

Collaborative text editing

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Idea

Allow multiple users to collaboratively edit documents in KTextEditor.

What for? Imagine you want to ...

- ▶ ... quickly take some notes with friends
- ▶ ... review a text (e. g. in \LaTeX) somebody wrote
- ▶ ... have someone look at a programming problem you have

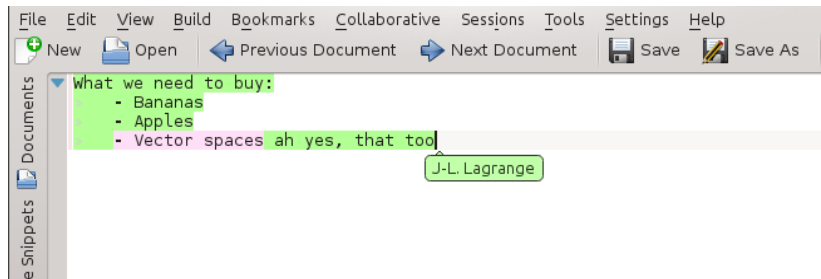
Technical circumstances

We have near optimal technical circumstances for doing this.

- ▶ *libinfinity*: Back-end library for collaborative editing
- ▶ *KTextEditor*: KDE's extensible text editor interface
- ▶ *telepathy*: Instant messaging library, allows for easy networking

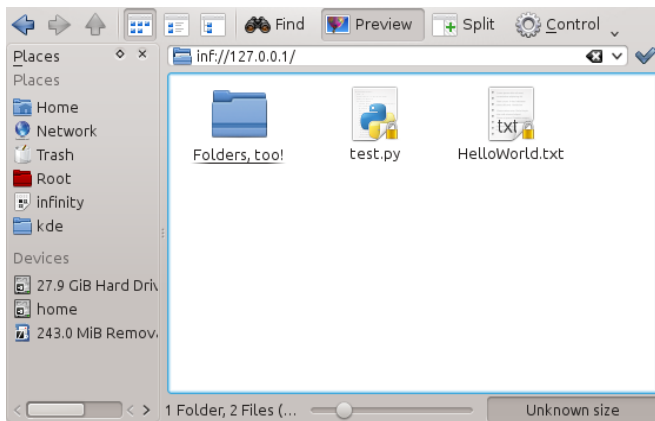
Just plug those together, and ...

Collaborative editing KTextEditor plugin



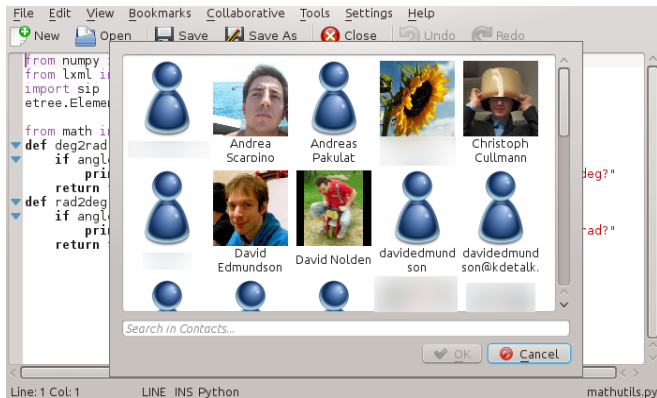
The plugin can be used in kate, kwrite, kile, KDevelop, ...

Opening files: KIO slave



`inf://` protocol for adding and opening files

Establishing connections: Stream Tubes + kde-telepathy!



Clicking a contact is all you need to do.

Future work

- ▶ some work is needed on the text plugin (e. g. Undo/Redo)
- ▶ stabilization
- ▶ tighter integration with kde-telepathy
- ▶ eventually integrate text-ui into editor?

Thanks for your attention!

```

if last_failed:
    getLocation = re.match(r"\s*Loc:\s*\[(.*)\((\d*)\)]", line)
    filename = ".../" + '/'.join(getLocation.groups()[0].split('/')[1:-2:])
    lineno = getLocation.groups()[1]
    self.failed_tests[-1].filename = filename
    self.failed_tests[-1].lineno = lineno
last_failed = False
print last_failed # Hi from me!
# Hi from me, too!

fail = re.match(r"FAIL:\s*:\s*(.*)\s'.*'", line)
if fail:
    function = fail.groups()[0]
    self.failed_tests.append(FailedTest(function))
    last_failed = True

passed, failed = len(self.passed_tests), len(self.failed_tests)
percent = (float(passed) / (failed+passed)) * 100
percent = green(percent) if percent == 100 else yellow(percent) if percent > 8
total = white(passed+failed)
passed, failed = green(passed), red(failed)
print " Done. Summary: %s tests total, %s passed, %s failed (%s%% passed)." %

```