

MUUGLines

The Manitoba UNIX User Group Newsletter

Volume 30 No. 4, December 2017

Editor: Bradford C. Vokey

Next Meeting: December 12th, 2017

Round-table, Mingling and Munchies



As 2017 draws to a close, MUUG is going to continue our tradition of turning the December meeting into more of a social event.

We will have the usual round-table session, followed by a mini-presentation, and then have some time for mingling, eating, and drinking.

This is a pot-luck snack event.

Cookies and pop will be provided by MUUG, but members are encouraged to bring their own food to sample and share. Feel free to bring your own drink as well if you want – just remember that we don't have a liquor license!

Mini-Presentation: KeePass



Wyatt Zacharias will give a short demonstration of KeePass.

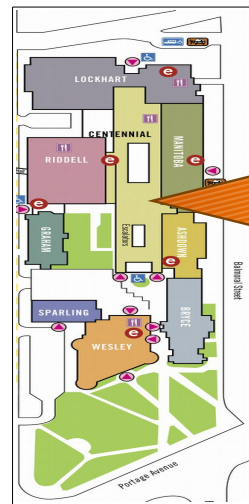
KeePass is a free open source password manager, which helps you to manage your passwords in a secure way.

KeePass is fully open source (OSI certified). You can have a look at its full source and check for yourself whether the encryption algorithms are implemented correctly.

The latest meeting details are always at: <https://www.muug.ca/meetings/>

Where to Find the Meeting

University of Winnipeg, Room 1C16A



Meetings are held in the University of Winnipeg's Centennial Hall, in the middle of the University Complex.

We can be found in room 1C16A.

Doors are usually open by 7:00 pm with the meeting starting at 7:30 pm. Parking is available on the surrounding streets. See uwinnipeg.ca/maps for further information about parking and access to the campus.

Food Bank Donations Requested



As in previous years, we are combining our pot luck with a food drive for Winnipeg Harvest.

Any member who brings at least 1 item to Winnipeg Harvest for the December meeting (or donates at least \$1) will be given an entry into the door prize!

Top 10 Most-Wanted Food Items

- | | |
|------------------------------------|---------------------------|
| 1. Canned Fish & Poultry | 6. Baby Formula & Food |
| 2. Canned Fruit & Vegetables | 7. Rice |
| 3. Canned Stew, Chili, Brown Beans | 8. Canned Spaghetti Sauce |
| 4. Peanut Butter | 9. Cereal |
| 5. Whole Grain Pasta | 10. Canned Soup |

If you prefer, MUUG will also accept cash donations during the meeting on behalf of Winnipeg Harvest. For every \$1 Winnipeg Harvest receives, they are able to pick up and deliver \$20 worth of groceries!

Meet Your New Board

The MUUG Board for the 2017-2018 year was elected by acclamation at the November general meeting.

Your board now consists of 8 members:

1. Trevor Cordes
2. Gilbert Detillieux
3. Kevin McGregor
4. Katherine Scrupa
5. Adam Thompson
6. Tyhr Trubiak
7. Brad Vokey
8. Wyatt Zacharias

A big thank you to all the nominees who let their names stand for election.

And a special thank you to Paul Sierks for his past contributions to the board and his numerous presentations at our meetings.

Board Positions

Your new board held their first board meeting on November 22nd, and for the third year in a row they elected the same executive officers for the current year as the previous year.

President:	Wyatt Zacharias
Vice-President:	Trevor Cordes
Secretary:	Gilbert Detillieux
Treasurer:	Brad Vokey

The board (re)appointed a banking committee made up of Brad Vokey, Gilbert Detillieux and Kevin McGregor and a server committee made up of Adam Thompson, Katherine Scrupa, and Wyatt Zacharias.

The new board looks forward to serving you over the next year. If you have any questions or requests, feel free to send an email to [<board@muug.ca>](mailto:board@muug.ca).

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December Door Prizes:

This month, bring a food item (or any cash donation) for Winnipeg Harvest to be eligible for the prize draws.

