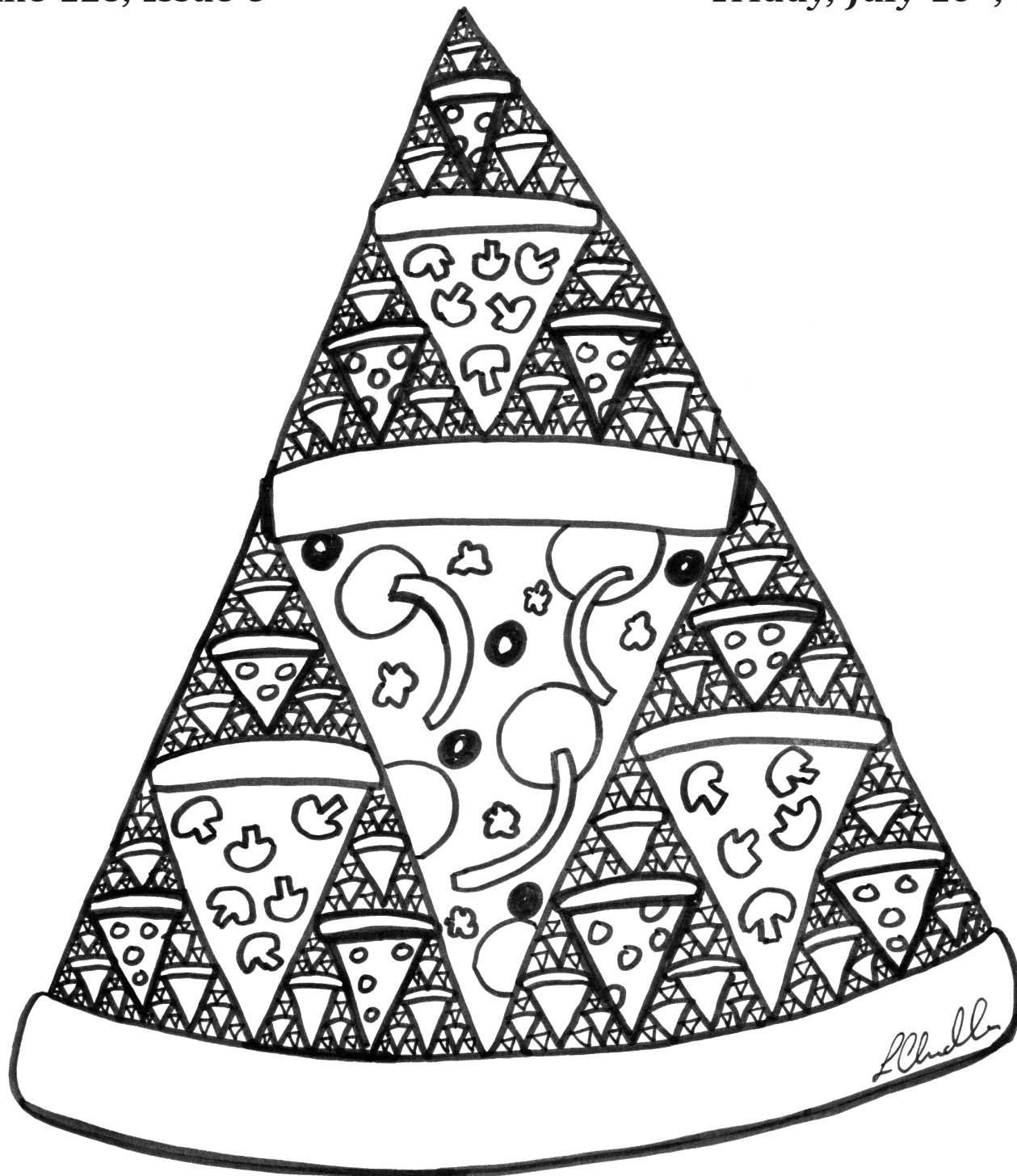


math

NEWS

Volume 128, Issue 5

Friday, July 10th, 2015



Sierpinski's Pizza



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lookAHEAD**mathNEWS**

July 10	Issue 5 receives an eviction notice
July 20	<i>mathNEWS</i> writers gather to sign a petition
July 24	Issue 6 is published from the broom closet

University

July 10	Course Drop, Penalty Period 1 ends
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MathSoc

July 22	Pi Misapproximation Day
July 28	Pints with Profs

CCA

July 13	Writing CVs and Cover Letters
July 14	Foundations of Project Management
July 14	Exploring Your Personality Type
July 14	Careers Beyond Academia
July 15–16	Info Session for Graduating Students
July 16	Work Search Strategies
July 16	Interviews: Proving Your Skills
July 20	Working in Canada
July 21	Business Etiquette and Professionalism
July 21	Interview Skills for Academic Positions
July 22	Getting a U.S. Work Permit
July 23	Negotiating Academic Job Offers
July 23	Medical School Applications

Miscellaneous

July 15	Cow Appreciation Day
July 16	Ramadan Ends
July 17–19	Kitchener Ribfest & Craft Beer Show
July 18	UWaterloo Societies Beach Trip
July 19	National Ice Cream Day
July 24	Amelia Earhart Day

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mathNEWS is normally a fortnightly publication funded by and responsible to the undergraduate math students of the University of Waterloo, as represented by the Mathematics Society of the University of Waterloo, hereafter referred to as MathSoc. *mathNEWS* is editorially independent of MathSoc. Content is the responsibility of the *mathNEWS* editors; however, any opinions expressed herein are those of the authors and not necessarily those of MathSoc or *mathNEWS*. Current and back issues of *mathNEWS* will eventually be available electronically via the World Wide Web at <http://www.mathNEWS.uwaterloo.ca/>. Does Thomas Baxter *really* want us to update this ISSN? [*I never said that I wanted it updated; I just wanted to ensure it didn't libellously claim that I don't proof-read it.—ConvolutED*] In any case, send your correspondence to: *mathNEWS*, MC3030, University of Waterloo, 200 University Ave. W., Waterloo, Ontario, Canada, N2L 3G1 or to mathNEWS@gmail.com on the Internet. This work is licensed under the Creative Commons Attribution-NonCommercial-No Derivative Works 2.5 Canada License. To view a copy of this license, visit <http://creativecommons.org/licenses/by-nc-nd/2.5/ca/> or send a letter to Creative Commons, 559 Nathan Abbott Way, Stanford, California 94305, USA. Terms may be renegotiated by contacting the editor(s).

Thomas Baxter (Calumny), Amy Li (Vilification), Elizabeth Liu (Traducement), Julie Sturgeon (Slander), Katherine Tu (Heresy)

mastHEADDear loyal readers of *mathNEWS*,

On June 31st, we received an eviction notice from Steve Furino on behalf of Stephen Watt, the new Dean of Mathematics as of July 2nd, informing us that we had to vacate our office of... uh... at least four years. We believe, based on events in the last week, that this termination is based on Watt's dislike for our media organization.

Media plays an important role in holding governing bodies accountable for their actions. Or, as more often occurs, governing bodies holding us accountable for our actions (See "A User's Guide to Breasts", published June 2nd, 2006).

We strive to high standards for ourselves by asking the tough questions. For example, we asked Ian Goulden cutting-edge questions like "What is the best pun that anyone has ever made with your name or title?" and "What is the most interesting food you've ever eaten?" To Stephen Watt, we asked, "How was your weekend?" and, "Are you a bear?"

For days and days, Stephen Watt has consistently and continuously ignored us. We are students who choose to volunteer hours and hours of our time each week, on top of our studies or co-op positions, to write *N Things* articles, draw bunny filler, come up with hundreds of horrible puns, and make our paper a more sane alternative to reading Imprint.

mathNEWS provides students not only with free pizza every other week, but also with opportunities to hang out with other math nerds, watch quasi-topical YouTube videos during Production Night, and maybe even learn something about current events. Our current space is vital to every aspect of the organization and to the volunteer experience, and we want Watt to let us stay. Although, if we could have the MathSoc office back, that would be swell also.

It is my strong opinion that Watt's actions are an attempt to eliminate the one independent media source on campus that doesn't suck. In solidarity with Imprint, we are seeking space on campus together. We asked our writers, "Where should the Imprint Office be relocated?"

darshwanda ("ECH"); ConvolutED ("NNWCH"); psychomath ("Laurier"); BlueberryMuffin ("Hell"); beyond Meta ("Fed Hall—take that, Feds!"); SovietCanadian ("next to the chevron office"); GingerbrED ("a tiny closet somewhere in MC—oh wait, that's *mathNEWS*"); TotallyLegitDeveloper ("In the SLC cafeteria at lunch time"); xoxo ("a different plane of reality"); GDizzle ("Narnia"); €Thu ("7th Floor MC"); TubesJr. ("my house... I'm lonely"); Stripes ("DC Library"); Sioui ("the *mathNEWS* office"); wibbled ("my hair—it's full of secrets anyway"); waldo@<3.LE-GASP.ca ("Next to the WatSFic's Office"); RT_STUDENT ("Under the trains. They demand virgin blood."); sharpie ("OMGUW"); ∅ ("Picard's ready room"); Zethar ("They should be in solidarity with other victims of journalistic imprisonment in solitary confinement"); Scythe Marshall ("NH 3001, so that the room is actually used for something useful").

