thetech.com

Volume 136, Number 38



WEATHER, p. 2

THU: 47°F | 31°F

Mostly Sunny

FRI: 43°F | 33°F

Partly Cloudy

SAT: 47°F | 34°F

Partly Cloudy

Thursday, January 19, 2017

ANSELMO CASSIANO—THE TECH

A researcher tests an augmented reality device at AR in Action 2017, a summit held at the Media Lab Jan. 17 and 18

# Death and Mayhem

# Team won Mystery Hunt in 18 hours

By Isabelle Phinney

MIT's annual Mystery Hunt, a puzzle-solving competition, took place over Martin Luther King Jr. Day weekend. Ninety-seven registered teams competed to solve puzzles in order to find a coin hidden on campus.

Mystery Hunt is designed and run by the previous year's winning team so that no team may win two consecutive years in a row. The team "Setec Astronomy" took charge of this year's hunt and titled it "Monsters et Manus."

The hunt followed the general theme of the role-playing game Dungeons and Dragons. An evil being named Mystereos Cantos, an anagram of Setec Astronomy, possessed the Dungeon Master, imprisoning the players in the game.

The hunt could be completed without solving every single puzzle, which allowed both large and small teams to succeed. Puzzles were released in rounds, allowing teams who had not completed enough puzzles to progress and to still see and attempt most of the puzzles in the hunt.

Metapuzzles (metas) were divided into character, quest, and item categories. Solutions to individual puzzles in a round provided the components to solve the metapuzzle. The solution to a metapuzzle was in the form of a phrase. Once a team solved enough puzzles to figure out the solution to the metapuzzle, the team could unlock new puzzles or gain rewards.

Setec Astronomy designed 14 metas. Typically, puzzles and metas cover a broad range of topics but often include themes of MIT culture and history. This year's metas required knowledge of chemistry, Shakespeare, and musical modes, among other things.

For example, the solutions to the individual puzzles in the Despondent Dynast metapuzzle were words whose letters could be arranged into

winning hands, sans one letter, of the Chinese game Mahjong. The missing letters spelled out the solution, "Find a fourth."

Because teams varied in size from nearly 200 to less than 10, with an average size of 30, the design team needed to write puzzles accessible and enjoyable to all teams. Setec Astronomy emphasized writing solvable puzzles, with average solve times ranging from 32 seconds for the puzzle "Fruitless" to 21 hours for "Tree Solve."

Generally, larger teams progressed farther into the game. Overall, 29 teams completed the character end game, which required solving all the character metapuzzles. Seventeen of these teams completed the entire hunt and found the coin.

The winning team, Death and Mayhem, took only 18 hours to find the coin, faster than that statistic's average over previous hunts.

Setec Astronomy also included personal interactions in puzzles and visited teams to help with puzzles and keep track of progress. Some metapuzzles needed to be completed in person at a specific location and involved interaction with Setec Astronomy members.

Mystery Hunt began in 1981 and brings alumni from all over the U.S. to participate. Setec Astronomy selected the theme in March of last year and put approximately 25,000 hours into designing and running the puzzla hunt.

Mystery Hunt's budget typically runs in the range of \$10,000. This year, sponsors included Empirical, an artificial intelligence startup; Jobcase, a job search company; and Your Move, a moving company. The hunt was also sponsored by and hosted on Amazon Web Services. In addition, the MIT Large Event Fund and the UA Finboard provided financial

Puzzles and solutions may be accessed at *solutions.monsters-et-manus.com*.

# Handful of MIT students to protest presidential inauguration in D.C.

At least a dozen MIT students are getting ready to protest the inauguration of President-Elect Donald J. Trump in Washington, D.C. this Friday.

In a meeting Jan. 17, a group of around 12 students shared tips on how to deal with tear gas, arrest, and digital surveillance. The overall sentiment was one of deep distrust of the police: "they are not looking to not arrest you," a participant said, to the laughter of the room.

A few international students also expressed concerns about effects that participating in a protest would have on their visa status.

Although they are helping each other with logistics and sharing information, the students will go their separate ways in D.C., rather than stay as a group.

—Olivia Brode-Roger

# Institute finalizes Volpe site exchange

MIT to develop 14 acres of land

By Emma Bingham

STAFF REPORTER

MIT and the U.S. General Services Administration finalized a \$750 million agreement on Wednesday that will give the Institute access to a 14-acre parcel of land near Kendall Square. In exchange, MIT will construct a federal building on the land.

