## Matthew Flaschen

Software Engineer, Collaboration Team, Wikimedia Foundation

## Converting LiquidThreads to Flow

Or: How I learned to stop worrying and love the batch

## But First

A Long Introduction

Wikipedia

Brussels (French: Brussels, [bʁysɛl] (◄) listen); Dutch: Brussel, ['brysəl] (◄) listen)), officially the Brussels-Capital Re
Brussels (French: Brussels Hoofdstedelijk Gewest), [7] is a region of Belgium comprising 19 municipalities, in
which is the capital of Belgium, [8] the French Community of Belgium, [9] and the Flemish Community. [10] The region I
and a metropolitan area with a population of over 1.8 million, the largest in Belgium. [11][12]

Since the end of the Second World War, Brussels has been a major centre for international politics and has become to international organisations, politicians, diplomats and civil servants. Brussels is the *de facto* capital (or one of the and Strasbourg) of the European Union as it hosts a number of principal EU institutions. The secretariat of headquarters of the North Atlantic Treaty Organization (NATO) are also located in Brussels.

Brussels is just a few kilometres north of the boundary between Belgium's language communities—French in the so Historically a Dutch-speaking city, it has seen a major shift to French since Belgian independence in 1830. Today, alt French, the city is officially bilingual. All road signs, street names, and many advertisements and services are shown increasingly becoming multilingual with increasing numbers of migrants, expatriates and minority groups speaking

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- 2 Brussels as a capital
- 3 Municipalities
- 4 Brussels-Capital Region
  - 4.1 Institutions
  - 4.2 Agglomeration of Brussels
- 5 French and Flemish communities
  - 5.1 Common Community Commission
- 6 International institutions
  - 6.1 European Union
- 7 Climate
- 8 Demographics
  - 8.1 Nationalities
  - 8.2 Religions
  - 8.3 Languages

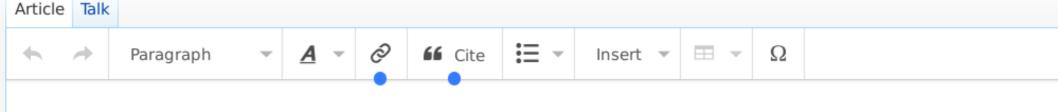
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{{Other places}}
{{pp-move-indef}}
{{Unfocused|talk=Urban area vs. administrative division|date=September 2015}}
{{split|discuss=Talk:Brussels#Urban area vs. administrative division|date=September 2015}}
{{Use dmy dates|date=August 2015}}
{{Infobox settlement
| settlement type
                     = [[Regions of Belgium|Region of Belgium]]
name
                      = Brussels
| native name = {{unbulleted list| <small>''{{lang|fr|Bruxelles}}''</small> |<small> ''{{lang|nl|Brussel}}''</small>}}
| official name
                    = {{unbulleted list| Brussels Capital Region | <small>''Région de Bruxelles-Capitale''</small> | <small>
| nickname
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</ref> Comic city<ref name=Comic/><ref>{{cite web|title=Cheap flights to Brussels|url=http://www.easyjet.com/en/cheap-flights
| image skyline
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| image caption
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[[Congress Column]], Bottom: [[Royal Palace of Brussels]]
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| flag link
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| coordinates region = BE
| subdivision type
                     = Country
| subdivision name
                     = [[Belgium]]
| seat type
seat
| established date
                     = \{\{circa\}\}\ 580
| established title1 = Founded
| established date1
                     = 979
| established title2 = [[Communities, regions and language areas of Belgium#Regions|Region]]
| established date2
                      = 18 June 1989
```

{{About|the Brussels-Capital Region|the municipality within it|City of Brussels}}

