

# DEEPER

**TED** 2016

NOTES & ILLUSTRATIONS by SHERYL CONNELLY





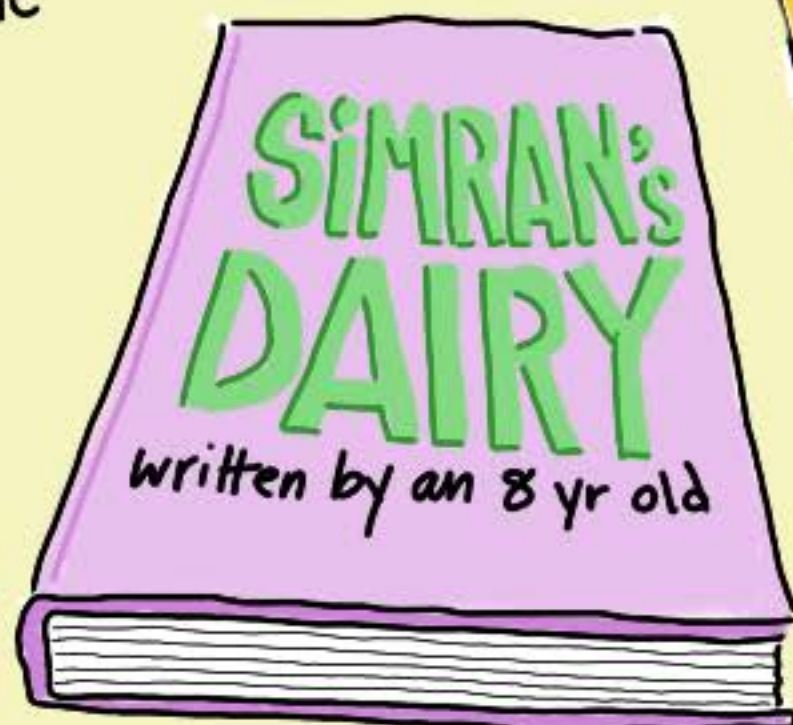


DREAM

**BIG, BOLD, AUDACIOUS** dreams - That will shape our tomorrow. These dreams can be good, **EXCITING, scary!** These are the dreams that have a lot at stake

ISHITA KATYAL

I am so excited to be in Vancouver. It is my first time. Here, the signs I ran across are ripe for inspiration. All this motivates me to do things unique. Like write songs, decorate my book shelves. It makes me happy and energized. I wrote a book called Simran's Dairy. Girls should be encouraged more than they are now.





girls should think beyond what 2 wear. A cycle starts w/ encouragement

encourage create happiness

~~ask~~ Kids ≠ what they want to be when they grow up. **Ask** what they want 2 do **NOW!**



① children are losing their childhood. Parents are focused on building a nest. Tests have us always looking ahead.

② Limitations on food & water **TODAY**. What about the future? A hungry child cannot think about anything other than food.

③ Too Short Tempered: Kids emulate what they see.

④ School Fee: Education should be a basic human right.

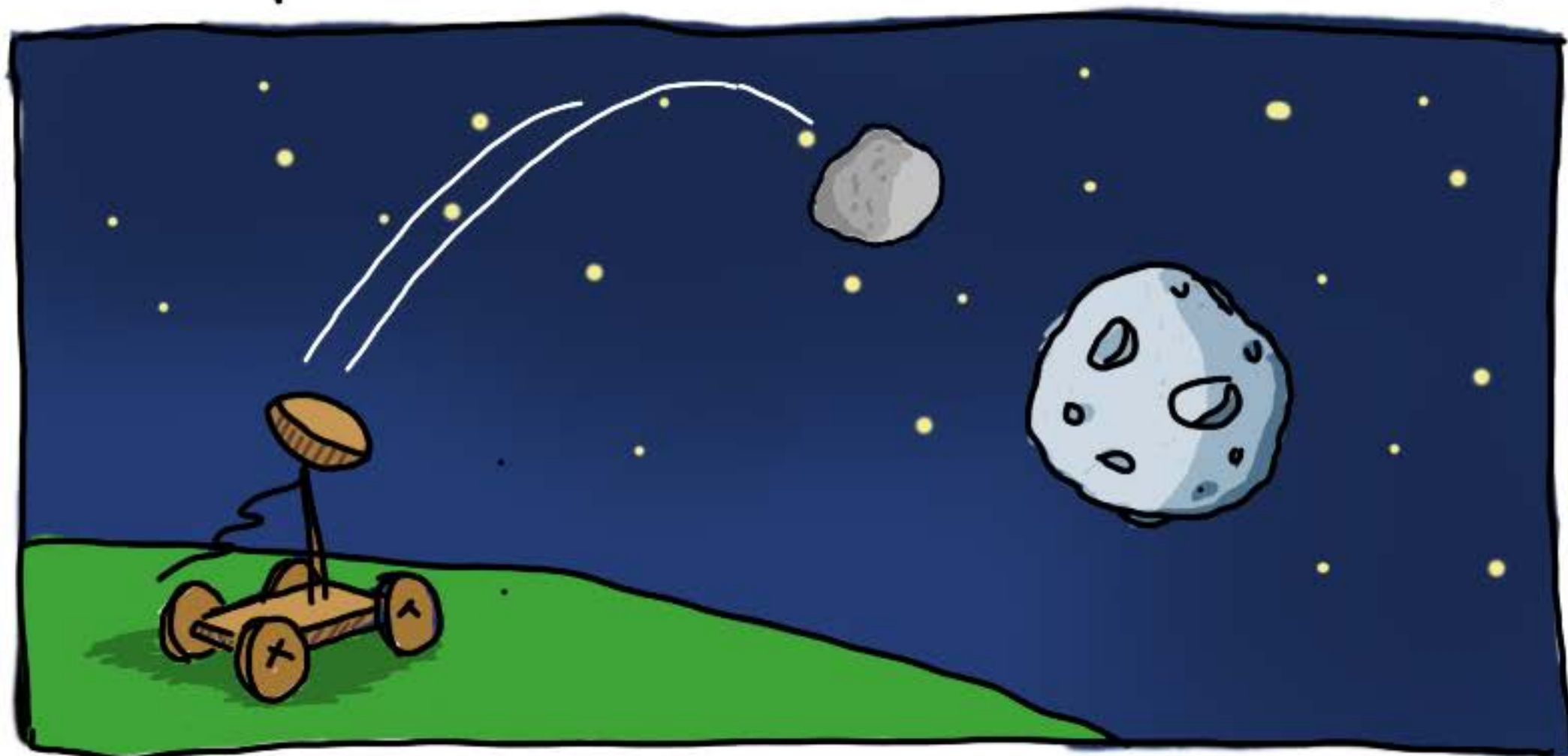
I hope U adults can look after the world long enough to give us kids our chance. Kids should have a world where they R living their dreams right **now**. **why** should we waste a moment?



The next speaker runs the world's largest R&D lab

ASTRO TELLER

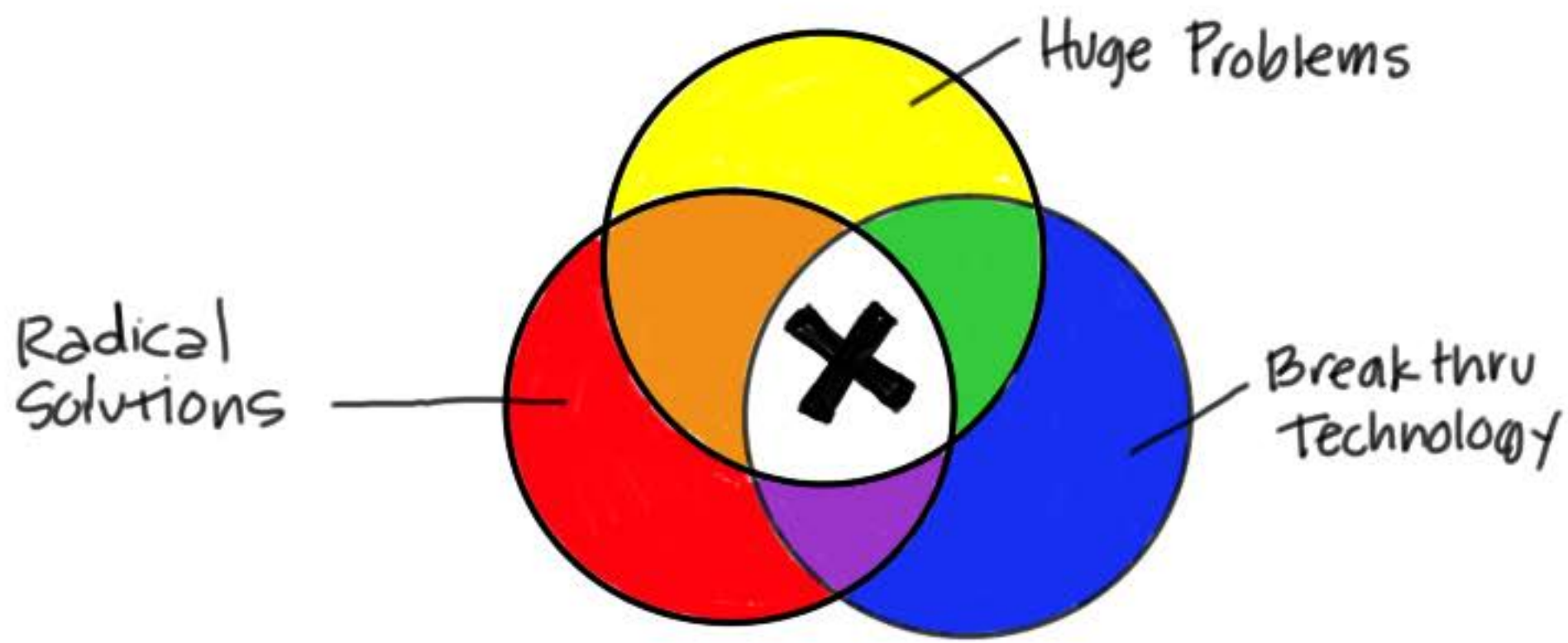
In 1962 @ Rice University, JFK spoke of his DREAM:  
The MOON SHOT— We didn't know if it was possible.  
but he put in a plan & developed a strategy



