

LibreOffice: What's new

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*“Stand at the crossroads and look; ask for the ancient paths, ask where the good way is, and walk in it, and you will find rest for your souls...” -
Jeremiah 6:16*



Overview: what the talk looks like

Snapshot of development: old new stuff

Some new deployments

New Features

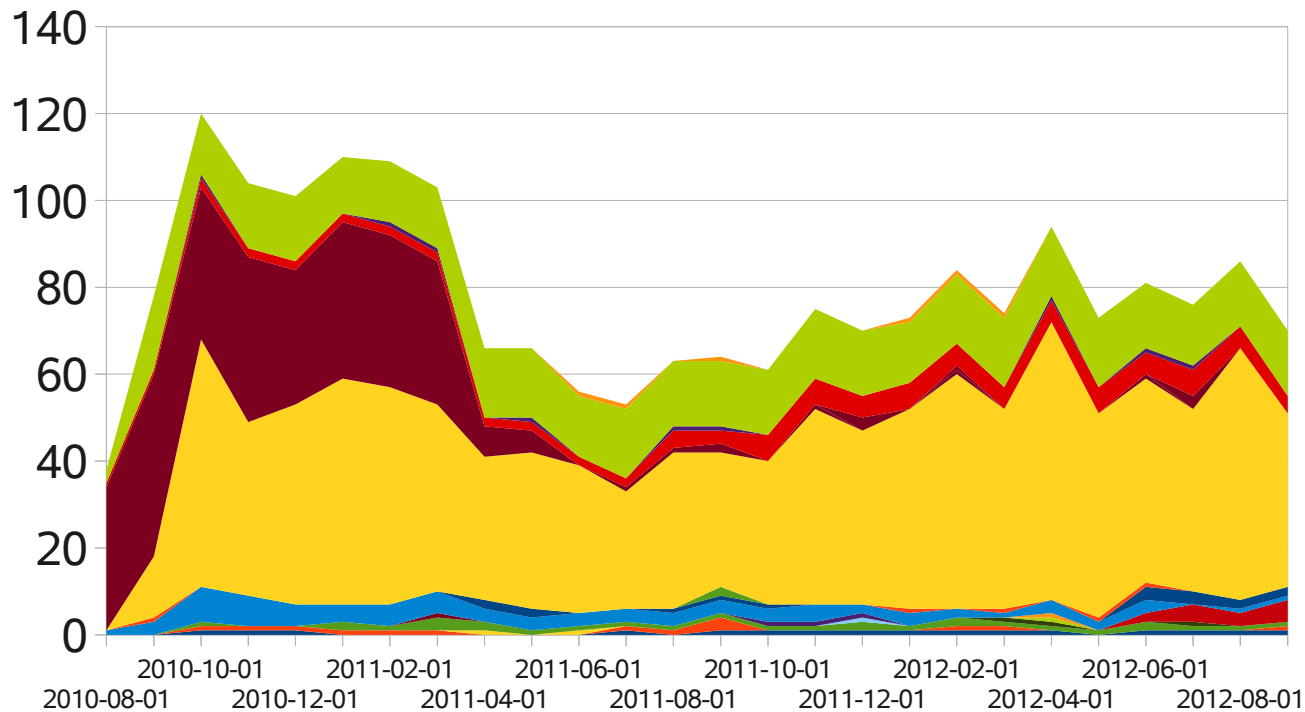
Easy Hackery / Get involved

Conclusions

Development

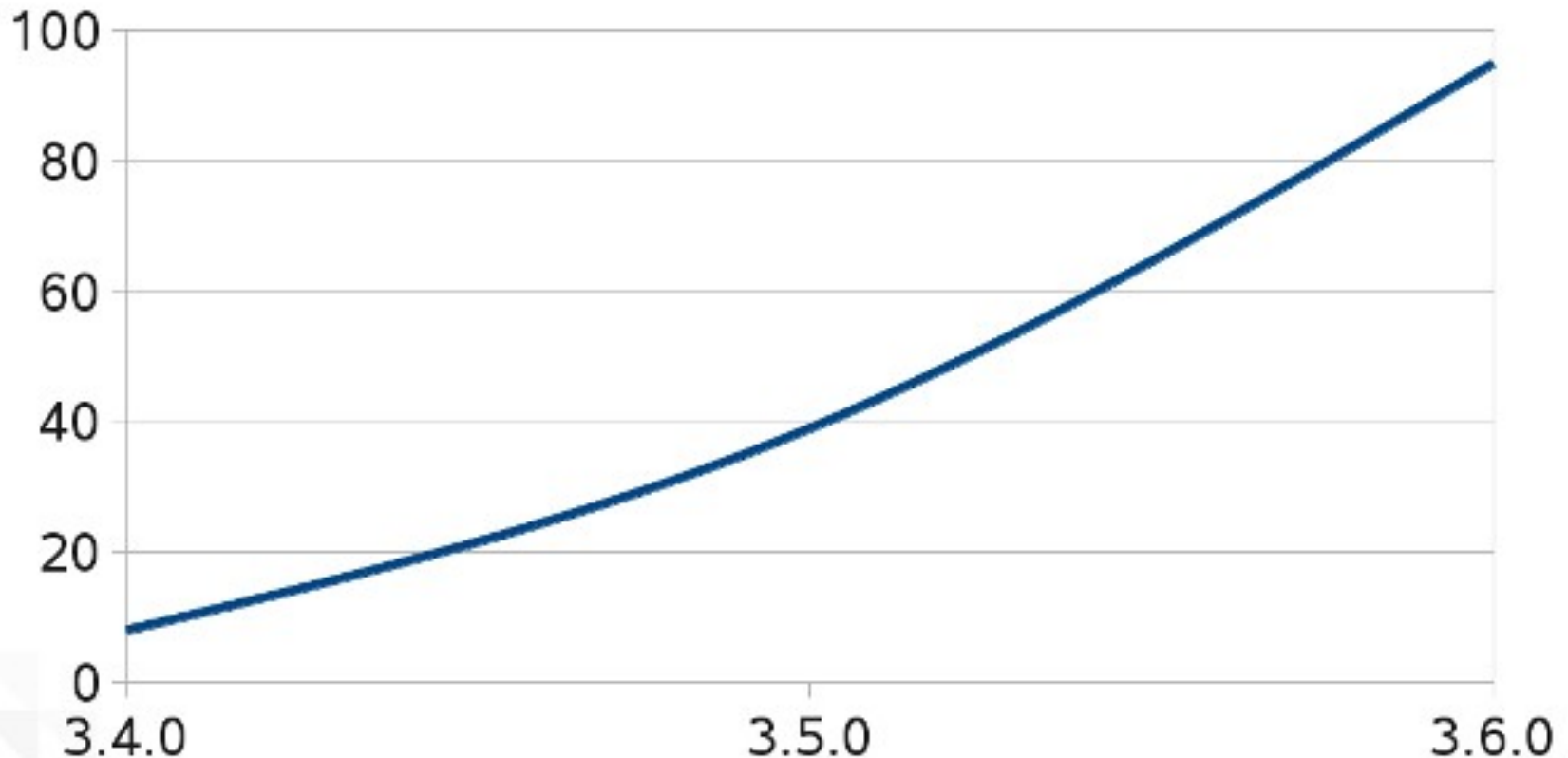
Code Diversity & contribution

Breakdown of active contributors each month.

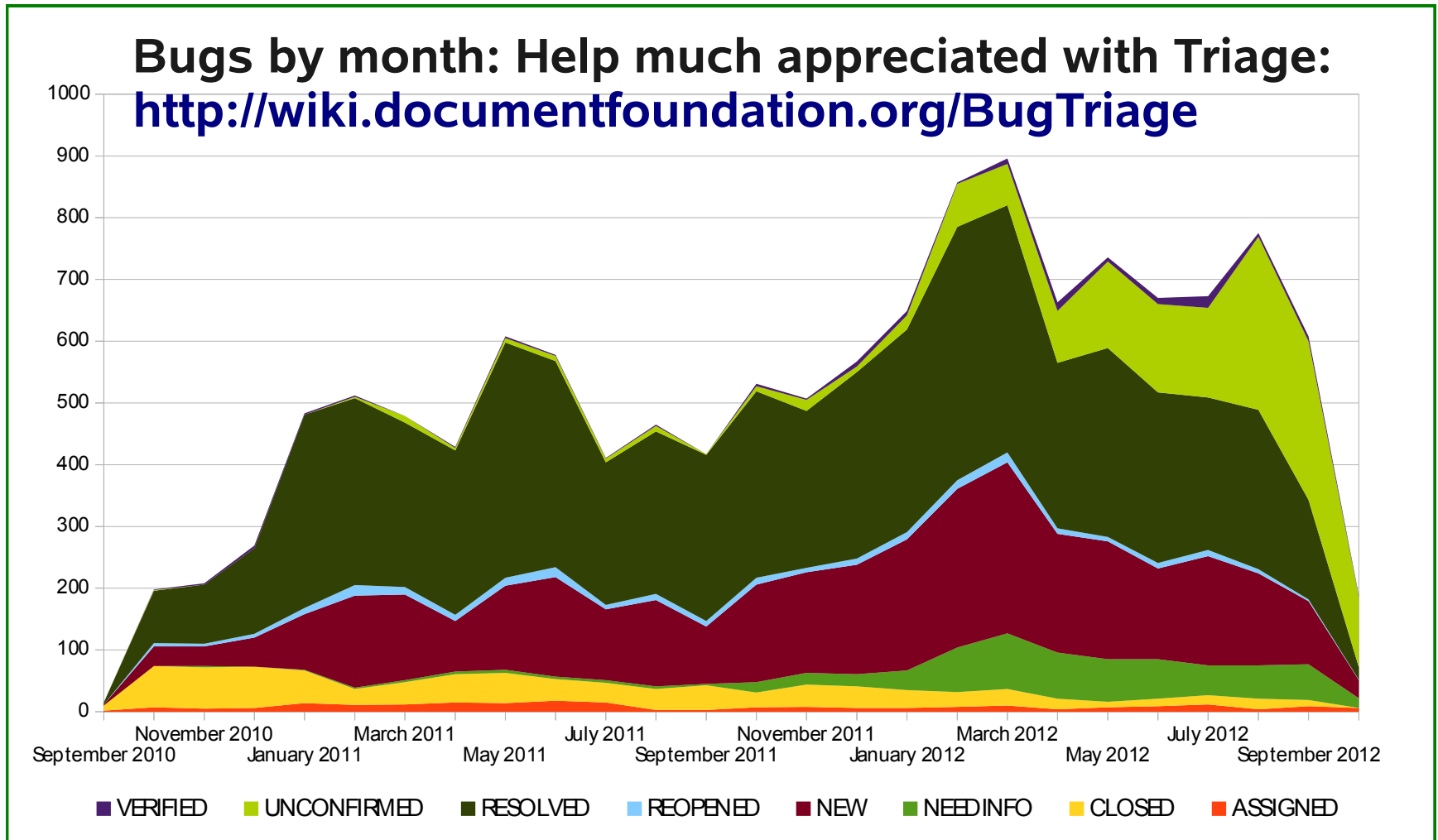


Unit tests 10x bug nailing

Count of types of gnumake enabled unit tests
(each runs a battery of tests)