Prez Sez

Hey, everyone! I hope this term has been fantastic. Here are a few updates:

The MathSoc Council has created a Calculator Policy Review Committee to come up with a more accommodating calculator policy. This policy should put students at the least possible inconvenience, but still fix the issues of academic integrity and the confusion about where and how to get calculators pink tie-approved. If you have any questions about this, feel free to email the VP Academic at vpa@uwaterloo.ca.

We also have the general meeting approaching on July 23rd, and the agenda items will be accepted shortly. As passed at the last general meeting, all of the MathSoc exec will be in costume during the entire meeting.

Mizz Prezzie Dee

Games Sez

Greetings, mathies!

Just a quick note to let you know of our past and upcoming Games Night events. Yesterday (July 9th, 6:30 PM), we held a "Board Game Party" in the Math C&D. It was a celebration of the end of midterms with a (free) evening of board games, pizza, and door prizes (which are, naturally, board games!).

If you couldn't make it yesterday, stop by any Thursday (same time, same place), for our weekly Games Night—same thrilling atmosphere, awesome games, and only *slightly* less free food.

Finally, keep an eye out for our end-of-term event. It'll be a dizzying 24 hours of dice-rolling, card-drawing, and food-gorging. Drop by for as long as you can—stick around the whole night (day?) for maximum bragging rights, and far too little sleep.

Until next time, and may your rolls be high,

Games

Journey to Being Undeclared

As I am now ending my second year, the daunting task of choosing a major has arrived. This is a decision I've been putting off for many moons. I can't even decide what to have for lunch most days. How am I supposed to decide this? I've attended many info sessions, talked to many upper years, and spent hours upon hours on math.uwaterloo.ca. I remember back in first year when everything seemed like interesting, not-terribly-difficult options to pursue, and everyone knew they were going to become actuaries. But here I am, undeclared. There are far and few of us. I've covered all my Math requirements, taking every major intro course I could so I guess it's time to decide. Once I do, I'll probably switch my program another three times. To all the other undeclared: it's time... but if you do put it off too long, there's always stats.

G-UNIT

I'm Probably Sitting in a 15-Year-Old Chair

I heard in a CS lecture that the University of Waterloo used to have a large computer room in MC called the Red Room. Having heard similar things from my parents (who attended this university) my curiosity was sufficiently piqued that I decided to consult Google. Turns out it was a big red room! Full of computers! The floors were made of bright red tile and the walls were made of panels of the same color. It actually spanned two floors vertically; the computers were on the lower level and there were floor-to-ceiling windows on the upper level.

You can find pictures on a webpage that IST hosts if you Google "uwaterloo red room". There are *tons* of them.

Anyway, the Red Room was eventually closed around the year 2000. The space was repurposed into several rooms on the first and second floor, including (but not limited to) MC 2061, MC 2062, and MC 1085. Probably. All I can find are lots of pictures and things don't map nicely together from the low resolution. All this is to say that you can find pictures of the computer labs on the second floor before and after construction. Those computers sure do look ancient! Macs used to look like that? Wow! More importantly, look closely: the chairs are the same color as they are now. That means some of the chairs are 15 years old. I don't know whether it's cool or disgusting that I am sitting, as I am writing this article, in one of those chairs. Eugh.

TotallyLegitDeveloper

FOC Sez

Hi everyone,

Math Orientation needs your help! We are running a Family Feud activity during Orientation Week and we need you to answer a few questions: <http://tinyurl.com/MathOrientFF>

Thank you for all your help,
MathFOC 2015

Dr. Phil's Philler

A collection of dumb things from the good doctor.

- "You don't need a pack of wild horses to learn how to make a sandwich."
- "Sometimes it's hard to see your own face without a mirror."
- "You know your authentic self when you know who you truly are."
- "Don't think you don't know what you don't know; only you know that."
- "If I have to cry, then I'll cry. If crying doesn't get it done, then alright, I'll start choking."
- "I'm not even remotely qualified."

#justphilthings

A Letter To My 13-Year-Old-Self

And anyone else who's in need of guidance

Man, it's been a while—10.5 years to be exact. Now I want you to listen to my words: it's going to be okay.

It's not going to seem okay (maybe for a long time), but you'll get through this. I know you don't believe in yourself, but I want you to try. I want you to find that confidence inside yourself, and don't let it depend on other people. People can be wonderful, and some of them will always be there for you, but you need to learn to depend on (and be) yourself. Screw anyone who doesn't love you for exactly who you are, ~~warts~~ flaws and all.

People are going to tell you that your feelings are invalid, either because you're too young, because you're just overly-emotional, or because you just need to "put your mind to it and everything will be just fine". Don't listen to them. Your emotions are valid, and if you feel like you're drowning—please get help. I know what you're thinking: I don't need anyone's help. No one would understand. I don't want medication—it'll make me *not me*. I know, you're strong. But strength doesn't mean you can't depend on others. You are allowed to ask for help. Please do.

Whatever you do, please do not hurt yourself. You will start something you'll never be able to stop. It's addictive—crazy addictive. So addictive that even as you're telling yourself and others that you're not going to, you'll be carrying out the motions. Even when you think you're over doing *that*, the temptation will come rushing back to you. And if you try to quit, you might just find an even more creative way of destroying yourself. I know. So please, learn to love yourself and your body, even if you hate the concept of it at first. You are worth that much.

Don't sweat the small stuff. Or even the big stuff, really. Everything is going to seem like it's life or death, but you can push through just about anything, because you're so much stronger than you think. Your grades, your appearance, your weight, your career, your friends: all of these things are a part of you and a part of your life. But none of that completely defines you. None of that is your entire life. You will still exist, and even thrive, even if you "fuck it all up."

I know a lot of these feelings might never go away. You may struggle with your mental health for your entire life. But you will learn to live with it, learn coping strategies, and find people who embrace you in your entirety and support you in your struggles. Whatever you do, just don't give up. Don't decide to check out early. I've tried, many times, and even though my life isn't all that great right now—there have been people I never would have met and experiences I never would have had if I been successful in my attempts. There are so many people who love you, who want only the best for you, and will still love you at your worst. So just keep swimming.

Love yourself. Please be safe.

If you feel yourself struggling, please call:
Waterloo Region Distress Line: 519-745-1166
Waterloo Region Crisis Services: 1-866-366-4566
Waterloo Mental Health Helpline : 1-844-437-3247
Ontario Mental Health Helpline: 1-866-531-2600

Pre-profQUOTES

Nice!

"This is 'The Sandwich Theorem'. Now you are mathematically knowledgeable enough to have seen many 'The Sandwich Theorem's. This 'The Sandwich Theorem' is local to this discussion."
 Tunçel, CO 471

"This is a nice result. We still have some time left, so why don't we prove it again!"
 Tunçel, CO 471

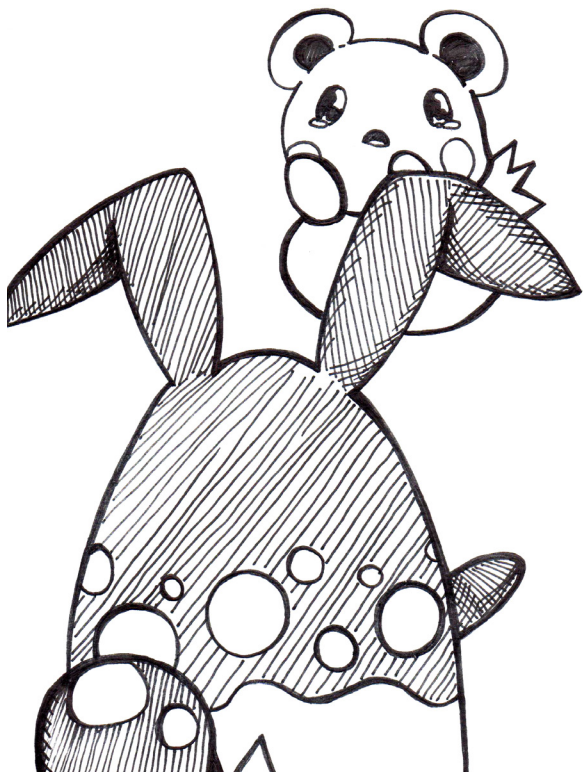
[*Student leaves the room.*] "Oh no! This is a critical time! Please don't go... Oh well, you guys can help him later."
 Tunçel, CO 471

Professor: "Some poor slob..."
 Student: "Co-op students?"
 Professor: "Grad students, actually."

