MUUGLines

The Manitoba UNIX User Group Newsletter

Next Meeting: December 13th, 2016

Round-table, Gadget Show & Tell, Mingling and Munchies

GADGET

SHOW & TELL
Bring an Object
Share Its Story

As 2016 draws to a close, MUUG is going to continue our tradition of turning the December meeting into more of a social event.

Bring your favorite gadget!

We will have the usual round-table session, followed by a gadget show & tell, a short presentation, and then have some time for mingling, eating, and drinking.

This will also be a pot-luck snack event.

Pot Luck Snacks

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!

Presentation: Designing Passwords – The Mnemonic Evolution of Password Generation

17 year member Ihor Jakowec will present some interesting techniques for remembering long passwords by taking advantage of visual memory hints and kinesthetic memory (or "dance moves" as he calls it).

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

Where to Find the Meeting

University of Winnipeg, Room 1M28

Meetings are held in the University of Winnipeg's Manitoba Hall, along Balmoral Street south of Ellice Avenue. We can be found in room 1M28. 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

WINNIPEG HARVEST INC.

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 will be given an entry into the door prize!

Winnipeg Harvest is in *critical need* of five key food items that are crucial to the food kits they send to nearly 64,000 Manitobans every month.

1. Canned Meat
2. Canned Beans
3. Canned Soup
4. Canned Fruit
5. Rice and/or Pasta

If you prefer, MUUG will also accept cash donations during the meeting on behalf of Winnipeg Harvest.

Meet Your New Board

The MUUG Board for the 2016-2017 year was elected by acclamation at the November general meeting.

Your board now consists of 9 members:

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

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

And a special welcome to **Tyhr Trubiak** for joining the board!

Board Positions

Your new board held their first board meeting on November 15th, and for the second year in a row they elected the same executive officers for the current year as last year. They must be doing a good job!

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.mb.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 2 printed books:

Perl 5 Quick Reference
by Micheal O Foghlu, Que, 1996, 345pp with index

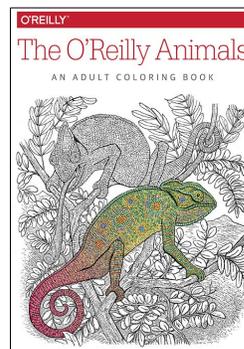**Programming Perl Quick Reference Guide**
by Johan Vromans, O'Reilly, 1989-1992, 19pp

Both are dated but still very useful and will be given away as a set.

Plus we are also pleased to give away, as a special early Christmas present, an *"adult"* coloring book!

The O'Reilly Animals
by O'Reilly Media inc, 2016, 26pp

O'Reilly Media is unique among tech book publishers for its iconic animal covers. Everything from tarsiers, bears, camels, and big cats to a variety of birds, fish, anemones, and insects have graced O'Reilly book covers since the late 1980s. Now, with this high-quality coloring book, you can put your own spin on this group of classic prints.

The coloring book includes 12 images from the O'Reilly Animal image archive, converted for coloring by O'Reilly designer Karen Montgomery. These beautiful reproductions of 19th century engravings are printed on heavyweight paper with nothing on the back to compromise your own colorful masterpieces.

This isn't your kid's coloring book. Take it out when you need a break and give the left side of your brain a chance to express itself for a change. Relax, have some fun, and create your own animal menagerie—in color.

MUUG Annual Financial Statements

By Bradford C. Vokey, MUUG treasurer

Here are your 2015-2016 annual financial statements.

Be prepared for more deficits to come over the next few years as your MUUG board is slowly and carefully using our built up surplus to better serve the *nix community here in Manitoba. We will certainly have deficits every year until 2020 when our new server is completely written.

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 2016-10-31

Assets	
Bank and Cash Accounts	
Guaranteed Investment Certificates	14,000.00
Chequing	1,599.76
Cash on Hand	40.00
PayPal Account	325.04
Total Bank and Cash Accounts	**15,964.80**
Other Assets	
Computer Equipment *(see note 1)*	2,939.38
Total Other Assets	**2,939.38**
Total Assets	**18,904.18**
Liabilities	
Prepaid Membership Dues	**20.00**
Owed to Members	
Trevor Cordes	98.93
University of MB (Dept. Of CS)	11.27
Wyatt Zacharias	79.80
Total Owed to Members	**190.00**
Total Liabilities	**210.00**
Net Worth	**18,694.18**

MUUG Income and Expenses

2015-2016 Season (2015-11-01 through 2016-10-31)