The space is currently the site of the U.S. Department of Transportation's Volpe National Transportation Systems Center. It is located on Broadway across from the Marriott — a four minutes' walk from the Kendall MBTA station. It currently comprises two parking lots and six buildings, the most prominent of which is a tall office tower.

MIT has plans to redevelop the space, which will feature housing, retail, commercial office and lab space, and public gathering space.

President L. Rafael Reif said he envisions that the development will turn Kendall Square into a neighborhood with an "irresistible personality," where people want to "live, work and play."

Under the agreement with the GSA, MIT will construct a new fed-

eral building on four acres of the Volpe site. This is expected to take four years. Afterward, MIT will get access to the remaining ten acres.

The city of Cambridge's Kendall Square study, published in 2013, noted that the Volpe site contained "significant unrealized development potential."

The Volpe Center was built in the 1960s for use by NASA, but transferred to the DOT in 1970. DOT was seeking to modernize the facility, but there were no federal funds appropriated to do so. Instead, DOT sought an exchange partner who would help them build a new facility. In return, the partner would have the opportunity to develop what remained of the campus.

For the project to go forward, the value of the Volpe Center campus given to the exchange partner had to be equal to the cost of developing the new buildings.

Last November, the GSA selected MIT as its partner to redevelop the Volpe campus from among several entities that submitted bids.

MIT will use its investment funds for the expense. Development on the

Volpe, Page 2



ANSELMO CASSIANO—THE TECH

**IAP offers a do-it-yourself bamboo bicycle workshop** in which students learn how to design and build a bike. Bamboo is a renewable resource, growing as much as one meter per day.

#### IN SHORT

Choose to Reuse will take place today on the first floor of the Stata Center. Drop-off begins at 8 a.m. An MIT ID is required to attend.

To drop a class over IAP, submit an online Add/Drop form anytime before turning in the final assignment or taking the final exam for the class. You do not need to get advisor approval to

drop classes over IAP.

**Friday, Jan. 20 is the final deadline** to pre-register for spring classes. Submit by 5 p.m. to avoid the \$85 late fee.

To enter the 2017 MIT Integration Bee, stop by 4-153 for a 20-minute test between 4-6 p.m. Tuesday, Jan. 24. The main event will be held Thursday, Jan. 26 at 6:30 p.m. in 26-100.

Send news and tips to news@tech.mit.edu.

#### Live from D.C.

The Tech is going to Washington, D.C. Follow @thetech on Twitter for updates from the 2017 Presidential Inauguration and through the weekend.

## **GRT LIFE**

In the Sponge.

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## WHAT WE KNOW

The case against a Senior House stu-

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**THE BIGGEST EVER?**Giant Sudoku, giant Techdoku. **FUN, p. 5** 



## **STARS SING**

Animation mimics *Idol's* success. **ARTS**, **p. 4** 

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MIT had some.

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# Wet out West: rainy nor' easter possible next week

By Jordan Benjamin

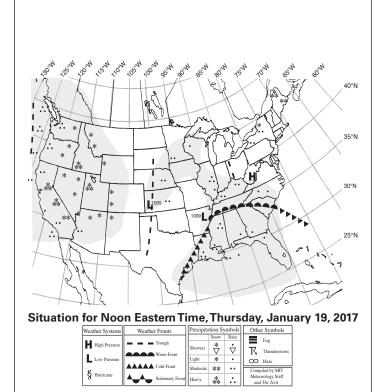
Across the region, relatively mild conditions will persist, with partly cloudy skies and high temperatures in the mid to upper 40s through the weekend as high pressure settles across the region. This calm period will not last long, however, as a powerful storm system is forecast to develop across the deep south over the weekend and move toward the Northeast early next week. Across the west, heavy rain and snow continue to pound the region; only 65 percent of California remains in a drought, down from 100 percent just three months ago. Incredibly, only 2 percent remains in exceptional drought, down from 21 percent and 42 percent three months and one year ago respectively.

This much-needed intense precipitation will continue in waves through early next week, continuing to bring drought relief, and across the Pacific Northwest, even some flooding concerns. In the deep south, record warmth will continue with intermittent chances for thunderstorms through the weekend. Over the weekend, a powerful low pressure system is poised to develop in the Southern Mississippi River Valley and move east, potentially bringing significant severe weather to the Gulf Coast region.

Early next week, the system will slide up the East Coast toward the mid-Atlantic and northeast. The potential nor'easter may bring heavy rain to the local region and possible snow inland, but it's too early to predict possible impacts.