At X, fashion designers brainstorm w/ engineers  
Our "moon shots" keep our visions BIG. "Factory"  
is where we make concrete plans to make them real.

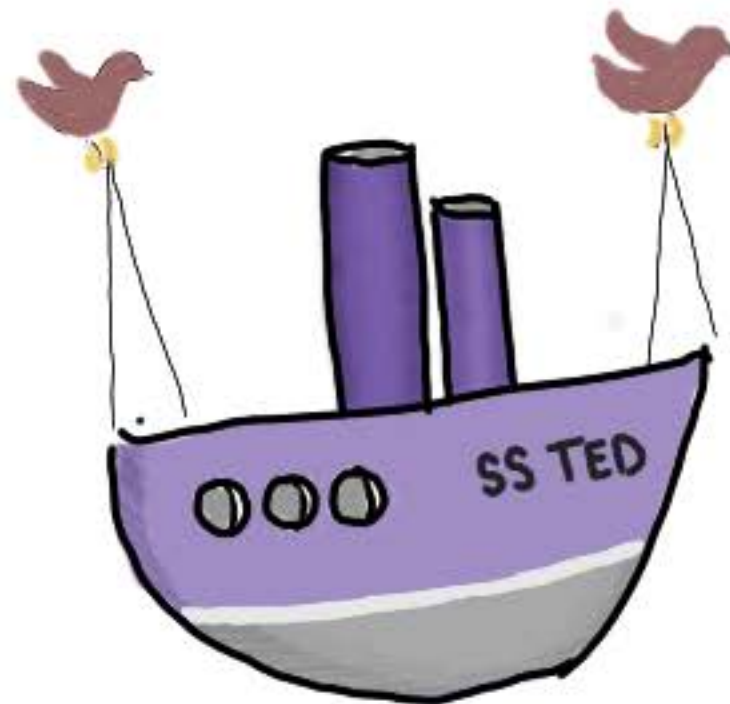
The moonshot factory is a messy place. We break  
things and try to prove ourselves wrong. We ask "how will we  
kill our project today?" This is what we call enthusiastic  
skepticism. I want to share with you some of our  
successes and some of our failures.





our project on lettuce set out to solve world hunger, but failed when we were unable to accomplish scale.

We set out to make a large cargo ship that would be lighter than air, but cost over \$200M



self driving car

gave cars to googlers but they failed to stay alert.

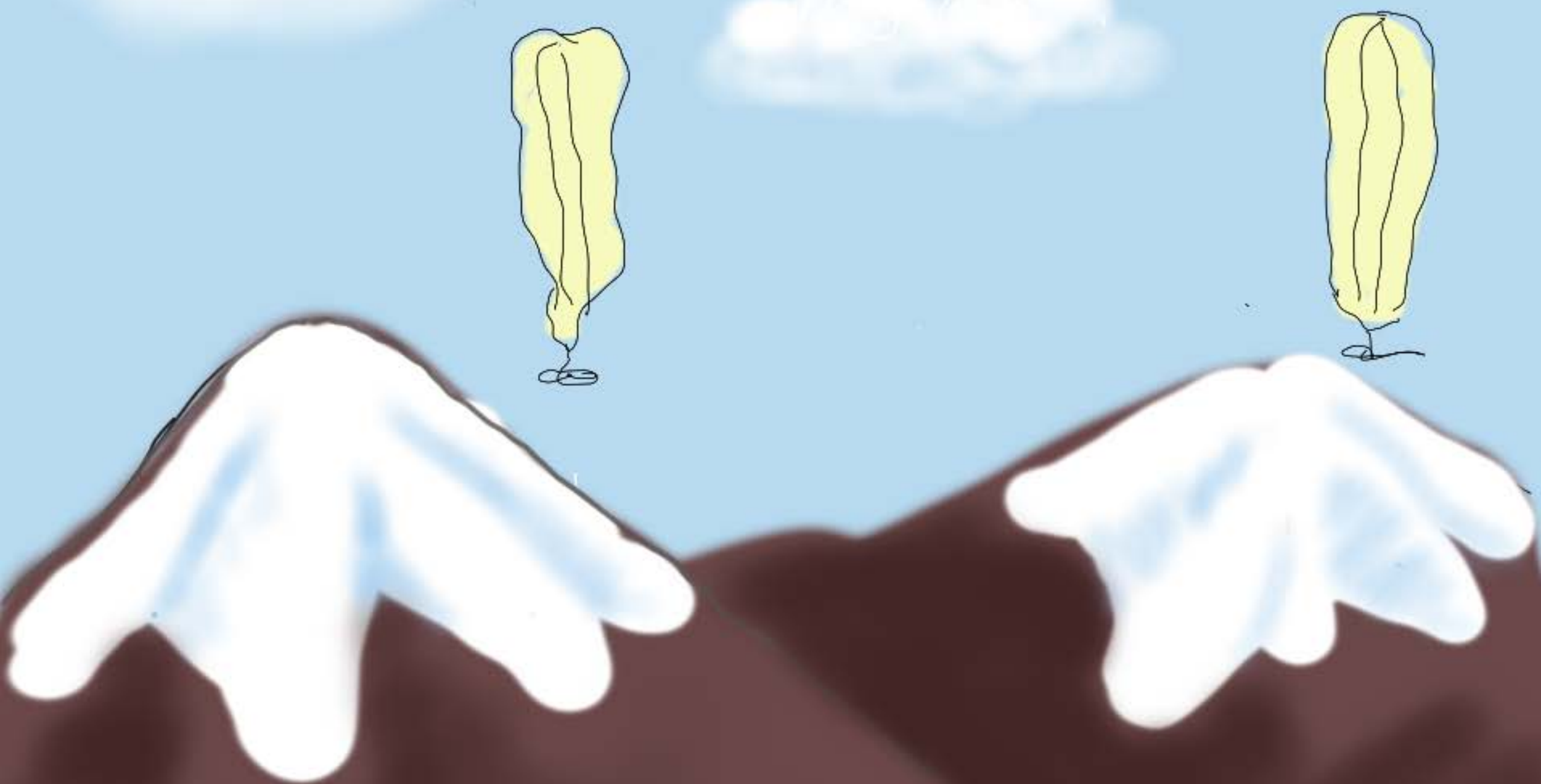
1.4M miles driven now that we shifted our perspective better than being smart.



