

# THE SHAMROCK

MAY · 2024



# ANOTHER YEAR IN THE MAGAZINES

PHOTO BY JASPER HOLLAND

The summer is upon us once again. Just like every year, it somehow feels unexpected that it's here so quickly and at the same time like it could not have come fast enough.

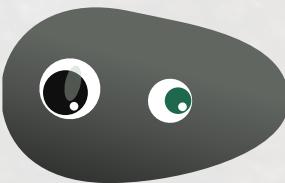
This time of year to me has always been characterized by contrasts: the stress of finals and projects alongside the relief of another semester's end, the buzz of activity alongside the easy relaxation, the buzz of new opportunities alongside familiar routines. Although we lay claim to spring as the season of Engineer's Week, there is a certain energy about the summer that feels very much in the spirit of The Shamrock.

In this issue (our longest yet!), we're bringing that energy in spades. We reflect on a few of the craziest moments in this past semester, such as when we determined the objectively best engineering major, when the moon passed in front of the sun, and when yours truly took an impromptu trip to Uzbekistan. Then, we look ahead to what this summer might bring.

Looking ahead, we have some handy info for those of you staying in town during the summer: activities to try and trails to hike. Maybe you're looking for a new hobby: our writers talk about a few of their favorite activities that scratch that itch that made them become engineers in the first place. Of course, Shammy returns to offer his wisdom, answering your questions on wide-ranging topics from finding jobs to hiding bodies.

If you're still looking for fun after all that, consult our classic horoscopes, crossword, and Puzzgrid, or try the all-new innovative gaming experience that we've been cooking up in The Shamrock labs: Choose-Your-Own Adventure Tic Tac Toe. And this is only a small selection of what you can expect in this issue. Our team has truly outdone themselves this time.

Finally, I want to mention that this will be the final "letter from the editor" that I sign. Next year, I'll be stepping down as president to help The Shamrock in other ways as I make room for a new president to take the reins and guide us even higher. As I leave, I want to thank you, reader, as well as everyone on the incredible team that have brought this magazine back into its own bizarre existence over the past two years. It's been incredible, and I hope you'll join me in looking forward to a triumphant return next year.



JASPER HOLLAND  
(AND SHAMMY THE ROCK)

# APPLES REVIEW

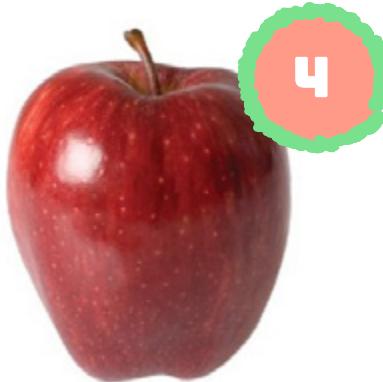
BRADY WALTERS



*I'm an apple enjoyer. I've been an apple consumer for almost my whole life. But I've never officially rated them all before. That changes today.*

**READ MORE ▶**

Like I said, I'm rating every apple product I can find (out of 10). I did turn out to be in a Walmart produce aisle when I started looking, but that's beside the point.



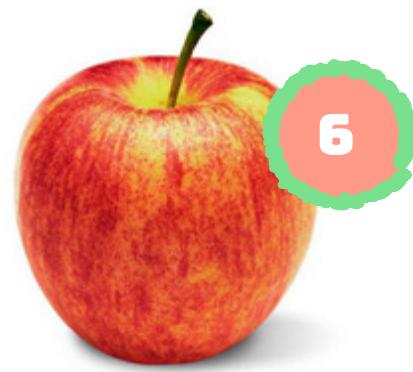
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## RED DELICIOUS

Middle of the road. The classic apple product. While it's moderately sweet and tastes like "apple," it's drawn back by the thick skin that is prone to getting stuck between your teeth and the odd sensation of dryness it leaves on your tongue. At \$1.37/lb, it's affordable, but there are certainly better options within the price range that you should spring for instead.

## GALA

The Gala, for example, is a pretty great substitute for the Red Delicious model. It has about the same sweetness, but also brings a subtle, fresh, tartness as well. Priced identically at \$1.37/lb, it's a no-brainer when compared to its "Delicious" cousin.



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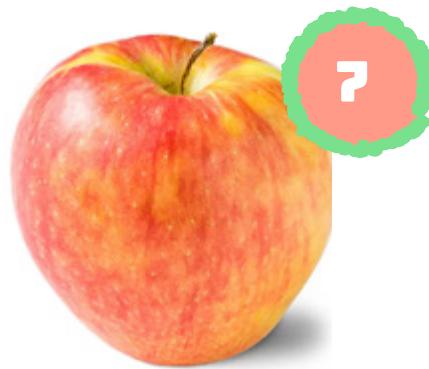
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## ENVY

While successfully creating a sweet crunchy experience, the Envy apple stumbles when it comes to its skin and especially its pricing. The skin is about 25% better than the Red Delicious, but that isn't enough to be considered thin. However, this may mean it lasts longer in a school lunch. While Envy strives to be "the ultimate apple experience" (that's real, look it up), the branding and trademark come at a cost to the consumer: a whopping \$2.12/lb.

## HONEYCRISP

It's big, it's bold, it's unapologetically itself. Describing the flavor of a Honeycrisp apple is difficult. It's a unique blend of sweet and tart that combines to form something nearly brand new. The skin is very thin, allowing for nice, juicy bites (that may go "squishy" if it's left out for too long). However, this variety has its drawbacks. The first thing your tongue may notice is a "soapy" flavor before the sweetness registers. It's also moderately expensive, at \$1.77/lb.



?

# AMBROSIA



This is the base model apple they design to convince you to upgrade to a better (and more expensive) model. It's thick-skinned, sandy, odorless, and frankly, flavorless. Although, I should clarify that there is, in fact, some flavor. It's like if you took a 95% water, 5% apple juice blend and let it sit in a pool full of rose petals for some reason. While it may be the cheapest on the list, at \$1.24/lb, it is not worth paying even that little for such a meager experience.

## PINK LADY

The Pink Lady doesn't lie, that apple was pinker than the rest of the bunch. This is weird. It's not bad weird, it's just weird. It's certainly a tart apple, something I do enjoy, but there's something else to it that I couldn't quite place. The best I can do is a tarter take on the Honeycrisp, though even that is pushing it a bit. The lower score is due to the softness of every bite, no satisfying crunch to be had until you get closer to the core. The skin is middle of the road, and so is the price, at \$1.64/lb.



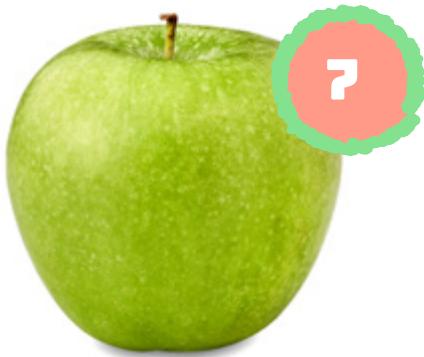
## FUJI



It's 2009 and you've just arrived at a family gathering. In an effort to promote healthy eating habits to you and the other kids, the snack table, stocked last year with Oreos, Ruffles, and those controversial frosted sugar cookies they sell in every grocery store, has been redesigned. Now, the baby carrots and apples seem to mock you all, a constant reminder of what once was. However, head held high, you go for an apple. You like most fruit, and you like baby carrots! Plus, the guacamole survived the slaughter, so you can at least pair some of the vegetables with that. You rip out a bite from the spotted red hide of the familiar fruit. But something isn't right. Your teeth seem to sink through the apple's flesh without a satisfying crunch. You nearly bite straight into the core as the taste suddenly hits your tongue. A wave of fear washes over you. The unfamiliarity certainly wasn't expected, but there's something more at play. Something sinister. This apple tastes like death. The death of your childhood, and curiosity, and creativity. The death of insects eradicated by pesticides. The death of the human spirit. This is no apple. This is a monster. This... is a Fuji.



## GRANNY SMITH



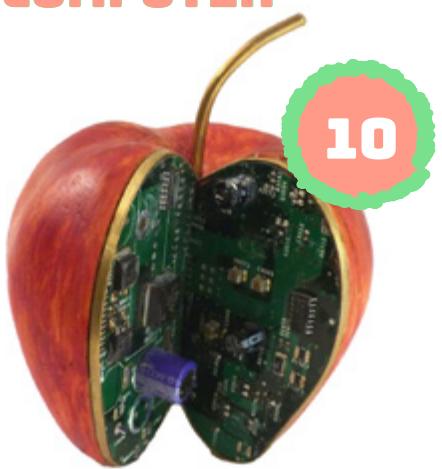
### COSMIC CRISP

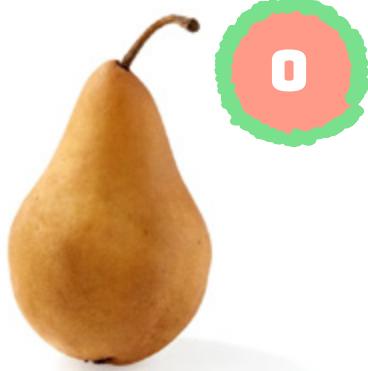
Finally, we reach the cosmos. Hyped up to me by several Shamrock members, the Cosmic Crisp® apple lives up to its reputation by successfully delivering a perfect ratio of crispy and juicy in nearly every bite. When presented as an alternative to Honeycrisp, it takes a while to warm up to. I had this score at a 6 at one point. But when you think about it through the simple lens of "is it a good apple," yeah! It's a really good apple! The branding is a bit outrageous, with the phrase "Imagine the Possibilities" trademarked, somehow, on their website. Also, they sell apple merch. I mean, how stupid is that?! But it sounds like locking down their ecosystem allows them to define every aspect of their product, keeping quality high while coincidentally keeping as much control over the product as they can, even after it leaves their trees. If anyone wanted to compete, they'd have to go through years of legal battles to prove they have the right to repai- er, grow their own. Sorry, got sidetracked again. You pay the branding fee, at \$1.98/lb, but this is a great package through and through.

If you want a tart apple, just grab a Granny Smith. There's finally a definitive answer to the question of whether tart apples are a feasible addition to our everyday food consumption. This model may not line up with most others on the market, but it brings a unique Vision that Pros will certainly recommend. While this first-generation has been around for a while and certainly has its drawbacks, mainly the tough skin and the chewing experience getting a bit finnicky at times, tart apples are the future of computi- er, apples. Sorry, I was thinking about something else for a second. At a somewhat expensive first-generation price point of \$1.53/lb, Granny Smith is a glimpse toward the future.



### APPLE COMPUTER





## HONORABLE MENTION: PEAR

Pears are stupid. You're either too early and bite into a rock, or you're too late and bite into wet sand. It tastes like nothing, it says nothing, and the texture is always wrong. If you're lucky enough to be in that perfect window of ripeness, good for you. But a "nice juicy pear" is a rarity that isn't worth the \$1.73/lb.

## HONORABLE MENTION: THOSE CONTROVERSIAL FROSTED SUGAR COOKIES

We bought some of these when I saw them in the store because it had been a long time for me. And honestly, these are still pretty good. You can still go wrong if you choose the weird stores that do them with the wet frosting, but these take you right back to your childhood.



And now that you've determined that my opinions are invalid, I'm off to think about my life choices while my body digests 9 apples. I think I'm starting to see things.

# FUN UNDER THE MOON?

## JONAS FERGUSON

On April 8th, a Total Solar Eclipse passed over much of the United States. Many Mizzou Engineers gathered outside on campus to witness a partial eclipse of 94% of the sun obscured, while some students traveled to South-eastern Missouri, Illinois, and Indiana to witness the full event. Published here is a gallery of photos from members of the Engineering College.