## **Extended Forecast**

Today: Mostly sunny. High 47°F (8°C). Tonight: Partly Cloudy. Low 31°F (-1°C). Tomorrow: Partly Cloudy. High 43°F (6°C). Saturday: Mostly Cloudy. High 47°F (8°C). Sunday: Partly Cloudy. High 42°F (6ww°C).



# Student jailed for possessing weapons

# Attorney: no comment on judge's reasons for 'dangerousness' ruling

By Katherine Nazemi

EDITOR IN CHIEF

Angel De La Cruz, a student in Course 6 and a resident of Senior House, was ordered held without bail Jan. 13 for allegedly possessing firearms in his dorm room. De La Cruz is listed as a senior in the MIT directory, but entered MIT in the class of 2014.

Around 5:45 p.m. on Jan. 6, MIT police searched De La Cruz's room following a report that he may have had weapons in the dorm. De La Cruz, who is 23 years old and from Texas, was arrested after police allegedly found a pistol, a rifle, and ammunition that he was not licensed to possess.

An MIT counselor made the

report to police, The Boston Globe reported.

MIT policy prohibits weapons anywhere on campus. De La Cruz's attorney, public defender Bruce Ferg, told *The Boston Globe* that De La Cruz has been suspended from MIT and barred from campus.

At an arraignment held Monday, Jan. 9, De La Cruz pleaded not guilty. He was charged with two counts of carrying a dangerous weapon on school grounds, two counts of possession of a large capacity firearm, two counts of possession of a firearm without a license, possession of ammunition without a license, and improper storage of a firearm.

Under Massachusetts statute 58A, if a person is charged with certain crimes — including possession of high capacity weapons — a judge can move to hold him without bail. In that case, a "dangerousness hearing" is held.

According to that statute, to rule a person "dangerous" and keep him detained prior to his trial, a judge must find "clear and convincing evidence" that "no conditions of release will reasonably assure the safety" of the community if he were released. A person who is ruled dangerous may be held for up to 120 days.

De La Cruz was ruled "dangerous" on Jan. 13 by Judge Dominic Paratore. Ferg would not comment on which facts of the case led the judge to reach this conclusion, but said that a judge has "wide discretion" regarding what they consider. "Prior record, prior jail time,

and threatening conduct" could all be taken into account, Ferg said. De La Cruz had no prior ar-

rest record. A press release from the Middlesex County district attorney's office prior to the hearing said there was no evidence that any threats were made toward members of the MIT community, and that De La Cruz was not violent when confronted by MIT police.

Jay Scheib, head of Senior House, and Sarah Melvin '18, president of Senior House, did not respond to requests for comment.

De La Cruz will return to court on Feb. 13 for a hearing, where the prosecuting lawyer will be Assistant District Attorney Raquel Frisardi.

# New space to feature housing, retail Reif envisions a Kendall Square with an 'irresistible personality'

## Volpe, from Page 1

site is expected to provide income for MIT in the future in the form of lease payments.

'It's important to understand that the agreement we signed today will be paid for entirely with MIT's investment funds, just as if it were a purchase of stocks or oonds," Reif wrote in an MIT-wide

The MIT Investment Management Company, which handles MIT's real estate, will oversee the

The redeveloped campus will be "mixed-use," featuring housing, retail, commercial office and lab space, and public gathering space. New roads will also be constructed through the block to connect different parts of the Kendall Square area. In accordance with Cambridge city ordinances. MIT will ensure some affordable housing.

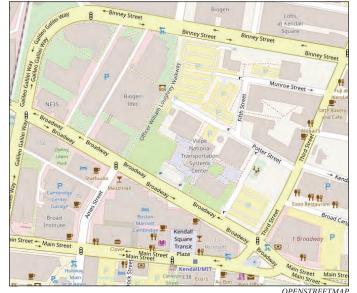
Both MIT and the city of Cambridge have appointed Volpe Working Groups to work on

the re-zoning plans for the Volpe campus. MIT's group, chaired by Steve Hall, professor in the Department of Aeronautics and Astronautics, will also include professors from the departments of Architecture and Urban Studies and Planning. Cambridge's group includes residents of East Cambridge, Cambridgeport, and Wellington-Harrington, as well as other relevant community members, such as representatives of Kendall Square businesses.

In an email to the MIT com-

munity, Reif emphasized MIT's commitment to the Kendall Square community and the city of Cambridge, saying "it is now clear that [MIT's] future success depends on making sure that Kendall succeeds as a place... a place that makes our city stron-

MIT will hold two community eetings Feb. 9, at noon and p.m., to discuss more details and answer questions about the redevelopment plans for the Volpe



The 14-acre Volpe campus lies across from the Marriott.

