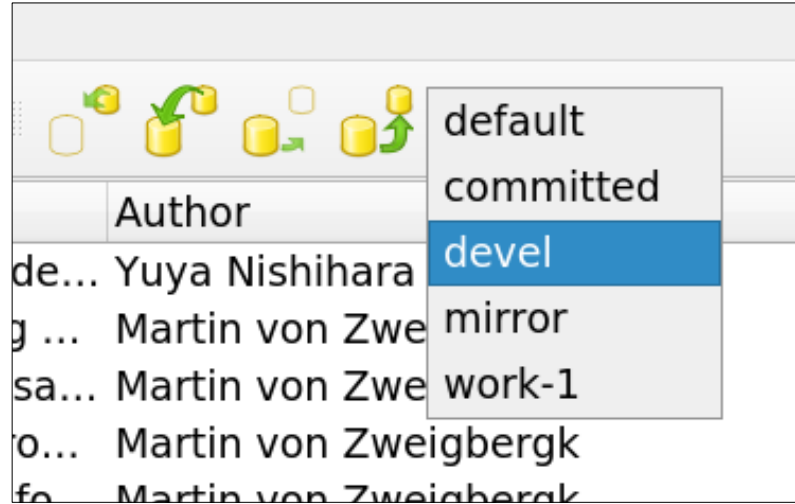
The screenshot shows the TortoiseHg application interface. On the left is a commit graph. The main area displays a table of commit history. A right-click context menu is open over the selected commit (Rev 43222, Branch default). The menu includes options like 'Update...', 'Diff to Parent', 'Merge with Local...', and 'Change Phase to...'. The 'Change Phase to...' option is currently selected, showing a sub-menu with 'public', 'draft', and 'secret' phases. The commit description for the selected revision is 'rust-dirs-multiset rust-...'.

Graph	Rev	Branch	Description
	43222+	default	Not a head revision! ★...
	43223	default	tip rust-dirstatemap Wl...
	43222	default	rust-dirs-multiset rust-...
		alt	rust-dirs-multiset rust-...
		alt	rust-dirs-multiset rust-...
		alt	rust-dirstate rust-dirst...
		alt	perf-followup perf: ma...
		alt	default test: add missi...
		alt	perf-mergecopies perf:...
		alt	perf-mergecopies perf:...
		alt	perf-mergecopies perf:...
		alt	perf-mergecopies perf:...
		alt	perf-mergecopies perf:...
		alt	rust-modulepolicy rust:...
		alt	rust-modulepolicy rust:...
		alt	rust-modulepolicy rust:...
		alt	match: remove an obs...
		alt	match: de-flake test-do...
			Change Phase to
		public	option to ...
		draft	
		secret	
			Change User: Date:

Bookmarks

	43137	default	convert: demonstrate b... Martin von Zweigbergk	9 days	78530404d00b
	43136	default	@ templater: drop sup... Matt Harbison	8 days	832c59d1196e
	43135	default	commands: drop suppo... Matt Harbison	8 days	fa4b13e81f60

Paths



Choose the parent to diff in merges

The screenshot shows the TortoiseHg interface. On the left, a commit graph displays a sequence of commits. The main pane shows a list of commits with columns for revision number, branch name, commit message, and author. Commit 43153 is highlighted in blue, indicating it is the selected commit. Below the list, a search bar contains the text '### filter text ###'. At the bottom, a file named 'mercurial/localrepo.py' is selected. A context menu is open over the selected file, showing options for comparing the commit to its parents.

Revision	Branch	Commit Message	Author
43154	default	tests: work around libr...	Augie Fackler
43153	default	merge with stable	Augie Fackler
43152	stable	stable bookmark: also ...	Pierre-Yves David
43151	stable	localrepo: grab mixedr...	Pierre-Yves David
43150	stable	bookmark: add a test f...	Pierre-Yves David
43149	stable	test: properly gate a zs...	Pierre-Yves David
43148	stable	test: update test for ex...	Pierre-Yves David
43147	default	templatekw: change de...	Yuya Nishihara
43146	default	commit: move sorting ...	Martin von Zweigbergk
43145	default	match: drop unnecessa...	Martin von Zweigbergk
43144	default	narrowcommands: dro...	Martin von Zweigbergk
43143	default	copies: remove hack fo...	Martin von Zweigbergk
43142	default	util: make util.dirs() an...	Martin von Zweigbergk
43141	default	dirstate: drop workarou...	Martin von Zweigbergk