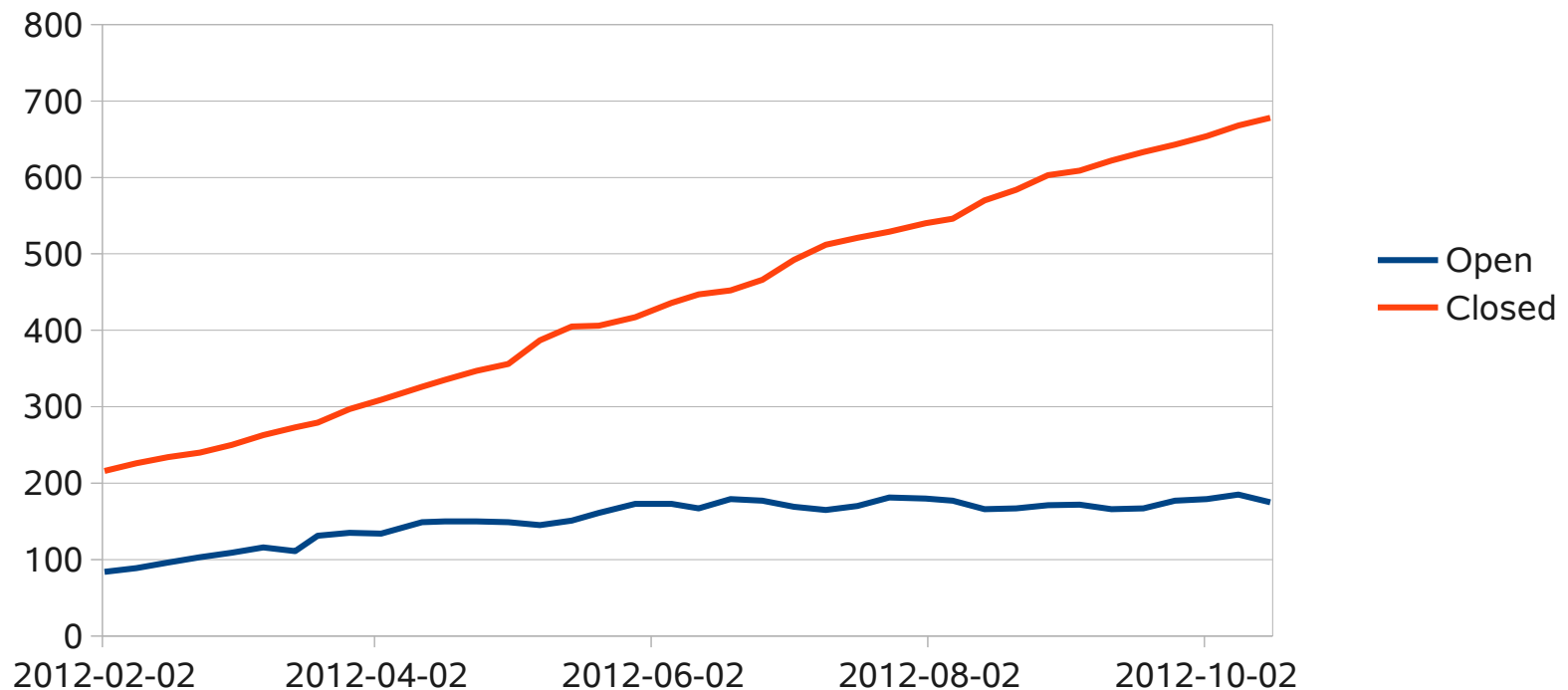


QA Statistics: filing ...



Static regression count:

Regression bugs over time



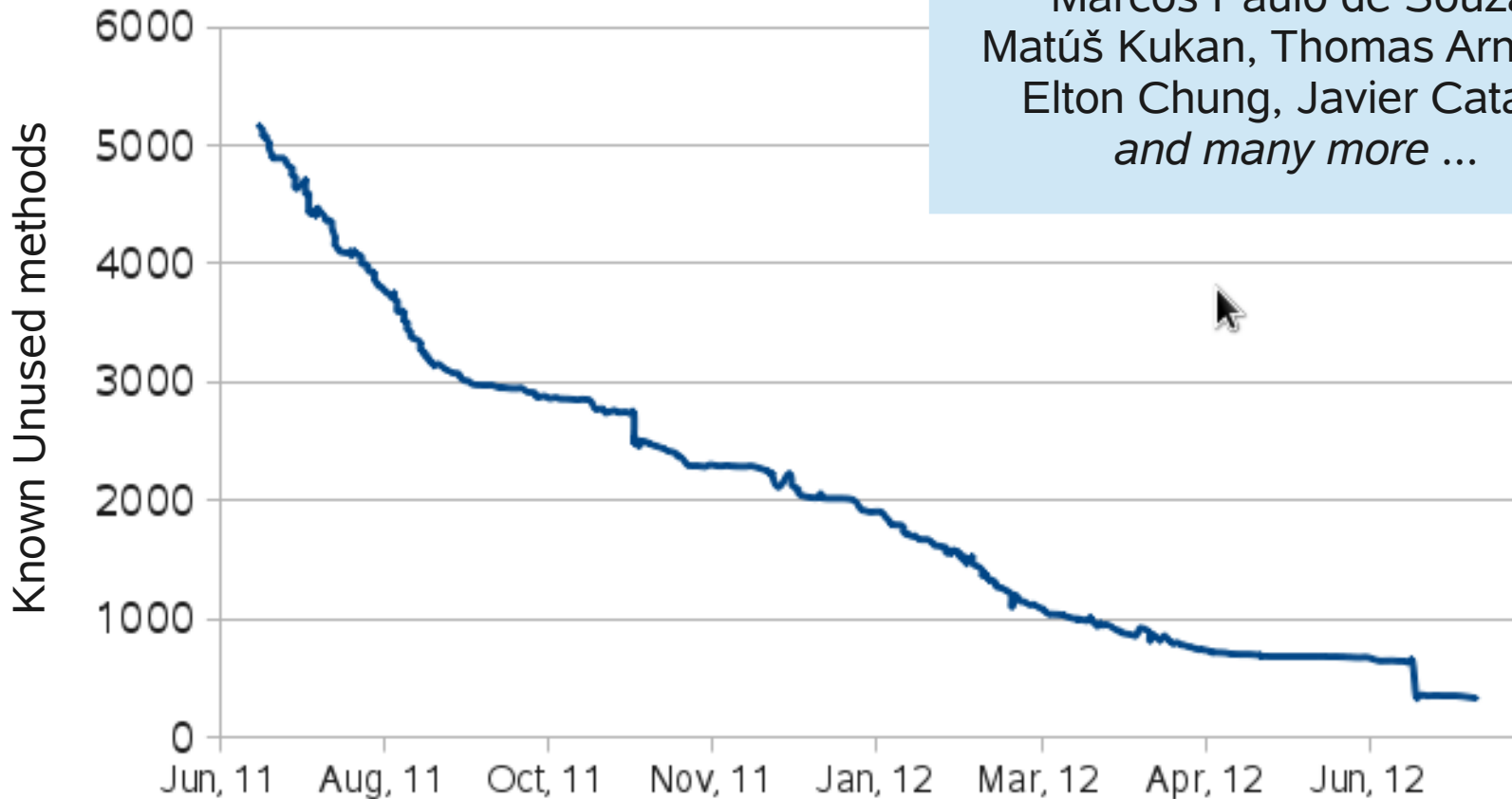
With profound thanks to: *Roman Eisele, Rainer Bielefeld, Joren De Cuyper, Arnaud Versini, Jean-Baptiste Faure, tommy27 & Korrawit Pruegsanusak* for filing **3.7** bugs.

Easy Hack: Unused code: removed

Despite adding many features, we have an overall reduction in LOC.

Essentially ~**no** un-used methods left anymore thanks recently to:

Julien Nabet, Caolán McNamara, Marcos Paulo de Souza, Matúš Kukan, Thomas Arnhold, Elton Chung, Javier Catala, *and many more ...*



Localization Statistics

346 active users in Pootle
(translations.documentfoundation.org)

112 languages in Pootle
+ 4 languages maintained outside of Pootle

LibreOffice 3.6 has 109 UI languages,
and help packs in 58 languages

*LibreOffice 3.5 had 107 UI languages,
and help packs in 57 languages*

Deployment ...

City of Munich loves LibreOffice

- After careful risk-assessment, the capital of Munich has decided to migrate from OpenOffice to LibreOffice.
- In favour of that decision, among others, was the greater flexibility of the project regarding consumption of open source licenses.
- Beyond that, Munich wants to rely on large and vibrant communities for any Open Source product it employs.
 - *Kirsten Böge, head of public relations*

Regione Umbria loves LibreOffice

Migrazione dell'Umbria a LibreOffice

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Limerick loves LibreOffice



You are here: Home / Your Council

Text Size: A - A - A

Home

Visiting Limerick

Press releases

Your Council

Our Services

City Library

Your Council

Gerry McLoughlin - The Mayor of Limerick City

Elected Members

Operational Structure

Strategic Policy Committees

History Project

MimO loves LibreOffice



Las Palmas loves LibreOffice

The image shows a screenshot of the official website of the Ayuntamiento de Las Palmas de Gran Canaria. The top navigation bar is dark blue with the city's logo and name on the left, and the text 'Las Palmas' on the right. Below this, a secondary navigation bar lists 'Áreas Temáticas', 'La Ciudad', 'Ayuntamiento', 'Trámites', and 'Turismo'. The main content area features a large green banner for a cycling event. The banner text reads 'TUS DOMINGOS EN BICI' in large white letters, with 'SÚMATE UNA VEZ AL MES' below it. To the right is a blue bicycle illustration. At the bottom left of the banner is the city logo and 'Ayuntamiento de Las Palmas de Gran Canaria'. At the bottom center is the 'bicravibiental.org' logo. At the bottom right, a pagination bar shows numbers 1 through 6, with '6' highlighted in orange.

Ayuntamiento de Las Palmas de Gran Canaria

Las Palmas

Áreas Temáticas La Ciudad Ayuntamiento Trámites Turismo

TUS DOMINGOS EN BICI

SÚMATE UNA VEZ AL MES

Ayuntamiento de Las Palmas de Gran Canaria

bicravibiental.org

1 2 3 4 5 6

Chicago Public Library loves LibreOffice

Using Computers at CPL

All Chicago Public Library locations offer computers with free Internet access and LibreOffice software. LibreOffice is an open-source office suite compatible with Microsoft Office. The following LibreOffice components are available:

- Writer: A word processor similar to Microsoft Word or WordPerfect.
- Calc: A spreadsheet program similar to Microsoft Excel or Lotus 1-2-3.
- Impress: A presentation program similar to Microsoft PowerPoint.