## CORRECTIONS

An article published Oct. 19 incorrectly stated Ru Mehendale's class year. Mehendale is in the class of 2017, not the class of

# Solution to At the U.N. GENERALASSEMBLY OWNS LABELS ECURITY COUNCIL RAS SHEARS IRE

# HAIRRAISING AIRMENBERNIE ESSBOLOGNA JAWDROPPING

Solution to Locked Out

# My best decision at MIT

## The fulfilling adventures of GRT life

John Arroyo, Simmons Hall

There was the time one of my sophomore students asked me for advice on where to have a nice — but affordable dinner on a first date. There was the email from a first-year student who thanked me for lending an empathetic ear after his first tough, post-PNR exam. There was the birthday card a current student slipped under my door that read: "Happy Birthday, John! You created a family for me when I needed one." And there were the homemade dumplings a former student saved for me because she remembered I missed out on her family's delicious recipe. These are just a few of the memories that come to mind when I think about the special undergraduate students that fulfill my experience as a GRT at Simmons Hall.

I was certain the MIT chapter of my life had concluded in June 2010 when I graduated with my master's from Urban Studies and Planning (Course 11). However, my search for a new professional adventure resulted in large questions about society, identity, policy, and urbanism - unanswerable questions without further education. In 2013, I returned to MIT to begin my doctoral studies. Readjusting to the rhythm of academic life at MIT made me realize that a productive research agenda was not enough to carry me through my time here. Meanwhile, I developed a fond interest in the two other pillars of higher education: teaching and student support. I became motivated to expand my community of like-minded individuals beyond my department and across MIT.

## I was missing a venue for sharing my experiences with students beyond the classroom. I have not had a typical life.

Opportunities to serve as a Course 11 instructor or to present guest lectures at local area colleges confirmed my love for teaching. I enjoyed helping a new generation think critically about cities and their roles within them. Like many of my peers in applied social science doctoral programs, I possessed a wealth of life experiences: over a decade of full-time employment, significant travel and exposure to diverse cultural settings, leadership service to local and national organizations, and the lessons I learned from my own ups and downs in life over the last 36 years. What I was missing was a venue for sharing my experiences with students beyond the classroom.

I have not had a typical life. I grew up in an immigrant Mexican and MexicanAmerican/Chicano family in East L.A., one of the poorest neighborhoods in the U.S. From a dearth of public space to cramped, substandard housing and schools, my firsthand experiences with these complex challenges eventually ignited my interest to understand the relationship between social equity and urban planning, as well as design practice and research. Despite an interest in leaving my familial and financial challenges behind - my father was not around, and when he was, it was unsafe to be around him — heightened circumstances derailed my escape plans to attend college in another part of the country.

# I grew up in an immigrant Mexican and Mexican-American/Chicano family in East L.A., one of the poorest neighborhoods in the

I made my decision to stay, local work in my favor. I excelled in my journalism and urbanism studies in a top national program. I finally had the time to explore what I already knew about myself - and discover what I didn't - after several academically rigorous high school years. And while I never spent much time on my own campus, I met a wonderful group of music loving friends attending other area schools. Somehow I balanced making new friends and schoolwork with working three jobs to afford school. I had caretaking responsibilities with ill family members. I became a commuter to save money. I came out as queer a week before my 18th birthday. I struggled (alone) with public discrimination on account of that decision. I started my first serious romantic relationship. I had my first heartbreak. I was mugged at knife point. I got my first "C" on an exam. I managed publicity for the college radio station. I made the dean's list. I got into a car accident. I had a falling out with a close friend. My dog died. I reunited with that close friend. I learned what it feels like when someone is unfaithful to you. I won several prestigious awards. All of this and more occurred during my freshman year.

My mom's work as an elementary school teacher in East L.A. taught me that students may not always remember your classroom lessons, but your life lessons have the potential to make an indelible mark - and I have lessons to share. She made me see that teaching and student support should go hand in hand. I thought about this in December 2014, when I saw

a flyer announcing GRT applications in Lobby 10. I recall thinking about my own undergraduate experience, and how I would have benefitted from having a support system in my first-year dorm - especially if that was someone I could relate to from a minority perspective. I thought of my intersectional identity, and how any of the problems I faced long ago may be an MIT undergrad's current problem, Having time away from MIT gave me perspective. The more time I spent at MIT, the more I witnessed the Institute's critical need to recruit and retain underrepresented students, faculty, and administration at MIT across all levels.