filter text

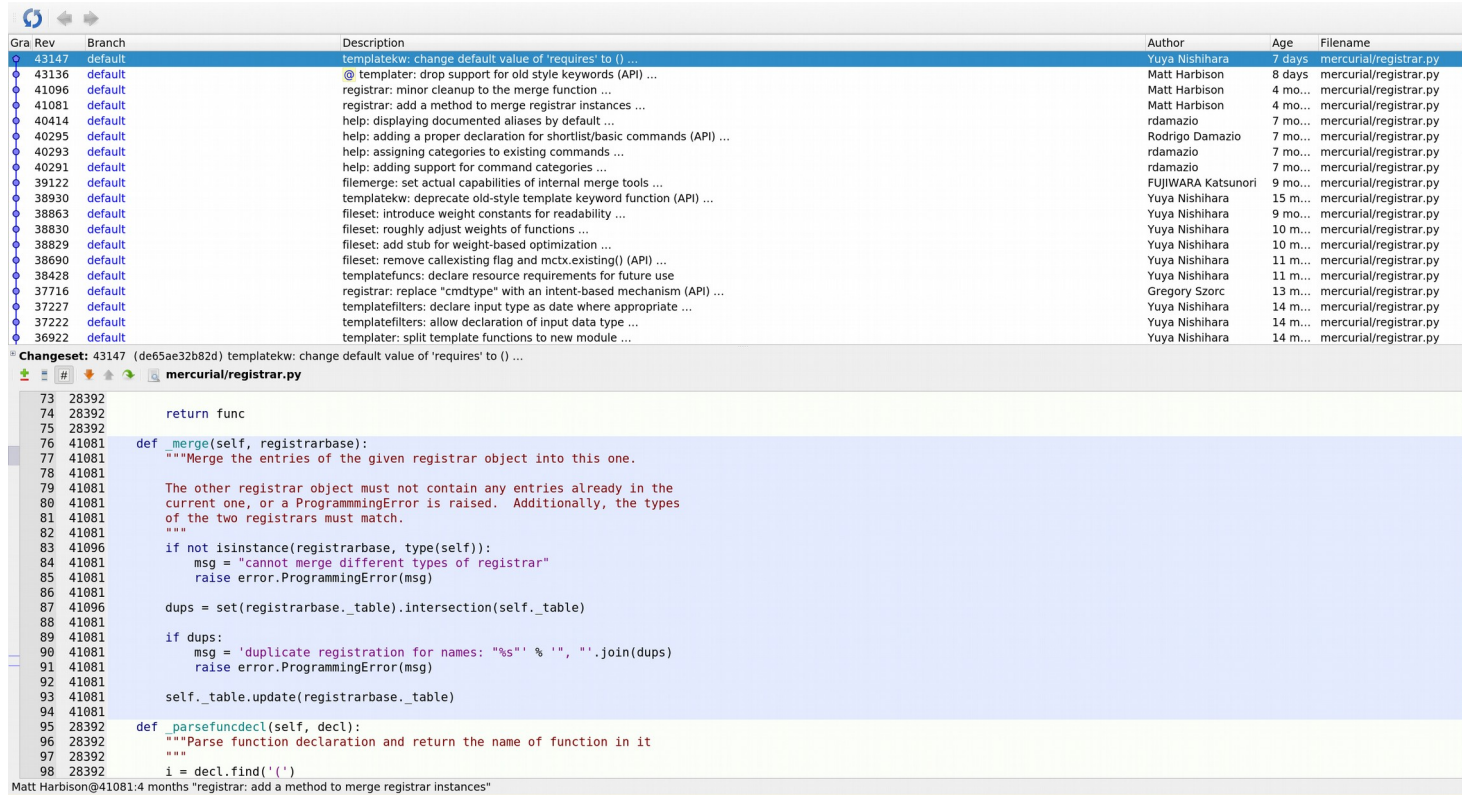
mercurial/localrepo.py

Changeset: 43153 (ffab9eed3)

Changed by This Commit

- Compare to 1st Parent
- Compare to 2nd Parent

Annotate – History for a single file



The screenshot displays the TortoiseHg Annotate interface. The top section is a table listing commit history for the file `mercurial/registrar.py`. The bottom section shows the code content of the selected commit (43147), with line numbers on the left and code on the right. The code includes a `merge` method and a `parsefuncdecl` method.

