

MUUGLines

The Manitoba UNIX User Group Newsletter

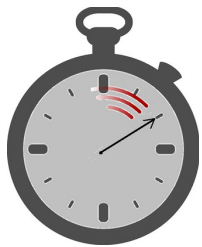
Volume 31 No. 4, December 2018

Editor: Bradford C. Vokey

Next Meeting: December 11th, 2018

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

As 2018 draws to a close, MUUG is going to continue our tradition of turning the December meeting into more of a social event.



RTFM: time(1)

We will have the usual round-table session, followed by a short demonstration of the unix time command by Wyatt Zacharias .

Time is used to determine the duration of execution of a particular command.

Bring your favorite gadget!

GADGET

The RTFM will be followed by an informal Gadget Show & Tell.



Bring your latest gadget to talk about - while everyone mingles, eats, and drinks.

This will also be a pot-luck snack event.

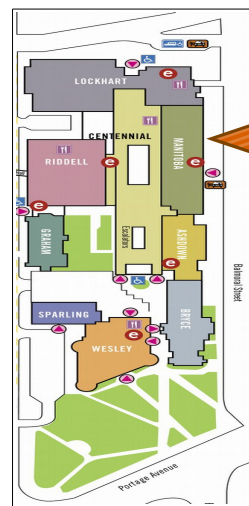


Cookies and pop will be provided by MUUG, but members are encouraged to bring their own food to sample and share. Feel free to bring your own drink as well if you want – just remember that we don't have a liquor license!

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

Where to Find the Meeting

University of Winnipeg, Room 1M28



Meetings are held in the University of Winnipeg's Manitoba Hall, on the east side of the University Complex.

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



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

Cash donations are preferred this year as every \$1 Winnipeg Harvest receives, they are able to pick up and deliver \$20 worth of groceries.

Any member who donates at least \$1 or brings at least 1 food item 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 |

Meet Your New Board

The MUUG Board for the 2018-2019 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.

Board Positions

Your new board held their first board meeting on November 13th, and for the fourth year in a row they elected the same BDFL 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>.

December Door Prizes:

This month, bring a cash donation (or any food item) 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 books:



The Elements of Java Style

Publisher: Cambridge University Press

Release Date: January 2000

Pages: 142

The Elements of Java Style is a book of rules of programming style in the Java computer language. The book was published by Cambridge University Press in January 2000. The book

provides conventions for formatting, naming, documentation, programming and packaging.

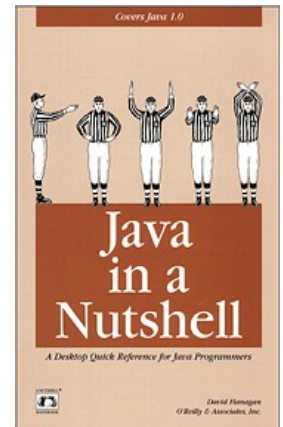
Java in a Nutshell

Publisher: O'Reilly Media

Release Date: March 1996

Pages: 460

Java in a Nutshell is a complete quick-reference guide to Java, the hot new programming language from Sun Microsystems. This comprehensive volume contains descriptions of all of the classes in the Java 1.0 API, with a definitive listing of all methods and variables. It also contains an accelerated introduction to Java for C and C++ programmers who want to learn the language fast. *Java in a Nutshell* introduces the Java programming language and contains many practical examples that show programmers how to write Java applications and applets. It is also an indispensable quick reference designed to wait faithfully by the side of every Java programmer's keyboard. It puts all the information Java programmers need right at their fingertips.



We may even have a 23" LCD monitor to give away! Come to the meeting to find out!

MUUG Annual Financial Statements

By Bradford C. Vokey, MUUG treasurer



Here are your 2017-2018 annual financial statements.

Our membership continues to be around 50 paying members every year.