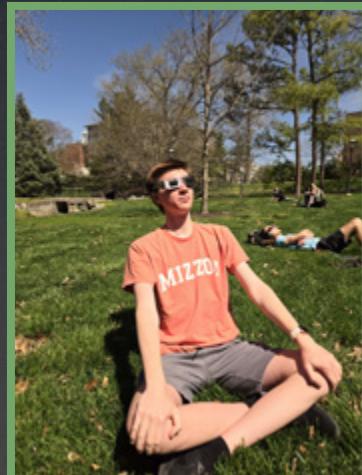
Eclipse view from Columbia.  
Photo by: Luke Dunn



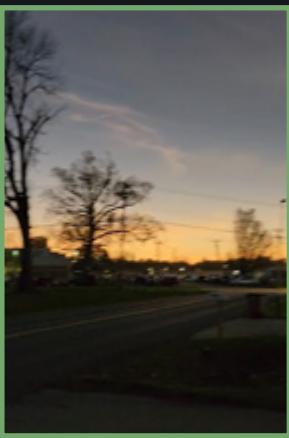
Despite being in full sun for an hour, my Transitions glasses remained almost completely clear. They could show eclipse progress even when the naked eye couldn't.



A photo showing the obscured sun in the now dark sky.  
Photo by John McGinness



Shamrock writer Brady Walters watches the eclipse from Peace Park.



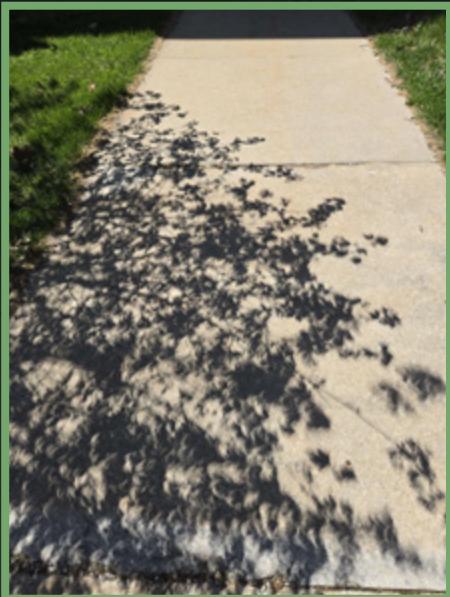
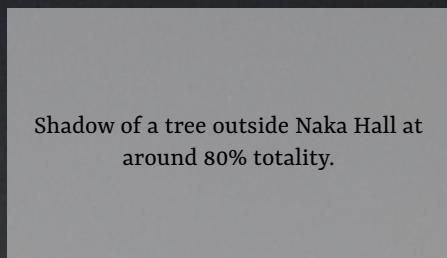
The horizon in every direction takes on the colors of a sunset during totality. Photo from a video by Zach Sample



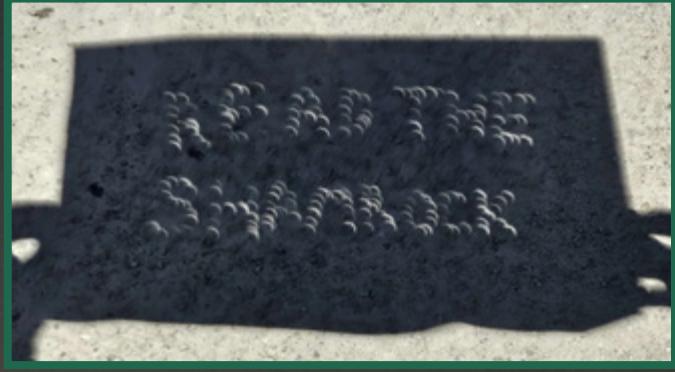
While typically obscured, we can see the sun's corona during totality. Photo by John McGinnes



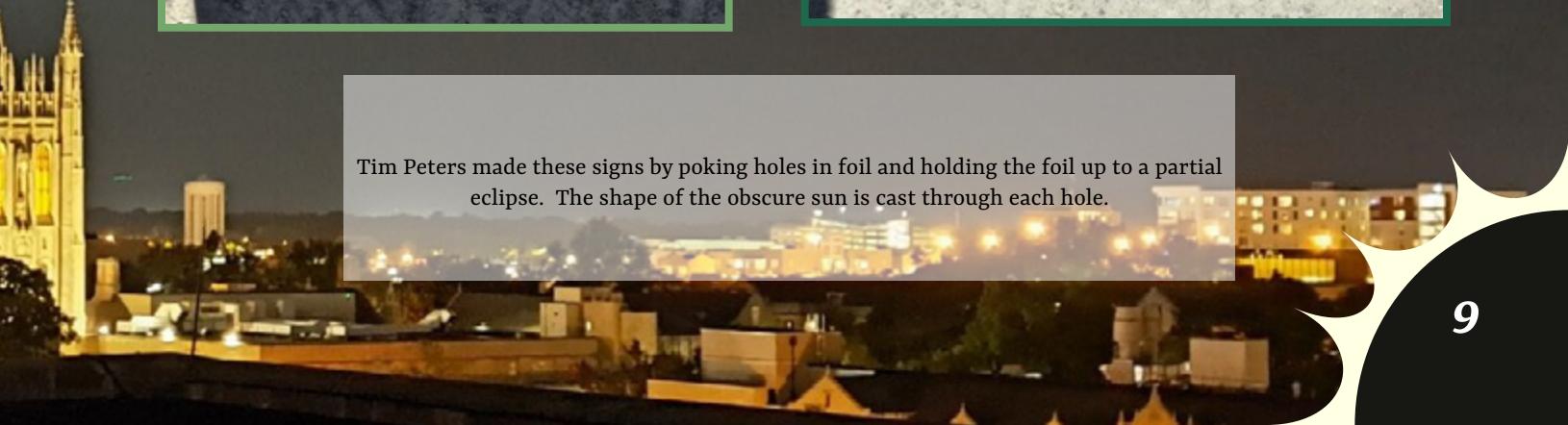
Holes in a sizing gauge casting a shadow.  
Photo by Zach Sample.



Shadow of a tree outside Naka Hall at around 80% totality.



Tim Peters made these signs by poking holes in foil and holding the foil up to a partial eclipse. The shape of the obscure sun is cast through each hole.



# MAGIC MACHINATIONS

## LILY SCHRADER

Even if you are unaware of the intricate game of Magic the Gathering, you probably know echoes of its most famed cards. Black Lotus, an ancient relic of near-legendary status, springs forth from the minds of those even most distant from the gaming community. A piece of cardboard worth upwards of hundreds of thousands of dollars; a bounty hidden deep within bookshelves and garage sale bins of nerdy 90's kids. These treasures remain valuable even to this day because Magic did the unthinkable; it persevered. Through its darkest hours and most destructive sets, Magic the Gathering lived on through the engineers (nerds) and scientists (dorks) who held it dearest for 31 years (and counting). With this deep history, a comprehensive rulebook over two hundred pages long has bubbled out from the simple kid's card game it once was. This dark power (math) and frantic sorcery (logic) are rife for exploration. We at the Shamrock dove into the most complicated of Magic's interactions to explain their reasoning for all to enjoy. This is an intermediate guide to Magic the Gathering, for an in-depth look at the basic rules of Magic the Gathering, check out Wizards of the Coast official play guide [here](#).



## LIGHTNING BOLT CAN'T ALWAYS KILL A TARMOGOYF

Magic the Gathering is built upon many stages of rules interaction. A base of many interactions and an important rule for a beginning player to learn is the concept of **State-Based Actions**. Whenever a player would gain **priority**, first state-based actions must be resolved. This means any improper conditions in the game resolve, such as lethal **damage** destroying creatures or the **legend rule**.



In a hypothetical board state, a Tarmogoyf's **power and toughness** are 2/3 due to your opponent having a **land**, **creature**, and **sorcery** in their **graveyard**. Your opponent **casts** a Lightning Bolt targeting your Tarmogoyf, a card that deals 3 damage. Yet, when the bolt has resolved your Tarmogoyf doesn't die. Why? Because of state-based actions. Your Tarmogoyf takes three damage, and the Lightning Bolt resolves. As part of finishing the resolution of a **spell**, the Lightning Bolt has finished resolving and is placed into your graveyard. A player is about to gain priority, and now state-based effects are resolved. The Tarmogoyf sees the lightning bolt in the graveyard and its power is increased by +1/+1, meaning the three damage on it is no longer enough to kill it.

# BLOOD MOON AND URZA'S SAGA

Blood Moon is a staple of Magic's history. A card met with groans and shivers since its very first printing. Its simplicity is beautiful; it turns nonbasic lands into mountains. This enchantment with just one line of text is actually a surprisingly complex game piece that sees play even 30 years after its first printing in The Dark. An interaction that appears in Legacy (one of magic's oldest formats) is the resolution of a Blood Moon with an Urza's Saga on the battlefield. Sagas are a relatively new addition to the game. They're enchantments designed to be temporary, putting a lore counter on them when they enter the battlefield and at the start of your main phase. Abilities on the cards then trigger when the number of lore counters equals the ability's chapter number. Sagas sacrifice themselves when the number of lore counters exceeds the highest chapter number or equals the number and all abilities have resolved from the stack. In the case of Blood Moon, the Urza's saga on the battlefield becomes a mountain but it also keeps its super-types. This means the card is both a basic mountain and a saga on the battlefield. It is sacrificed due to the total amount of lore counters on it (any number) being greater than its highest chapter number. Since the card no longer has chapters, its highest number is 0, and the card is sacrificed.



## INFINITE...NOTHING?

Infinite combinations are a staple of Magic the Gathering. These combos are usually game-ending, amazing marvels of interlocking game pieces that impress your friends and win tournaments. However, in some situations, these fragments end up making the players stare at each other, unable to respond for all eternity. Two silly little dinosaurs accomplish this task better than any other. Poliraptor and Marauding Raptor synergize very well...if you have a way to stop them from interacting. When Poliraptor enters the battlefield, Marauding Raptor deals 2 damage to it. When Poliraptor takes damage it makes a copy of itself. Do you see where this is going? The two end up spawning an infinitely large horde of bloodthirsty dinosaurs. The only problem is that with no way to cut off the infinite loop, the game will end in a draw. Because the ability is not a may, i.e. the ability's controller cannot choose to decline its use when it goes on the stack, the loop will continue forever and neither player will win the game. Luckily Magic is not the best of 3 games played, it's the first to 2 game wins. So, both players end up playing even more of their favorite pastime (or crying when they go to time).



# PANGLACIAL WURM....

This card doesn't work at all actually. No really, it doesn't. The card creates a unique ruling allowing a player to cast it while searching their library. Casting a spell in the middle of an effect's resolution is not possible in the rules of the game, and yet Panglacial Wurm exists.

Now see what happens if you try to cast the Wurm while searching your library using a mana ability like Selvala, Explorer Returned's. Selvala's ability to make mana is contingent on the top card of player's libraries. Casting a spell in Magic is more complicated than just tapping lands. A player declares the casting of a spell and then attempts to pay for it. So, what if a player decides to declare they are casting Panglacial Wurm while searching their library, and tries to pay for it with Selvala's ability? The answer is a judge's headache. Each player reveals the top card of their library, if the appropriate amount of mana was made the Wurm is successfully cast. But what if it's not? You would no longer be able to cast the Wurm and would have to return it to its appropriate zone. The catch is that you were able to look at your library while searching your deck, including the top card. This means you could potentially draw a card on top of your deck that would otherwise be shuffled away, or at the very least gain information you otherwise would not be able to know.



## OPALESCENCE AND DEVOTION-GODS LAYERING

Layering. The most feared effect in all of Magic. The end all be all of Reddit forum posts and judge hand raises. The only thing scarier to a Magic player than a question on the 7 layers is showering before an event.

This problem evaluates a question on the 4th layer: Type-changing effects. Layers are applied from the 1st to the 7th, and when multiple effects are applied to one object on the same layer, they are applied in time-stamp order. This means that whatever entered the battlefield earliest in the game will be applied first, and then whatever entered the battlefield later after.

