Review is good

It's the primary collaboration process
Typical patch review tasks

- Work out what the patches are changing
- Check source material
  - Licensing for new packages/patches
  - Bundled source/binaries
- Check how many packages are affected
- Check new and affected packages build
  - On multiple systems: x86_64-linux, i686-linux, aarch64-linux, armhf-linux, powerpc64le-linux, ...
- Check for lint warnings
- Check the synopsis and descriptions against the guidelines
- Test reproducibility of new/affected packages
  - Check code formatting
  - Check commit message style
  - Email feedback and respond to replies
What kind of tasks could automation help with?

Tasks that:
• Can easily be done without human input
• Take a long time
• Require specific hardware
What tasks aren't candidates for automation

(currently, in my opinion)

• Checking the synopsis and description
• Checking licensing and for bundled source/binaries
Progress so far

• Several iterations over the last few years
• Approaches for most of the hard problems
  ▪ Work out what's changed with the Guix Data Service
  ▪ Build affected packages and report result with the Guix Build Coordinator
• "QA Frontpage" for communicating information to patch submitters and reviewers
Guix Build Coordinator (buildCoordinator.bayfront.)

Work out changed

Guix Data Service (data.qa.guix.gnu.org)

Build things and report

Guix QA Frontpage (qa.guix.gnu.org)

Communicate actionable information
<table>
<thead>
<tr>
<th>URL</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>issues.guix.gnu.org</strong></td>
<td>View issues</td>
</tr>
<tr>
<td><strong>qa.guix.gnu.org</strong></td>
<td>See patch series status (plus everything QA related)</td>
</tr>
<tr>
<td><strong>laminar.cbaines.net</strong></td>
<td>Manage branches for patch series</td>
</tr>
<tr>
<td><strong>git.guix-patches.cbaines.net</strong></td>
<td>Store branches for patch series</td>
</tr>
<tr>
<td><strong>data.qa.guix.gnu.org</strong></td>
<td>Work out what's changed with patch series and branches</td>
</tr>
<tr>
<td><strong>patches.guix-patches.cbaines.net</strong></td>
<td>Patchwork instance for processing guix-patches emails</td>
</tr>
<tr>
<td><strong>Chris's personal mailserver</strong></td>
<td>Handles emails to data.qa.guix.gnu.org and patches.guix-patches.cbaines.net</td>
</tr>
<tr>
<td>Domain Name</td>
<td>Description</td>
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<tr>
<td>----------------------------------</td>
<td>--------------------------------------------------</td>
</tr>
<tr>
<td>laminar.cbaines.net</td>
<td>Move functionality to qa.guix.gnu.org</td>
</tr>
<tr>
<td>git.guix-patches.cbaines.net</td>
<td>Host on Guix project infrastructure</td>
</tr>
<tr>
<td>data.qa.guix.gnu.org</td>
<td>Host on Guix project infrastructure</td>
</tr>
<tr>
<td>patches.guix-patches.cbaines.net</td>
<td>Replace with issues.guix.gnu.org</td>
</tr>
<tr>
<td>Chris's personal mailserver</td>
<td>Replace with Guix project mailserver</td>
</tr>
</tbody>
</table>
This service is in the very early stages of development. View the code in this git repository and send patches to mail@cbaines.n
QA: Patches

2. [bug#57902] New package idevicerestore + libirecovery
3. [bug#57900]: scripts: build: Format strings before calling
4. Add waybar-cpu-histogram
7. Add emacs-emprise
5. Minetest updates, new game.
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QA: Issue 57869

new issue on issues.guix.gnu.org
new series on Patchwork
new Guix Data Service comparison

<table>
<thead>
<tr>
<th>System</th>
<th>Linter</th>
<th>Message</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>lint warning changes</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>System</th>
<th>Succeeding</th>
<th>Failing</th>
<th>Unknown</th>
<th>Package build status</th>
</tr>
</thead>
<tbody>
<tr>
<td>64-linux</td>
<td>2</td>
<td>1</td>
<td>0</td>
<td>3</td>
</tr>
<tr>
<td>6-linux</td>
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<td>1</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>164-linux</td>
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<td>1</td>
<td>0</td>
<td>3</td>
</tr>
<tr>
<td>nf-linux</td>
<td>2</td>
<td>1</td>
<td>0</td>
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</tbody>
</table>
How you can get involved?
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- Get involved in the discussion
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- Get involved in the discussion
- Work on qa.guix.gnu.org
How you can get involved?

- Get involved in the discussion
- Work on qa.guix.gnu.org
- So many other things...