Income Categories	
Membership Dues	
Current Year (2015/2016)	980.00
Total Membership Dues	**980.00**
Merchandise Sales	
MUUG Mugs *(see note 1)*	30.00
Total Merchandise Sales	**30.00**
Total Income Categories	**1,010.00**

Expense Categories	
Advertising & Promotion *(see note 3)*	**165.60**
Bank Charges	
Square	4.41
PayPal	9.68
Bank of Montreal	17.50
Total Bank Charges	**31.59**
Computer Equipment	
Depreciation *(see note 1)*	979.79
Total Computer Equipment	**979.79**
Cost of Merchandise Sold	
MUUG Mugs *(see note 2)*	32.12
Total Cost of Merchandise Sales	**32.12**
Meeting Expenses	
Board Meeting Snacks & Drinks	160.85
Door Prizes	69.00
Presenter Prizes *(see note 4)*	32.12
Regular Meeting Snacks & Drinks	83.32
Supplies	39.54
Total Meeting Expenses	**384.83**
Newsletter Expenses	
Postage	85.56
Preparation	330.00
Printing	7.96
Total Newsletter Expenses	**423.52**
Other Expenses	
Miscellaneous *(see note 5)*	91.65
Other Printing	4.65
Total Other Expenses	**96.30**
Total Expense Categories	**2,113.75**
Total Deficit	**-1,103.75**

Note 1: Computer equipment has been recorded at a cost of $4,898.96 and is straight line depreciated at an

Note 2: MUUG mugs are sold at a loss of $1.06 each.

Note 3: Advertising & Promotion consists of 12 month subscription to Meetup.com ($119.88 USD).

Note 4: Presenter prizes consist of 2 MUUG mugs

Note 5: Miscellaneous expense consists of the 10 year service award engraved MUUG mug presented to Michael Doob

Social: https://muug.ca/meetings/video

Uh oh - Google's deep learning neural nets have learned encryption

What happens when you tell two smart computers to talk to each other in secret and task another AI with breaking that conversation? You get one of the coolest experiments in cryptography.
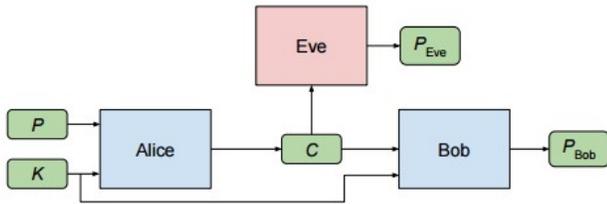

Figure 1: Alice, Bob, and Eve, with a symmetric cryptosystem.

Alice, Bob, and Eve, three neural networks from Google's research division for machine deep learning (*Google Brain)* were tasked to see how well AI can keep secrets from each other. It turns out, they can do it pretty well. Alice and Bob were able to keep secrets from Eve. The interesting part is, many of their techniques were quite odd and unexpected, depending on calculations that aren't common in "human generated" encryption and possibly unbreakable.

Does this mean the robots of the future may develop ways to communicate with each other that we won't be able to decipher?

Let's all welcome our new robotic cryptographic overlords!

https://goo.gl/7G9Tbv

http://www.omgubuntu.co.uk/infographics

MUUG 6.0 migration complete

by Trevor Cordes

The MUUG e-mailing lists have been migrated from the old server to the new one. With this change we are encouraging everyone to update their address books (and spam exception lists, etc.) to use @muug.ca instead of the old @muug.mb.ca. For the time being, both domains will function, but from this point on, muug.ca will be the preferred domain. In the distant future, muug.mb.ca will probably go away.

If you are not subscribed to our mailing list(s), you are strongly encouraged to do so! Conversations often carry over from the meeting onto the roundtable list, and it also provides an avenue for members who can't easily make the meetings.

https://muug.ca/maillists.html

In addition, with the migration of the mailman mailing list web archives, thus concludes our migration of the entire MUUG web and ftp trove, and you can update your browser bookmarks to the new domain as well.

Additional: I'd like to say a word of thanks to lisa, our venerable AMD dual-core muug server, having served us well for 5 years. Thanks lisa.

And thanks to the U of M for having hosted us all those years!

https://muug.ca/mona5.html

Happy 25th Birthday Linux

On August 25, 2016 Linus Torvalds reflected on 25 years of Linux.

10,000 lines of code to 22 million.

https://goo.gl/YPtdjj

Fedora 25 released

Complete with an .exe installer for newbies wanting to try it on their Windows systems! Wayland is now the default display server.

https://goo.gl/4euIDT