```
\mathbf{B} I
                        ▶ Advanced → Special characters ▼ Help → Cite
Formatting
                                          Description
                                                                         What you type
Links
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| nickname
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| image flag
| flag size
                     = 125px
                     = Flag of the Brussels-Capital Region
| flag link
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| blank emblem type
```

= Brussels in Belgium and the European Union.svg

image map



#### Brussels

From Wikipedia, the free encyclopedia

This article is about the Brussels-Capital Region. For the municipality within it, see City of Brussels.

#### + Insert paragraph

For other places with the same name, see Brussels (disambiguation).



H-





It has been suggested that this article be split into multiple articles. (Discuss.) (Sep

**Warning:** Page using Template:Infobox settlement with unknown parameter "leader\_title5" (this message is s **Warning:** Page using Template:Infobox settlement with unknown parameter "leader\_name5" (this message is

Brussels (French: Bruxelles, [bʁysɛl] (◄) listen); Dutch: Brussel, ['brysəl] (◄) listen)) • , officially the Brussels-Capitale Bruxelles-Capitale, Dutch: Brussels Hoofdstedelijk Gewest), [3] is a region of Belgium comprising 19 municipalities which is the capital of Belgium, [4] the French Community of Belgium, [5] and the Flemish Community. [6] The region and a metropolitan area with a population of over 1.8 million, the largest in Belgium. [7][8]

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(cur) = difference from current version, (prev) = difference from preceding version,  $\mathbf{m} = \text{minor edit}$ ,  $\rightarrow = \text{section}$  (newest | oldest) View (newer 50 | older 50) (20 | 50 | 100 | 250 | 500)

#### Compare selected revisions

- (cur | prev) 13:28, 30 January 2016 Sukhoi 24 (talk | contribs) . . (97,248 bytes) (+110) . . (Filled in 1 b
- (cur | prev) 13:13, 28 January 2016 Callanecc (talk | contribs) **m** . . (97,138 bytes) (+2) . . (Reverted ed
- (cur | prev) 13:10, 28 January 2016 78.53.118.157 (talk) . . (97,136 bytes) (-2) . . (undo)
- (cur | prev) 02:29, 20 January 2016 Tridek Sep (talk | contribs) . . (97,138 bytes) (-26) . . (Reverted uns
- (cur | prev) 14:27, 19 January 2016 Eerki (talk | contribs) . . (97,164 bytes) (+26) . . (→Nationalities) (u
- (cur | prev) □ 14.27, 19 January 2016 Eerki (talk | contribs) . . (97,164 bytes) (+26) . . (→Nationalities) (u
   (cur | prev) □ 21:15, 11 January 2016 Chickensire (talk | contribs) . . (97,138 bytes) (+7) . . (→History) (u)
- (cur | prev) 21:13, 11 January 2016 Chickensire (talk | contribs) . . (97,131 bytes) (-7) . . (→History) (un
- (cur | prev) 10:13, 7 January 2016 WereSpielChequers (talk | contribs) m . . (97,138 bytes) (+1) . . (→Fi
- AWB) (undo)
- (cur | prev) 12:21, 23 December 2015 LoDeBo (talk | contribs) . . (97,137 bytes) (+14) . . (→Road netwo
- (cur | prev) 12:19, 23 December 2015 LoDeBo (talk | contribs) . . (97,123 bytes) (-48) . . (undo)
- (cur | prev) 03:45, 23 December 2015 175.156.136.103 (talk) . . (97,171 bytes) (-2) . . (→Climate) (und
- (cur | prev) 00:44, 22 December 2015 ZH8000 (talk | contribs) . . (97,173 bytes) (-585) . . (→Twin town

#### Revision as of 19:02, 12 December 2015 (edit) (undo)

Clpo13 (talk | contribs)

(Reverted 1 edit by 100.15.134.190 (talk): As before. (TW))

Next edit →

#### Line 8:

```
settlement type
                   = [[Regions of Belgium|Region of Belgium]]
l name
                = Brussels
 native_name = {{unbulleted list| <small>"{{lang|fr|Bruxelles}}"</small> |<small>
"{ { lang|n||Brusse| } } "</small> } }
                 = {{unbulleted list| Brussels Capital Region | <small>"Région de Bruxelles-
official name
Capitale"</small> | <small> "Brussels Hoofdstedelijk Gewest"</small> } }
                  = Capital of Europe<ref>{ { cite web|title=Brussels |url=http://www.city-
| nickname
data.com/world-cities/Brussels-Introduction.html |publisher=City-Data.com |accessdate=10
January 2008}}</ref> Comic city<ref name=Comic/><ref>{{cite web|title=Cheap flights to
Brussels|url=http://www.easyjet.com/en/cheap-flights/brussels|publisher=Easyjet|accessdate=1
June 2010}}</ref>
| image skyline
                   = TE-Collage Brussels.png
```

#### **Line 95:**

```
}}
```

## Matthew Flaschen

Software Engineer, **Collaboration** Team, Wikimedia Foundation Discussion!

#### Brussels REGION is the de

Do we have any reason to believe that we change the article so that BUT NOT OF BELGIUM, BECAUSE HOUR TO FIGURE ALL OF THIS OU

The "Region" is just the legal s it as a capital city that technic Yes. People were very caref region/city status, but with currently we are not, and the They don't have to be di of the institutions aren't Are they not? (Well, I (Justus Lipsius, Espa Also, do any of Belgi Region Brussels if th I believe the Berla While it doesn't e section, I think. --My mistake. Ar

OK, I've edited the page saying th you're happy with the changes. T

I removed the constitution bit uncivil. No harm done though. Oreo | OK. The constitution part w capitalized rants:) Gabiteo

Many of the Furonean huildings a

#### Contents

#### Thread title

Comments from feedback form - ""The A

#### Comments from feedback form - "



"The AWG-LCA is the negotiating group So what is it exactly that they are doing Also:

"Luis Alfonso de Alba, Mexico's special Why is this sentence here? What expec Sorry to be blunt, but I was more confu what the article is about. Turtlestack (ta Turtlestack (talk) 21:40, 3 June 2010



I think I have a general understandin gist of it. For a graphic rundown of wl be. There's the pre-COP negotiations with COP15 we see that is very difficu

Regarding the quote from de Alba: H UNFCCC agreeing to a binding treaty the next COP is in Mexico, de Alba is

**Stepshep (talk)** 22:58, 3 June 2010

#### VisualEditor/Feed



Browse topics

#### Start a new topi

#### Open an image i

2 comments • 20 hours ag

#### Ziko

Hello, I'm editing this articl

I saw that one picture had Holnstein". I wanted to ext what else can be said abou

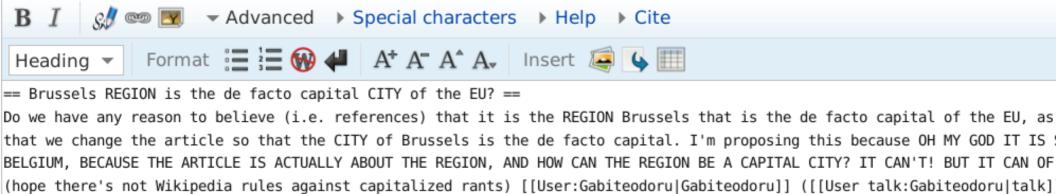
But it is not possible to clic not click on the "main artic Theodor Graf von Holnstein embedded via a template.

So I would like to a) be able description page in the pict

Kind regards

Reply

#### Whatamidoing (WMF)



:The "Region" is just the legal status of the entity. It's really just a big city that everyone calls "Brussels". The [[City think of it as a capital city that technically has the same powers as a Region, somewhat in the same way that Washinton DC is Priest</span>]]''' <sup>[[User talk:Oreo Priest|talk]]</sup> 20:45, 11 January 2011 (UTC)
::Yes. People were very careful about not calling the region the capital of Belgium, but calling the city the capital of Belgium.