Furino, CO 480

"One mathematician calculated 70,000 logarithms and found a mistake made early on. This led to the invention of co-op students."

Furino, CO 480



Why I Come Back to Ontario

As Tidus would say, "This is my story."

By the time you (that is, the general audience of *mathNEWS*) read this, I'll be long gone, and by that, I mean that I'll have left for North Bay, leaving the Tri-Cities behind for another year. Chances are I'll be back again next summer—it will be the first summer I won't be able to rely on my old Watcard acting as a valid bus pass. Oh well.

Why do I keep coming back? Well, maybe to answer that question, we should think about why I left in the first place. And to do that, we might look at why I just wasn't here in the first place.

I grew up in the interior of British Columbia, Canada, in a little town called Trail. It's known more for sports (the Trail Smoke Eaters (IIHF World Champions in 1939 and 1961), Jason Bay (MLB), Barret Jackman (NHL, and shut up, I know he lived in Fruitvale), and a surprisingly large number of other professional sports players) and smelting (Cominco, now Teck Resources Limited, the site of the first (and largest [*Stop nesting parentheses.—ConvolutED*]) lead and zinc smelter in Canada, among other things) than for most other things, though it always seems that people from previous generations have heard of Trail; labour relations, the Colander restaurant, track and field, and Red Mountain Resort are other reasons why. In any case, it's a small town, and if you want to get a university education, you basically have to leave. So I left.

I could've gone to UBC; both of my parents and both of my mother's siblings did math degrees at UBC. They have the second largest math department in the country (or something). But I didn't go there, since I visited in grade 11 and the guy talking to us didn't have anything to say about doing math there. Hint: those people are super important.

I could've gone to UVic; hell, that's where I am now, and will be for the next four or five years. I have family there, and it's a great school. I could've gone to SFU, but meh.

Instead, I went to UW, since it was where I could do math. And do math I did. Lots of it: a double major in Pure and Applied Math's worth. But that wasn't the only thing I did. I played music. I did theatre. I wrote for *mathNEWS*. I played games. I played sports. I baked cookies and cakes. I bowled. I voted. I conferenced. I was an O-Week leader. I made friends.

After I finished my degree, I left for UVic to become a graduate student in mathematics. And when I left, some of my friends left too. Not all of them, though; I came back the next year for convocation, and I was able to sit in the stands and be so incredibly proud of all of my friends. And I could cheer on and support those who weren't quite finished yet, too.

But more of my friends left, and most of my very close friends were no longer in KW. Hence, when it came to visiting Ontario this year, mostly due to having the wonderful excuse of attending a wedding, my trip wasn't planned as "spend a week in Waterloo", it was...

Oshawa, Burlington, Kitchener/Waterloo/Cambridge, North Bay, Ottawa, Brampton. (Of course, stopping by Toronto a bit, too.)

My friends are all spread out, now. So it becomes a bit harder to say, "I wish I was still in Waterloo" when really you just mean, "I wish I had my friends with me". And most of the time that's all I—or maybe all everyone—wants, isn't it? Well, maybe not. But that's not the point, I suppose. The point is that if you have enough friends for whom you care, you'll fly across the country to be with them, given sufficient money and time.

So that's why I come back to Ontario; I come back because I made lasting friends here, and I value them. Maybe other people have different experiences, but this is what I know, and it's worth it to me. Amusingly, I light up like a Christmas tree, looking jolly and content, whenever anyone visits me in Victoria; perhaps I should "just" attempt to make more friends there, instead of always coming back to see the old ones I already have. That's easier said than done, though. And besides, I'm not the only one who's lonely over here, and perhaps most unhumblly, I'm not unwanted when I do visit. That might be the best part.

Fare thee well; until next time!

Scythe Marshall

Last Issue's Grid:

D	E	U	R		S	T	N	E	N		H	E	T
E	R	S			I	U	E			S	A	C	S
P	H	S	R	S	B	E	M	E	M		E	R	I
S	H	A	T	H	D	E	R	R	E		R	T	P
		R	P	I	E		A	D	I	A	S	T	
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		N	K	S		P	O	T	S	T	K	B	A
	S	R	E	S	N	A	T	C	O	A			
Y	K	E	F	S	H	I			P	O	P	S	N
E	M	A		A	K	N	O	W	L	L	L	W	I
R	L	I	A		T	N	D	E	T	C	I	D	E
T	D			S	A	L	A			S	O	S	O

Submit your articles, *prof*QUOTES, and eviction notices to mathnews@gmail.com or the BLACK BOX near the MC Comfy Lounge.

On Humour

I apologize in advance for the most egregious pun herein

If an alien xenanthropologist comes to Earth, there are many things they might find odd about human society. They will find that we speak of sacred matrimony and yet, behind the scenes, shatter the serene setup, that people pine for success and, when they get there, succumb to languor; and that some coincidence of situation and sound can cause humans to exhale with a shrill sound most unbecoming of dignity.

Gelotologists, despite the area of expertise, have yet to come to a conclusion as to the specific origin, reason, or impetus of this sound. The leading theory is that laughter, as the humans call it, originated as a signal which negates the danger signal emitted by the humans under duress. It is understood that if the information channel received by an interpreter contains a mix of distress and laughter signals, that the danger exists in a model figment with little relation to the model of reality.

Laughter stimulates the human pleasure system; like many such systems, it is a result of the evolutionary process to reward the human for doing something well. The leading theory of what action the evolutionary imperative is rewarding is the peaceful diffusion of an incorrect assumption made by the mind. Humans, being divorced from the Akashic records which permeate space-time must resort to making crude models of their surroundings with data they receive from primitive electromagnetic and percussion wave sensors, and thus need to make assumptions while making this model. It is theorized that laughter is a mechanism which doesn't discourage the human from making assumptions, which is an unavoidable part of their meager existence. Since being punished for making incorrect assumptions will under a rational thought system incentivize not making assumptions in the first place, this could impair the human when the time is imperative.

Humans, however, wouldn't be humans if they didn't find a way to artificially induce a feeling, having obviously developed the technique to do so. The "joke", a vehicle intended to deliver humour to its recipients, is distilled into several forms. People have categorized it into three types, dependent on who is making the faulty assumption. Before those are discussed, first, some example jokes:

A grasshopper walks into a bar. The barman looks at him and says, 'Did you know there's a drink named after you?' 'Really?' says the grasshopper. 'There's a drink called Jeremy?'

In this joke, the characters in the conceptual space built by the medium make assumptions. The barman makes the assumption that grasshoppers don't have names, and thus comes to mind the cocktail (a mixed consumable containing ethanol, a chemical which inhibits the human brain) of the same name. The grasshopper makes the assumption that the barman is talking about his given name, and the two assumptions are revealed and diffused peacefully.

An Irishman walks out of a bar.

In this joke, especially in this context where it is presented as such, shows that the presenter of the joke is making an assumption, specifically the stereotype (an exaggerated base assumption about things with a certain attribute such like country of origin) that Irish people are not capable of the cessation of imbibing ethanol-containing products, which are normally served in a bar. Since ethanol products impair the mind, and for humans the mind controls motor functions, the presenter finds that the assumption of the stereotype is challenged by an Irishman walking out of a bar.

A Frenchman walks into a bar with a toad on his head. 'What the hell is that?' asks the barman. The toad replies, 'I don't know—it started as a wart on my ass and grew.'

In this joke, the listener makes the assumption, given the sentence structure of the first sentence, that the joke will be about the Frenchman. However, in the second sentence, the teller reveals that the subject of the joke is the toad on the Frenchman's head, diffusing the listener's assumption.

It had been said by a very famous writer that analyzing a joke is like dissecting a frog: nobody wants to do it, and it dies afterwards. That being said, sometimes science needs to be done and it is most unfortunate that jokes will need to perish in the name of progress.

Zethar

Article of the Issue

The Article of the Issue for Issue 5 is *Dear Abel: I Suspect My Partner is Cheating on Me!* Abel, for your valiant efforts in helping computer enthusiasts deal with their personal problems, you have won a \$25 Conestoga Mall gift card. You can pick it up in the *mathNEWS* office.

We can sympathize, as we here at *mathNEWS* recently separated from our computer equipment. It was slow, kinda dusty and didn't meet our needs. We paid money for a better, shinier, curvier model, and we're much better off now.

The Editors

Creepy Personal Information

Name: Scythe Marshall

E-mail: noneofyourbusiness@gmail.com

Deepest Secrets: I would appreciate actually having close friends who live in the same city as me; I voted Communist once in the BC provincial election (I took math and physics with him; he also won the local debate).