1	Copy
2	Control
3	Text
4	Type
5	Color
6	Abilities
7a	P/T CDAs
7b	P/T Setting
7c	P/T + & -
7d	P/T Counters
7e	P/T Switches
8	Other Stuff

For this problem let's hypothetically say we want to use Heliod, God of the Sun, and Opalescence at the same time. Opalescence makes an enchantment a creature. Heliod is an enchantment that can make itself not a creature. These effects apply at the same layer, so they are applied in time-stamp order. Let's go over two different scenarios.

First, you have Opalescence out on the battlefield, then resolve a Heliod, God of the Sun. Because you had Opalescence out first, its ability will be applied, and then Heliod's ability will be applied. If your [devotion](#) to white is less than 5, Heliod will become a creature due to Opalescence and then immediately not become a creature due to its first ability. If your devotion to white is greater than 5, it will become a creature with power and toughness 4/4 due to its mana value being 4.



Secondly, you have Heliod out on the battlefield and then resolve an Opalescence. Your Heliod was on the battlefield first, so the ability to turn or not turn itself into a creature will apply, and then Opalescence will apply and make it a 4/4 creature.



Simple right? Right? Hello? Are you still reading? Oh, you fell asleep, well that's okay. You didn't miss anything important anyway. There are plenty more interesting Magic the Gathering rulings to go over, but we'll save those for another day. Thank you to all the gifted kids with depression and too much time on their hands that keep this game alive, and to the engineers of cardboard who've devoted their lives to making such a wonderful logical puzzle that fits into place perfectly (except Panglacial Wurm I hate that card).

# SHAMROCK EDITOR GOES TO UZBEKISTAN

## JASPER HOLLAND

Earlier this semester, I had the opportunity to travel to Uzbekistan to present my research. While I was there, I got to tour the Tashkent University of Information Technologies and see some of the sights of the city.



The view from my hotel room the morning after I arrived. The snow didn't stick: it was actually colder in Columbia than in Tashkent!



The main lobby of the Museum of Amir Timur, who conquered much of Asia and parts of Europe and Africa.



The outside of Tashkent's biggest market. Inside the dome is packed with stalls, and they spill outside to at least the surrounding block.



Me trying on some traditional Uzbek clothing.



The entrance to the computer engineering building (at TUIT, “computer engineering” refers to what we would likely label as “computer science” here).



Here in their main campus building, they had extensive audio-visual equipment. Here I'm seated in a green screen set they use to practice filming interviews.



They created their own Face ID gates that would automatically admit students and faculty. I stayed in the entrance for a couple minutes and never once had a false ID on my face or saw any student struggle to get through.

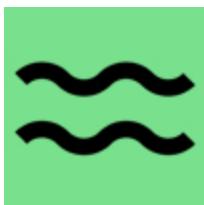
This lab serves as a way to bring hands-on experience into the classroom for Telecommunications students. This wall is a fully functioning simulation of an Optical Distribution Network that gives students easy access to all the hardware in one location.



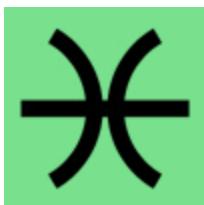
This room is an engineering nerd's dream. Rows of 3D printers, computers, and at least twice as many monitors. Every spare inch of desk space was crowded with tools, the guts of projects in progress, and coffee mugs. This lab is especially prolific: among the projects I saw were a custom Face ID mechanism controlling the lock on the lab, a robotics kit designed for young schoolchildren, and a Braille keyboard.

# HOROSCOPES

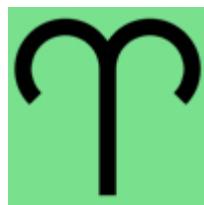
## LILY SCHRADER



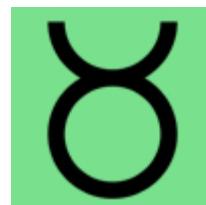
**Aquarius:**  
You will buy an aquarium. Do NOT put fish in it. Your aquarium should be filled with water and nothing else.



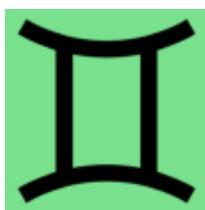
**Pisces:**  
You will feel a harmony the likes of which have so far been unknown to you. The joy of balance will feel alien, continue so you might finally feel peace.



**Aries:**  
Your ability to define words will be increased tenfold, you will not open a dictionary for the entire summer.



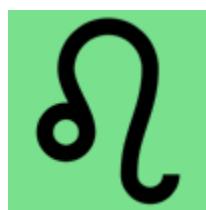
**Taurus:**  
You're gonna be a big bull.



**Gemini:**  
You might as well not read this, the future-telling bauble you bought from the alley on 9th street will open its wandering eye and reveal all.



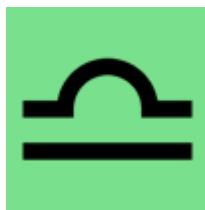
**Cancer:**  
Your fears will be conquered, but your darkest secrets will be laid bare. Be careful with those you choose to trust.



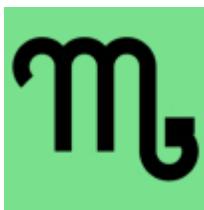
**Leo:**  
Your love of those dearest will grow stronger. Do not resist your inner compassion, tell those you care for how deeply they matter.



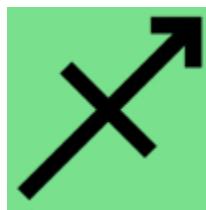
**Virgo:**  
Not sure on you actually.



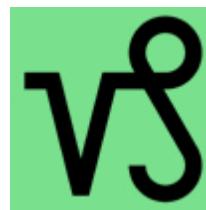
**Libra:**  
You will feel the urge to run around in a circle. Do not resist this urge, running around in a circle is awesome.



**Scorpio:**  
You will unlock boundaries from within that you never knew you had. Let your inner turmoil flow through you, and create.



**Sagittarius:**  
Your fear of death will be tested.

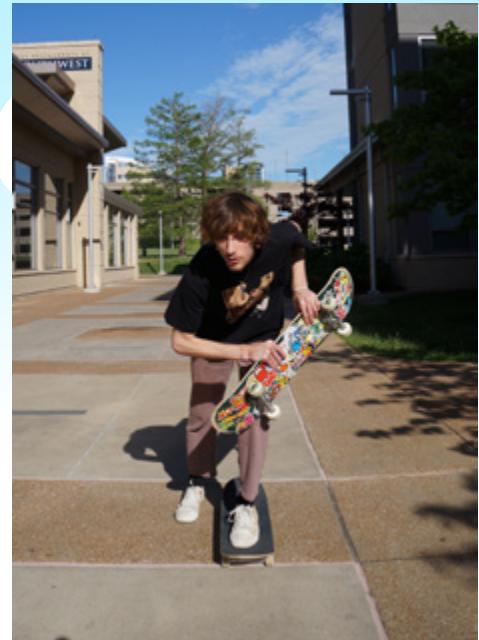


**Capricorn:**  
In your darkest hour, an angel from above will shine down his piercing light. Welcome the warmth of his embrace, feel the power that flows within.

# ENGINEERING SKATEBOARDING

## LANE DUNCAN

Hello! I am your friendly neighborhood skater who also happens to be within the College of Engineering! I am very passionate about skateboarding, as well as interested in the inner workings of crafting a skateboard from scratch. Today I will be geeking out on skateboards, as well as encouraging all engineering students to get into skating! Whether you're a civil engineer or a computer science major, skateboarding could be your new passion! Skateboards have been adapted over years of engineering to be a sick sport, and a sick way of life!



### WHAT IS A SKATEBOARD?



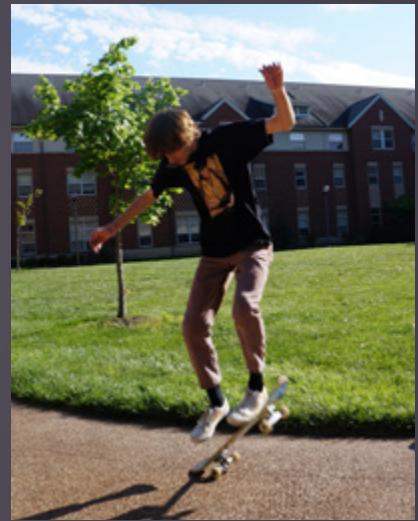
A skateboard is a beautiful piece of work, with only a few seemingly simple components. Once you have acquired these things, you will be on your way to crafting your board. These vital pieces are all intuitively made with the physics and ergonomics of humans in mind. You must embark on a quest of your own to acquire each piece like it were the seven chaos emeralds to create Super Sonic. When you skate, you can finally feel like him. Just like you've always wanted.

### THE DECK

This is 90% of the skateboard. It's the piece of wood you balance on as you attempt to do an ollie at the skatepark and end up falling and busting your knee open in front of all the cool skaters, who are so intimidating because they're so much better than you, and they all laugh at you and call you a poser until you end up crying and running away, gripping your skateboard and bringing it to your chest hugging it because you have no friends to hug you. (This is not based on true events shut up I'm fine) ((I don't go to the skate park anymore.)) This piece of wood is typically made of a combination of maple wood, with many layers held together with resin glue. This creates a strong, durable deck, able to withstand any kind of crazy trick you would like to attempt and fail. The deck, above all, must look cool. This is what you will be judged on when carrying your board across campus. Your deck must display your personality and be roughed up a little so it's obvious you actually use it. Treat it like a fashion accessory! Accessorizing your deck is probably the most fun part of this whole thing, so go crazy! I bought a pack of about 250 stickers online and covered my deck with cool skateboard companies, pop culture figures, and random stuff I've never heard of, because it was vital to cover up the ugly deck I was so graciously gifted on my 17th birthday. Decks come in many sizes, varying from tiny penny boards to wide and longboards. For a typical standard skateboard, the deck will vary anywhere from 7.5 to 8.25 inches. It all comes down to preference at the end of the day. Choose a deck based on your inner soul. Are you a penny board type guy? Or perhaps an insufferable electric longboard rider? (Which isn't skating by the way. It's just standing on a motorized piece of wood.)

## THE WHEELS

Wheels are very important! We're not hovering here, we're rolling! Surfing concrete, as I like to say. There's a lot of revolutions within the skateboard-engineering community, like Seismic Skate Systems, for example, which uses nine distinct chemicals to forge the perfect wheels to glide across that concrete. Soft skateboard wheels can be beneficial for avoiding obstacles in the road like rocks, cracks, sticks, or whatever else happens to be in your way. The softness of the wheel absorbs the shock and vibration, which allows you to ride seamlessly over whatever it is you're cruising over. Soft wheels will give you more speed, and a smoother ride, say outside of a skate park, on a park trail, or across campus. On the other hand, if you want to take your board to the skate park to try and land some tricks, hard wheels will be your best bet. Hard wheels are less likely to bounce when landing a trick, and they allow more control in closed spaces. In my personal experience, I went over to Como Skate Supply here in Columbia, and they had wheels that were recently engineered to behave like soft wheels when riding, but when you pivot your board horizontally to stop, they will behave like hard wheels. It's been difficult to learn tricks with this board, but it's done me a lot of good when I leave my dorm 5 minutes before my film lecture starts, and I'm able to get there on time.



## THE TRUCKS

The trucks are an essential aspect of your board. They not only connect your wheels, bearings, and deck, but they dictate how much control you'll have when riding. The trucks are made up of four components: The baseplate, hanger, kingpin, and bushings. The baseplate is like the foundation, it connects your truck to your deck. To make it easier to understand, I'll compare it to a wizard up in his guard tower, making sure with every trick you do, the energy is transferred down into the truck and board. Next, we have the hanger, the largest component of the trucks. This is the big triangular piece skaters use to grind against rails and curbs. In other terms, the hanger is like the knight, shielding the rest of your skateboard from those gnarly grinds. Then we have the kingpin. This mega bolt holds all the heroic figures of your truck together. The kingpin is the king of your castle, making sure all of the separate pieces work together. Tighten this bolt and the truck now has less maneuverability. Loosen it for better control. If you're riding long-distance, you would typically want to tighten it, whereas if you're at the skate park you'll want it loose to make those sharp turns. Finally, there are the bushings. This is the rubbery part that wraps around the kingpin. You can imagine this to be the comfy warm blanket the king wears to frolic around the kingdom. This awesome little blanket works as a shock absorber for your kingpin.