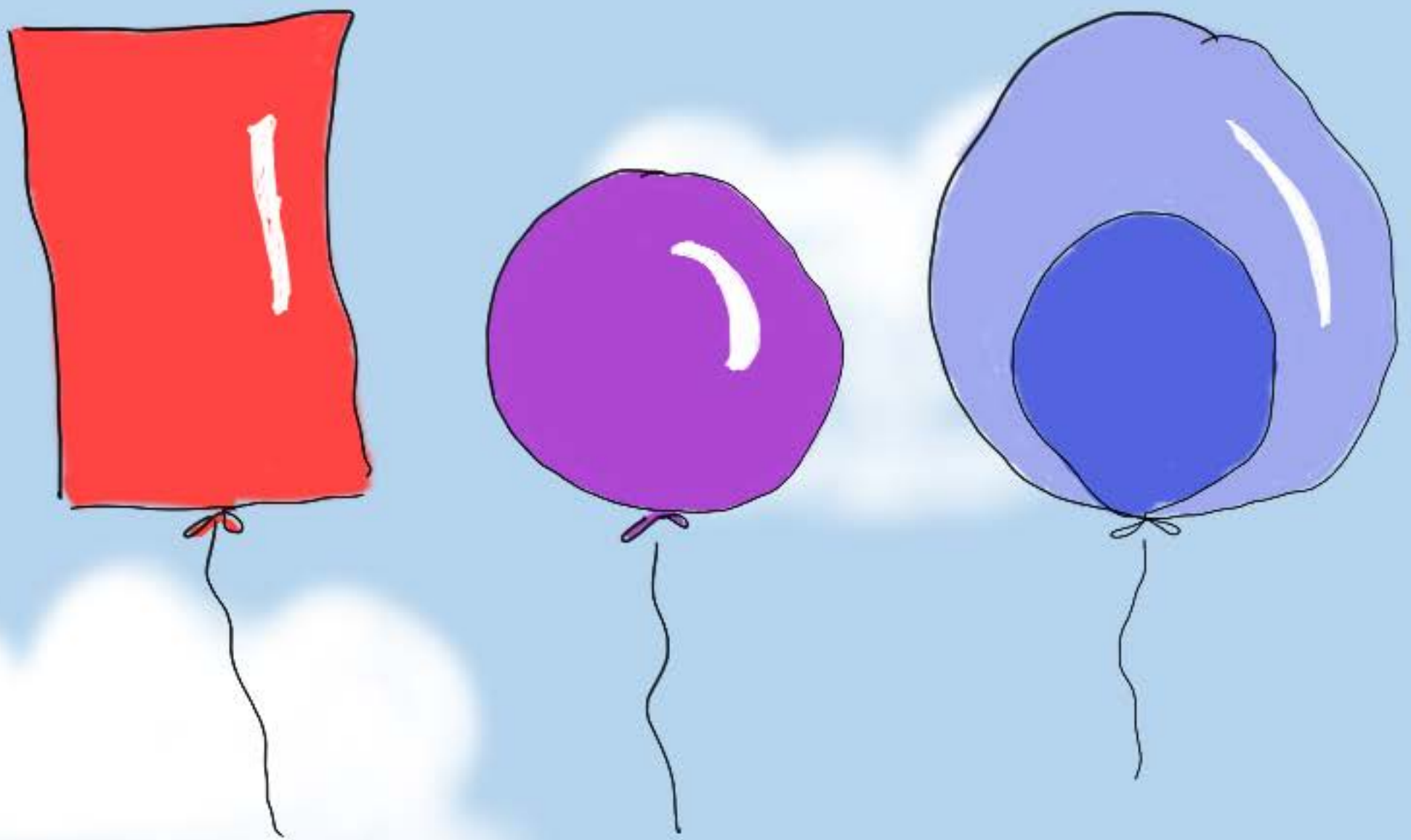
We have yet to find a way to  
KILL our wind program yet



We are working on balloons that bring satellite into remote areas  
the balloons inevitably drift. We try to time in so as one drifts out  
another drifts in. We got the balloons to talk to hand sets. Bringing  
internet to remote areas could be a game changer







We've tried several different balloon prototypes. Last yr we had a balloon that circled the world 19x over 187 days. We are going to continue to test. This may sound unbelievable. It's hard 2 get people 2 fail fast, so we are big risky audacious ideas. We make it safe to fail. Hugs, hi 5s, bonuses for failing. We believe in dreams, but enthusiastic skepticism includes the potential in our dreams.

Q - How long till TB have affordable access to the internet

A - Cost, political issues, regulatory issues notwithstanding we expect this to happen in 5 yrs. It will change the world in ways we cannot understand or comprehend.



In 1950 we discovered DNA, but it took 50 yrs to  
decode it. We need 3B codes 2 build a human.  
I've asked Craig Venter to help. Not in person, but  
by code. His code totals 262,000 pages



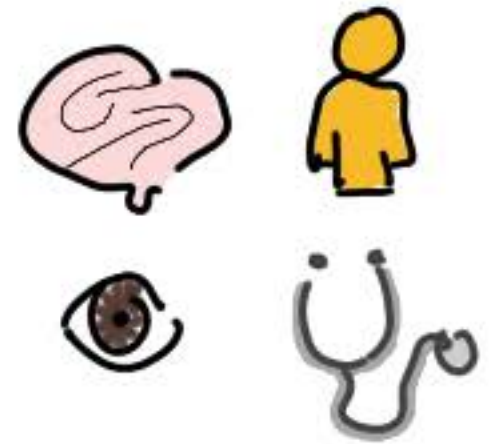




genomes



machine



phenotypes

We are using machine learning. - we can predict height, skin color, age, skin color, but we struggled to predict the human face. After 15 years, we started to see results



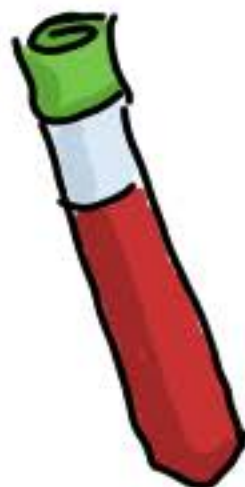
subject



prediction

The prediction isn't exact but it's in the ballpark.

VIAL  
of  
BLOOD



GENDER: Male  
HEIGHT: 1.77 m  
WEIGHT: 82 kg  
AGE: 35 yrs

actual  
subject

Male  
1.76 m  
76 kg  
38 yrs

prediction  
based on  
blood sample



Genome profiling accurately predicts some, but not all, traits

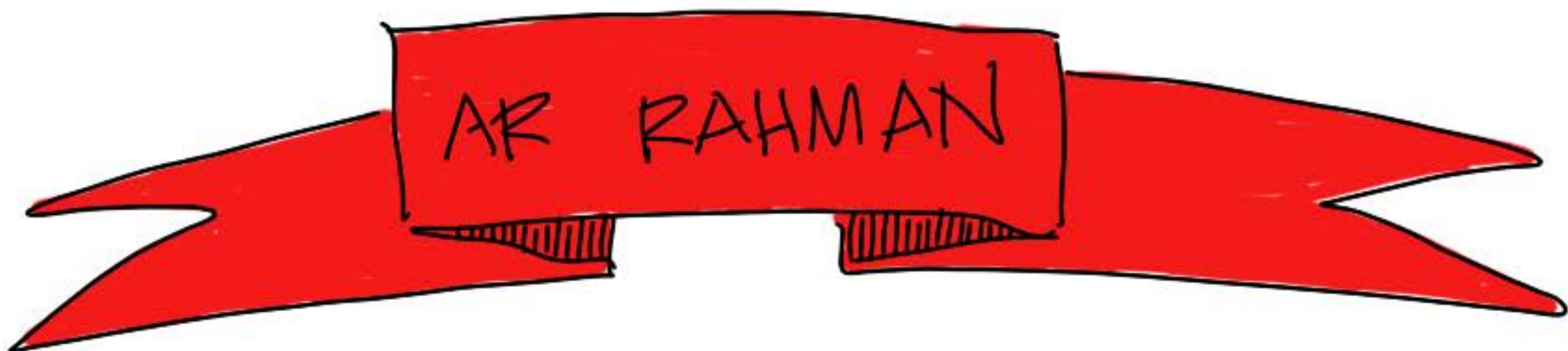


Why do we do this? The machine learning helps us understand how our bodies work, how we age, how we leverage medicine. This will get us to a future of personalized medicine. We know only 4 of the 175 books. It may help us revolutionize how life works. We need to think of this through the lens of all humanity. We can change the course of history forever.