Along with our usual e-book give away this month we will also be giving away the printed book:

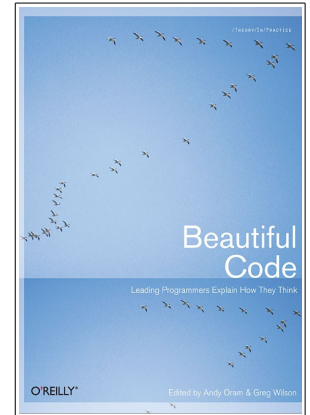
Beautiful Code

Publisher: O'Reilly Media

Release Date: December 2008

Pages: 624

How do the experts solve difficult problems in software development? In this unique and insightful book, leading computer scientists offer case studies that reveal how they found unusual, carefully designed solutions to high-profile projects. You will be able to look over the shoulder of major coding and design experts to see problems through their eyes.



This is not simply another design patterns book, or another software engineering treatise on the right and wrong way to do things. The authors think aloud as they work through their project's architecture, the tradeoffs made in its construction, and when it was important to break rules.

This book contains 33 chapters contributed by Brian Kernighan, Karl Fogel, Jon Bentley, Tim Bray, Elliotte Rusty Harold, Michael Feathers, Alberto Savoia, Charles Petzold, Douglas Crockford, Henry S. Warren, Jr., Ashish Gulhati, Lincoln Stein, Jim Kent, Jack Dongarra and Piotr Luszczek, Adam Kolawa, Greg Kroah-Hartman, Diomidis Spinellis, Andrew Kuchling, Travis E. Oliphant, Ronald Mak, Rogerio Atem de Carvalho and Rafael Monnerat, Bryan Cantrill, Jeff Dean and Sanjay Ghemawat, Simon Peyton Jones, Kent Dybvig, William Otte and Douglas C. Schmidt, Andrew Patzer, Andreas Zeller, Yukihiro Matsumoto, Arun Mehta, TV Raman, Laura Wingerd and Christopher Seiwald, and Brian Hayes.

Beautiful Code is an opportunity for you to read the story straight from the master coders.

MUUG Annual Financial Statements

By Bradford C. Vokey, MUUG treasurer



Here are your 2016-2017 annual financial statements.

Our membership has grown to 52 paying members this year (up 4% from 50 paying members last year)!

Our new server (and mirror) will continue to slowly and carefully deplete our built up surplus to better serve the *nix community here in Manitoba until 2019.

As per our bylaws (11.(h)) *“The books and records of MUUG may be inspected by any member at the Annual Meeting or at any time upon not less than fourteen days notice in writing to the Executive.”*

MUUG Balance Sheet

as at 2017-10-31

Assets	
Bank and Cash Accounts	
Guaranteed Investment Certificates	14,111.50
Chequing	1,240.18
Cash on Hand	60.00
PayPal Account	345.66
Total Bank and Cash Accounts	15,757.34
Other Assets	
Computer Equipment (<i>see note 1</i>)	1,959.59
Total Other Assets	1,959.59
Total Assets	17,716.93
Liabilities	
Prepaid Membership Dues	
	140.00
Owed to Members	
Trevor Cordes	49.70
Total Owed to Members	49.70
Total Liabilities	189.70
Net Worth	17,527.23

MUUG Income and Expenses

2016-2017 Season (2016-11-01 through 2017-10-31)

Income	
Membership Dues	
Current Year (2016/2017)	1,040.00
Previous Year (2015/2016)	20.00
Total Membership Dues	1,060.00
GIC Investment Income	128.50
Total Income	1,188.50
Expenses	
Advertising & Promotion (<i>see note 2</i>)	238.68
Bank Charges	
Square	1.59
PayPal	16.68
Bank of Montreal	30.00
Total Bank Charges	48.27
Computer Equipment	
Depreciation (<i>see note 1</i>)	979.79
Total Computer Equipment	979.79
Meeting Expenses	
Board Meeting Snacks & Drinks	195.04
Door Prizes	264.10
Regular Meeting Snacks & Drinks	88.11
Supplies	16.94
Total Meeting Expenses	564.19
Newsletter Expenses	
Postage	170.35
Preparation	300.00
Printing	51.92
Total Newsletter Expenses	522.27
Other Expenses	
Other Printing	2.25
Total Other Expenses	2.25
Total Expenses	2,355.45
Total Deficit	-1,166.95

Note 1: Computer equipment has been recorded at a cost of \$4,898.96 and is straight line depreciated at an expense of \$979.79 per year until 2019.