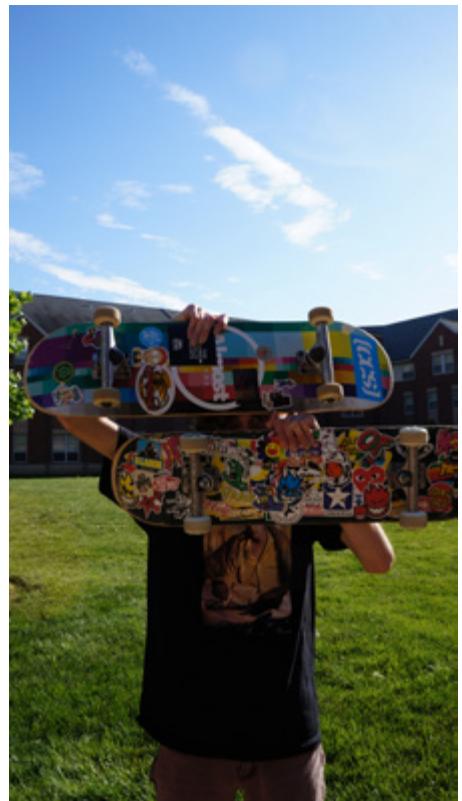
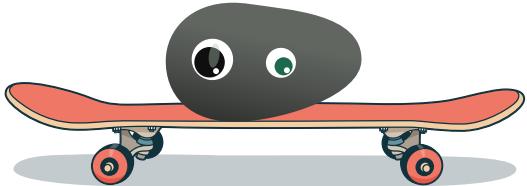
## THE BEARINGS

These little circular fellas go on the inside of the wheels. These may be the smallest pieces, but they have great importance. They get your wheels to spin, and depending on the type, they can make your board faster or slower, and give you a smoother or rougher ride. When thinking about bearings I typically get the name brand recommendation from the worker at the skate shop, although this might not be the smartest way to go about it. If this is your first board, steel bearings are going to be the best as far as how easy they are to maintain, and they're typically inexpensive. If you really want to go fast, try some ceramic bearings. Ceramic bearings generate less heat, meaning less friction. If you're rich and pretentious, you can try the Swiss bearings. These are said to create the lowest friction possible. Apparently, it's the "cream of the crop in the skate world" Yeah, ok pal. Lastly,

there are titanium bearings. These are the most common among professional skaters. Insane speed with zero maintenance. But of course, they're super expensive. It's all up to preference! It will affect your riding abilities, but I've survived with metal bearings, and I can get up to some high speeds just cruising around campus.

## OK...SO WHAT NOW?

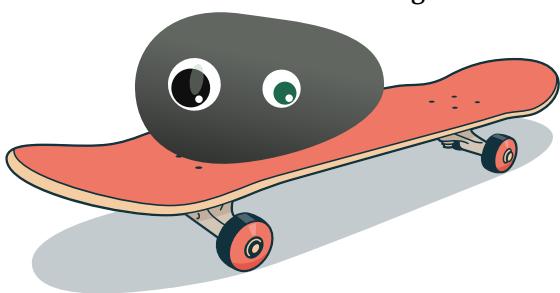
Now you must choose your very own skateboarding components to make your personalized board! You choose the pieces of the skateboard like a wand in Harry Potter. They call to you. The perfect deck will choose you..trust. When you've picked out your pieces, the assembly of a skateboard is a cool process. You can go to the skate shop and watch them build it. It's sort of like a satisfying video on YouTube. It's a lot of clicking and clacking things into place. I have yet to watch someone make a deck from scratch in real life, although that's something I want to do myself someday. Once you have your board assembled, it's time to hop on! Most skate shops will let you test drive it inside the store or in the parking lot. At Como Skate Supply the owner let me ride it inside the shop before we tightened it to my liking! He is a super nice guy and I recommend going there for sure.



## WHY SKATE AT ALL?



I'm not anywhere near a professional skater, and I've been skating since I was four years old. My dad still has videos on his YouTube of me doing tricks on a tiny little ramp in the backyard, back when the board was as tall as me. I rediscovered my love for it when I got older and got a board of my own after some years of shredding my dad's old board. I'm now at a point where I still can't land a single trick, but I do love cruising around! I usually skated back home when it was on my way to a gas station alongside my friends, finding some random tunnel to take pictures in, or even an abandoned vinegar factory to break into! (for legal reasons, this is a joke) Skating for me is all about adventuring. I may not always be in the skate park, but I will be lost in rural Missouri, with my skater/biker friends, enjoying the sun and looking sick. I hope I can spread my love of skating to other people, as it means something else for everyone. To me, it reminds me of my old friends, even the ones who aren't in my life anymore, and a reminder to live life with a sense of freedom, and a little bit of danger.



# COMO SUMMER FOR DUMMIES (OR OUT-OF-TOWNSERS)

HAITLYN SELF

For those of us staying away from home this summer, either for internships or just to get our money's worth of rent, we might feel completely lost on how to fill our time. Without the structure of class schedules or the familiarity of home, what are we supposed to do? Filling our every waking hour with work (as nice as it may be to have money) can be just as boring as wasting away in our houses all summer.

Fortunately, we have options. But firstly, a note: don't get caught up in the idea that you're in some foreign place just because it's not home. It's likely you can enjoy whatever pastimes you had in your hometown just as easily here. After all, there's still parks to go to, cafés to hang out in, and the people you know and love here. You don't have to reinvent yourself all at once just because you're in a new place; it's okay to enjoy some familiarity and nostalgia.

With that out of the way, if you do want to try something completely new (hey, that's what college is all about, right), there are tons of options!

**My first recommendation? Be willing to explore.** It's easy enough to get told where to go, and if you trust your friends' judgments then that's good for you! In the end though, it falls on you to seek out what you find interesting and fun. Use this list as a foundation for exploration, not as a rigid instruction manual.

## COLUMBIA QUICK-FACTS

Columbia has a population of 128,555, was founded in 1819 (as the village of Smithton), has an average high temperature of 89° in July, is the proud caretaker of 70 parks, gets 16 inches of snowfall on average per year, and is the home of the preeminent engineering magazine The Shamrock!

Be sure to go outside, especially now that the weather is appropriate! I know myself well enough to know that I could lie in bed for days on end if left to my own devices, but as annoying as it can be, seeing the sun a little bit daily does wonders for mental health and well-being. I've written extensively on some nice outside activities in our previous issue, and if you're interested in trail hiking, then see our [trail review on page 30](#).

Keep an eye out for community events; they come in all shapes and sizes. For example, while year-round, the weekly award-winning [Columbia Farmer's Market](#) always makes for a wonderful start to my weekend, and hopefully yours as well. Local businesses get to show the (sometimes literal) fruits of their labor every Saturday morning rain or shine thanks to the MU Health Care pavilion

**"I love Columbia Missouri! I go there all the time, especially Deco To Retro. Shout out to Ainge her clothes selection is the best."**

-JAY-Z



Columbia City Flag



*The Columbia Farmer's Market Pavilion*

The first weekend in June a summer only event sweeps Columbia: Art in the Park, a fine arts festival said to be the “oldest and largest...in mid-Missouri” ([courtesy of their website](#)). At Stephens Lake Park, various artists share their photography, paintings, sculpture, and everything in between for all to see. A related event comes on the first Friday of every month in the form of a gallery crawl in the North Village Arts District, aptly named [First Friday](#). This crawl takes its participants around to all sorts of art, music, and shopping while making for a very entertaining evening.

### Check out what Parks & Rec has to offer.

The City of Columbia’s Parks and Recreation department [website](#) has listings for all sorts of summertime events to take part in. This includes a series of concerts in Stephens Park, movies shown in Cosmo Park, and more. The city wants very much for people to be involved in outdoor activities, and there’s no shortage to choose from, so get to choosing!



*Rose Music Hall*

Speaking of live music, there’s a lot of it to check out. From outdoor venues like Stephens Park to indoor concert venues like [The Blue Note](#), [Rose Music Hall](#), and [Cafe Berlin](#), you are sure to find some solid local (or traveling) bands to check out. Look for your favorite genres, or maybe branch out and try something new; either way, going to see a live music show is very rarely a bad time.

Stick to the classics. Some places make for good hangout spots year-round, several of which might be having events of their own. Looking for a cooler and quieter place to spend your summer? The [Columbia Public Library](#) hosts all kinds of events for teens and adults almost every week and makes for a great excuse to leave the house. If you want to shop a little, there’s plenty to check out at the [Columbia Mall](#). Maybe explore the little thrift shops downtown like [Maude Vintage](#) or [Leo’s Old Clothes](#), watch a film at [Ragtag Cinema](#), grab a few books from [Yellow Dog](#) or [Skylark](#), buy your favorite scented candles at [Peace Nook](#), or fill up on Sparky’s Ice Cream and [Pizza Tree](#). Hey, these are called classics for a reason!



*Sparky's Homemade Ice Cream*

Fortunately, there are also many [resources](#) on campus for keeping busy through the summer. That said, a big part of enjoying the summer is trying something new, so take the chance to make the most of your summer!

# HOW TO AVOID YOUR PARENTS

## PARKER COHEN



Sneaking out, drinking, having sex. There are many debaucherous activities we would prefer to keep from our parents. Luckily, I am a seasoned veteran in staving off unwanted attention from the folks. Pay attention to this brief guide, and you just might be able to recreate my success. But first, a disclaimer. You must understand that everyone's circumstances are different. Everyone's unique parental relationship requires different considerations. The parental spectrum of loving to comically evil is many leagues long, I'll tell you now that it's easier to avoid them when your relationship with them lies closer to the former. This isn't the article to read if you are attempting to escape a genuinely frightening home life. This article is about duping your poor innocent parents like the unsuspecting dullards they are.

Now that we have that note out of the way, I can train you into the unseen rogue you were always meant to be. To avoid your parents, you first must earn their trust. The goal is to reduce any cause for their curiosity or concern. Strive to become successful at school, but not to the point where you become anything more than boring. Become a competent conversationalist, but never a standout participant. You get the idea. The danger of this bland guise is that if a family friend inquires about your goings-on, your parents may be left searching for an answer. Consider picking up a slightly embarrassing hobby, like Magic: The Gathering, to give them something to chew on while you're off participating in your cool people's hobbies like breaking into abandoned homes.

As trust builds between you and your parents, start physically distancing yourself more and more from them. Move your bedroom into the basement or the attic, move into a dorm, but never, NEVER, move cities. Moving a long distance away suddenly will destroy any progress you've made. All at once, your parents will be much more interested in your day-to-day life. You'll get calls and texts, and God forbid a Facetime. It takes an experienced parent-avoider to understand that being tucked away in your room is farther away from familial interaction than any plane ride can ever take you. This strategy guide hinges on the fact that the facade of a healthy and "normal" relationship is the greatest smokescreen that you have in your arsenal to hide the fact that you don't know your mom's birthday.

Here's where things may get tricky. Hopefully, by now your parents have begun to trust your independence, but to seal the deal you must never ask for their help ever again. Don't know how to shave? Look it up. Having troubles with your significant other? Write a post on r/AmITheAsshole. If there does come a time when you need your original birth certificate, pay attention to how they react to your request. If they are overly enthusiastic to comply, you may have gone cold turkey too soon. Ideally, they should sigh and roll their eyes as they've now become accustomed to being asked nothing of at all.



Here is the masterstroke, the final stitch in a tapestry of genealogical deception. No matter how perfectly you have executed this strategy, your parents will always be interested in your love life. This is fueled by their investment in your ability to provide them with grandkids, and that is exactly what you'll do. Marry and have kids just like your parents envisioned, then sic the little hellions on them. Blinded by adoration for their grandchildren, your parents will have little attention left for you, the least you have ever experienced. And with your children distracted too, you will know the meaning of freedom: Complete and utter alienation from your family.