region/city status, but with the Belgian constitution). However, shouldn't we be equally careful about whether to call the care not, and think we should fix that. [[User:Gabiteodoru|Gabiteodoru]] ([[User talk:Gabiteodoru|talk]]) 00:57, 12 January 20:::They don't have to be different. A region/district/state can be a capital city. See [[Berlin]]. What's for sure is that is a capital city. See [[Berlin]] aren't even in it.</s> '''[[User:Oreo Priest|<span style="color:green">Oreo Priest</span>]]'''

:::: Also, do any of Belgium's official institutions fall outside the City of Brussels? If yes, then one can argue that althorized also belgium and the second seco

::: Are they not? (Well, I do see that you are (interested in things?) Belgian, so I am taking that into account). But when that the most important ones (Justus Lipsius, Espace Leopold), are actually within the City of Brussels. Is that incorrect?

--[[User:David Edgar|David Edgar]] ([[User talk:David Edgar|talk]]) 12:56, 13 January 2011 (UTC)
:::::My mistake. And David Edgar is correct on all counts. '''[[User:Oreo Priest|<span style="color:green">Oreo Priest</span (UTC)

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#### /\* Brussels REGION is the de facto capital CITY of the EU? \*/

By clicking the "Save page" button, you agree to the Terms of Use and you irrevocably agree to release your contribution under to

#### Brussels REGION is the de facto capital CITY of the EU? [edit]

Do we have any reason to believe (i.e. references) that it is the REGION Brussels that is the de facto capital of the El that we change the article so that the CITY of Brussels is the de facto capital. I'm proposing this because OH MY GOI BUT NOT OF BELGIUM, BECAUSE THE ARTICLE IS ACTUALLY ABOUT THE REGION, AND HOW CAN THE REGION BE A CHOUR TO FIGURE ALL OF THIS OUT!!! </rant> (hope there's not Wikipedia rules against capitalized rants) Gabiteodo

The "Region" is just the legal status of the entity. It's really just a big city that everyone calls "Brussels". The City it as a capital city that technically has the same powers as a Region, somewhat in the same way that Washinton

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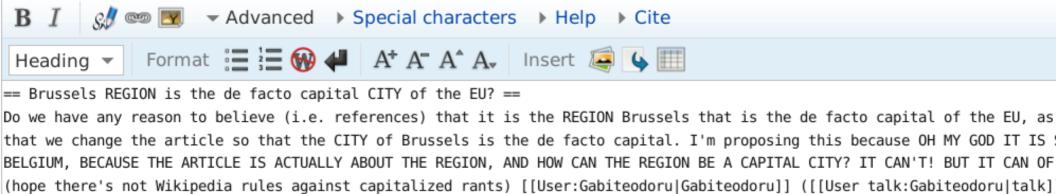
I believe the Berlaymont is also within the City of Brussels. Some of the offices (various DGs and so of While it doesn't explicitly say it, the article already basically implies that the region is the de facto of section, I think. --David Edgar (talk) 12:56, 13 January 2011 (UTC)

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OK. The constitution part was already there before my edit, it said "constitutional capital". Let's pat ourselves capitalized rants:) Gabiteodoru (talk) 19:49, 13 January 2011 (UTC)



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By clicking the "Save page" button, you agree to the Terms of Use and you irrevocably agree to release your contribution under to

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| flag size
                     = 125px
                     = Flag of the Brussels-Capital Region
| flag link
 image blank emblem
| blank emblem type
```

= Brussels in Belgium and the European Union.svg

image map

LiquidThreads

#### Preferences not being saved

Fragment of a discussion from Project:Forum

My best guess would either be database lag or something stuck in a cache somewhere. The latter

^demon 13:30, 5 November 2010

Thanks!