Creating a Document

Learn more about using LibreOffice to create and type documents.

[Getting Started with LibreOffice »](#)

User guides to LibreOffice.

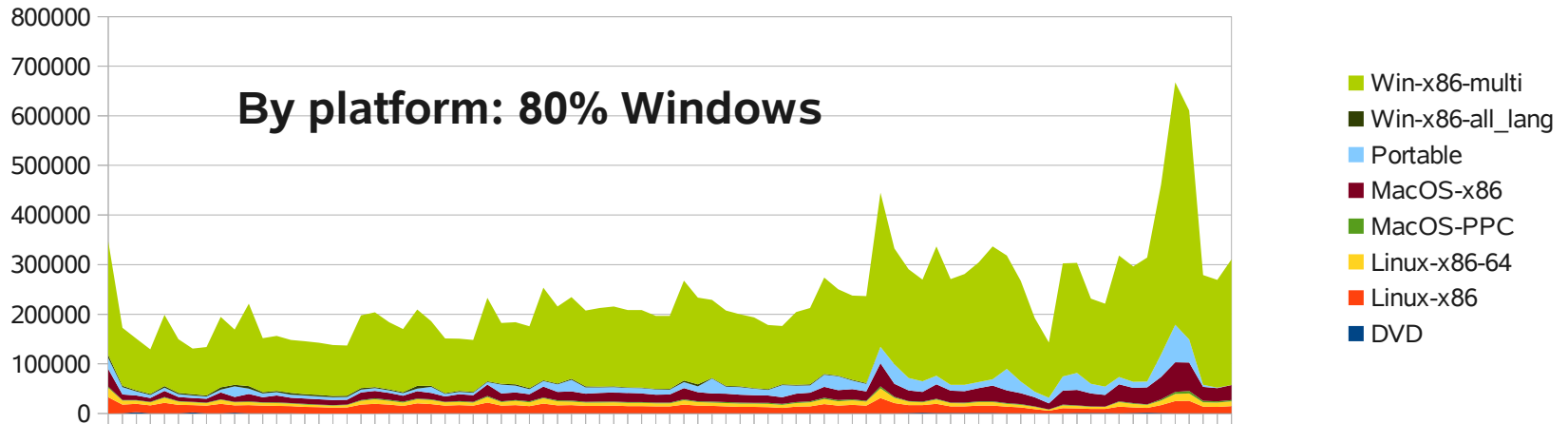
[LibreOffice Calc »](#)

Video tutorials provide tips for using the spreadsheet program in LibreOffice.

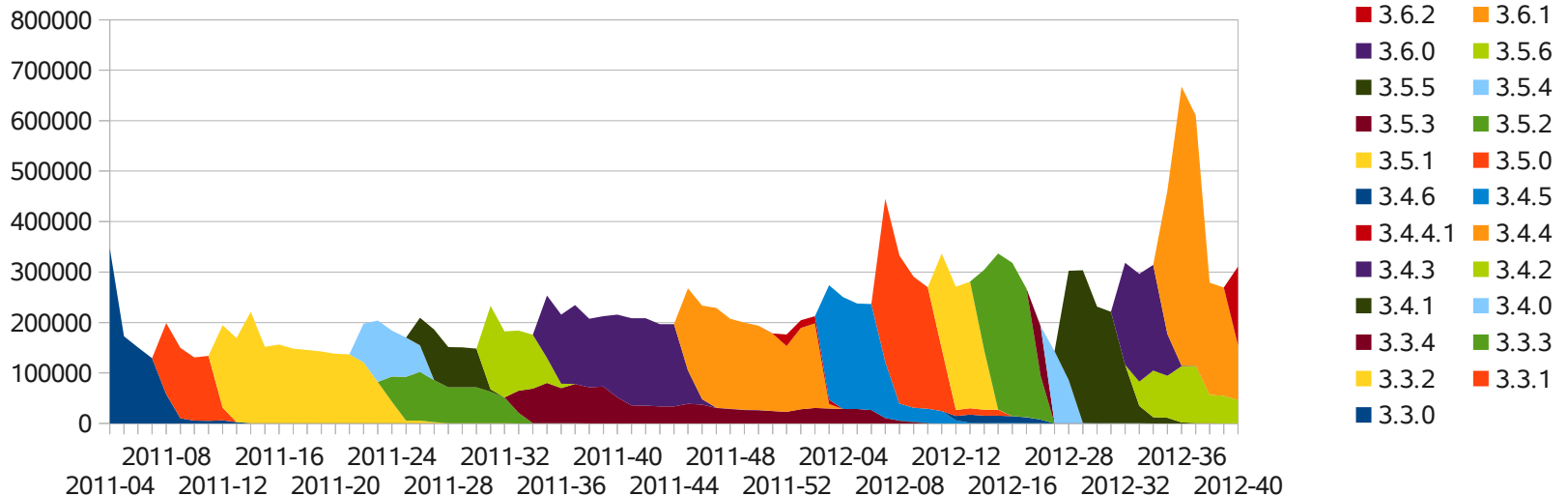
[LibreOffice Writer »](#)

Video tutorials to learn how to use the word processing program in LibreOffice.