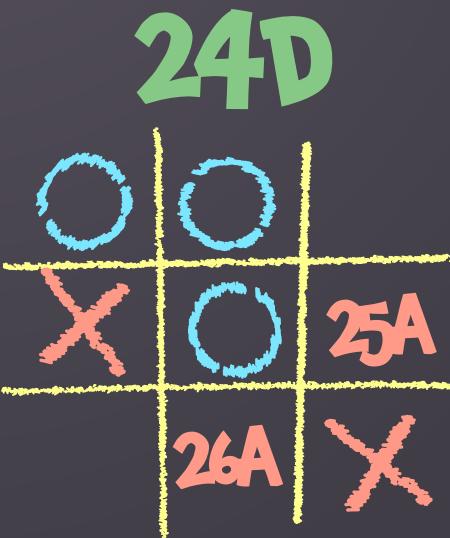
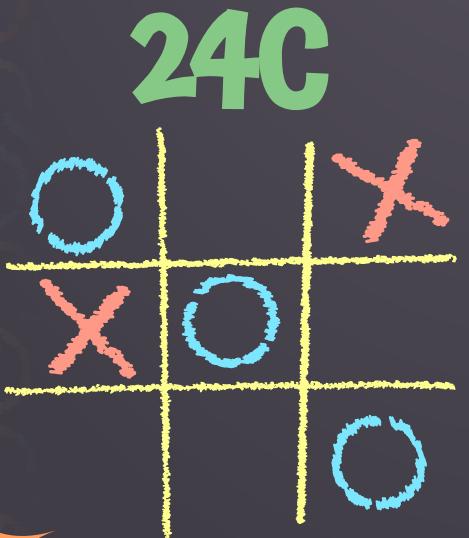
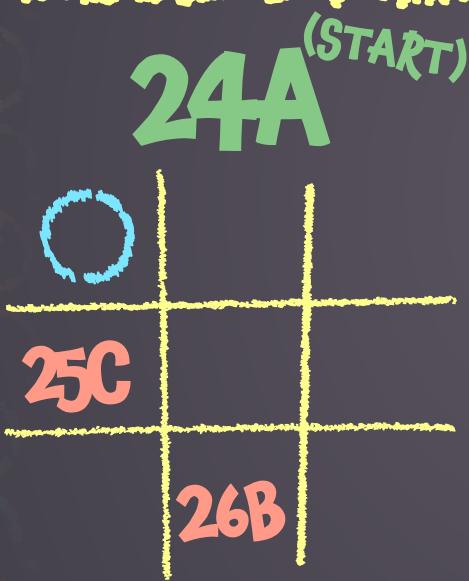
# TIC TAC TOE

Tic Tac Toe: it's a classic game, but due to the fact that it requires at least two people, it has long been inaccessible to engineers (who famously do not make friends).

That's why The Shamrock is pleased to present this beloved time-killer for the first time ever in a convenient "Choose Your Own Adventure" format designed for solo play!

Simply pick which of the two labeled spaces you want to play in, and find the grid indicated by that space. You're playing X's. **Start at 24A.**

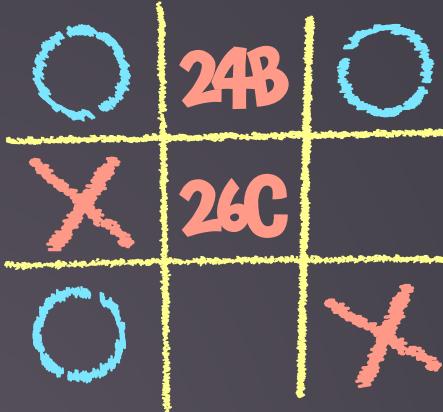
Can you engineer the perfect solution to win?



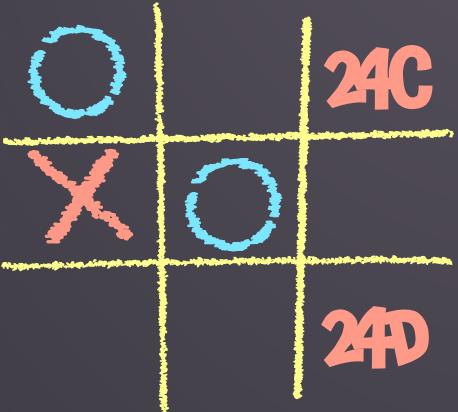
**25A**



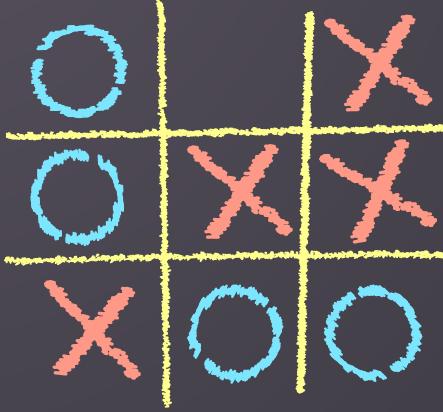
**25B**



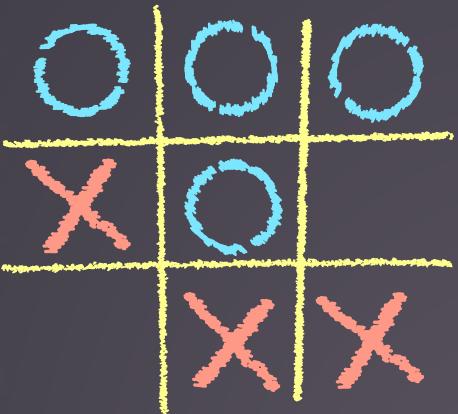
**25C**



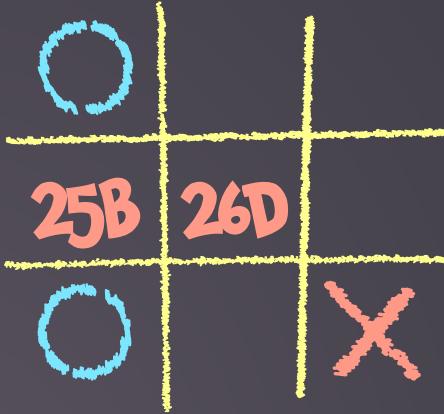
**25D**



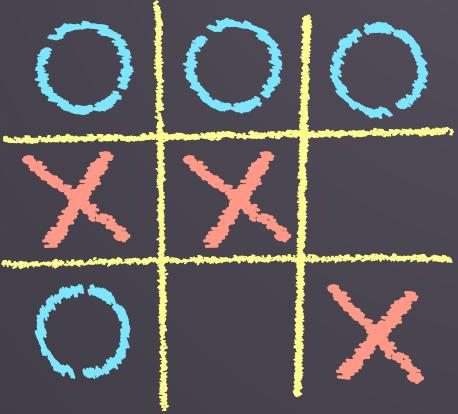
**26A**



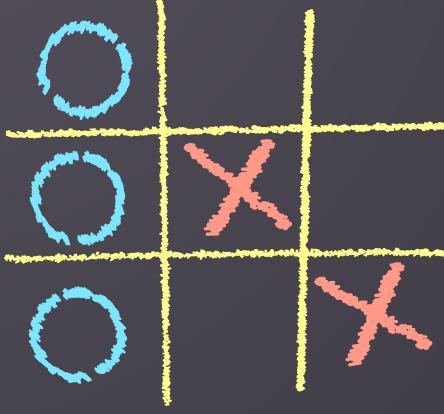
**26B**



**26C**



**26D**

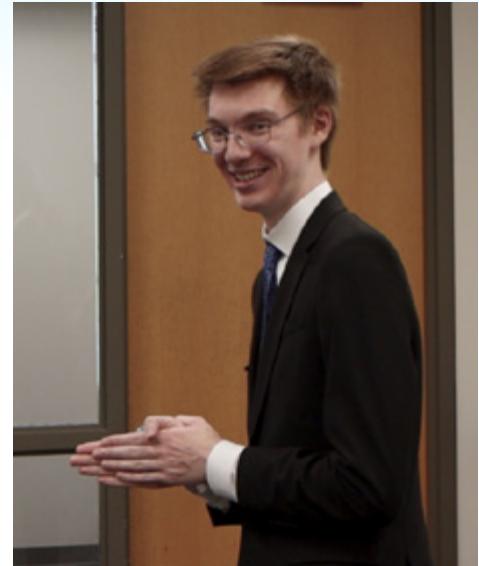


# SCIENTIFICALLY DETERMINING THE BEST ENGINEERING MAJOR

## BRADY WALTERS

When I decided I was going to be an engineering major, I was confident in my choice of Computer Science. But a part of me started to wonder:

which engineering major is the best engineering major? Was there any way to find out? What does "best" really represent? Opportunities? Average salary out of school? The applications of knowledge learned in that category? Life expectancy? Or... a simple comparison? If you truly wanted to find out which major was the best, you would need actual data on how they each managed the same situation, and simply determine a winner based on a point system. This idea stuck with me, causing me to do minutes of research to see if it had been determined before. And since nothing was standing out... I decided I needed to take things into my own hands. And that brings us here.



The Shamrock team and I successfully wrangled up one of nearly every engineering major on campus, including one that doesn't even exist yet. From biomedical to mechanical, from civil to environmental. We even had the four acronyms of the bunch: CS, IT, EE, and CE! Once we had everyone together, it was time for the first of three trials. A quiz. 12 majors would enter, and 6 would continue to the next round. The only question left... was who?

You'll have to find out... by checking into the Shamrock's official YouTube channel this week. Subscribe and turn on all notifications to tune into the world premiere to find who the best engineering major really is! There's quizzes, there's trials, and there's "a surprising amount of running," according to the contestants! You don't want to miss it!



## The Shamrock

@the\_shamrock\_mu · 24 subscribers · 6 vid

Congrats on the finding the official YouTube  
[linktr.ee/theshamrockmu](https://linktr.ee/theshamrockmu)

[Subscribe](#)

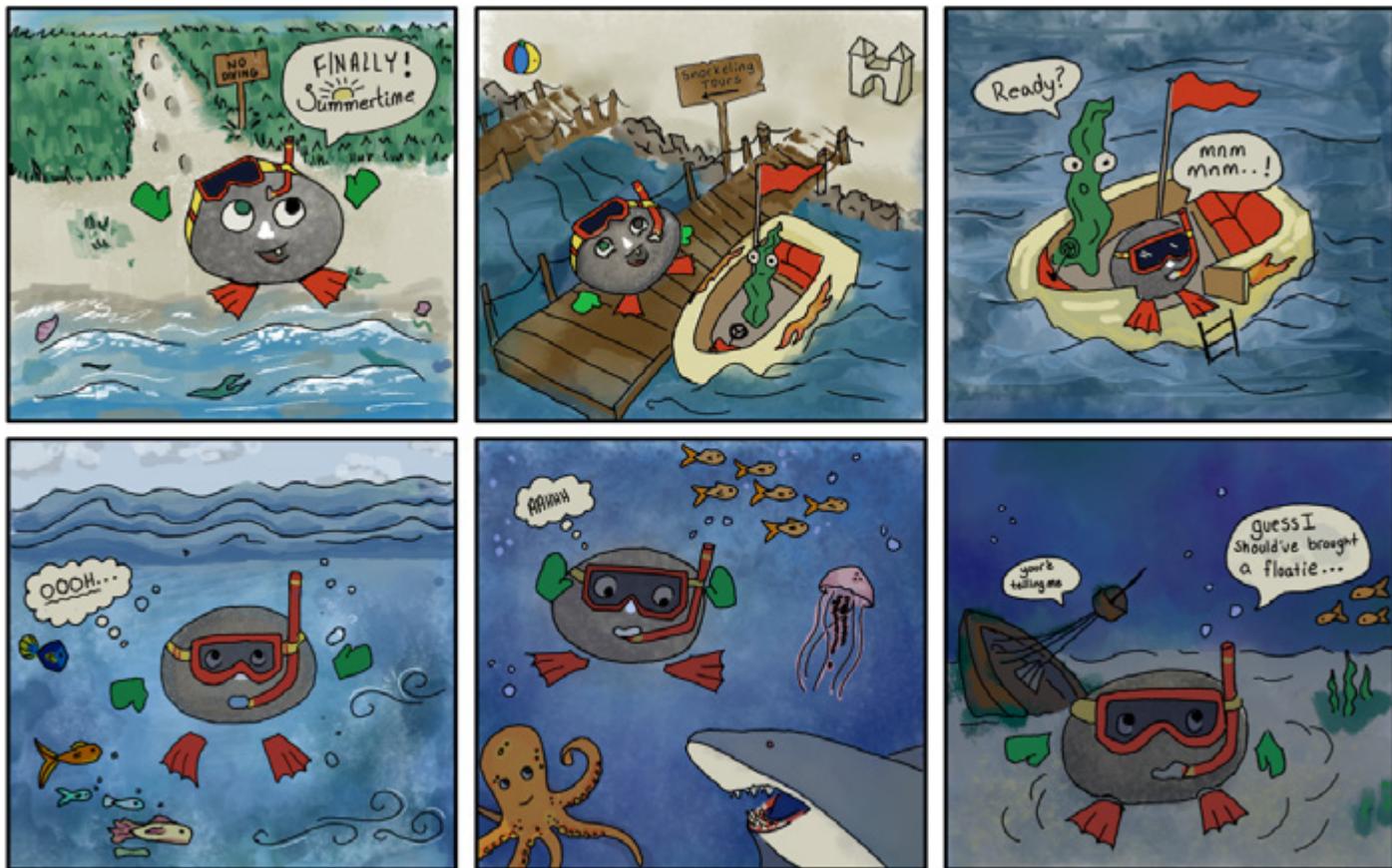
[Click here to visit our YouTube channel!](#)