Creepiest Fetish: What's a fetish? ... Oh, like, maybe listening to new music for the first time.

Knitting and Programming: Hats

For this issue's pattern, I've chosen to do a hat. Hats are nice because they allow you to practice your knitting and purling, and are also a great introduction to decreasing. (Pro tip: If you want to decrease the number of stitches you have by 1, you knit two stitches together instead of knitting them both separately or do what's called "slip slip knit". Google it.) Hats are also great because they keep your head warm and can hide a bad hair day!

This pattern is more complicated than the last one, but again, if you want/need help, come to UW Knitter's Club, Mondays 6–8 in ML 349!

SIDE NOTE: I was talking to someone about the last Knitting and Programming article I wrote, and they said that you could make the comparison I made with anything else that is iterative, their example: farming. While what they said is true, I don't like farming; I like knitting, and they can suck it.

DISCLAIMER: *This pattern is not mine, it is from <http://www.purlbee.com/2014/10/22/classic-cuffed-hat/> and used with their permission. I have adjusted it so it is not knitted with circular/double pointed needles.*

Classic Cuffed Hat

```

bigNeedles = 4.5mm
smallNeedles =
yarnWeight = worstedWeight

length = 0 // measured in inches
knitFirst = true

castOn(88)

//rib the cuff
needles = smallNeedles

// Optional: The smallNeedles create a tighter
hat cuff, can use bigNeedles for the entire hat
if desired

while (length < 4) {
  for (i = 0, i < 88, i ++ ) {
    if (knitFirst) {
      if (i % 2 == 0) {
        knit(1)
      }
      else {
        purl(1)
      }
    }
    else {
      if (i % 2 == 0) {
        purl(1)
      }
      else {
        knit(1)
      }
    }
  }
}

knitFirst = !knitFirst
}

//work the body
needles = bigNeedles
while (length < 9.75) {
  if (knitFirst) {
    knit(88)
    knitFirst = !knitFirst
  }
  else {
    purl(88)
    knitFirst = !knitFirst
  }
}

//shaping the crown
for (i = 0, i < 3, i ++ ) {
  knit(1)
  slipSlipKnit()
  knit(17)
  knit2Together(1)
  placeMarker()
}

knit(1)
slipSlipKnit()
knit(17)
knit2Together()

//you should now have 80 stitches

while (stitches > 16) {
  purl(88)

  for (i = 0, i < 4, i ++ ) {
    knit(1)
    slipSlipKnit()
    knit(until2BeforeMarker)
    knit2Together()
    moveMarkerToOtherNeedle()
  }
}

//you should now have 16 stitches

for (i =0, i < 8, i ++ ) {
  knit2Together()
}

//you should now have 8 stitches

threadYarnThroughRemainingStitches()
weaveInEnd()

while (true) {
  wearNewHat()
}

```

Dear Abel: I Suspect My Partner is Cheating on Me

Dear Abel,

I'm in a long-term relationship with my computer, but I suspect she may be cheating on me with the NSA. What do I do?

4chan4lyfe

Dear 4chan4lyfe,

I'm sorry to hear that; it always hurts when we can't trust those we love most. You have a few different options.

You could break up with your computer and kick her out of your apartment. Find someone new. This may not be viable, however, since you are probably already financially invested in your life together.

You could wipe her memory and start over. When she wakes up with no memory of her previous life, tell her you're in a relationship with her and make sure to keep her away from contact with the NSA so that they don't get together again. This may be difficult however, since the NSA is incredibly smart and very possessive of its partners. It will probably do everything in its power to hook up with her again, so you will have to be vigilant. *[It is possible to combine the previous two points by harvesting some of her innards, purchasing replacements for the rest, and constructing a superior model. It may be cheaper than the first option and more powerful than the second.—ConvolutED]*

You could pretend you don't notice and just leave things as they are. This may be the easiest since it's the least work for you, but it puts you at risk via your partner, and may leave you very insecure.

Just accept it. Rationalize it by saying that most computers cheat on their partners with the NSA anyway. It's unavoidable. Become celibate. You could keep living together but never turn your computer on again, or you could move far away from all computers altogether. It's the only way to be truly safe, but you may find yourself isolated and lonely; the break-up may impact your social circle and ability to spend time with your mutual friends.

Note that if your suspicions are correct and you break up or try to prevent your computer and the NSA from seeing each other, the NSA may become angry, add you to their "watch list", and start stalking you. Unfortunately, there would be little you could do to retaliate since the NSA is known to have friends within the government. However, staying quiet and continuing with the status quo could also be very dangerous for you, as staying with a cheating partner exposes you to whatever infections and viruses may be passed to it by the NSA. Furthermore, the NSA is known to have many relationships, and any personal information that your computer reveals to the NSA about you could potentially be passed on to other individuals, putting you at risk. It's a difficult trade-off, but I think you deserve a partner you can trust and who cares for you enough to not put you at risk.

Regards,
Abel

Monty Python in Python

Lumberjack Song

```
def lumberjack():
    femininity = 0
    singers = 20
    for verse in range(0, 7):
        if verse % 2 == 0:
            stayingSingers = singers
            singers = 20
            print("CHORUS!")
            singers = stayingSingers
        else:
            femininity += 1
            singers -= 5
```

lumberjack()

TubesJr.



In The News

Recently, Greece has stunned the business world with revolutionary negotiating techniques to handle their country's debt crisis. When asked whether they would agree to harsh austerity measures in exchange for an extension of their loans, the country overwhelmingly voted against the proposal. When asked what their counter-offer was, one young non-voter said, "Follow our parents before us: why pay?" In response to a question about whether this meant cutting down on services and financial aid, he added, "Of course, we don't want to go without those, but it's horribly unfair to expect that we pay for them." Showing solidarity with his citizens against unjust oppression by financial fat-cats like Germany and France, the Greek finance minister determined calling his counterparts "terrorists" was sure to smooth negotiations.

In other news, Greeks have expressed surprise that this crisis occurred in the first place, not understanding how people so fiscally responsible could fall on such hard times. No doubt it is due to the Eurozone's envy of the world's oldest democracy.

sharpie

profQUOTES

“If two guys like one girl or vice versa, it’s not a triangle. It’s a path of length two.”

Pei, MATH 239

“You guys are adults. If you cheat, then whatever.”

Holukoff, PHIL 145

[While handing back exams] “Why don’t you guys get easier last names?”

Salehian, ME 212

“I’ll ask your opinion, then disregard it.”

Campbell, PSYCH 101

“If you’re bored with me talking at you, that’s what business courses are.”

Attualah, CS 330

“If you can answer P=NP, you should be teaching this class. Actually, you’d probably have better things to do.”

Fukasawa, CO 454

“I can’t find a polynomial time algorithm for this, maybe because I’m dumb, but then everyone else in the world is dumb too.”

Fukasawa, CO 454

“If there are only a hundred nerds [using PGP]...”

McKillop, CS 458

“This conjecture is surely true. If you were a physicist you wouldn’t even bother [finding a proof].”

Geelen, CO 446

“I claim to have proved this. It’ll probably take about 5 years to write the proof... But we’re pretty sure it’s true.”

Geelen, CO 446

“This is a beautiful theorem! It looks like it should be useful, but I’ve never seen an application.”

Geelen, CO 446

“Something that helps with this exercise is this other exercise.”

Geelen, CO 446

[Writes “Turan’s Theorem does not imply Ramsey’s theorem (in this way).”] “I say [(in this way)] because I’m standing in front of a room of math students ready to tell me that every true thing implies every other true thing.”

Geelen, CO 446

“Has anyone heard of the Density Hales-Jewett Theorem before? [Silence.] Good, because if you had, you’d be scared.”

Geelen, CO 446

“I don’t have your assignments back. If it makes you feel any better, I am feeling guilty about it.”

Geelen, CO 446

“I’ve got your assignments back. But don’t be too impressed, because I got so desperate, I actually paid someone to mark them.”

Geelen, CO 446

[Writes “... if and only if $r(M \cup \dots \cup M) = k r(M)$] “... if and only if the rank of your mum is equal to k times the rank of M.”

Geelen, CO 446

“I will use this to prove a really pathetic weakening of the 4-colour theorem... the 8-colour theorem.”

Geelen, CO 446

“If you were or are an undergrad at Waterloo, you’ve probably already seen a proof of König’s Theorem in 239, 342, 442, 351, and maybe even 250. But, in case you still don’t believe it’s true, let me prove it one more time.”

Geelen, CO 446

“Now, we are going to define something like vertex disjoint paths, except there are no paths and there are no vertices.”

Geelen, CO 446

“In the 1970s, everyone knew this theorem. Well... when I say everyone, I mean all 5 people studying matroids.”