Q. Will parents be able to choose the child they want in the future

A. This is the code of life. We need to do it now. Personalized medicine will take the guessing out of medicine. We will no longer rely on statistical analysis





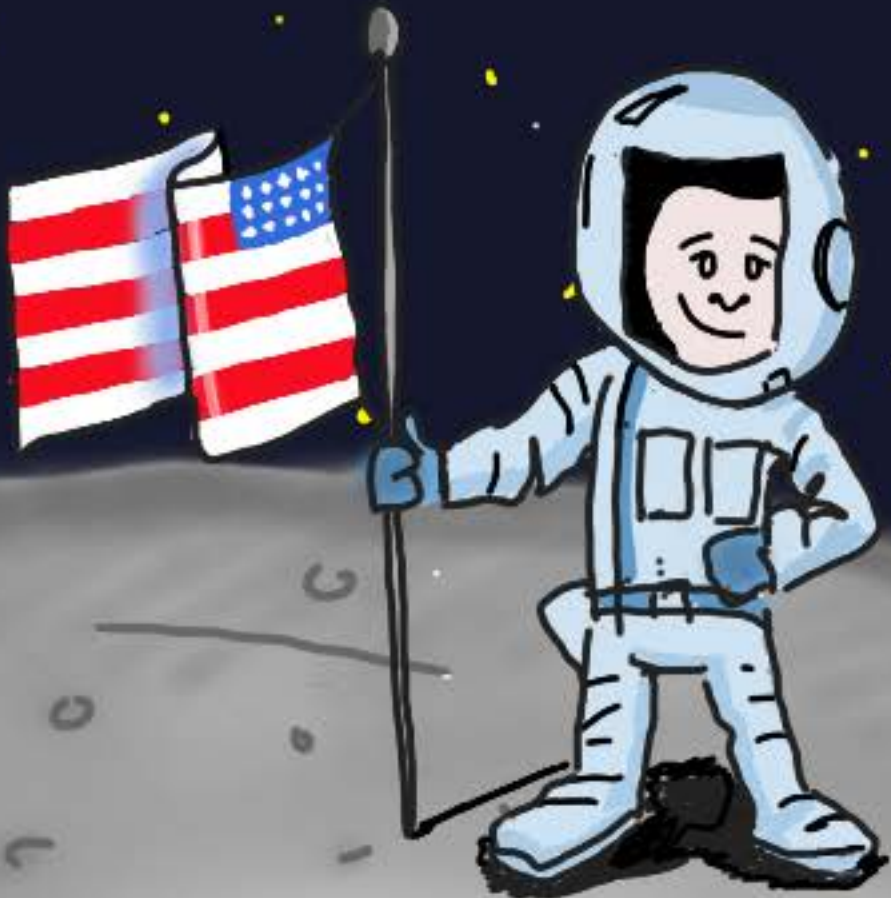


DAN PALLOTTA

When I think about dreams, I think of the first man to walk on the moon

Two things are needed for  
GREAT  
achievement

- ① a plan; and
- ② not much time





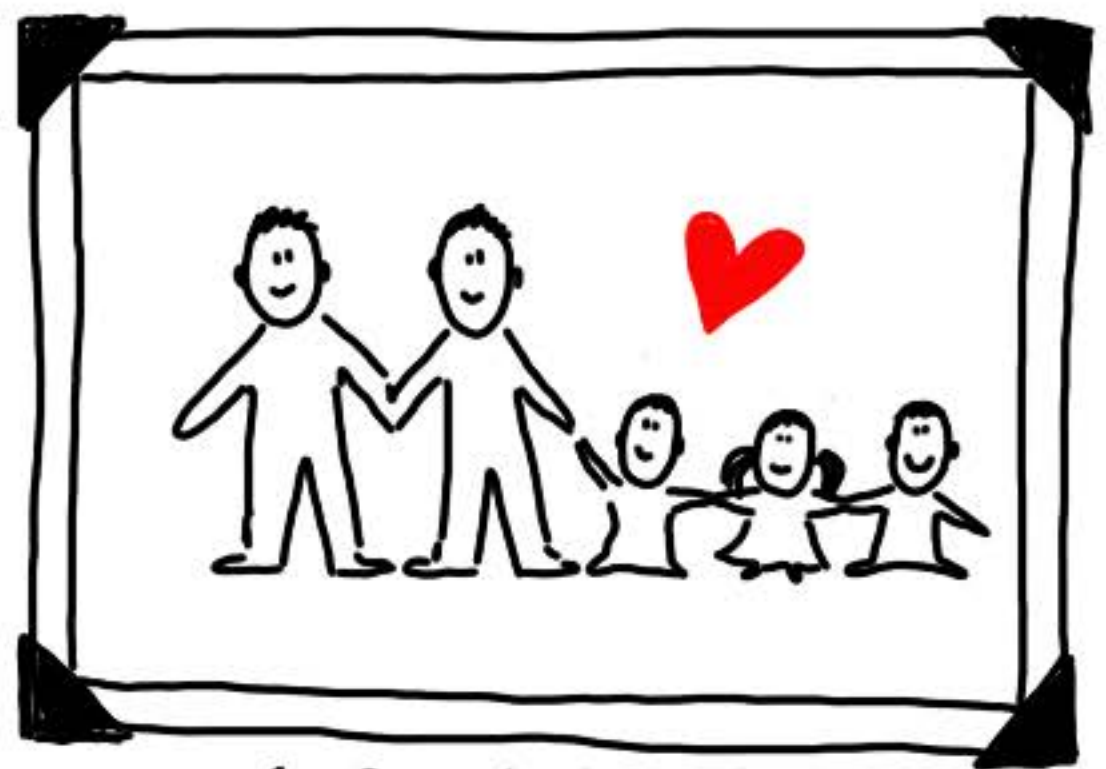


We need more of the  
courage of drag queen  
& astronauts.

Of the 30 astronauts  
of Apollo. Only 7  
marriages survived.  
What can gain if we  
can not cross the  
abyss of ourselves

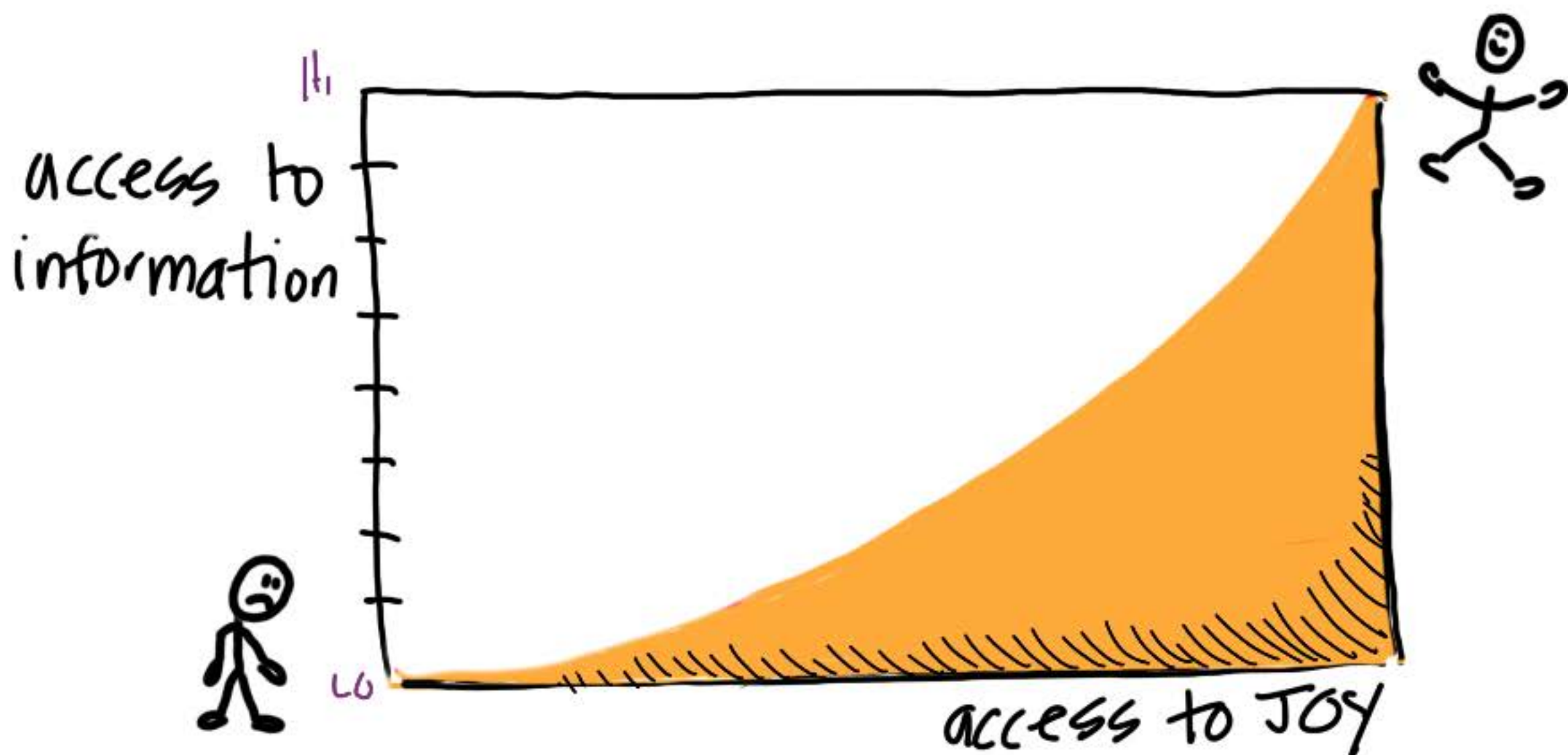
Activism & overwork destroys our  
own inner capacity for peace.

our inability to be present right now. We say that  
is the price of progress. Why don't we set a higher  
bar.