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# SHAMMY'S SHENANIGANS

## WESLEY GALE



# PUZZGRID

## LILY SCHRADER AND JONAS FERGUSON

Paper clip	Stan	Tape	Birch
Standard	Oak	Kay	Brad
Ash	Thumbtack	Main	Staple
Elm	Bent	Beech	Essential

To play, sort these 16 words into 4 categories of 4 words each (much like the New York Times' "Connections" game).

Think you have the answer? [Click here](#) to play online and check your work!

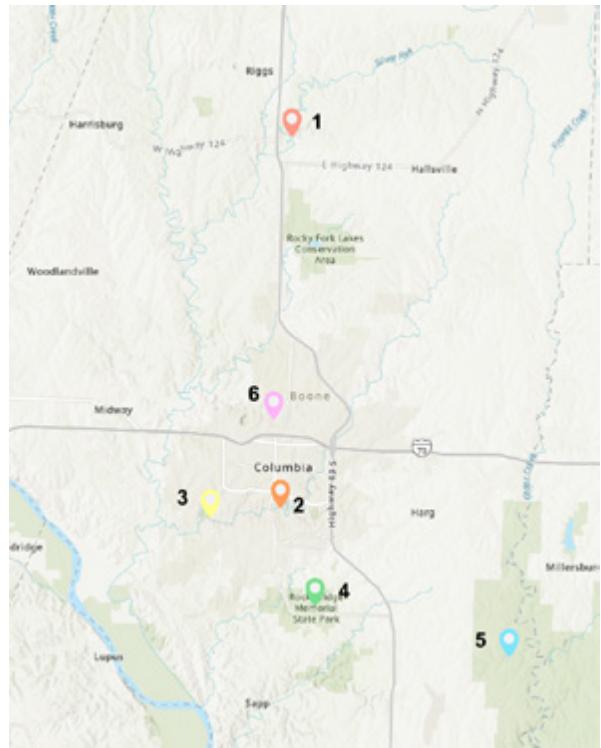
# TRAIL REVIEWS

As summer approaches, The Shamrock team have been looking at ways we can spend more time outdoors and at recreation locations in Columbia. This article is a compilation of trails in and around Columbia that our editors wanted to share with you.

## WRITTEN BY:

- Jonas Ferguson
  - Asher Ferguson
  - Parker Cohen
  - Shammy the Rock
  - Lily Schrader
  - Kaitlyn Self
- 1: The Pinnacles
  - 2: Hinkson Creek Trail
  - 3: MKT Trail
  - 4: Gans Creek
  - 5: Moon Loop
  - 6: Bear Creek Trail

Each trail lists its length, driving distance from Jesse Hall, and a difficulty level.



## THE PINNACLES JONAS FERGUSON



Varies



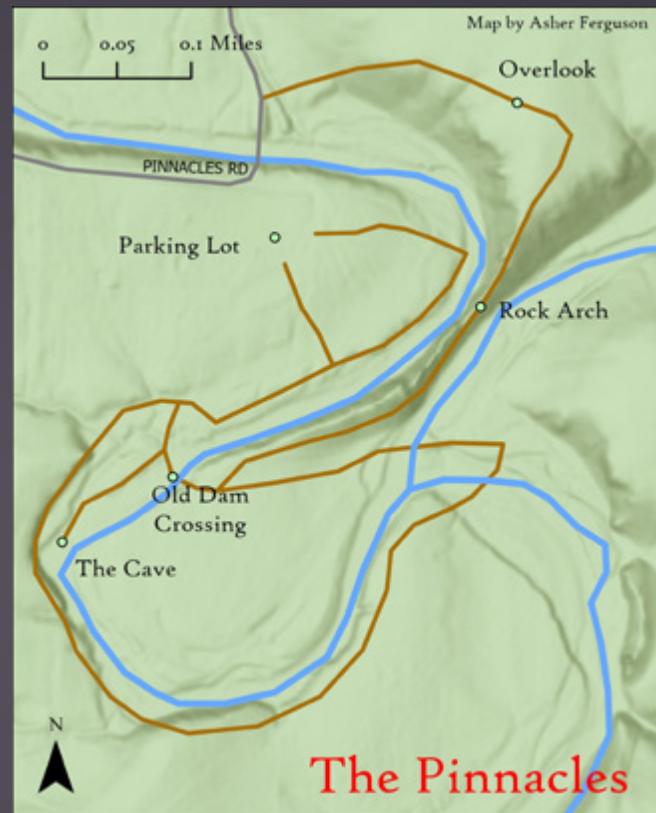
23 mins

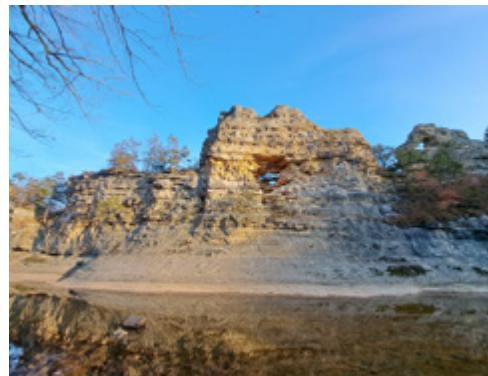
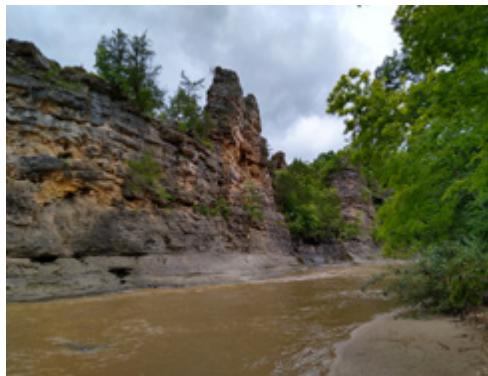


High  
Difficulty

12 miles north of Columbia lies one of Mid-Missouri's greatest natural features. Although little known to anyone but long-time locals, The Pinnacles Youth Park features a cave, two creeks, a beautiful forest, and a stunning central rock feature.

The Pinnacles is named for the 80-foot-tall limestone cliff in the middle of the park. Located inside of a bend in Silver Fork Creek, the stone has been carved away for millions of years, leaving only a narrow strip of rock. There is a trail running along the whole length of the cliff feature, with incredible views of the area.





This is one of my favorite places to go around Columbia. It feels like a place that couldn't exist around this part of Missouri which makes it a rare and unique experience. With many trails towards the unmarked side, you get to explore the area how you want, which lets you curate the experience to what suits you. well marked.

The Pinnacles Youth Park is a private park that receives no government funding, so information about it can sometimes be hard to find. The park is not very accessible, and there are not always bridges to cross the creeks, so be prepared to get a little bit wet, it's best to wait until a few days after a big rainstorm before you visit. The cliffs have exposed falls with no guards, so caution is advised when visiting; the trail is rough at times and not well marked.



# HINKSON CREEK TRAIL

## ASHER FERGUSON



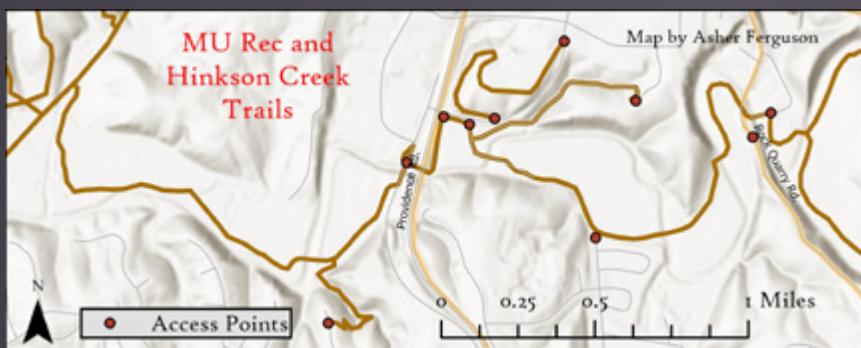
Up to  
7.5 miles



6 mins



Low  
Difficulty



One of my favorite sections of trail in all of Columbia connects the MKT Trail in the west to Grindstone Nature Area in the east. It is an almost perfectly flat, bikeable gravel trail that connects much of Columbia into the trail system. Starting from its junction with the MKT, where it is labeled the “MU Rec Trail,” it meanders through the bowels (affectionate) of Columbia until it reaches Capen Park and Grindstone Nature Area.

Across Southern Columbia, from Scott Boulevard in the West to Highway 63 in the East, Hinkson and Grindstone Creeks create an area of rugged terrain that makes development difficult -in fact, only five roads traverse this area.

Since this area lacks development potential, capitalism has graciously permitted it to turn into a big patchwork of nature reserves, including Hinkson Woods Conservation Area, Forum Nature Area, and Grindstone Nature Area.

This trail traverses much of this area. After you leave the MKT trail, you enter a tree-rimmed open space, with beautiful views of the sky. After a couple of creek crossings and an underpass below Providence Road, you enter another beautiful field, with serene blue skies and a sign warning you that under no circumstances should you fly a kite. One more bridge later and you enter the forest again, this time in “Hinkson Valley Nature Preserve,” which is serene, and intriguingly, under private ownership. A very nice side trail loops around “Woodpecker Hollow” to the south. After an additional bridge, you end up at Capen Park, the terminus of my favorite section of trail.

Despite its central location, this trail remains little-known. I feel a sense of camaraderie with fellow Columbians I see walking and biking in this secluded, serene area in the center of the bustling city.