Geelen, CO 446

“For anybody who has suffered through me trying to prove Menger’s theorem, this [matroid theory lemma that leads to Menger’s theorem] is nuts! For anybody who hasn’t suffered through me trying to prove Menger’s theorem, you’re about to.”

Geelen, CO 446

“Tutte names this vertical connectivity because it relates to vertex connectivity. I once got 10 people at a conference to agree with me that it should be vertical connectivity. I came back, spoke to a colleague and he looked in the dictionary. Turns out ‘vertical’ isn’t a word, but ‘verticial’ is and it means, ‘that relates to vertices’.”

Geelen, CO 446

“This makes you think there’s probably a really clever way to write this down. I didn’t find it.”

Geelen, CO 446

“Tutte’s Wheels Theorem becomes Tutte’s Wheels and Whirls Theorem, which tells you that things get a little worse.”

Geelen, CO 446

“When I say ‘most applications’, I don’t necessarily mean those that make you money. Remember I talked about a pure math problem earlier.”

Tuncel, CO 471

[Student walks out.] “I should have tried to talk about a better theorem.”

Tuncel, CO 471

Floating on Egg Whites

Good day, fellow math nerds. The one and only Pastry Genie is here to once again help you with your many baking needs. I trust you all have mastered the art of the éclair, and now can handle French baking. Let's step it up a notch. I'm going to teach you how to make soufflé. Now I know what you're thinking, "Is that the really puffy thing that if you so much as look at it wrong, it will deflate and be ruined?" The answer is yes. Yes, it is. Fear not! I am The Pastry Genie, and I will help you through this.

The term soufflé comes from the French word souffler which means "to blow up" or loosely translates to "puff up". This is a description of the reaction that the eggs produce from the high heat of the oven. They puff up and expand.

Once baked, a soufflé will begin to settle and collapse as it cools. This is normal. It is one of the reasons that soufflé are served immediately after baking. The middle of a soufflé should be airy and light like a mousse but also gooey at the same time.

A soufflé can be either savory or sweet. The most traditional savory soufflés are often cheese-based. You start with a basic roux sauce (a cream sauce thickened with butter and flour) and fold whipped egg whites into it. For a sweet soufflé, you start with a flavoured pastry cream and fold whipped egg whites into it. In the last issue, I instructed you on how to make coffee pastry cream for the éclair filling. If you so desire, you could use that pastry cream recipe and make coffee soufflés.

Sweet soufflés are often served with crème anglaise, a thick egg-and-cream-based sauce. Have you even scooped yourself a big bowl of French vanilla ice cream only to realize you forgot to submit your assignment and the deadline is in 10 minutes? So you abandon your ice cream on the counter as you rush to your computer to submit it. Naturally, now that you are on the computer, you get distracted by pictures of cats and baby otters. 45 minutes later, you remember your ice cream. So you rush back into the kitchen only to find that your bowl of sweet, delicious ice cream has turned into a puddle of sweet, vanilla cream. This is essentially a crème anglaise.

If you are going to attempt to make a soufflé, you need to have the proper dishes for it. Straight sided ceramic ramekins are traditional. The sides of the ramekin shouldn't be overly thick but also shouldn't be thin. The thickness of the sides will change how long your soufflé bakes for. If you don't have appropriate vessels in your dwellings, I recommend going to the local dollar store and picking some up. Traditionally, they are white, but you can find them in a wide range of colours. You can either make individual soufflés or a large one to share. Personally I prefer to make individual ones. This way I do not have to fight over the crisp sugar edges with anyone else.

Another thing you should have when making soufflé is an electric mixer. It is possible to do it without, but it is likely that you will under-whip your egg whites causing your soufflé not to rise very well. If you do not have an electric mixer, go find a friend who does. Trust me. Electronics are a good thing.

Now, if I haven't scared you away, are you ready to begin? I will start with a basic recipe for pastry cream. Pastry cream is very versatile. You can make it out of almost any flavour. This means the options for soufflé flavours are nearly unlimited. I will also teach you how to make a chocolate base. It is actually easier to make than pastry cream. Don't believe me? Try it for yourself.

Vanilla Pastry Cream

INGREDIENTS

- 2 cups milk (2% is best)
- ¼ cup sugar
- 2 egg yolk (save the whites)
- 1 whole egg
- ¼ cup cornstarch
- ½ cup sugar
- 2 tbsp butter
- 1 tsp vanilla extract

DIRECTIONS

1. In a heavy saucepan, stir together the milk and ¼ cup of sugar. Bring to a boil over medium heat.
2. In a medium bowl, whisk together the egg yolks and egg. Stir together the ½ cup sugar and cornstarch; then stir them into the egg until smooth. When the milk comes to a boil, drizzle it into the bowl in a thin stream while whisking so that you do not cook the eggs. This is called tempering. It allows you to heat the eggs up slowly without cooking them.
3. Return the mixture to the saucepan, and slowly bring to a boil, stirring constantly so the eggs don't curdle or scorch on the bottom.
4. When the mixture comes to a boil and thickens, continue stirring for one minute. Remove from the heat. Stir in the butter and vanilla, mixing until the butter is completely blended in. Pour into a heat-proof container and place a piece of plastic wrap directly on the surface to prevent a skin from forming. Refrigerate until chilled before using.

Chocolate Soufflé

INGREDIENTS

- 8 oz semisweet chocolate, finely chopped (or 1 cup of semi-sweet chocolate chips)
- ¼ cup sugar, plus more for dusting the dish(es)
- 1 tsp vanilla extract
- ¼ cup water
- 3 egg yolks
- 4 egg whites
- ¼ tsp cream of tartar
- Soften butter or non-stick spray for greasing the dish(es)

DIRECTIONS

1. Preheat oven to 350 degrees. Lightly butter a 1 ½-quart tall-sided baking dish, or four individual ramekins (numbers may vary depending on the size of your ramekins). Coat the sides and bottom with sugar, tapping out excess. Set dish on a rimmed baking sheet.
2. In a large heatproof bowl set over a pot of simmering water, combine chocolate, vanilla, and ¼ cup water. Stir until chocolate is melted and mixture is smooth. It will

New Music Roundup

start out looking chunky and stiff but it will smooth out. Once smooth, remove from heat and let it cool to room temperature for about 20 minutes.

3. Stir egg yolks into cooled chocolate mixture until well combined. This is the base for your soufflé. Set the base aside.

MAKING THE SOUFFLÉ:

This is where you can use pastry cream in place of the chocolate base, if you so desire. If you are using pastry cream, you will need to warm it slightly in a bowl over simmering water. It should be slightly warmer than room temperature.

1. In a large bowl, use an electric mixer to beat egg whites and cream of tartar on medium-high until soft peaks form for about 2 minutes. Gradually add sugar and beat until stiff, glossy peaks form for about 5 minutes. Do not overbeat.
2. In two additions, fold egg-white mixture into soufflé base. With a rubber spatula, gently cut down through center and lift up some base from bottom of bowl. Turning the bowl, steadily continue to cut down and lift up base until just combined. Make sure you are scraping the sides of the bowl.
3. Transfer mixture to dish(es). Most ramekins have a fill line that is about $\frac{1}{2}$ inch from the top—only fill to this line. Flatten the top to ensure the batter is level. This will help the soufflé rise evenly. Wipe any excess batter from the top edge of the dish. Bake soufflé until puffed and set. It usually takes 30 to 35 minutes for the soufflé to reach its full size. Do not open oven during the first 25 minutes of baking. If making a smaller soufflé, bake for 12–16 minutes. Do not open the oven during the first 10 minutes. The tops should be golden brown and it should have risen above the edges of the dish. If desired, dust the tops with icing sugar. Serve immediately as is or with crème anglaise.

Crème Anglaise

INGREDIENTS

- 1 cup 35% cream
- $\frac{1}{3}$ cup sugar
- 4 egg yolks
- 2 tsp vanilla extract (or orange, mint, cherry, rum, etc. the possibilities are endless)

DIRECTIONS

1. In a small, heavy saucepan, heat cream and vanilla until bubbles form at edges.
2. While cream is heating, whisk the egg yolks and sugar in a bowl until smooth. Slowly pour $\frac{1}{2}$ cup of hot milk mixture into egg yolks, whisking constantly. Note that we are tempering again. Gradually add egg yolk mixture back to remaining milk mixture, whisking constantly. Return to medium heat. Continue to cook, stirring constantly, until the mixture coats the back of a spoon. Do not boil! Once the mixture is thick, pour it into a heat proof bowl. Place a layer of plastic wrap over the surface to prevent a skin from forming. Cool in fridge.

Pastry Genie

If you're a fan of music like the 1975, then this week is good for you. Lots of tracks in this list come from a similar vein.

Abrasive (Ratatat)

The new Ratatat album *Magnifique* is coming out July 17th. Need I say more?