After we submitted our application, my partner and I began to receive invitations to attend study breaks and student or house team-led formal panel interviews at various residence halls. I remember not knowing the exact number of windows at Simmons Hall (but being close!). I remember being asked to offer solutions to scenarios about typical roommate conflicts. Months would fly by before my partner and I were printing a fun poster to announce our first All Freshman Mandatory Section Meeting. Would the students like us? How quickly could we remember all their names? What's good study break food for vegetarians? Which class is 8.01 again? These are just a few of the questions that ran through our heads during our first week.

The more time I spent at MIT, the more I witnessed the Institute's critical need to recruit and retain underrepresented students, faculty, and administration at MIT across all levels.

These days, I often feel like the mayor of a small town when I walk down the Infinite Corridor. It's virtually impossible to not get at least one smile, wave, hug, or highfive from a current student in my section, a former student in my section last year, a Residential Life Area Director or another wonderful staff member behind MIT's extensive menu of student services, a fellow GRT (at Simmons Hall or a new friend I made during GRT training in August), or from the dedicated janitorial, maintenance, or food service staff across MIT's dining halls. Peers often ask me "How do you know so many people across MIT?" My answer is as steadfast as it is simple: "Be-

Discovering oneself is a constantly evolving exercise. As elements of our identity shift, so does our search for communities that ensure we are welcome, safe, and valued members. I still laugh out loud when I think about a student's recent impression of the viral "Sexy Sax Man Careless Whisper Prank featuring Sergio Flores" YouTube video. It still warms my heart to remember when a student took the time (during the end of the semester) to express collective concern about a close friend going through a difficult period with their extended family back home. I appreciate when students in the dining hall say, "Maybe you're right, John. Money isn't everything. You make me think about trying to do something bigger than me when I graduate." While I am proud to be a GRT at Simmons Hall, a similar, special sense of community resonates among our neighboring house teams across campus.

**Discovering oneself is** a constantly evolving exercise. As elements of our identity shift, so does our search for communities that ensure we are welcome, safe, and valued members.

It's no surprise that the PhD grind can get the best of you. When it does, it's fulfilling to know you serve a tangible purpose that's bigger than your general exams, dissertation, or lab work. College is one of the most formative and transformative years in a student's life. It is a space where one learns (about academics and about oneself), takes risks, and challenges boundaries when necessary — all while having fun. A healthy balance between each of these aspects is made possible at MIT with various support systems at undergraduate residence halls and throughout campus. GRTs are an integral part of this network. We exercise warmth and patience, make the time to express genuine interest in what undergraduate students have to say, and are kind and thoughtful. While I may not always have an immediate answer or perfect solution when students come to me for help, one thing is certain: becoming a GRT was the best decision I made at MIT.

For more information about becoming a GRT, visit beagrt.mit.edu.

Editor's note: this is a series of articles written by various MIT Graduate Resident Tutors (GRTs) about their experiences.

# DID YOUR MIT ESSAYS **GET YOU IN?**

The Tech is collecting successful application essays (hint: yours!).

> Email your pieces to cl@tech.mit.edu or come for dinner at *The Tech*, 6 p.m. Sunday in W20-483!

#### **MOVIE REVIEW**

# Oh great, another singing competition

Matthew McConaughey and Seth MacFarlane are two of many voices in Sing



ILLUMINATION ENTERTAINMENT AND UNIVERSAL PICTURES

Matthew McConaughey stars as dapper koala Buster Moon, who presides over a once-grand theater that has fallen on hard times, in the event film Sing from Illumination Entertainment and Universal Pictures.

# By Tara Lee

A decade ago, American Idol hit its peak (yes, it's really that old), but even after that craze died down, other singing competitions took its place. America's Got Talent (which is practically a singing competition) and The Voice became America's new obsessions, and it's because these hit reality shows have perfected the formula: find a pool of talented singers, pit them against each other, tell viewers their backstories, and make viewers emotionally attached to these competitors.

Illumination Entertainment's latest animated film, *Sing*, is jumping on the singing competition train, following the journey of theater-owning koala Buster Moon (Matthew McConaughey) as he tries to revive his theater's financial woes by staging a city-wide singing competition. After a set of auditions, the selected competitors are

a loving mother pig Rosita (Reese Witherspoon), an arrogant mouse Mike (Seth MacFarlane), a shy teenage elephant Meena (Tori Kelly), a punk-rock porcupine Ash (Scarlett Johansson), and mobster son gorilla Johnny (Taron Egerton). From there, the plot chugs along predictably as they rehearse, and the film focuses in on the lives of the individual competitors in between scenes about their preparation.