# MKT TRAIL

## PARKER COHEN



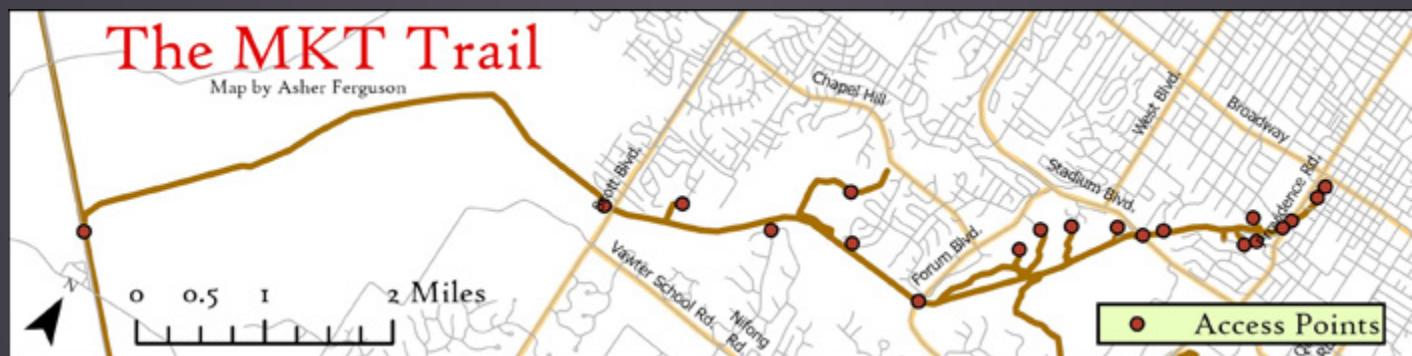
Up to  
8.9 miles



4 mins



Low  
Difficulty



The MKT trail needs no introduction, but just in case you've been living under a rock or aren't a Columbia native, here's the rundown. The Missouri-Kansas-Texas trail's nine miles run through the city's heart on a path mimicking a portion of the retired rail line from which it derives its name. It has many beautiful vistas and a wide variety of flora along its main path, which supports many offshoot trails.

The portion I am personally familiar with of the trail is the Twin Lakes. All within a quarter mile of each other lies a massive looping bird trail, the Hinkson Woods Conservation Trail, a dog park, and the

titular dual water features. These attractions alone hold a constellation of memories for me, a timeline of my activity and growth over the years of my living here. When I was little, I frequented the dog park and the trail that curved around the outline of its lake. I remember graduating from training wheels, and the speed I felt when their cheap plastic couldn't hold me back anymore. In my haste, I rode ahead of my family on our way home and scared my mother sick.

As the memories approach today, my habits on the trail have changed. I started exploring the conservation trail, a warm and peaceful comfort after particularly stressful days at the tail-end of my junior year in high school. The calm of the offshoot trails juxtaposes the bustle of the main trail, which encouraged my youthful hyper proclivities. Recently, I found a view of a beautiful field, a view that is hidden from anyone but the brave explorers who wander off the main path and into the tall grass. At first, I shared it with a lemonade and a fly that seemed similarly entranced by the scene, but I recently had the privilege of sharing it with someone more special.



Exploring the trail with someone else is like experiencing it for the first time again. Every sight is more magical, every spectacle more spectacular. The trail is vibrant and varied. If you should choose to indulge in the arching trees and babbling brooks, the active main trail, or the subtler mysterious offshoots, in the calmness of solitude, or the enchantment of company, the MKT is ready to provide you with memories that will last you a lifetime.

## GANS CREEK WILD AREA SHAMMY THE ROCK



Up to  
8.5 miles



14 mins



Medium  
Difficulty



I am a rock, as you all well know. But what you may not know is that us rocks do indeed talk. I have many rock comrades in the Gans Creek Wild Area, Rock Bridge State Park's reclusive sister. While I personally don't enjoy hiking trails because, as a rock, they are difficult to navigate, my rock friends tell me that they like living along the Gans Creek trails because so few people dare step on them. (My "friends" at Devil's Icebox will never shut up about how popular they are. I get it, you're a cool piece of karst limestone, while I'm just a lowly mascot for an engineering magazine. Yeah Mom, my sister Tammy is a valuable piece of lapis lazuli. I'm a clown. I know.)

Gans Creek Wild Area has all sorts of rocks. Big ones, little ones, red ones, blue ones (probably). Lowland rocks, upland rocks, rocks that people sit on as overlooks to look out on all the boring trees and exciting rocks. Mossy rocks, dry rocks, rocks covered in dirt. Hard rocks, soft rocks, college rocks, even a psychedelic rock. One of my rock friends swears he heard a mountain lion, so that's cool I guess.



Does it not seem concerning to anyone else that I, Shammy the rock, am being forced to add yet again to my long list of duties. I'm fine writing Shammy's Advice (though it's not my favorite), but an additional article? Geez you guys should work on outreach. Gans Creek is a pretty cool place, where you can go and see lots of rocks. Perhaps even a few of our mortal enemies, stones.

Now make like a tree and take a hike. I beseech you, please go touch some grass (but not a rock unless you have its consent).

## MOON LOOP LILY SCHRADER



7 miles



25 mins



Medium  
Difficulty

The Moon Loop is a 6-mile closed loop trail in Ashland, Missouri on the S Ginn Ln Trailhead. It is a part of Mark Twain National Forest and home to many distinctly bluish-green mosses that clutter the forest bed. It has a slight elevation change and traverses multiple creeks.





This trail is a personal favorite of mine. It seems to have always come to me at a time in my life when I have particularly needed it. My first time through, a long-time friend and I reconnected and put aside our differences. I was brought there on a hot summer night in the dying twilight. The wind shaking through the tall grasses brought about a unique sense of change in our relationship. We felt the breeze blow through a huge expanse of plains in front of us, and in the same breath exhaled a sigh of grief and pain we had been brewing for years. As night came, we opened up the darkness with flashlights, then thinking again, extinguished

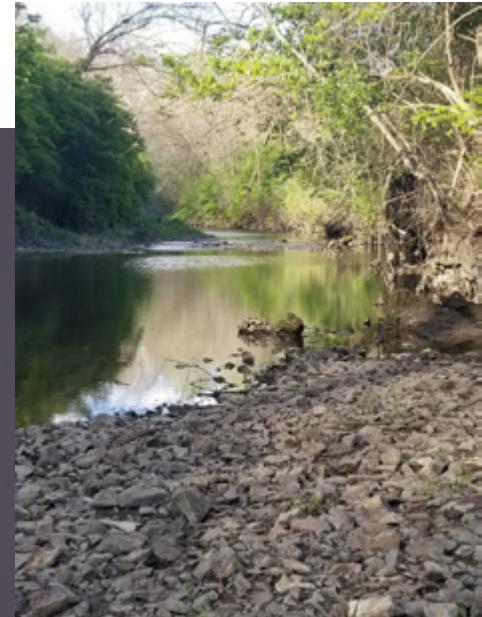
them and finished our walk in silence.



In the second time, I came alone. I reflected on who I was and what I was doing. At the start of my hike, I felt like a phony, like my decision to travel into the early winter Missouri wilderness was for the people whom I would tell, confused as to why I took the trip to begin with. I walked and stormed and stewed, but as I came onto the first bends and curves, I couldn't help but stop and notice so many details of the world at my feet. I remember how vividly beautiful the moss and fungi growing on the fallen logs and forest floor were as for the first time in my walk, I looked closer at what I was seeing. When I finished the hike, I finished it for myself. I savored the time I spent like a fine dessert, each moment a treat for me to cherish. I actually got lost in my playing, and as the cold sunk into my feet and the wind seeped into my collar, I took a seat, gathered my bearings, and felt how much I loved feeling anything at all.



The last time I went to the Moon Loop, I brought a friend. It reminded me so much of my childhood. For the first time in a long time, it felt like show and tell. Each Honey Locust and Oak felt like treasures to be shown off. I was proud of my place, even though it was hardly mine. When we finished it was ours, and now it's his too. I highly recommend the trail; it holds a special place in my heart.



## BEAR CREEK TRAIL

### KAITLYN SELF



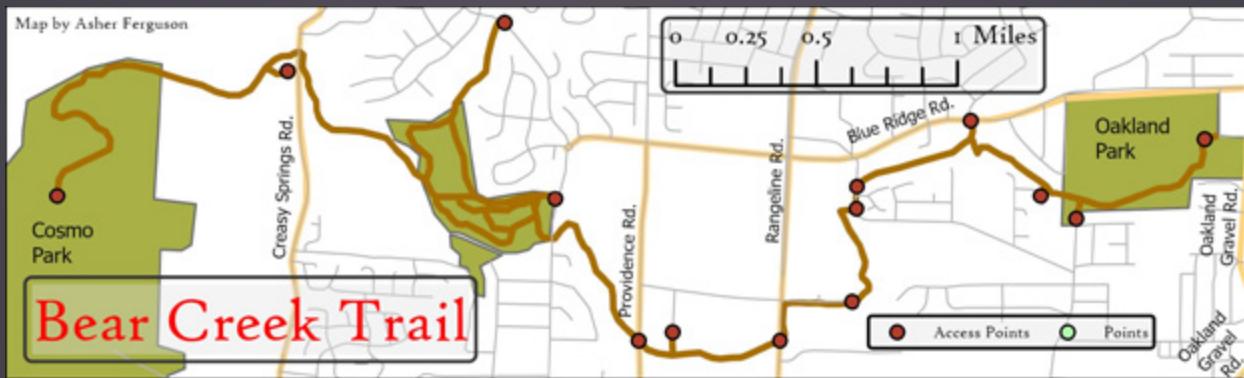
Up to  
4.8 miles



10 mins



Medium  
Difficulty



If it wasn't clear already from my last article (*Touching Grass*), I really like going outside, especially now that it's warmer. So, you can imagine how happy I am to talk about one of the trails my roommate and I have gotten to walk: Bear Creek.

We started our journey in the Columbia Cosmopolitan Recreation Area, colloquially known as Cosmo Park. (I didn't know this until she shouted it into my ear on the drive there.) The trail snuggles up next to its namesake about a mile in, and continues along nearly 5 miles of gravel trail with the occasional sidewalk. It does overlap a bit with the city proper a bit (namely overlapping Providence) but it still manages to make for a fun, peaceful walk.

At the beginning of the trail, we didn't encounter all that many other pedestrians. We did, however, encounter several mountain bikers on Rhett's Run, a biking path that frequently overlaps with the main walkway. From the multiple offshoot paths to the myriad things to do in the initial park we started in, there is no shortage of opportunities for entertainment on this trail.

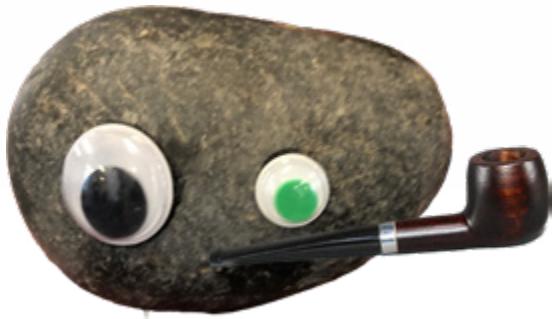
When the trail first met with the lake, I was surprised to learn (way later than I should be learning) that we have beavers! I mean, with as much water as we have, I knew it was a possibility, but this was my first time ever encountering a genuine beaver dam. That experience is part of why I like walking trails so much: there's so much genuine fun to be had in learning about the environment around us, as well as the fact that there will always be something new to discover.

Unfortunately, our walk was cut short, so I can't describe the entirety of the trail. However, I am far from the only one who enjoys Bear Creek; with its easy accessibility thanks to it being rooted in two parks (Cosmo Park at one end, Oakland on the other), and the fact that it reaches across the city, it makes for a very nice walk. It gives you plenty of time out in nature without simply up and stranding you out in the open wilderness, and I have every intention of walking the full stretch of it as soon as I get the chance.

**A note of caution:** for me and my roommate, one of the highlights of these walks has been bringing her dog, Briscoe, along for the journey. It's been very nice to get to help walk that little dog's nervous energy out as much as we can. However, we did have to be mindful, as towards the beginning of the trail, there is a rather large off-leash zone (marked in orange on the map). Off-leash time for your dog can be a very fun experience, but it is crucial for you, as the dog-owner/dog-walker, to know your pup's limits and ensure that they have good enough recall skills to be trustworthy without a leash to stop them. When you walk a public trail, you acknowledge that you are very likely to run into other people, so always be mindful of your and your dog's conduct!