OUR FAMILY





our capacity for ♥ & serenity is not limited  
 I'm talking about wk life balance or mindfulness  
 which has become a tool 2 ↑ productivity. I'm  
 talking about dreams, audacious authenticity, to cry  
 & be w/ one another. Jonas Salk talked about a new  
 epic where we R as excited about our humanity as  
 we are about technology. In 2016, it is the  
 dimension of our being that cries out for our fair  
 share of dreaming.

years ago, I had a co that had a mantra

Humans. Kind.

Be Bold.



can we create that kind of world  
 what are your dreams?  
 Tend to Each others Dreams



We fear that we will be denied the opportunity to fill our potential. To be human is to live w/ that fear.

# TED

Tend to Each Others Dreams



SHONDA RHIMES

For one yr I said yes  
to anything that scared  
me. public speaking?  
Acting? live tv? yes.  
yes, yes. Yes chgd my life  
one yes chgd my life  
I have three daughters  
Harper asked me to play,  
I vowed to say YES  
everytime they asked.





this also saved my career. People might think I have a dream job. I'm a titan. resp for 70 hrs of TV, 5M. \$350M a season. I air to 67M people worldwide.

47 hours of the 70 I personally produce. No one else is doing this. I tell you this bc "writer" doesn't fully describe. So a dream job is a job, less dream. I love it. I love wkg. Its exhilarating & exhausting. What makes it



good is the hum. Most people think the hum is about writing, but its much more action, activity. Gods whisper in my ear. That feeling is what makes u strive for perfection. I know I'm not built for failure. The more successful I became, the higher the expectation. Am I nothing but that hum? then the hum stopped. Harper says my man won't be there but u can text my nanny.





My kids were 12, 3 and 1 when the hum stopped. I was no longer having fun. The work started to task like dust. If I  $\nabla$  the hum, then I don't know what I R when it stops. Then my daughter asks me...

Momma, do you wanna play?

When did my southern waitress stop calling me honey. I do a dramatic readg of 'everybody poops' its ~~to~~ remarkable, but I pay attention. PLAY is the opposite of work, something w/ me loosens, and someth a hum creeps back.

Now I know a secret, its not a secret, its not magic. its LOVE. Its the real hum. Its joy specific. Being excited by life. the real hum is God's whisper - not telling me I'm a titan. It is love. Anytime my kids ask me to play, its not a choice. Play isit easy. i'm not interested in it as I am in doing work.

LOVE

IT'S  
THE  
REAL

HUM



the truth is humbling. I like wkg more than I like being at home. Facing that fact is difficult. I call myself a titan. I've got issues. Let's be honest I itch for my cell phone. I play until I hear the hum. Say yes every time they ask you 2 play. Typically, I become invisible after 15 mins. You can pull off 15 mins uninterrupted. This is about JOY. I feel as often as I succeed. Give yourself attn for 15 mins. Not working brought back the hum. Work is not work who play. Now I like that hum. I don't love it. Work's hum is a pc of me, it's not all of me. the more I play, the better I become. I feel the real HUM, - the non-titan hum - it lets me know who I really am. I said yes to more play, less work. Titans need not apply.





# BILL T. JONES



pregnant



smold  
schwartzenecker



beef  
cake



nudist  
colony



ed-  
a morse



I was 19 when Arnie Zane & fell in love. He wanted me to take me to Amsterdam. I called my mother to ask my mother, Estella, for my birth certificate. She told me to come home.

She asked me what R U doing "f-ing" a man in the 2000s. My father, Gus, told her to leave me alone. "He's a man? when did things become so binary."

Yesterday, I was sleeping off the travel. Know today was going to be my birth day. I was here, working. I wrote the daughter of Belle Winslow. I learned Belle had left this world yesterday. Belle really got me. She was 92

the last story happens when I'm trying to think about you thinking.

The second last story... I never knew when I meet people if they see..

- a man
- a black man
- a sex object
- a social experiment

My dad was a migrant worker. but he wanted to be a black Yankee... When I was 3 or 4 I had to dispose of a dead animal my sisters & I threw it over an embankment... spinning it into infinity



Before we dream about the future we have to understand where we are. Tools, science, math lets us make patterns to help us understand. Welcome to radical repatterning



There is a fact I absolutely ♥! One of the things that has helped our homospapiens is our lack of body hair. This feature allows humans to regulate our body temperature. Of course, now we are dependent on clothes. What kind of clothes varies quite a bit.

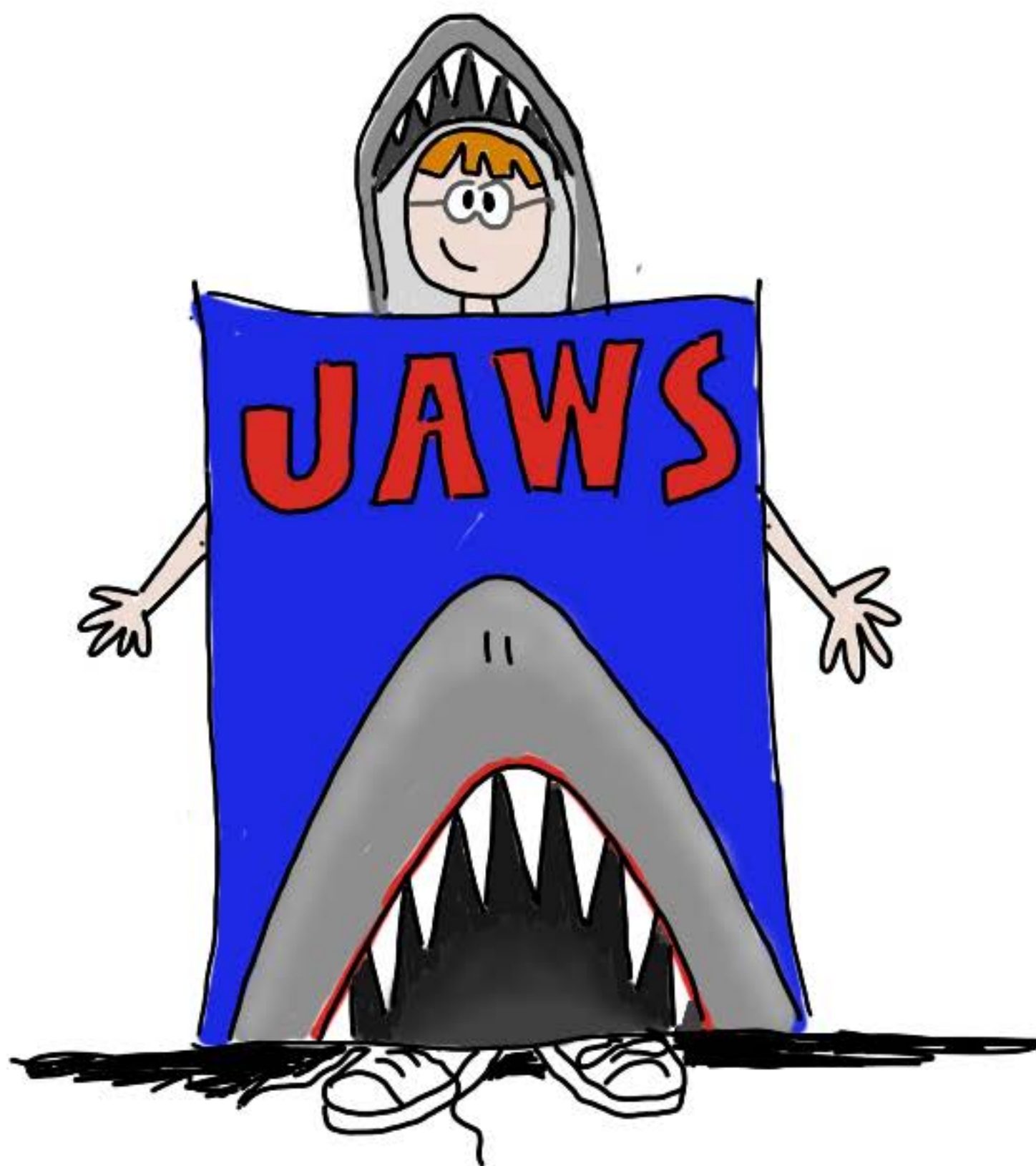
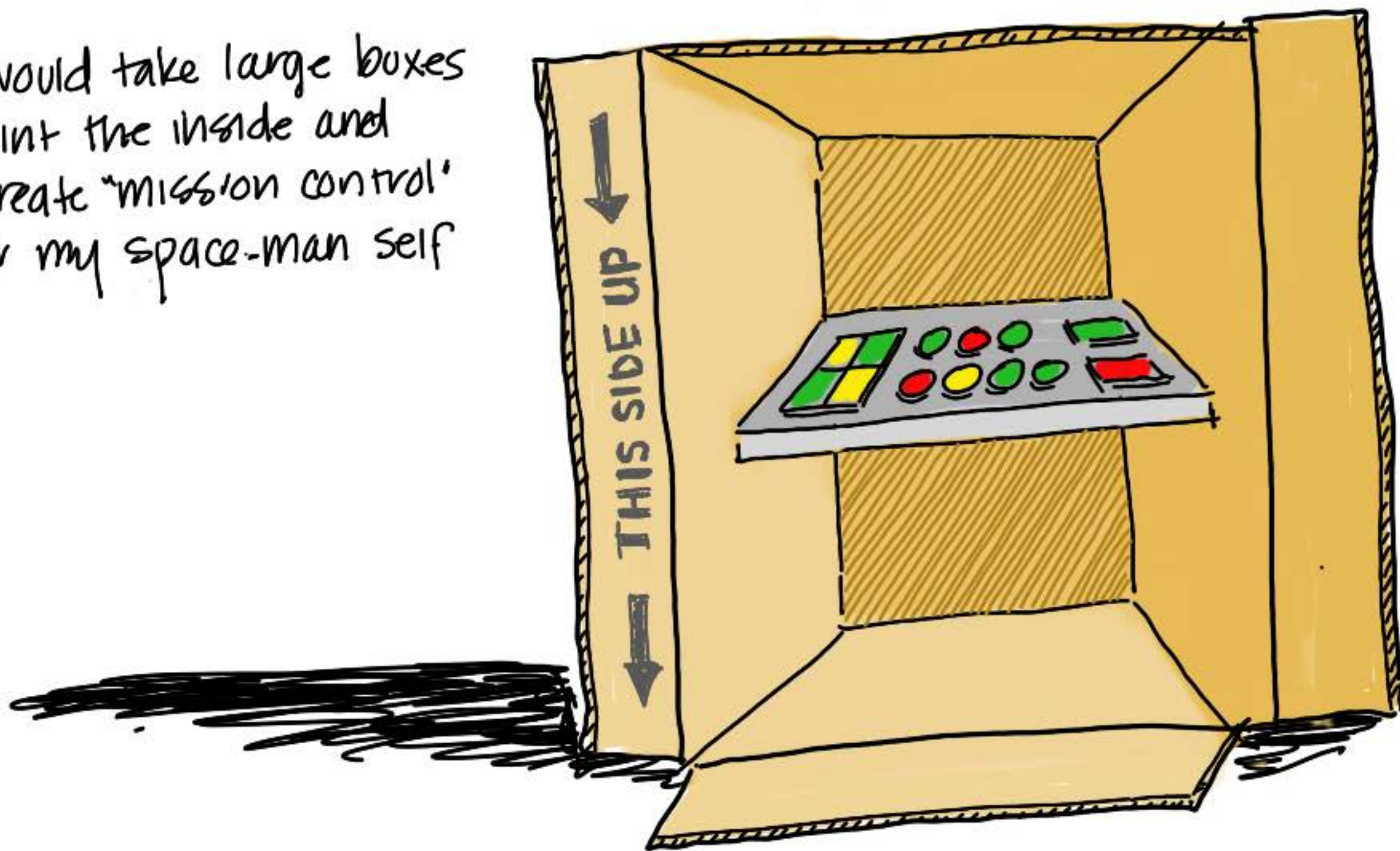