And that's exactly the problem — with five competitors, there's only so much backstory and character development that can be given to each within the 110 minute runtime. It was so close to that perfect formula for a riveting singing competition. It just couldn't check that last box — make viewers emotionally attached to the competitors.

The characters were terribly cookie cutter in their stereotypes. Porcupine Ash was nothing more than an angsty young guitarist jealous over her ex-boyfriend's new flame. Meanwhile, pig Rosita was just a stressed out mother, and the film really pushed this characterization by giving her 25 kids and a workaholic husband.

I wish that the film zeroed in on just one or two of the characters, so that they were more than just a single adjective. There was definitely the potential, but the film spread itself too thin by shallowly peering into the lives of too many characters.

Perhaps this was a result of the star-studded cast, and the producers wanting to give all of these famous voices their fair share of time. The singing was phenomenal, and Seth MacFarlane's crooning melodies were the acoustic equivalent of champagne. Later in the film, Tori Kelly's powerful rendition of "Hallelujah" gave me goosebumps.

Nevertheless, *Sing* has its cute jokes, and some hilarious moments of pure slapstick comedy. For kids, it's a fun two hours of animated animals singing and poking fun at each other, but for the older crowd, you

should probably stick with the tried and tested TV singing competitions for your own entertainment.

\*\*\*

Sing

Directed by Garth Jennings

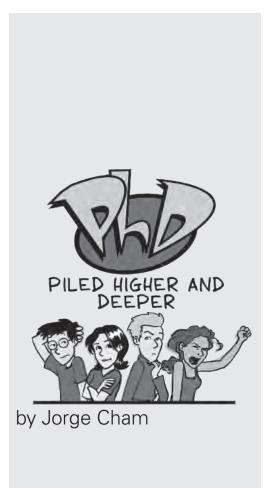
Starring Matthew McConaughey, Reese Witherspoon, Seth MacFarlane

Rated PG

**Now Playing** 



Thursday, January 19, 2017 THE TECH 5



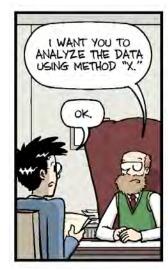








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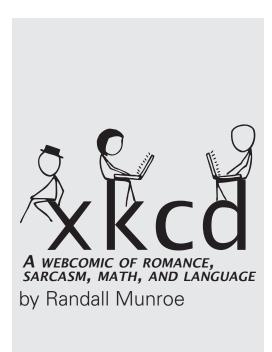




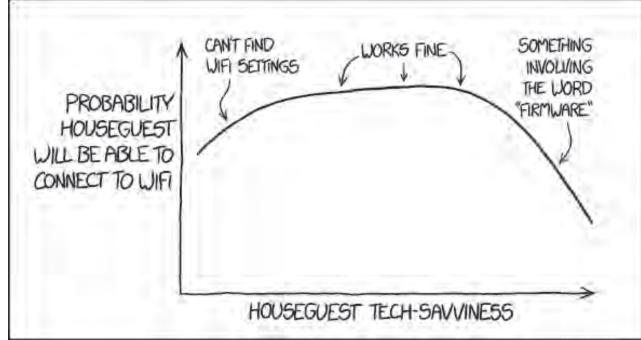




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[1785] Wifi



Further out to the right, it works correctly, but the reason it works still involves the word 'firmware.'