# SHAMMY'S ADVICE

## INTERPRETED FROM SHAMMY BY THE LISAN AL'SAKHRA



**YOU ASKED THE QUESTIONS, AND  
SHAMMY HAS THE ANSWERS!**

**IF YOU HAVE ANY BURNING  
QUESTIONS...ASK YA BOY SHAMMY ON  
INSTAGRAM!**

### SHAMMY WHEN WE DIE, WHERE DO WE GO?

Usually, the morgue but sometimes 25 miles outside of town under a walnut tree. If you're an owl or a lawyer, you go to HELL I know that for sure. If you're a good lawyer, you get to go to purgatory instead.

### WHAT'S YOUR FAVORITE WAY TO HIDE A BODY?

Haha I would never do that. And If I did it definitely wouldn't be outside of town under a large oak tree of some sort.

### WHICH OF [REDACTED] ARE YOUR YOUR FAVORITE TO [REDACTED], MINES THE [REDACTED].

Listen here you degenerate scum, you come into my article and ask disgusting questions just to disturb the peace. Here's what you need to do, go outside and feel the sun on your skin. I know it's probably been about 6 years since you looked at a cloud, they're those white fluffy things in the sky. Once you're outside, you'll see this green stuff on the ground, don't worry it's not mold like you're used to seeing, it's called grass. Reach down and feel it in your hand, take a seat on the grass for a while, look at the clouds in the sky, the buildings and trees around you, listen to the birds chirping,

### SHAMMY HOW DO YOU DODGE CHILD SUPPORT PAYMENTS? IT'S BEEN 6 YEARS ... SHE NEEDS A FATHER.

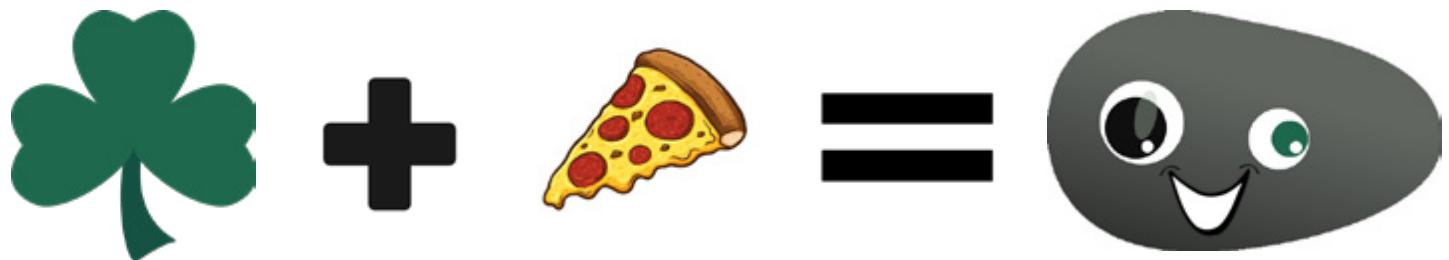
I have no social security number, the banks can't find me, the government can't find me, the IRS can't find me, you can't find me.

## HOW DO I FIND A JOB?

It's quite simple, all you need to do is go down to your local steel mill and ask the foreman for a job. Then he'll give you a job, it's that easy. Then afterwards you can mosey on down to the soda fountain and get yourself a root beer float for a nickel to celebrate such a momentous occasion.

## HOW SHOULD I SPEND MY LAST FEW WEEKS OF SENIOR YEAR?

Studying for finals probably, make sure you have your graduation gown, walk around campus reminiscing, Have some beer and pizza. That's all I can think of.

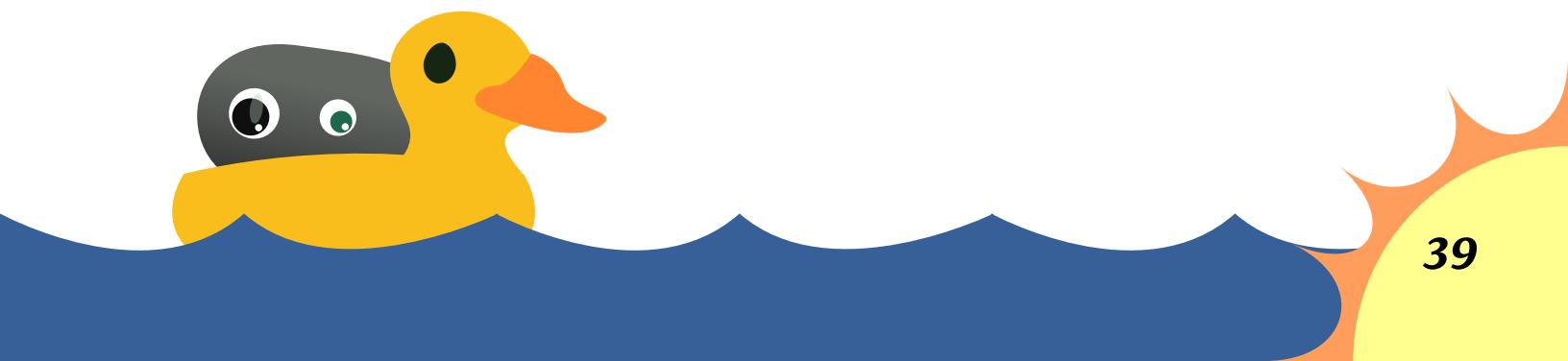


## HOW DO I BECOME AS COOL AND SEXY AS YOU?

You simply can't, don't try, the price is too great.

## WHAT ARE YOUR THOUGHTS ON DR. UHLMANN?

More like doctor Uh Man.

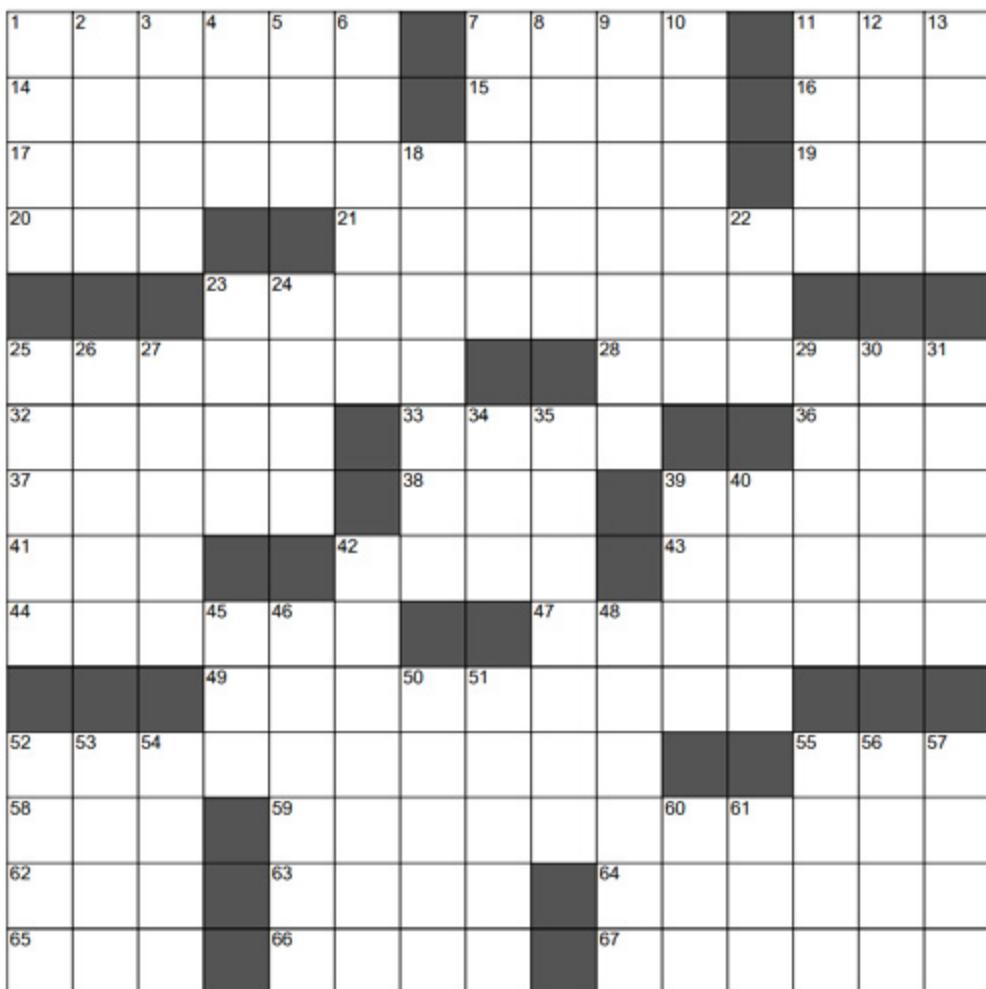


# CROSSWORD

## LILY SCHRADER & JONAS FERGUSON

### ACROSS

- 1 Bill for drinks  
 7 Actress Thurman, and namesakes  
 11 "60 Minutes" network  
 14 Tropical lizard  
 15 Leaning Tower city  
 16 Hawaii's Mauna  
 17 You won't need a hotel where we're going, perhaps  
 19 Unit of work  
 20 \_\_\_\_ Lanka  
 21 Face off  
 23 Bash with a splash  
 25 Cruise around the Web  
 28 Suitable for all audiences  
 32 XXX, in tic-tac-toe  
 33 Exile isle  
 36 Certificate of Insurance  
 37 Schoolbooks  
 38 \_\_\_\_ de Janeiro  
 39 Full of activity  
 41 Mono- relative  
 42 "Was it a cat \_\_\_\_?" (palindrome)  
 43 Oregon's capital  
 44 Ant magnet?  
 47 U.S. transit system that spans two states and a district  
 49 1922 Willa Cather novel that won a Pulitzer  
 52 "Go ahead, sit"  
 55 FedEx rival  
 58 "2001" computer  
 59 Summer activities or what 17, 23, and 44 across could entail  
 62 \_\_\_\_ al-Fitr (holiday that marks the end of Ramadan)  
 63 Black, poetically  
 64 Tranquil  
 65 Inventor Whitney  
 66 Toward sunset  
 67 They raise a lot of dough  
**DOWN**  
 1 Inexpensive pens  
 2 Culture medium  
 3 13th-century Persian mystic who is one of the best-selling poets in the U.S.  
 4 Spigot  
 5 Singer DiFranco  
 6 Maine city on the Penobscot River  
 7 "Gimme five!"  
 8 Micro ribonucleic acid  
 9 A range of jagged mountains  
 10 Gum-yielding tree  
 11 Nile queen, for short  
 12 Delivered  
 13 Stuffing herb  
 18 Club owners  
 22 Big Apple paper,



- initially  
 23 "Hey, you!"  
 24 Inning enders  
 25 Still sleeping  
 26 Nicholas Gage book  
 27 Britney Spears hit  
 29 Devoted online following, perhaps?  
 30 Earthmover, for short  
 31 "Gremlins" creature  
 34 Ireland's palindromic coronation stone, \_\_\_\_ Fail  
 35 College with a polar bear mascot  
 39 YouTube category that might give you tingles  
 40 Darlings, slangily  
 42 "It Was a Good Day" rapper  
 45 San Francisco's \_\_\_\_ Hill  
 46 Shortly, informally  
 48 Polite bow  
 50 Chorus of shocked exclamations?  
 51 Barely visible  
 52 Clarified butter

- 53 Train track  
 54 German grocer  
 55 Manipulates  
 56 Fourth-down play  
 57 Console that included Super Mario World, for short  
 60 Half a laugh  
 61 Historical period

*Try the Crossword on our website!*

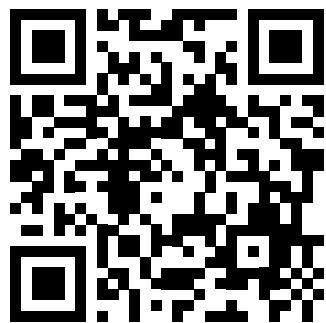
[Shamrock Puzzles](#)



# **THANKS FOR READING!**



**ACCESS OUR LINKTREE:**





*Until the fall...*