Look Ma! I'm going into space  
— Adam, 8yo

I was a lonely kid — When I was 8 yrs old someone told if I asked the local Baskin Robbins, they would give me the empty 8 gallon drum in which the ice cream was package. When I got the container, I cut out a hole into the drum and made myself a space helmet.



I would take large boxes  
paint the inside and  
'create "mission control"  
for my space-man self



Several years,  
the movie JAWS  
was all the rage.  
My mother  
surprised me with  
this store bought  
Jaws costume



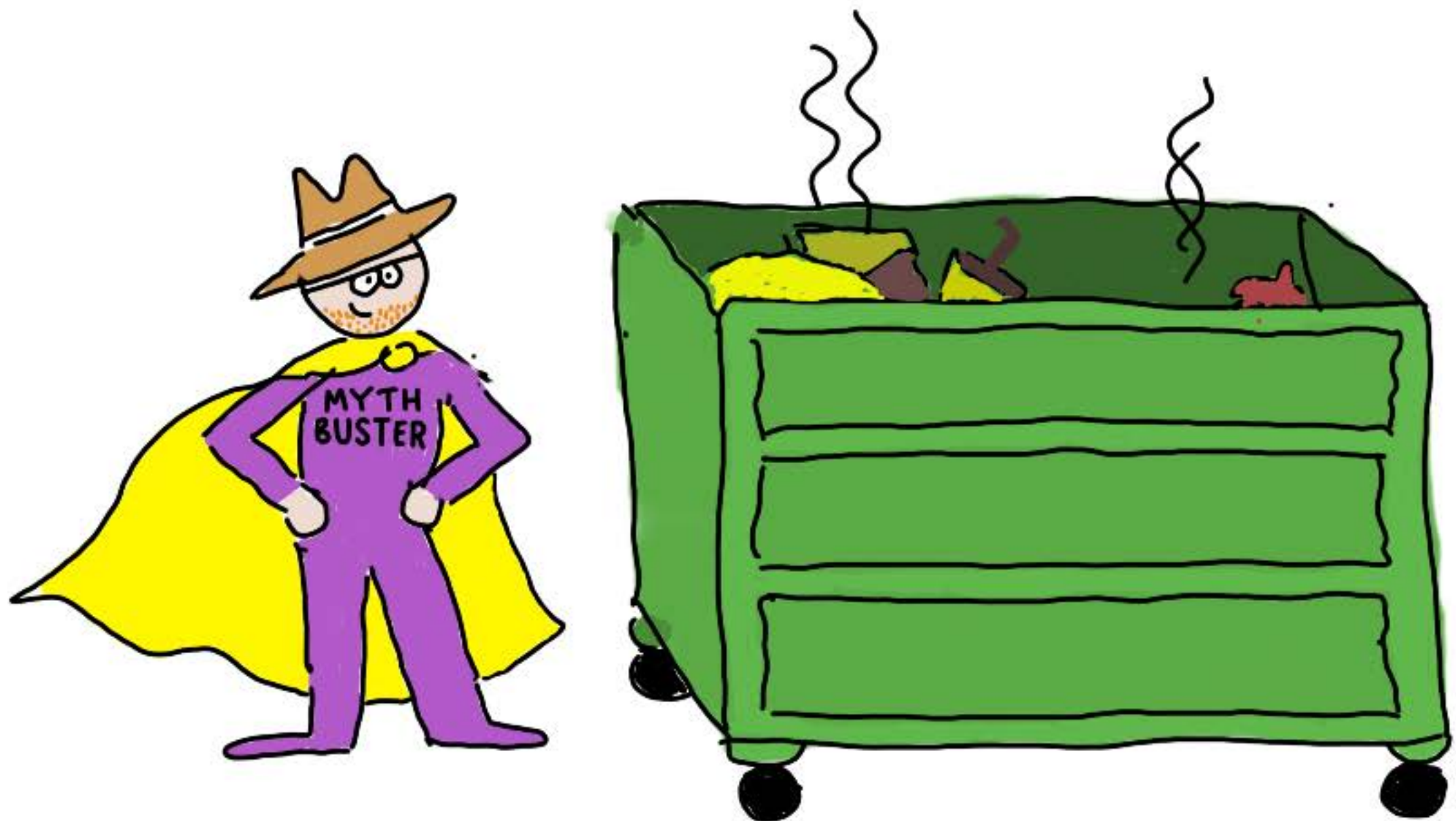
My father took me to see Excalibur. even though I was underaged. I was mesmerized. The knights wore their armor always



My first suit of armor was not quite successful. However, my dad made me another suit of armor w/ real aluminum tubing. I ♥ it & wore it to school w/ pride I was soon to discover that not only was it hot. I couldn't sit down it. I passed out from heat exhaustion. When I awoke in the nurses office, my first & only concern: where was my costume?







On mythbusters, we wanted to explore dumpster diving. I show up on set & my crew laughs but the producer in me knows the cape will film well.



i got invited to comic con & dress as Hell Boy. COS-play is when fans dress as their favorite fictional characters. They rehearse their costume & pose. It is beautiful to watch.

i dressed as Heath ledger joker, Chewbacca. I dress up as no face.