## [1786] Trash



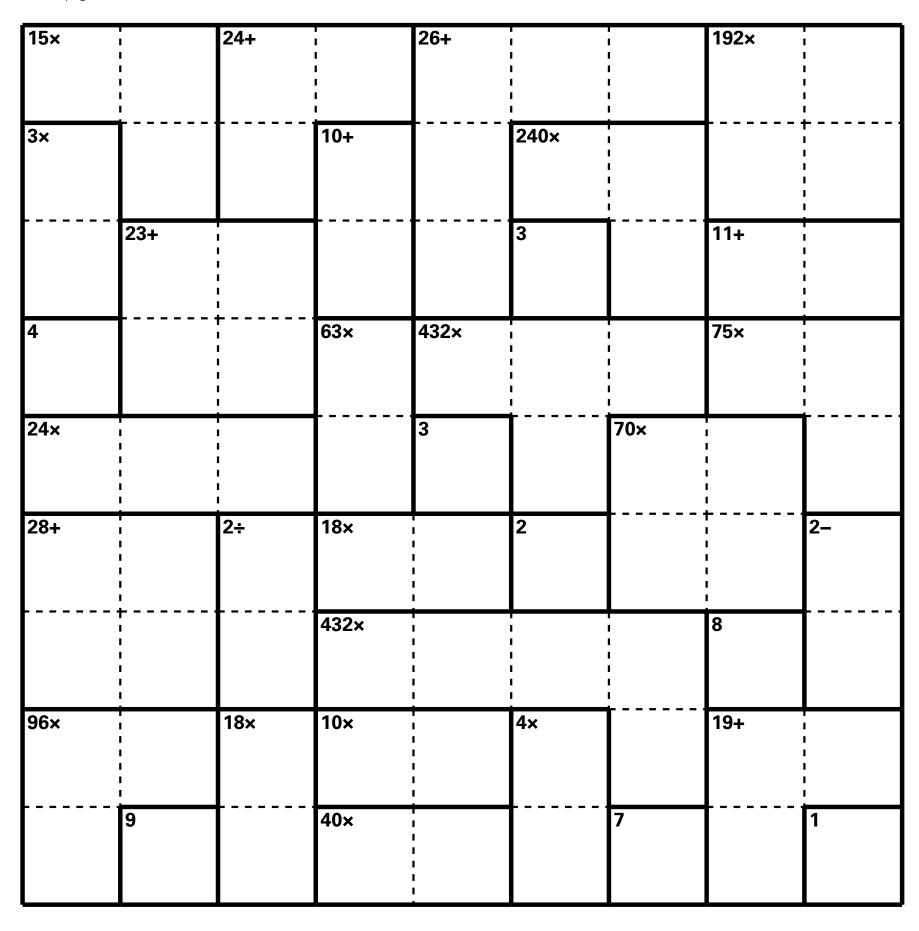




Mountain to see if they're interested in a partnership.

Plus, time's all weird in there, so most of it probably broke down and decomposed hundreds of years ago. Which reminds me, I've been meaning to get in touch with Yucca

# Inauguration



Instructions: Fill in the grid so that each column and row contains exactly one of each of the numbers 1-9. Follow the mathematical operations for each box.

# At The U.N. by Charles Slack

Solution, page 2

## **ACROSS**

- 1 L.A. clock setting
- 4 New Cub Scout
- 10 Tiny bit of water 14 Wolfed down
- 15 Reluctant 16 Nebraska neighbor
- 17 U.N.'s all-member body
- 20 Holds the deed to
- 21 Mailing stickers
- 22 Remove frost from 24 Spilled the beans
- . 29 Web pop-ups
- 30 Thoroughfare
- 34 Greet the day 35 Universe creation theory
- 38 NBA broadcaster
- 39 U.N.'s executive body
- 41 Competent
- 43 Sodium or sulfur
- 44 Lathered up
- 46 Stitched
- 47 Get-up-and-go
- 50 Stressful spot 53 Part of an act

- 55 In the thick of 59 Poker payment
- 60 U.N.'s peacekeeping body
- 65 Some nest eggs, for short
- 66 Large scissors
- 67 III temper
- 68 Reduce, as expenses 69 Pulpit presentation
- 70 Was ahead

#### **DOWN**

- 1 Chinese temple
- 2 Simmered slowly
- 3 Court sport
- 4 Tavern
- 5 Elliptical shape
- 6 Dracula portrayer Lugosi
- 7 Lobster cousin
- 8 Selling point
- 9 Electric auto company 10 Poorly lit
- 11 Burglarize
- 12 Big-eyed bird 13 Pick up the check
- 18 PC bailout key

- 19 Are, in Argentina 23 Guitarist Clapton
- 25 Pick up the check
- 26 Roster
- 27 Sixth sense, for short
- 28 Cozy room
- 31 Folklore monster
- 32 Brother of Cain
- 33 Goes out with 35 Microwave oven sounds
- 36 Designate
- 37 Got taller
- 39 Wooden strip 40 Rural hotels
- 41 Volcanic output
- 42 Derisive shout
- 45 Wine vintage
- 47 Sharpener insert
- 48 All-inclusive
- 49 Removed rind from
- 51 Not quite right
- 52 Church donation
- 54 Tuna container
- 56 Textile worker 57 Shell game
- 18 19 17 20 22 25 | 26 | 27 29 30 31 32 33 38 39 40 41 42 43 44 46 45 47 | 48 | 49 53 54 50 51 52 55 56 57 58 59 60 |61 |62 |63 65 66 67 68 69 70
  - 58 Matador adversary
  - 60 Drink daintily
  - 61 Historic time
- 62 Airport rental 63 Put to work 64 Admirals' org.