Tell Me What You Want From Me (Good Old War)

Good Old War's latest album *Broken Into Better Shape* was released last week. Much like the album, the lead track, Tell Me What You Want From Me, is optimistic and approachable, despite the angsty title.

Low Tide (XY&O)

XY&O only has one song on Spotify, but it's a good start. Low Tide fits right in the genre niche formed by bands like the 1975 and Smallpools, but be warned—it's not a jam. It's more of a playlist filler type song (in the best possible way).

Galaxy Rider (Voyageur)

Galaxy Rider has less than 15k plays on Spotify, but I think it's beautiful. The chorus is cringingly high, and the lyrics are immature, but the result is raw and delicate, like watching your younger sister perform in the elementary school play. Galaxy Rider feels like it's on the edge of breaking, but hasn't yet because it doesn't know what breaking is.

Eye to Eye (Astronauts, Etc.)

Eye to Eye fits into the same genre niche as Low Tide, but with deeper lyrics and more intricate instrumentation. The song is about the mix of tension and timidity in the lead up to a difficult conversation, which the guitar mirrors by straying between the drums (which increase the pace) and the keys (which are fighting to bring the pace down).

These tracks and others from past issues can be found on the Spotify playlist titled *mathNEWS*.

[flustered]

Depression Study Deemed Not Depressing Enough for STAT Course

In my STAT 431 class, we have been dealing with a variety of cheery, upbeat topics like the Challenger Disaster, Skin Cancer, Methods of Suicide, Car Accidents, Severity of Miner's Breathing Problems Over Time, and my personal favourite, Extremely Lethal Childhood Cancer. The constant focus on all these sad topics and my midterm mark have led me to feeling rather down. I was wondering if it was just me, so I decided to conduct a study on whether this course caused depression. After I had completed the study, I asked the prof if he would consider using it an example. He said no, saying that the study was simply too positive and would not fit well with the rest of the material.

Beyond Meta

trainsQUOTES

“Hahahaha, failure to replicate! You’re like the worst Borg ever!”

“That train just yelled at us in German and then died!”

“Global? We use interstellar variables. They are stored on a server behind a REST API and whenever we want to read it we GET, and when we want to update it we POST.”

“It’s kind of like a last resort debug hack.” [Silence.] “I’ve been using it a lot.”

“I’m not discriminating; I like ass!”

“Why does the Slavic agile board have ‘Drive Back the Uzbecks’?” “It’s for solidarity with the ‘Defeat the Huns’ on the Chinese agile board.”

“Fuck, even people in prison get days off.”

“Somehow it got more robust, but I’m not sure how.”

“The trains keep getting stuck. Is there a virgin in the room we can sacrifice?” [Several people look around.] “Huh, apparently not.”

“Okay, this last build should break in new and unexpected ways.”

```
GCC:../secretary.c: In function 'FUCKPRINT': ../secretary.c:39: warning: type defaults to 'int' in declaration of 'shit'
```

“All hail the mighty Time Elf.”

“You have a Jesus task!?”

“For Cowan, the ride hasn’t ended for over 30 years.”

“RIP Train 12.”

“Oh Shiieet! It’s going down! git blame motherfucker!”

“It’s not ‘The Comfy Lounge’ any more. There are no sofas. It’s just ‘Lounge.’”

“I don’t like religion; it prevents food.”

“I feel like I’m just bullshitting. This shit is so bad I feel like I’m eating shit, and then shitting shittier shit.”

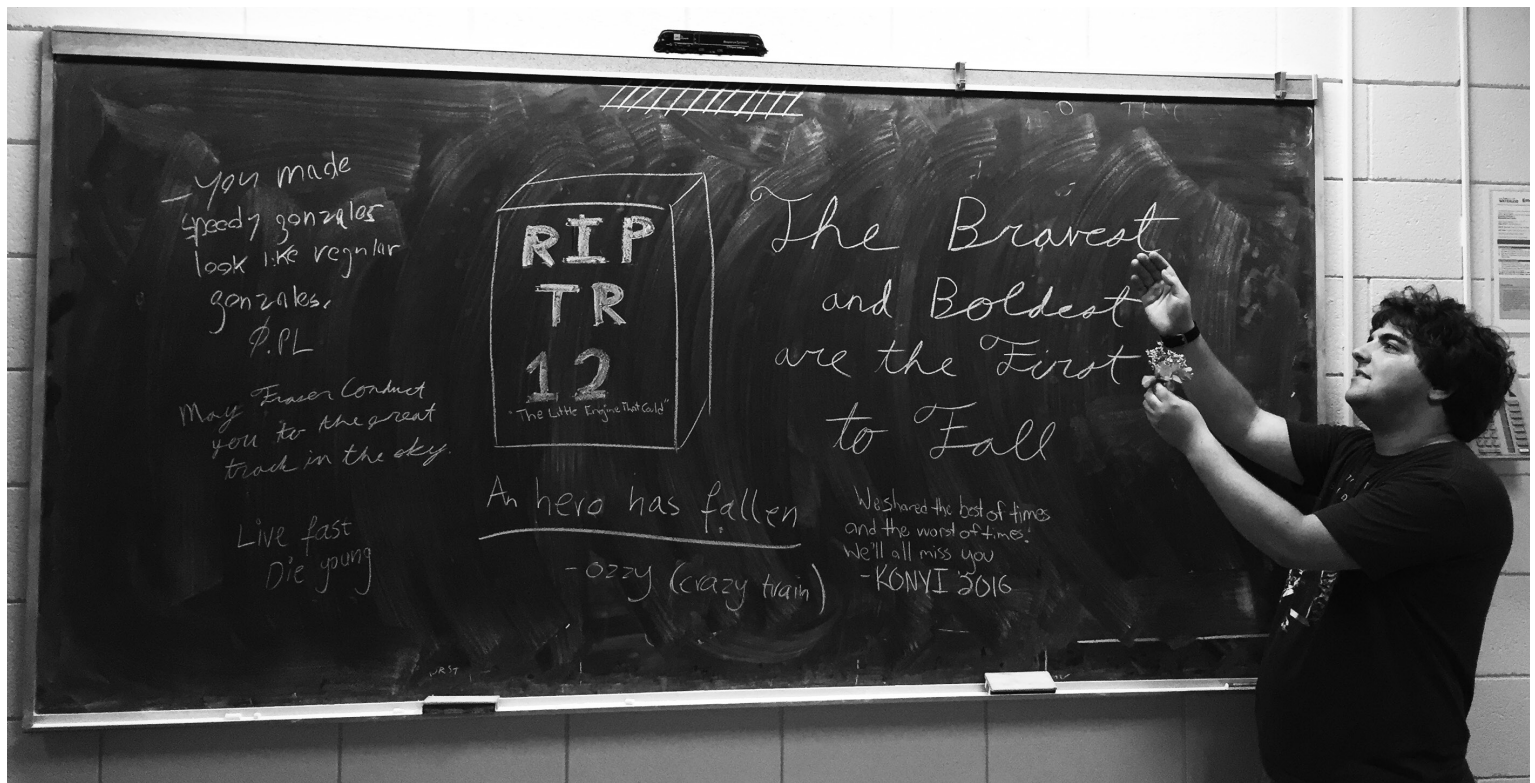
“You fall asleep face down on a chalk-covered couch every morning”

“You are beautiful and sticky.”

“Real coke taste, zero calories. That’s what the commercial says.”

“People keep saying that the real time lab is an insane asylum. But we all come here voluntarily and one of the antirequisites of insanity is questioning your sanity. Therefore, we are all unquestionably sane.”

Trains Lab & Friends



PR Now Free

The radio crackles with suspected positions of American troops. Checking my map, it was only 2 blocks over from the freeway we were working on. I radio back that our squad will move over to engage once we were done here. Turning back to my ragtag warriors, I urge them to hurry and finish placing their mines and IEDs. With the road now effectively denied to the enemy, I mark my map and radio in one final warning to avoid the freeway in this area. Their work done, my little band of fighters start to gather around me and ask what our next task. I tell them to follow and explain as we jog to the expected enemy positions.

... Spread across multiple roofs inside the block, both us and the Americans were having a bad day. Attempts to close the distance had only led men into ambushes. With a dozen dead on our side, and who knows how many on the other, it looked to be a stale-mate. Then the American APC showed up. Suddenly our rooftops were sprayed with automatic grenade launchers and heavy machine guns. We threw smoke grenades and rocks at it, but the damn thing was not fazed. I pulled up the radio, for the last time, and called in the position of this metal beast.

Calling out to all our survivors to retreat, I rush down the stairs onto the street, and emerge, turning quickly to go into the alley between the buildings. That is when I saw the dump truck coming. That is when I knew there was no way to survive, either for me and mine, or the Americans. It was barreling down the road and was only noticed by the APC when it was too late. It tried to shoot the approaching vehicle, and although the truck was close enough, the driver detonated the pile of artillery shells in the back. Everything in that block was obliterated.