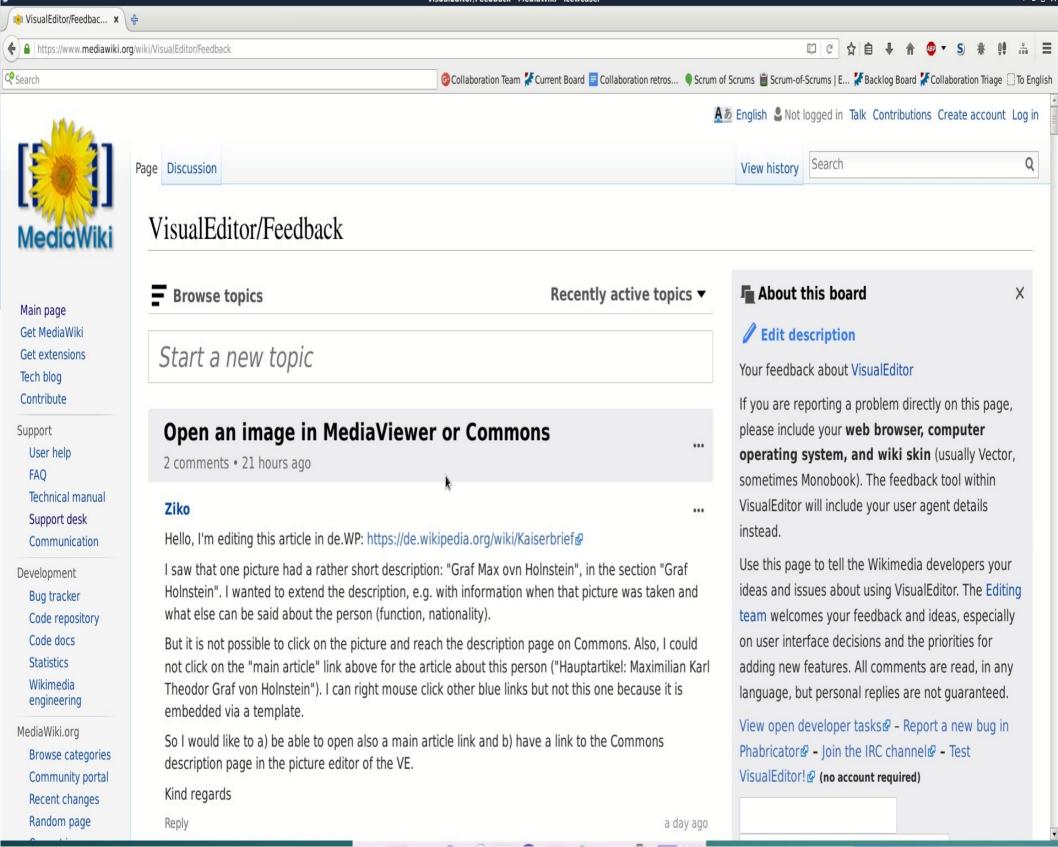
**RobinHood70** 06:46, 6 November 2010

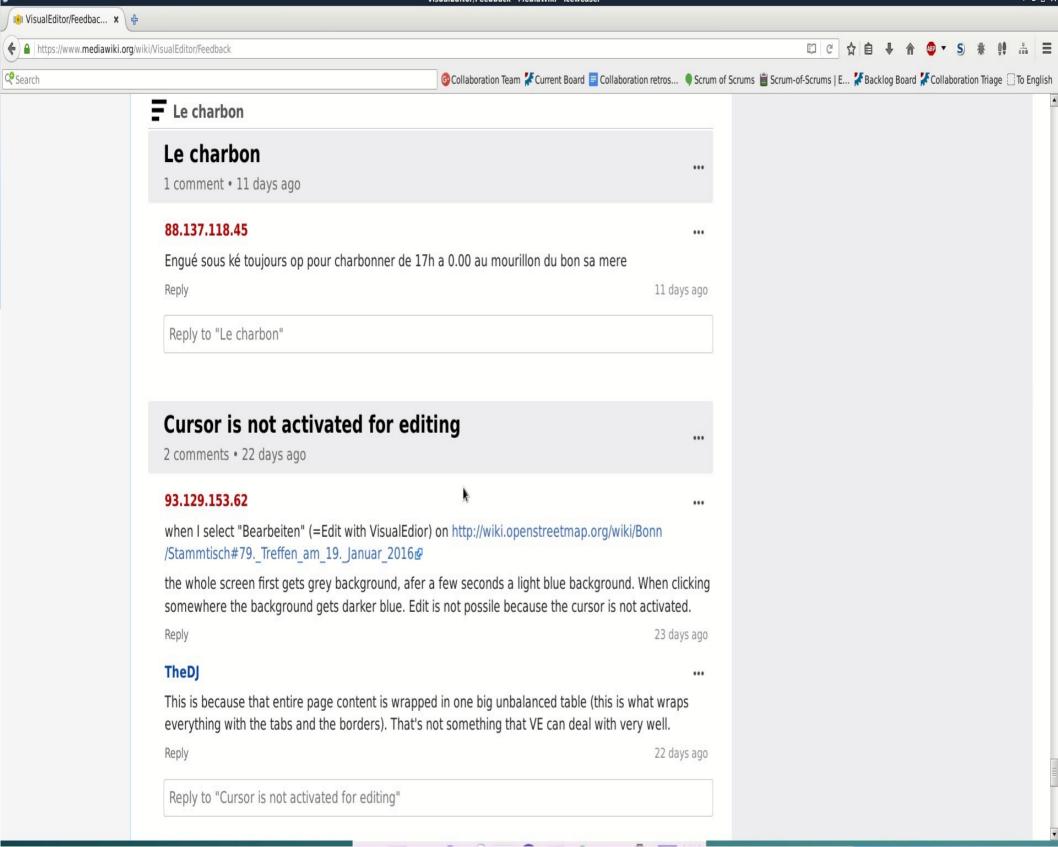
You're welcome:)

^demon 15:59, 6 November 2010

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## Flow





Storage model

## Conversion Goals

Test with real data locally

## Future flexibility in import source

Resumability

Preserve attribution and history

### Conversion Architecture

## Abstract API handling

## Source store

## Data mapping

## Map similar

Thread → Topic
Summary → Summary
Page → Description
Post → Post

### Mock dissimilar

Moved posts Hidden user names

# Converting LiquidThreads to Flow (on officewiki)

## Converting LiquidThreads to Flow

(on MediaWiki.org)

MediaWiki.org

#### Conversion Rollout

2 pages5 pages

2 pages 5 pages 24 pages 2 pages 5 pages 24 pages 2 pages 5 pages 24 pages Don't try this at home.

"/tmp/\${page//\/-}.log";

250 pages, without user talk

## All remaining except the two hard ones

Is it that bad, sir?

Looks like it's pretty hairy.

#### A classic

## Talk: Wikimedia engineering 20% policy

\_\_proto\_\_

A tale of two syntaxes

alias = '\_\_proto\_\_';
this.magicWords[alias]

#### hasOwnProperty (or ECMAScript maps)

Acnetj

This is what I got from the inspection element report:

```
Exception thrown by ext.headertabs: Cannot read property 'length' of null load.php?debug=false&lang=en&modules=jquery%2Cmediawiki& only=scripts&skin=monobook&version=20140311...:151
TypeError
message: "Cannot read property 'length' of null"
stack: (...)
get stack: function () { [native code] }
set stack: function () { [native code] }
__proto__: Error
load.php?debug=false&lang=en&modules=jquery%2Cmediawiki&
only=scripts&skin=monobook&version=20140311...:151
log
```

Reply Edited 2 years ago

#### Yaron Koren



If the problem is only in older browsers, then it's of course not as big a deal. What version of Safari for Windows are you using? Is there a newer version?

Reply 2 years ago

#### Acnetj

That's the latest version (Safari 5.1.7) for Windows. I think the Mac version is newer.