Downloads: <http://www.libreoffice.org/>



Weekly downloads by version



GueEstimated Number of Users:

Linux: 30 million users (90% of desktop Linux)

Windows + MacOS: 20 million downloads from TDF mirrors
+ millions of installations from covermount CDs and websites
+ corporate deployments using their own packaging

60 million users (estimated)

Research Pipeline ...

Android / pre-prototype ...

- I'm a fraud ! The real work & glory should be addressed to:
Tor Lillqvist's hours of toil
His talk later today ...
- Cross compiling work originally for using MINGW → windows
 - Also useful for cross-compiling to Android, iOS etc. from Linux/Mac
- A staggering learning curve to climb
 - But we're getting there slowly ...
- Latest code in master for 3.7/4.0 ...



The man himself ...

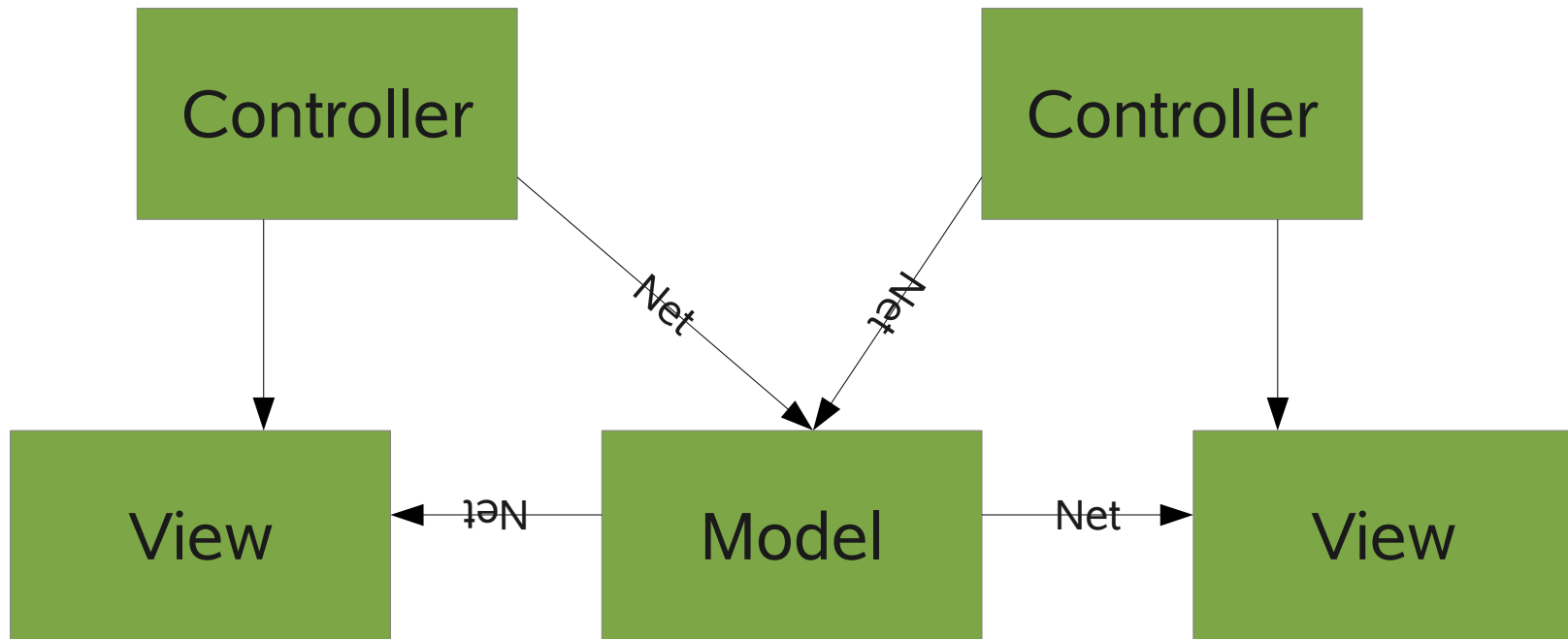
Cloud Office / HTML5 prototype ...

- Rendering using the **HTML5 Canvas** ...
- Communication using Web-Sockets (**now with v7**)
 - very simple plain-text event / control protocol
 - **compressed png** for screen updates ...
- Bandwidth usage **low** for simple tasks:
 - We can see what is re-rendered as we type:
 - But really as we type a character: only **this** is sent:
 - And that tiny rectangle is png compressed ...
 - CopyArea on the client for scrolling.