I adopted all the manners & gave out gold pcs. 15 mins in someone grabs my hand & returns the coin. I wonder why & it happens 2 more times. I see someone walking away in distress. It is bad luck to take gold from no face. Cos play is now we reveal ourselves to each other

Next up is Math - winner of maths nobel prize



What do French people do better than others?



love



wine



whining

&



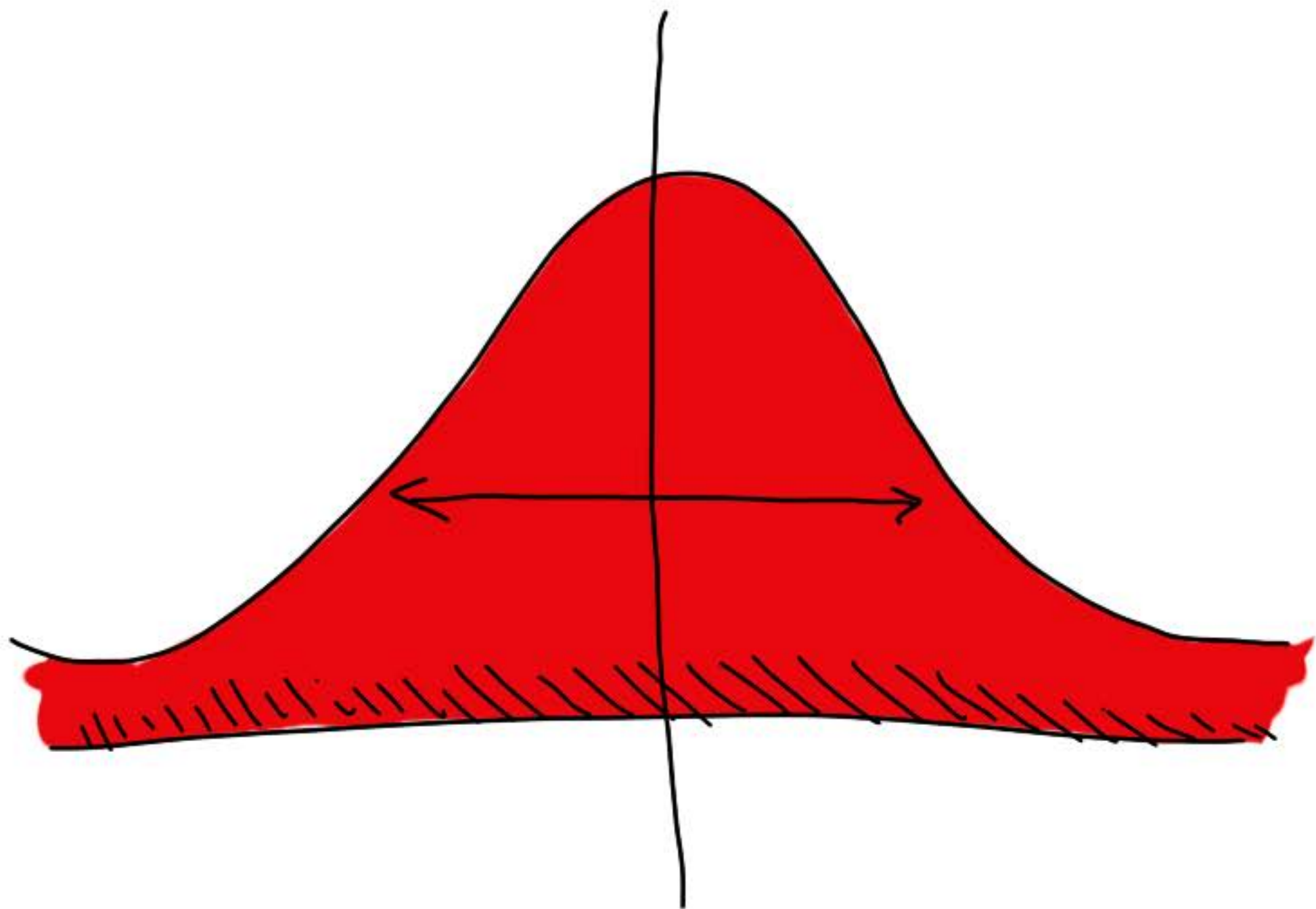
math (24)



They have more mathematicians. & more NP winners  
Math may be abstract but it's about reasoning,  
finding the truth. - one expert likened this to  
sexual pleasure but it's reward lasts hours, days  
& weeks. close your  
eyes & particles are  
bombarding u