Project Reality is a standalone game (previously a mod) for Battlefield 2. Expanding the modern-day setting of BF2, PR introduced new mechanics such as forward-base building, limited specialist kits, separate driver and gunner positions in vehicles, 100 player servers, and integrated local, squad, and inter-squad voice-communications. The idea was to make the then-popular BF2 more realistic, and I think it has done the best it could with the engine.

Whether it is on one of the large 2km×2km maps with the Advance And Secure (classic BF2 capture points) game mode, the small village-sized skirmish maps, or playing on one of the Insurgency maps (my favourite as you might be able to tell), there is plenty to enjoy. With additional mods inside the mod, such as WWII, the Falkland War, and Vietnam battles, there is almost too much for one mod to contain.

If you like tactical FPSes and want to work as a team, consider getting the free and standalone PR launcher from `realitymod.com` and visit the forum if you are unfamiliar with the .ISO file you will download. Alternatively, look towards Squad, a spiritual successor to PR, made by old developers from the project and available on Steam for a one-time purchase (warning: still in Alpha). No matter what you choose, there will be steep learning curves so quickly learn how to communicate, be prepared to suck for a little while, and try to practice what you can when not engaged in combat. (But avoid learning to pilot aircraft unless you are playing in an empty server; it is hard and the team will *NOT* be happy with you crashing their only helicopter.) I hope to meet you on the battlefield soldier; may medics always be nearby.

Soviet Canadian

N Reasons Why Spring Term is The Best

Pie-Off Results and Addenda

The Pie-Off took place and it was not a failure! In particular, I finished making the chocolate mousse pie with coconut whipped cream. Success! The whipped cream was successfully produced using coconut cream powder, similar to a previous attempt using coconut milk powder.

However, I believe I botched the backstory to the pie-off: my opponent had made a pumpkin pie (a different recipe), and I had made apple, as opposed to both of us making apple. Whoops.

The voting scheme for the pie-off was as follows. The ballot had two questions: which pie is better, and what bias do you have? Any votes cast with bias were not counted. And as per expectation, the grandmother's-homemade-pumpkin-pie recipe won out, 6.5 to 3.5 votes (someone checked both boxes).

I'm mostly not disappointed; it was a homemade recipe, and she said that she would've voted for my pie, had we voted. So this is fine. Really, the best pie was "chocolate mousse on top of pumpkin", sooo... Everyone was a winner!

- Patio eating
- Patio studying
- Free BBQ events
- Fewer people on campus—ergo, shorter Tim's lines
- It's hot—also a con
- Walking outside
- Not being late trying to figure out the tunnels
- The profs are slightly nicer—or maybe that's my imagination or the summer talking
- Not having to shed 3 layers for my 50 minute class and redressing afterwards for my 20 minute walk in the snow that's actually supposed to be 10
- Being productive over the summer when everyone else is sitting at home trying to find jobs
- Leaving my 6 o'clock class without having to carry around a flashlight
- Utilizing all the outdoor seating UW has to offer for 1/6 of the year
- Amazing subletting prices
- Feeling the wind between my notes

Scythe Marshall

G-UNIT

Top N Feds Conspiracies

Last week, tremors shook the UWaterloo campus to its very core. Not literal tremors, of course, the campus wasn't hit by an earthquake, but figurative tremors, when it was revealed that Imprint lost the office in the SLC they had used for the past 37 years. Most students were rendered aghast with shock as they read the news, forcing the Campus Response Team to treat several hundred students for the following: low blood pressure, restless leg syndrome, heart attack, bowel dysfunction, the Black Death of 1666 (scientists checked, it's the exact same strain... somehow), and the French Revolution. Several questions lingered on students' minds as they were rushed to the hospital: "Why is this happening?", "What is Feds thinking?", "Where is my mommy?", and most common of all, "Why didn't this happen earlier? It's about time."

Imprint followed up this bombshell by accusing Feds of conspiring to kick Imprint out of the SLC in retaliation for those young, scruffy rebels at Imprint bringing the student populace the inside scoop on Feds' secret backroom dealings, transcribing their maniacal laughs for every student to read. How else would students have discovered Feds' secret plan to spread Swank, a drug ten times more addictive than marijuana, throughout the University of Waterloo campus. So, in honor of Imprint, the only independent, student-run newspaper on campus*, I am delivering the scoop on the biggest conspiracies Feds have ever been a part of to you students.

1. **The Bus Pass Referendum:** This may come as a shock to you, but Feds was involved in the recent referendum to keep students from paying more in order to use their WatCards to pay for transit. Never before this did we know that Feds was responsible for this huge conspiracy that sent shockwaves (figurative, not literal) through the municipal government of Waterloo. We as students must rise up against this Feds conspiracy, as we must do for their relocation of Imprint, and have these sinister plans brought down and make things happen as they would have without Feds' interference.
2. **The Senate Scandal:** Those familiar with Canadian politics will know of the scandal currently involving our Canadian senate, with multiple senators being accused of misusing taxpayer dollars. What is not known, however, is that Feds was behind it all (much like Palpatine). They used their power to convince our senators to spend money on frivolous things. Isn't it strange that Feds ended up getting money during the time the senators are accused of misappropriating funds? Coincidence? I think not. And I think it is important that the student body learns of the terrible behaviour Feds is involved in.
3. **The 2022 World Cup Going to Qatar:** Never mind, not even Feds is corrupt enough to do this. Apologies to Feds, you're not FIFA.
4. **The Ascension of Tricratic Knights at the Vernal Equinox:** As we approach the Vernal Equinox, the time of true societal change, I find it my duty to reveal to the student body of the

massive conspiracy going on involving Feds. As revealed through clues hidden inside the paintings of Caravaggio, only discovered by super-imposing the works *The Calling of Saint Matthew*, *Bacchus*, and *Basket of Fruit* onto Andy Warhol's *Green Coca Cola Bottles*, and a 10 minute video of Christian priest Hans Neumersmits' exhumation, Feds is involved in a massive worldwide operation, along with companies such as Wal-Mart, J.P. Morgan, The New World Order, The Old World Order, The Knights Templar, EngSoc (since they didn't want to be left out), Pizza Nova, The Beer Store, The Montréal Canadiens, and 12% of the city of Calgary. Along with these other shadowy groups, hidden in the shadows, they plan to use the Dark Light of the Hegemony to unlock the Vilyvian gates in the ancient city of Vienna, in order to discover the secret of Jesus' cat. With this knowledge, they can unleash rational pi, the non-infinite ratio of circumstance to diameter, causing all mathematical equations to merge into one, and giving control of the world to THEM.

5. **The Assassination of JFK:** With their superior mathematical skills, and the ancient knowledge unlocked through the previous conspiracy, time has become non-linear, and thus, giving Feds the keys to the past. With their newfound ability to travel through non-time, the negation of time that permits infusion into the multi-earths, they have changed the past in a major way. In 1963, the original timeline had JFK living past his visit to Dallas, allowing him to become the first man on moon in 1969. This led to the freedomization of space, which put events on a path that led to Feds receiving a funding cut in the original 2015, a future ravaged by death and nuclear warfare, where humanity makes their last stand against the Machine, or as we call it in this world, Detroit. In response, Feds went back in time to assassinate JFK to save themselves. If one looks at the initials of JFK's assassin, Lee Harvey Oswald, LHO, if one converts these letters to binary, then add 3 to each one, then multiplies by the constant of universal vibration, one gets the letters FED. Since Oswald didn't make the shot alone, but was assisted by three other Oswalds from alternate universes, that would change the letters to FEDs, proving their involvement. Of course, there's also the fact that the Feds logo was etched into Oswald's gun, and when questioned, he said "I did this for Feds."
6. **Hawaiian Pizza:** Feds' most evil conspiracy was to commit the ultimate crime against the human race, creating the abomination that infests this planet known as Hawaiian pizza. [*The mathNEWS editors do not endorse this view. This person is clearly wrong. Hawaiian pizza is delicious.—GingerbrED*] Those familiar with pizza will know that Hawaiian pizza is a Canadian invention, created by an Ontario man, Sam Panopoulos. An entity that is also Canadian, and also based in Ontario, is Feds, proving their involvement without a doubt. No human being deserves to suffer Hawaiian pizza. A recent study proved that the most common human reaction to eating Hawaiian pizza is death by having one's stomach gain sentience, tear itself out of its host's body, and

How to Have Not Stupid Opinions:

Imprint vs. Feds vs. The World Edition

If you haven't been living under a rock for the past two weeks, you'll know that there's a bit of drama controversy going on between Imprint and Feds. Now there are three sides one can take on this issue; the first is simply not giving a damn. This is what I believe is the opinion of most students who heard about what was going on, seeing as most people don't seem to care about what Feds does to serve them, or what Imprint does to inform them. This is not a stupid opinion, but rather utter indifference to the whole issue; I guess it's okay, since you're not hurting anybody.