Hello World **this is me typi**

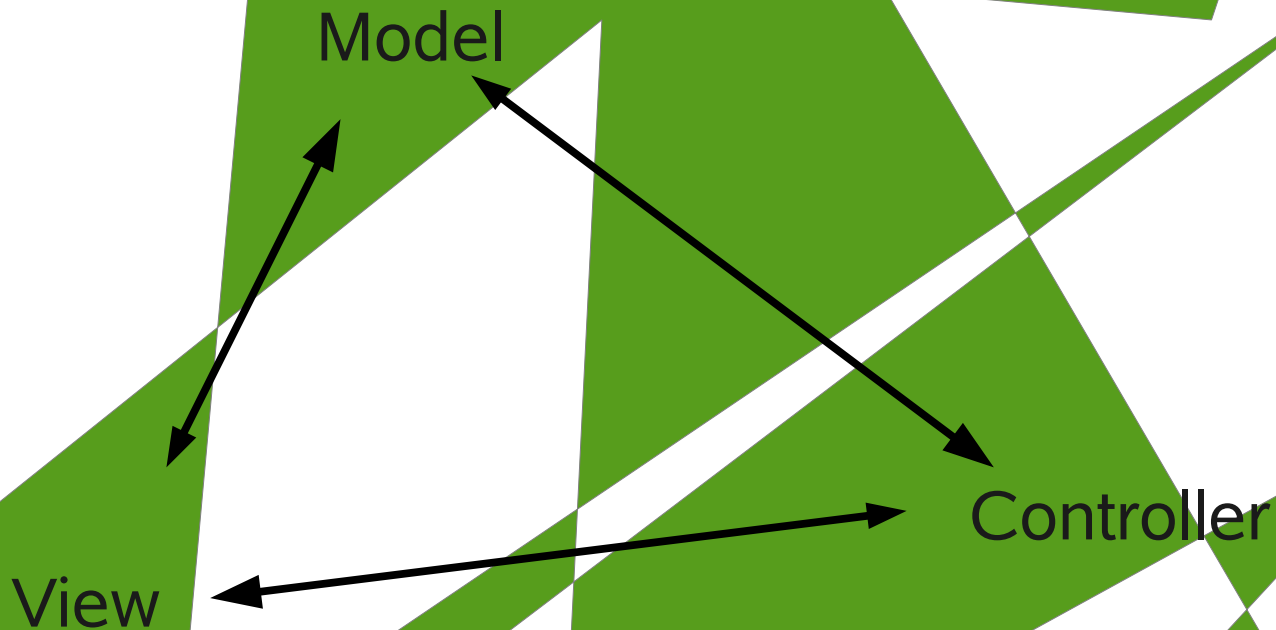
One kind of MVC collaboration

So – just get two controllers and two views – right ? Easy ...



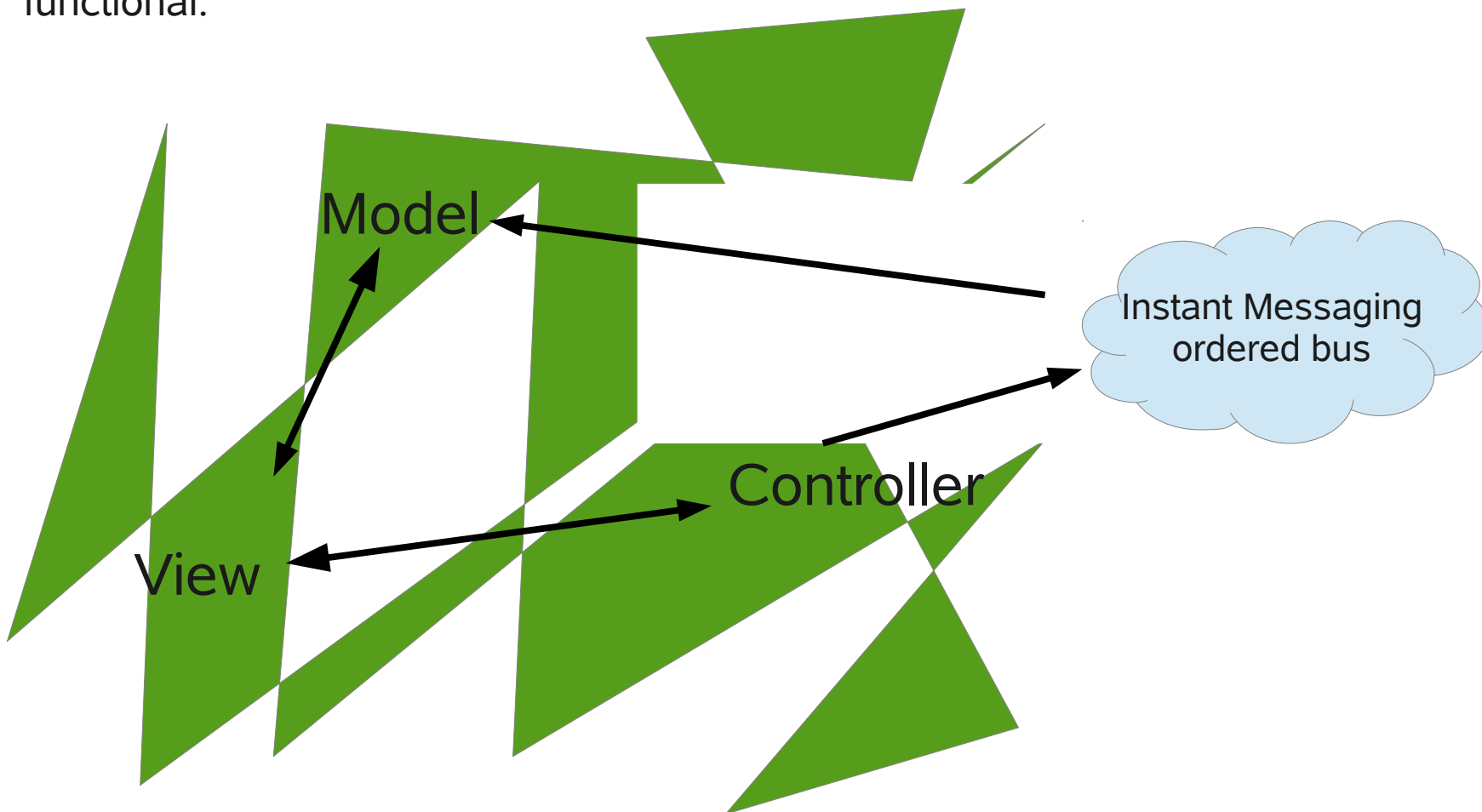
Actual simplified (inherited) view

Not quite the amusing:
`class ModelViewController { ... };`



Adapted, collaboration design:

By no means perfect but functional.