Reply 2 years ago

Acneti

A tale of one annoying syntax

#### Not valid in HTML5

#### /LinkedWiki.php on line 283

Fragment of a discussion from Extension talk:LinkedWiki/LQT Archive 1

The parser PHP (xml\_parse function) said : Invalid character.

In the sparql result, there are strange characters in XML (start with e-):

```
<result>
    <binding name="Softwareproduct"><uri>http://model.i-catalogus.nl/gemma/SoftwareProdu
    <binding name="Naam"><literal>Liaan e-Dienstverlening
    <binding name="Homepage"><literal>http://www.liaan.nl/produkten/produkt_info.php?id=
    <binding name="WordtGeleverdDoor"><literal>Liaan
    <binding name="HomePageLeverancier"><literal>Liaan
    <binding name="HomePageLeverancier"><literal>http://www.liaan.nl
    <binding name="Beschrijving"><literal>Het product Liaan e-&#8;Dienstverlening is ont
bij het implementeren van digitale dienstverlening / e-Formulieren.
```

Met een abonnement op Liaan e-Dienstverlening beschikt u over alle benodigde middel integreren in uw website en dus beschikbaar te stellen aan de inwoners van uw gemeente. Ook kunt u e-Producten beschikbaar stellen aan uw frontoffice (Servicecenter) of ba

Het product beschikt over de noodzakelijke voorzieningen zoals DigiD ondersteuning (voo voorinvulling (zoals GBAV, DKD) en (StuF)berichtenverkeer.

Technische kennis is niet vereist, installatie niet nodig: Liaan e-Dienstverlening wordt volledig gehost in onze e-loket.nl infrastructuur. Bi met behulp van de zeer gebruiksvriendelijke webapplicatie e-Beheer.</literal></bind </result>

You have to fix the format in your triplestore.

Bye.

User not fully renamed

#### Almost done

```
page='Talk:Groups/Proposals/Ciudad de México'; echo "/tmp/${page//\/-}.log";
```

/tmp/Talk:Groups/Proposals/Ciudad de México.log

```
page='Talk:Groups/Proposals/Ciudad de Mexico';
echo "/tmp/${page//\/-}.log";
```

/tmp/Talk:Groups\_Proposals\_Ciudad de Mexico.log

That's what sed's for.;)

```
$(echo "$page"|sed 's#/#-#g')
```

#### Performance

#### Technique:

Install XDebug to profile memory usage

#### Technique:

Different cache handling for batch

The Last Page

# Fatal error: Maximum function nesting level of '100' reached, aborting! in /srv/mediawiki/php-1.26wmf18/vendor/zordius/lightncandy/src/lightncandy.php on line 2150

```
Call Stack:
         0.0003 663088 1. {main}()
  /srv/mediawiki/multiversion/MWScript.php:0
              0.0179
                        1097424
      require once('/srv/mediawiki/php-
1.26wmf18/extensions/Flow/maintenance/convertLq
            tPageOnLocalWiki.php')
  /srv/mediawiki/multiversion/MWScript.php:97
              0.0199 1753856
       require once('/srv/mediawiki/php-
   1.26wmf18/maintenance/doMaintenance.php')
              /srv/mediawiki/php-
1.26wmf18/extensions/Flow/maintenance/convertLq
            tPageOnLocalWiki.php:91
```

## Credit

#### David McCabe

For writing LiquidThreads

#### Andrew Garrett

For major long-term new work on LiquidThreads

#### Danny Horn Nick Wilson

For project management and community coordination in a shifting timeline

# Andrew Garrett Erik Bernhardson Matthias Mullie Matthew Flaschen

For implementation of LiquidThreads->Flow conversion

# LiquidThreads and Flow contributors

## The Collaboration Team

For ongoing new work on opt-in, conversion, and just awesome stuff all around

It is the stated position (not really) of the U.S. Air Force that their safeguards would prevent the occurrence of such events as are depicted in this presentation.

#### Culture

Stanley Kubrick – How Hearned to stop worrying and love the bomb

James Taylor - Mexico

## Questions