Note 2: Advertising & Promotion consists of 12 month Pro subscription to Meetup.com (\$179.88 USD).

MUUG Social Links:



MUUG Online 6.0 Crash



For those that weren't at the November General Meeting, our MUUG server went down over the weekend of November 3-5th 2017

One of our Kingston SSD drives failed in the

MUUG server. LVM was configured to use the SSD drives as cache for the mirror file system. When the SSD drive failed, it caused the entire mirror LV to become unavailable. Upon replacement of the drive, LVM began flushing "good data" (ie. empty blocks) from the replaced drive onto the mirror file system. This destroyed the entire mirror LV, and everything had to be synced from scratch.

A big thank you goes out to Adam Thompson for rescuing the system and rebuilding the mirror file system. It has now been rebuilt using ZFS with the hope of better performance, and more predictable behaviour. Initial tests show great improvement!

All mirrored repositories are now back up and running. However if you notice anything not right, please send an email to board@muug.ca.

During the recreation of the file system, Adam also upgrade the OS from Debian Jessie to Stretch. This caused some issues with the PHP version changing, which should now all be fixed as well.

Subsequent testing shows we will be failing our SSD drives on a regular 2-3 year basis. Our remaining original 120GB Kingston SSD drive is currently showing ~14TB worth of lifetime writes and ~134TB worth of lifetime reads!

230	Life_Curve_Status	0x0013	100	100	000
	Pre-fail	Always	-	100	
231	SSD_Life_Left	0x0013	094	094	010
	Pre-fail	Always	-	0	
241	Lifetime_Writes_GiB	0x0032	000	000	000
	Old_age	Always	-	14214	
242	Lifetime_Reads_GiB	0x0032	000	000	000
	Old_age	Always	-	134720	

That gives us a really good cache read/write ratio of almost 10/1. All to help give our mirror the best performance we can for the most reasonable cost per year.

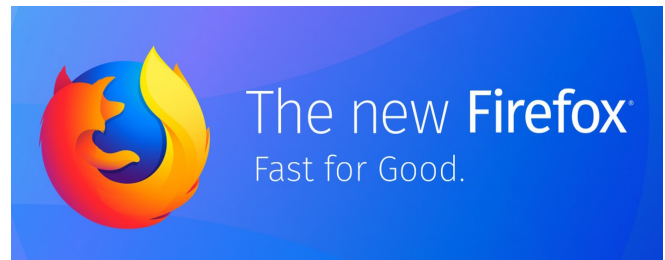
Dell shuns Windows 10 with launch of five Linux-powered PCs

Devices come with Canonical certification

Dell has launched five new Precision series workstations, and they come with Canonical certification meaning users don't have to worry about incompatibility issues.

<https://goo.gl/mUe4JE>

Firefox Quantum released



On November 14th, 2017 Mozilla released Firefox 57. This is the biggest release of the Firefox browser in many years with many new features, dramatically improved performance, and a great new look.

Mostly, though, it's fast! It's really fast.

The biggest change to affect MUUG members is that the browser plug-in structure has changed. Thus make sure your favorite plug-in is available for the new version before taking the leap!

<https://www.mozilla.org/en-US/firefox/>

Fedora 27 released

On the same day Firefox was released (November 14) Fedora also jumped on the bandwagon and released version 27 of their distro. The biggest changes are to Gnome 3.26 and LibreOffice 5.4.

<https://getfedora.org/>



Help us promote this month's meeting, by putting this poster up on your workplace bulletin board or other suitable public message board:

<https://muug.ca/meetings/MUUGmeeting.pdf>