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

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 2018-10-31

Assets	
Bank and Cash Accounts	
Guaranteed Investment Certificates	14,263.76
Chequing	795.01
Cash on Hand	40.00
PayPal Account	210.62
Total Bank and Cash Accounts	15,309.39
Other Assets	
Computer Equipment <i>(see note 1)</i>	979.80
Total Other Assets	979.80
Total Assets	16,289.19
Liabilities	
Prepaid Membership Dues	
	100.00
Owed to Members	
Trevor Cordes	66.00
Total Owed to Members	66.00
Total Liabilities	166.00
Net Worth	16,123.19

MUUG Income and Expenses

2017-2018 Season (2017-11-01 through 2018-10-31)

Income	
Membership Dues	
Current Year (2017/2018)	1,000.00
Previous Year (2016/2017)	40.00
Total Membership Dues	1,040.00
GIC Investment Income	152.26
Total Income	1,192.26
Expenses	
Advertising & Promotion <i>(see note 1)</i>	237.18
Bank Charges	
Square	4.84
PayPal	10.26
Bank of Montreal	30.00
Total Bank Charges	45.10
Computer Equipment	
Depreciation <i>(see note 2)</i>	979.79
Replacement Parts <i>(see note 3)</i>	446.32
Total Computer Equipment	1,426.11
Meeting Expenses	
Board Meeting Snacks & Drinks	204.28
Door Prizes	83.97
Regular Meeting Snacks & Drinks	107.13
Supplies	51.92
Total Meeting Expenses	447.30
Newsletter Expenses	
Postage	171.13
Preparation	300.00
Printing	12.64
Total Newsletter Expenses	483.77
Other Expenses	
Other Printing	3.45
Total Other Expenses	3.45
Total Expenses	2,642.91
Total Deficit	-1,450.65

Note 1: Advertising & Promotion consists of 12 month Pro subscription to Meetup.com (\$179.88 USD).

Note 2: 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 3: Replacement parts consists of:
 4 TB WD Red SATA HDD
 250 GB Samsung 860 EVO SATA SSD
 256 GB Intel 545 SATA SSD

What's New in Bash Parameter Expansion

The bash man page is close to 40K words. It's not quite War and Peace, but it could hold its own in a rack of cheap novels. Given the size of bash's documentation, missing a useful feature is easy to do when looking through the man page. For that reason, as well as to look for new features, revisiting the man page occasionally can be a useful thing to do.

Mitch Frazier from Linux Journal points out some new (or at least not widely known) parameter expansion tricks...

Case Conversion

Gone are the days of using

```
tr '[:lower:]' '[:upper:]'
```

to convert strings to uppercase:

```
$ a=hello
$ echo ${a^} # First character only
Hello
$ echo ${a^^} # All characters
HELLO
```

And for going to lowercase:

```
$ a=HELLO
$ echo ${a,} # First character only
hELLO
$ echo ${a,,} # All characters
hello
```

You also can specify a character after the *operator* and change the case only of characters that match:

```
$ a=hello
$ echo ${a^1} # First character if it is an 'l'
hello
$ echo ${a^^11} # All characters that are 'l's
heLLo
```

Names Starting with Some Prefix

Need a list of all the variables whose names match a certain prefix? Do this:

```
$ mya=1
$ myb=2
$ yourc=3
$ echo ${!my*}
mya myb
```

He has some more tricks and features in his article:

<https://www.linuxjournal.com/content/whats-new-bash-parameter-expansion>

Linux now runs 100% of the world's supercomputers



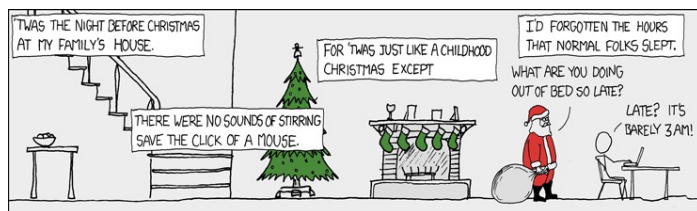
The most complicated, powerful computers in the world – performing the most intense processing tasks ever devised by man – all rely on Linux.

This is an amazing feat for the little Free Software Kernel That Could, and one heck of a great bragging point for Linux enthusiasts and developers across the globe.

Bryan Lunduke writes an interesting article for Linux Journal about the history of supercomputers and how Linux took over control of the entire top 500 fastest computers in the world. The fastest of which (IBM's *Summit* - clocking in at more than 143 petaflops) runs Red Hat Enterprise 7.4. Go figure.

<https://www.linuxjournal.com/content/linux-and-supercomputers>

Christmas Back Home



<https://xkcd.com/361/>

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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>