Gra	Rev	Branch	Description	Author	Age	Filename
43147	default		templatekw: change default value of 'requires' to () ...	Yuya Nishihara	7 days	mercurial/registrar.py
43136	default		@ templater: drop support for old style keywords (API) ...	Matt Harbison	8 days	mercurial/registrar.py
41096	default		registrar: minor cleanup to the merge function ...	Matt Harbison	4 mo...	mercurial/registrar.py
41081	default		registrar: add a method to merge registrar instances ...	Matt Harbison	4 mo...	mercurial/registrar.py
40414	default		help: displaying documented aliases by default ...	rdamazio	7 mo...	mercurial/registrar.py
40295	default		help: adding a proper declaration for shortlist/basic commands (API) ...	Rodrigo Damazio	7 mo...	mercurial/registrar.py
40293	default		help: assigning categories to existing commands ...	rdamazio	7 mo...	mercurial/registrar.py
40291	default		help: adding support for command categories ...	rdamazio	7 mo...	mercurial/registrar.py
39122	default		filemerge: set actual capabilities of internal merge tools ...	FUJIIWARA Katsunori	9 mo...	mercurial/registrar.py
38930	default		templatekw: deprecate old-style template keyword function (API) ...	Yuya Nishihara	15 m...	mercurial/registrar.py
38863	default		filesset: introduce weight constants for readability ...	Yuya Nishihara	9 mo...	mercurial/registrar.py
38830	default		filesset: roughly adjust weights of functions ...	Yuya Nishihara	10 m...	mercurial/registrar.py
38829	default		filesset: add stub for weight-based optimization ...	Yuya Nishihara	10 m...	mercurial/registrar.py
38690	default		filesset: remove callexisting flag and mctx.existing() (API) ...	Yuya Nishihara	11 m...	mercurial/registrar.py
38428	default		templatefuncs: declare resource requirements for future use	Yuya Nishihara	11 m...	mercurial/registrar.py
37716	default		registrar: replace "cmdtype" with an intent-based mechanism (API) ...	Gregory Szorc	13 m...	mercurial/registrar.py
37227	default		templatefilters: declare input type as date where appropriate ...	Yuya Nishihara	14 m...	mercurial/registrar.py
37222	default		templatefilters: allow declaration of input data type ...	Yuya Nishihara	14 m...	mercurial/registrar.py
36922	default		templater: split template functions to new module ...	Yuya Nishihara	14 m...	mercurial/registrar.py

Changeset: 43147 (de65ae32b82d) templatekw: change default value of 'requires' to () ...

```
73 28392
74 28392     return func
75 28392
76 41081 def merge(self, registrarbase):
77 41081     """Merge the entries of the given registrar object into this one.
78 41081
79 41081     The other registrar object must not contain any entries already in the
80 41081     current one, or a ProgrammingError is raised. Additionally, the types
81 41081     of the two registrars must match.
82 41081     """
83 41096     if not isinstance(registrarbase, type(self)):
84 41081         msg = "cannot merge different types of registrar"
85 41081         raise error.ProgrammingError(msg)
86 41081
87 41096     dups = set(registrarbase._table).intersection(self._table)
88 41081
89 41081     if dups:
90 41081         msg = 'duplicate registration for names: "%s"' % ' '.join(dups)
91 41081         raise error.ProgrammingError(msg)
92 41081
93 41081     self._table.update(registrarbase._table)
94 41081
95 28392 def parsefuncdecl(self, decl):
96 28392     """Parse function declaration and return the name of function in it
97 28392     """
98 28392     i = decl.find('(')
```

Matt Harbison@41081:4 months "registrar: add a method to merge registrar instances"

Annotate – History for a single file

The screenshot displays the TortoiseHg 'Annotate' interface. The top section, titled 'Changesets graph', shows a list of changesets for the file 'mercurial/registrar.py'. The bottom section, titled 'Annotated view', shows the code from the selected changeset (41081) with line numbers and commit hashes.