Collaboration consequences

- Constraints:
 - cell editing is applied asynchronously ...
 - eg. enter “foo” in A1
 - edit sent to the IM bus
 - user moves to another cell
 - apply all messages from IM bus in order
 - “foo” entered into A1 ...
 - Potential latency issue
- But:
 - Implementable is feasible in linear time
 - No blue-sky monster re-work necessary ...

Easy Hacks ...

Overview / the basic message

- **Easy:**

- You can get stuck into them fast:

http://wiki.documentfoundation.org/Development/Easy_Hacks_by_required_Skill

- **Hacks:**

- Various kinds of small but useful code changes
- No-one blocking on your work ... nice to have

- **Significant**

- Which individually & collectively make a difference.

Easy: Translating German Comments ...

- Admittedly much easier if you are a German

```
git clone git://anongit.freedesktop.org/libreoffice/core
```

- Beautiful tool tool help out with this: (thanks Miklos)

```
cd clone
```

```
bin/find-german-comments cppuhelper # random directory
```

```
forms/source/component/FormComponent.cxx:924:
```

3. Lesen der allgemeinen Properties

```
forms/source/component/FormComponent.cxx:2099:
```

```
wenn eine Verbindung zur Datenbank existiert
```

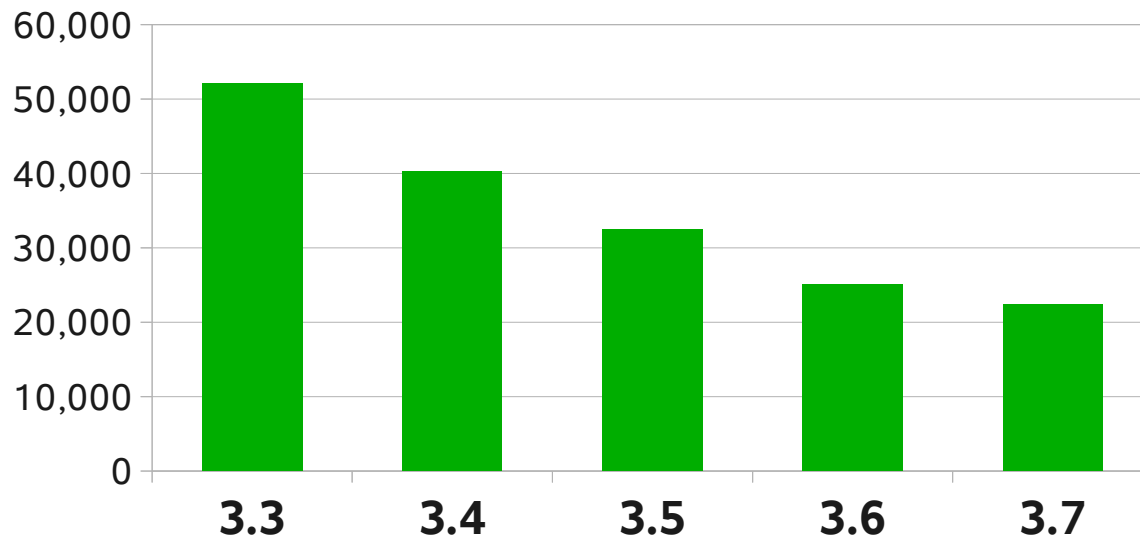
```
forms/source/component/FormComponent.cxx:2102:
```

```
Feld bestimmen und PropertyChangedListener
```

```
...
```

Significant: Translating Comments ...

- It makes things **much** easier for non-Germans ...
- We removed or translated ~30k lines of these so far
- We still have 22k to go: done mostly by new guys ...
 - Thanks to all who helped !



Thanks to (recent translators):

Gerhard Oettl,
Tomaž Vajngerl
Philipp Riemer
Albert Thuswaldner
Philipp
Weissenbacher
Mark Wolf
Josh Heidenreich
and many more !

Easy: Making our dialogs beautiful ...

- Caolan's Widget Layout work:

<http://wiki.documentfoundation.org/Development/WidgetLayout>

Core skill required: Linux + a pulse ...

- Ability to install / run glade-2
- Basic motor / mouse skills ...
- **HowTo** – cf. above link.
 - Examine the dialog / .src file and/or User Interface
 - **Draw (using glade-2) an equivalent .ui file**
 - Either: send that file in as-is, or ...
 - Remove obsoleted .src / .hrc file cruft.
 - Search / replace widget members to pointers

Significant: key to improving our look & UI

- **Major benefits:**
 - This will fix dozens of point-zero / release bugs
 - Fixing embarrassing translation problems
 - “*why is Donaudampfschiffahrtsgesellschaftsk... truncated ?*”
 - Improve the compactness and look of dialogs for all
 - Allow UI designers to improve the looks
 - Removes tons of old, un-tweakable, overly verbose code
 - You get to know Caolan McNamara <caolanm@redhat.com>
- **We can't do (at all quickly) it without you:**
 - **600** .src file / dialogs, **33** converted so far ...
 - This could be where you make your blow for our look & feel
 - **6 weeks to go before feature freeze** ...

Conclusions

Still a Very Young Project

Lots of space for newcomers !



LibreOffice 2020



Come and help us drive.
please do some EasyHacks

Thank you.



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