# **Doomsday**

Solution, page 8

2					4		7	9
5	8		7	2		6		
						5		
1	9						6	
	2		6		8		4	
	4						1	3
		4						
		2		3	5		9	7
7	5		2					6

Instructions: Fill in the grid so that each column, row, and 3 by 3 grid contains exactly one of each of the digits 1 through 9.

# Locked Out by Carolyn Stewart

Solution, page 2

#### **ACROSS**

- 1 Stumbling block
- 6 Casino conveniences
- 10 Van Gogh's sibling/ supporter
- 14 Fields of study
- 15 Tap trouble
- 16 Crescent tip
- 17 Comment to a role model
- 20 Metric measure
- 21 Unconvincing
- 22 Rack up
- 23 Declassify
- 25 Clothier concern
- 27 Family nickname
- 30 Porto italiano
- 34 Maneuvered for advantage
- 38 Indy Jones phobia 39 Mideast's Gulf of \_\_
- 40 Distress
- 42 French bank
- 43 Superficial appearance 46 Stigma
- 49 Late bloomers
- 50 Where Heyerdahl went to school

- 51 Liqueur flavor
- 53 Novelist Cross
- 58 Early bloomer
- 61 Very narrow margin
- 64 Dubbed ones
- 65 What's keeping me locked out
- 68 The bulk
- 69 Excited about
- 70 Party leader
- 71 Pantry visitors
- 72 Fume 73 People asked for readings

#### **DOWN**

- 1 Short verse
- 2 Australian naturalist 3 Small ducks
- 4 Fishing gear of a sort
- 5 TV marketplace
- 6 Fantastic Four star
- 7 Spill over 8 Menfolk
- 9 Cold-weather runner
- 10 Tourist draw
- 11 DC collegian

- 12 Aphrodite's boy 13 Tedious task
- 18 Assuage 19 East of Eden director
- 24 Oaf
- 26 Ending for sit 28 Chapel fixture
- 29 Iberian sauce
- 31 Steinbeck character
- 32 Tax assessment
- 33 "That's it" 34 Web language
- 35 Lines of admiration
- 36 Phased-out Canadian
- coin
- 37 Metaphor for childhood
- 41 Half-square shapes 44 Set upright
- 45 Where Jacob Zuma is pres.
- 47 Cellphone feature
- 48 Ending for sit
- 52 Savanna grazer
- 54 Help-desk sign 55 Family member
- 56 Hot-air machine
- 20 21 23 25 26 27 28 | 29 31 |32 |33 34 |35 |36 |37 38 39 40 42 43 46 49 50 51 54 | 55 | 56 | 57 53 61 62 63 58 | 59 | 60 64 65 66 68 69 70 72 71 73
  - 57 Biblical beasts
  - 58 Capital south of Quito
- 59 Revered figure 60 Ultimate
- 62 Opposite of pro-
  - 63 Revered figure 66 Minor misstatement
    - 67 "That's it"

8 THE TECH Thursday, January 19, 2017



#### SPORTS BLITZ

Men's basketball (11-3) rode a second half surge to defeat Springfield 78-59. AJ Jurko '19 led the team with 24 points. Women's basketball (12-3) edged Wellesley 47-44 in a

nailbiter. Kara Holinski '19 led the Engineers with 18 points. Men's swim and dive (8-1) defeated Tufts 194-106.

Women's swim and dive (7-3) defeated Tufts 195.5-104.5. Squash (11-2) defeated Haverford and Northwestern with identical margins of 7-2.

#### Solution to Doomsday

2	1	6	3	5	4	8	7	9
5	8	9	7	2	1	6	3	4
4	7	3	9	8	6	5	2	1
1	9	5	4	7	3	2	6	8
3	2	7	6	1	8	9	4	5
6	4	8	5	9	2	7	1	3
9	3	4	8	6	7	1	5	2
8	6	2	1	3		4		
7	5	1	2	4	9	3	8	6

## Solution to Inauguration

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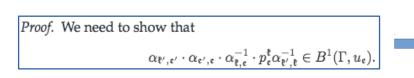
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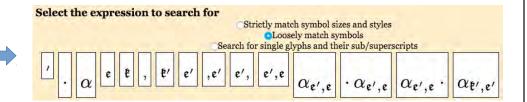
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> This proves both that  $a_Z(\bar{\lambda} + Y)$  is a 2-cocycle, and that the right square in the above diagram commutes, provided we take  $b_S$  to be the negative of the Tate-Nakayama isomorphism. Think about this more later Mark as key point Raise question now

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