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91 41081         raise error.ProgrammingError(msg)
92 41081
93 41081     self._table.update(registrarbase._table)
94 41081
95 28392 def parsefuncdecl(self, decl):
96 28392     """Parse function declaration and return the name of function in it
97 28392     """
98 28392     i = decl.find('(')
```

Matt Harbison@41081:4 months "registrar: add a method to merge registrar instances"

Changesets graph

Annotated view

Support for extensions

Topic

Graph	Rev	Branch	Description	Author	Age	Node
	43222+	default	Not a head revision! ★...	Raphaël Gomès	now	69b686f3c8be+
	43223	default	tip rust-dirstatemap WI...	Raphaël Gomès	9 days	730e9cbc2b54
	43222	default	rust-dirs-multiset rust-...	Raphaël Gomès	10 days	69b686f3c8be
	43221	default	rust-dirs-multiset rust-...	Raphaël Gomès	10 days	76de0dbd0e37
	43220	default	rust-dirs-multiset rust-...	Raphaël Gomès	10 days	fb5d9e04146a
	43219	default	rust-dirstate rust-dirst...	Raphaël Gomès	10 days	d7afdbef8a64
	43209	default	perf-followup perf: ma...	Pierre-Yves David	3 days	b6d5cc6ccb0a
	43208	default	default test: add missi...	Danny Hooper	4 days	b02f3aa2fab5
	43207	default	perf-mergecopies perf:...	Pierre-Yves David	3 days	72771aee9136
	43206	default	perf-mergecopies perf:...	Pierre-Yves David	3 days	2a0e626bc8f1
	43205	default	perf-mergecopies perf:...	Pierre-Yves David	3 days	1587f4e0cca5
	43204	default	perf-mergecopies perf:...	Pierre-Yves David	3 days	c5959a988d0d
	43203	default	perf-mergecopies perf:...	Pierre-Yves David	3 days	041e1cfff879
	43202	default	rust-modulepolicy rust:...	Georges Racinet	4 days	b545a9ff2659
	43201	default	rust-modulepolicy rust:...	Georges Racinet	3 days	1ea01a0c2d35
	43200	default	rust-modulepolicy rust:...	Georges Racinet	3 days	36b4c4869531
	43199	default	match: remove an obs...	Martin von Zweigbergk	4 days	52beb1b8a649
	43198	default	match: de-flake test-do...	Martin von Zweigbergk	4 days	c4b8f8637d7a
	43197	default	perf: add an option to ...	Pierre-Yves David	5 days	3293086ff663












Evolve



And many more

- shelve
- histedit
- absorb
- mercurial-keyring
- ...

External diffs

	43147	defa	 Update...	Yuya Nishihara	7 days	de65ae32b82d
	43146	defa	 Diff to Parent	Martin von Zweigbergk	12 days	6310180662f5
	43145	defa	 Diff to Local	Martin von Zweigbergk	4 weeks	38d85ec06552
	43144	defa	 Browse at Revision	Martin von Zweigbergk	4 weeks	7d4ee14ff92d
	43143	defa	 Filter by	Martin von Zweigbergk	5 weeks	c361db7a5f14
	43142	defa		Martin von Zweigbergk	2017-05...	d8e55c0c642c

```
pub mod testing; // unconditionally built, for use from integration tests
pub use dirstate::{
    parsers::{pack_dirstate, parse_dirstate},
    CopyVec, CopyVecEntry, DirstateEntry, DirstateParents, DirstateVec,
};
mod filepatterns;

pub use filepatterns::{
    build_single_regex, read_pattern_file, PatternSyntax, PatternTuple,
};

/// Mercurial revision numbers
///
```

```
pub mod testing; // unconditionally built, for use from integration tests
pub use dirstate::{
    dirs_multiset::DirsMultiset,
    parsers::{pack_dirstate, parse_dirstate},
    CopyVec, CopyVecEntry, DirsIterable, DirstateEntry, DirstateParents,
    DirstateVec,
};
mod filepatterns;

pub use filepatterns::{
    build_single_regex, read_pattern_file, PatternSyntax, PatternTuple,
};
```

Overall

- Cross-platform
- Fast
- Simple to use
- Reliable

Mercurial Conference — Paris 2019

Thank you!