The second side one can take on this is the stupid side: being willfully misinformed. This would involve something along the lines of only talking to Feds exec and volunteers without ever reading an Imprint article about the issue, and simply believing that they have way too much space and that no one would really care if they were relocated. Another way to have a stupid opinion would be to only read the Imprint's opinion on their own space—information that can only be biased. Yes, they have been in their space for 37 years, but to call a possible relocation “an attempt to eliminate the one independent media source on campus that is holding [Feds] accountable to students” (Aliya Kanani, Imprint Executive Editor) might be a little extreme, especially since *mathNEWS* would probably talk about Feds more often if we weren't so busy making fun of Imprint.

So we reach the third possible opinion in this argument: the educated, informed opinion. Many people may not want to do this, because they'd have to endure twice the hardship: actually reading the Imprint, and actually listening to Feds exec (because there's no way Imprint's going to be covering the Feds side of this). Now the Feds side of this is a little trickier because they won't get the same media coverage, and because there's a ton of confidential information that they're not exactly comfortable in disclosing. But it's still possible to get two (possibly) rational sides of the story in order to have an opinion that actually matters.

So before you decide on joining the #TakeFedsBack Facebook event or something else seemingly absurd, educate yourself. And no, this article doesn't count as education about the issue, since there's a bunch that I know that I left out, for various reasons. If you care, you'll endure reading those Imprint articles, listening to the VPOF interview, visiting the Feds exec during their office hours (or at the very least emailing them), and reading the Feds blog about the issue. I'm still working on my opinion about this issue, which is leaning towards one side, but that doesn't mean I'll stop learning about the other side of the story.

Stay informed, mathies.

darshwanda

beating them to death with a baseball bat. As students, we must hold Feds responsible for this.

7. Removing the Text from Item #7
8. *mathNEWS*: I saw what you did, editors. You're trying to convince people that Hawaiian pizza isn't the worst thing ever put on this earth. Let me guess, you're doing this because Feds conspired keep the truth about Hawaiian pizza away from students? You're a disgrace. You're almost as bad as Imprint. Monsters. You MONSTERS!!!

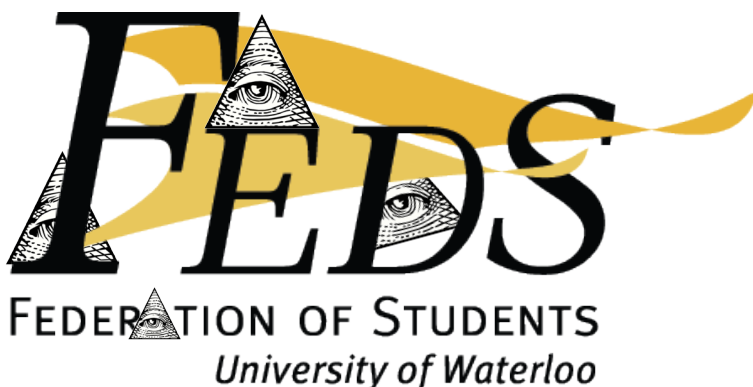
So, student body, how does it feel to have your eyes opened? How does it feel to know the shadowy stuff your student government is involved in? This list is only the beginning, I haven't even got into how Feds faked the moon landing on their secret film studio on Mars, or how they have successfully communicated with dolphins, in order to use them to find drugs on the bottom of the ocean lost thousands of years ago. Or perhaps I should mention their secret plan to control the human race with the help of the Gingers and the Lizard people. We must rise up against the tyranny that is Feds. We must save Imprint, the only independent, student-run newspaper on campus*, and destroy those who keep us down. Now is the time to rise up, students. Rise up, friends! RISE!!!

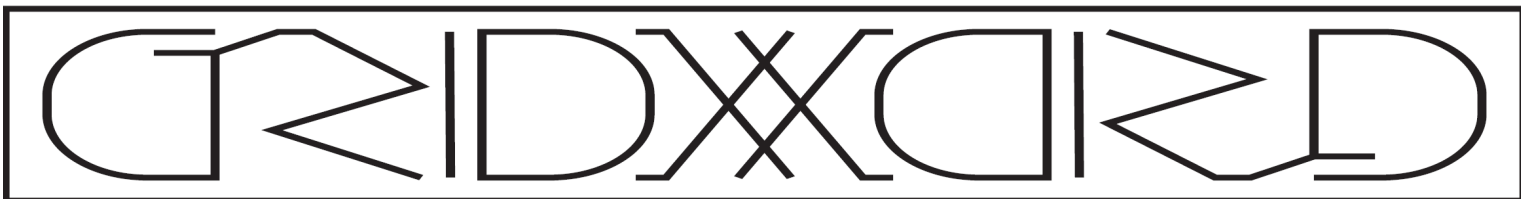
Theodore Bear

**No, it isn't. You don't actually believe this, do you? The only reason you'd think this is if you, you know, are an idiot, because mathNEWS exists, you FRAUDS!!!*

Feds Unveils New Logo

The Federation of Students has unveiled a new logo in wake of the recent scandal involving Imprint. Christos Lolas, President of Feds, told *mathNEWS*, "We feel that the undergraduate student body views us in a different way in wake of recent events. We wanted our logo to reflect that." Most students are confused by the subtle change, but this logo is already making an impact. Other student groups are willingly removing themselves from their offices in the SLC to make room for the sudden growth in senior leadership. Lockers in the SLC are being replaced with cryonic tubes because #FedsDoesThat.





gridCOMMENTS

Hello again, everyone! I vote that we never talk about the previous issue's *gridWORD* ever again. I am filled with shame.

The *gridQUESTION* was "What tool do you use most often?" and I had some great submissions, including an origami penis submitted by Mark Z. I wish I could give prizes for that and:

"My piece of equipment the keenest
A wonderful tool of sexiness
It works through the night
To my great delight
My most frequent tool, the pen is."
—MeaninglessQuips + PicoPanda

"My clitoris."—Emma McKay

But my favourite, and thus the prize-winner, is:

"The TI-30X II calculator. It's the only tool UW lets me use."
—Garrett Galvin

Remember to submit your *gridWORD* solutions in the **BLACK BOX** by the Comfy before **6:30 PM on July 20th**. This issue's *gridQUESTION* is, "How would you describe yourself?"

This Issue's Grid:

ConvolutED

1	2	3	4	5	6	7	8	9	10	11	12	
13				14					15			16
17			18						19			
20						21		22				
23			24		25					26		
		27	28					29	30			
31	32				33		34		35		36	37
38				39					40			
41				42				43				
		44		45		46		47				
48	49			50		51				52	53	54
55			56					57		58		
59					60		61					
62					63					64		
	65				66					67		

gridCLUES

Across

1. Puts the M in MC
5. American judicial circuit
9. Argentine coin
13. "Well, I think..."
14. Needy
15. Emblem of the resistance?
17. Element of level design?
19. Kilo- reciprocal
20. What "1" is
21. Malnourished
23. What this answer is
24. What I will never get again, after this grid
26. An OMG m2m standard for RTS's
27. Serve
29. What you must do to earn the right to complain about governing bodies
31. Cancel
33. Mouselike animal
35. Invitation request
38. Donuts
39. Vaults
40. Bakery employee
41. Changes
42. Steering wheel
43. Freight boat
44. Juicy fruit
46. Clots
48. It's a sort of suffix
50. Sure
52. 0.0001%
55. Cog
57. Squid kid
59. Not my forte?
60. Withdrawing
62. Nods
63. Stumble
64. Diehard
65. Just in case
66. Ambiguous cases in high school trig
67. #FF2400, #960018, #C24641

Down

1. Call of kitten in Britain
2. Organic compounds with nitrogen
3. What this answer is
4. Drifter
5. Optimistic
6. Have a bawl
7. What this answer is
8. Hippodrome
9. Citrus fruit
10. Qatari prince
11. What this answer is
12. Saw
16. Pitches in
18. Ill-suited
22. Jumps in headfirst?
25. They can be super
28. Go up
30. 5 Across issue
31. It gives out cash
32. Half of an injury
34. Theorem in a theorem
36. Edible plant
37. Historic leader?
39. He is like an onion
43. Prize
45. Demand answers
47. Arm muscles
48. Road trip game
49. Rant
51. Breathers
53. Genetic suffix
54. Darns
56. What 20-Across is
58. Despot
61. Holder of Twitter acct. @CIA



Send your *profQUOTES*, articles, questions to Stephen Watt, the bear, to mathnews@gmail.com or to the **BLACK BOX** on the 3rd floor of the MC!