## GAUSS CURVE

Law of Errors

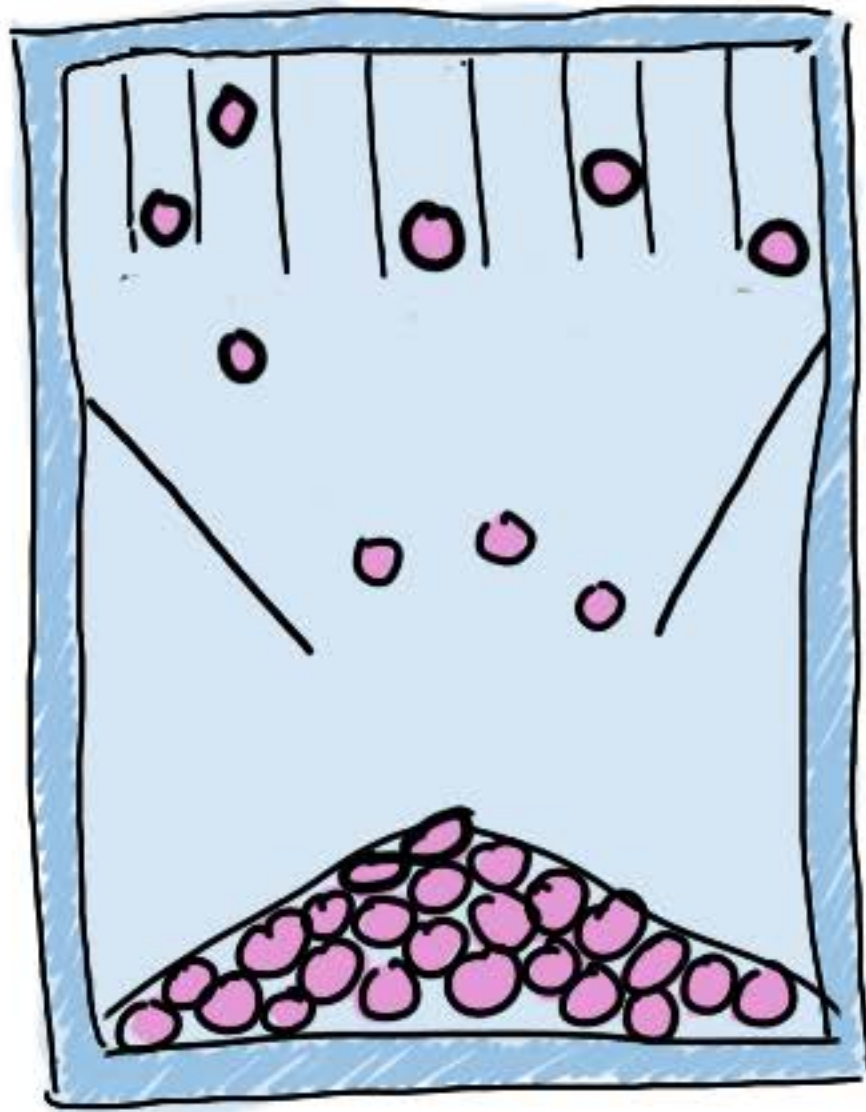


this curve is the supreme law of UNREASONS

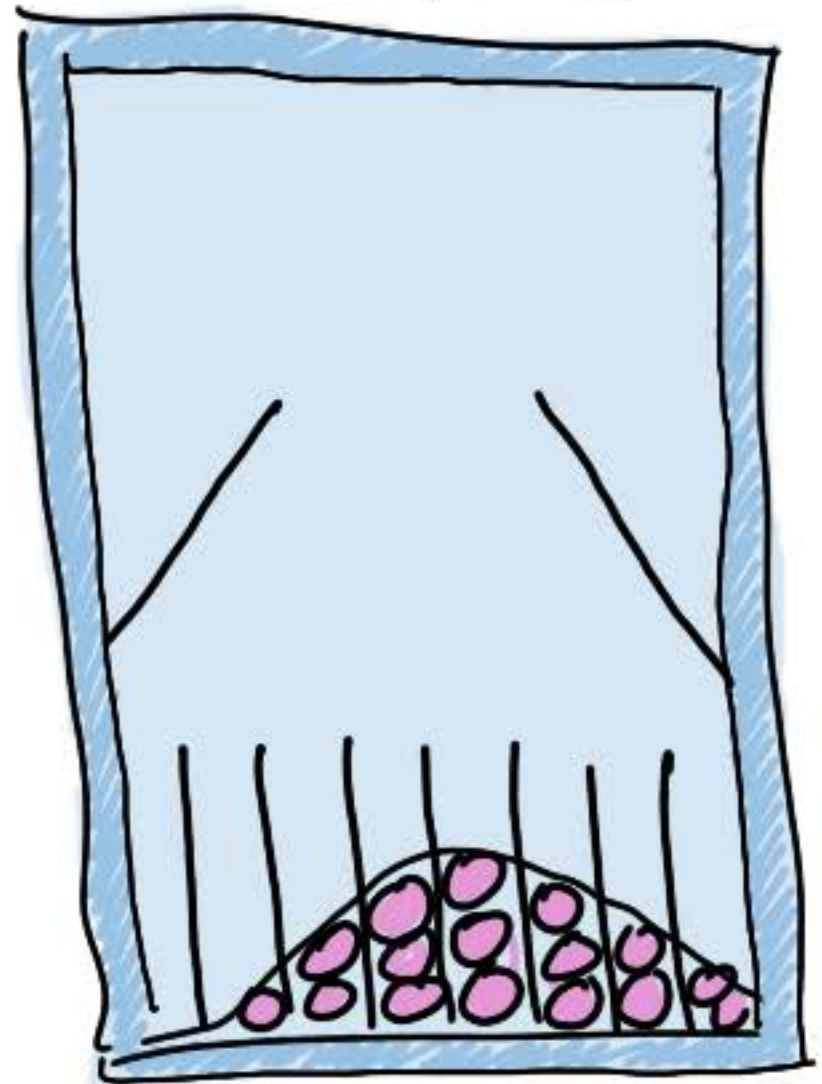


# GALTON'S BOARD

UPSIDE DOWN

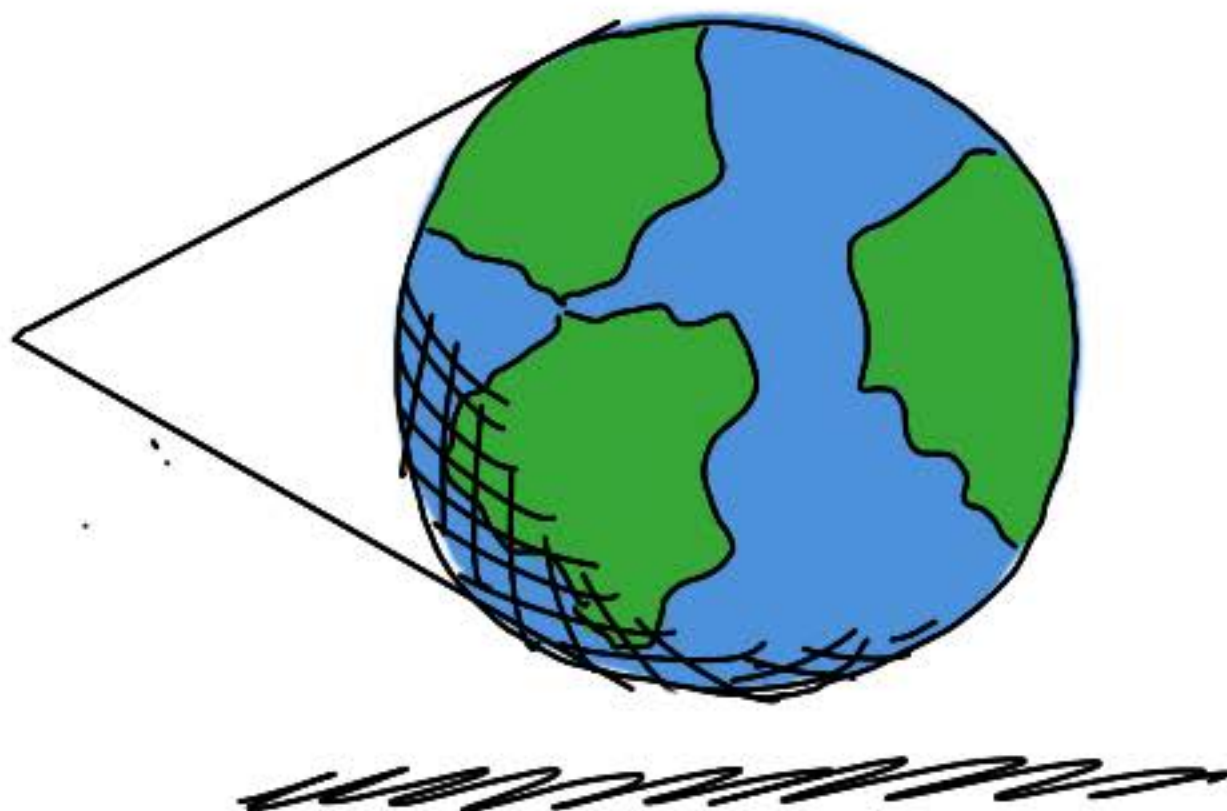


RIGHT SIDE UP



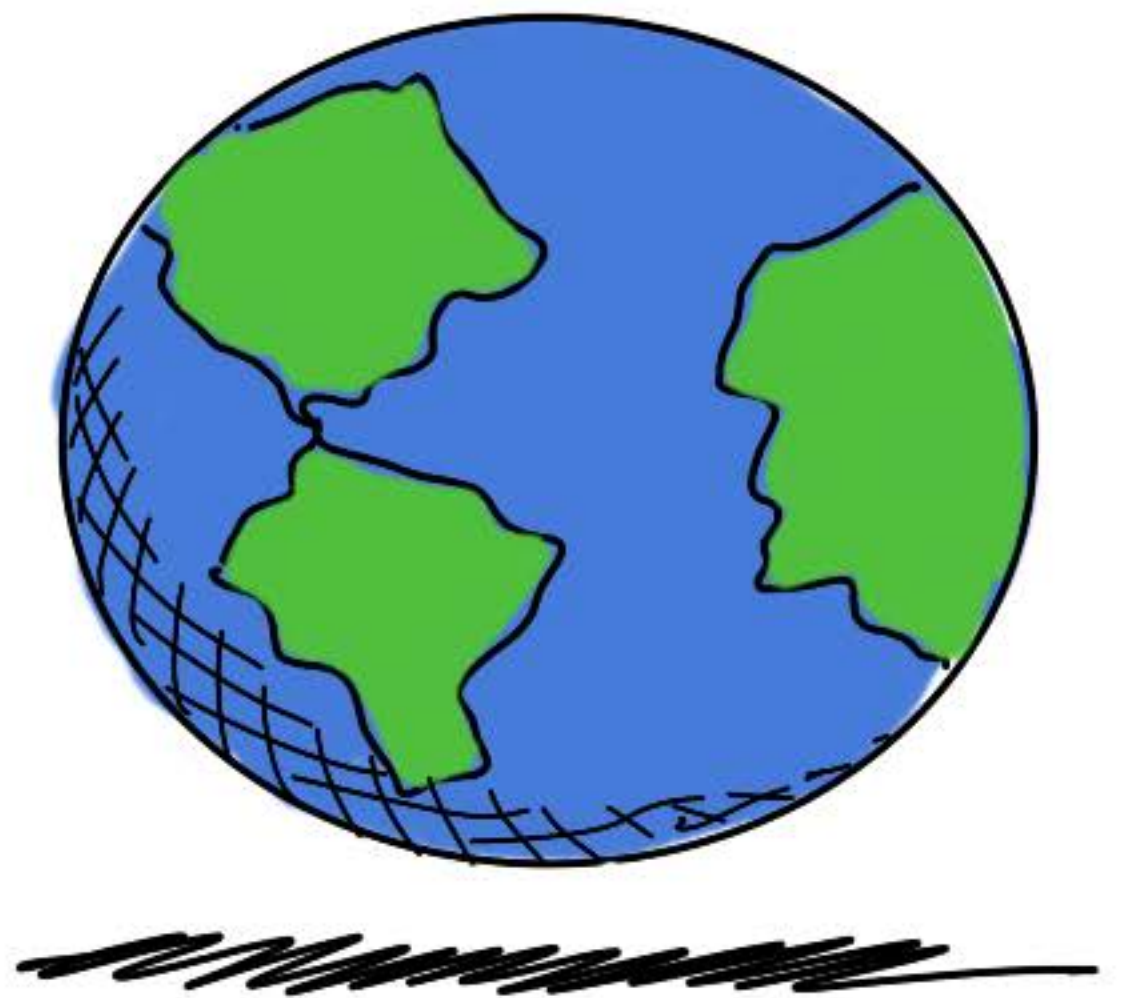
Why does it follow the curve? It is not a beautiful coincidence? It happens for a beautiful reason this curve proves our world is made of atoms. Even the ancient Greeks, used math to measure the earth within 2% accuracy

accurately  
measured  
within  
2%

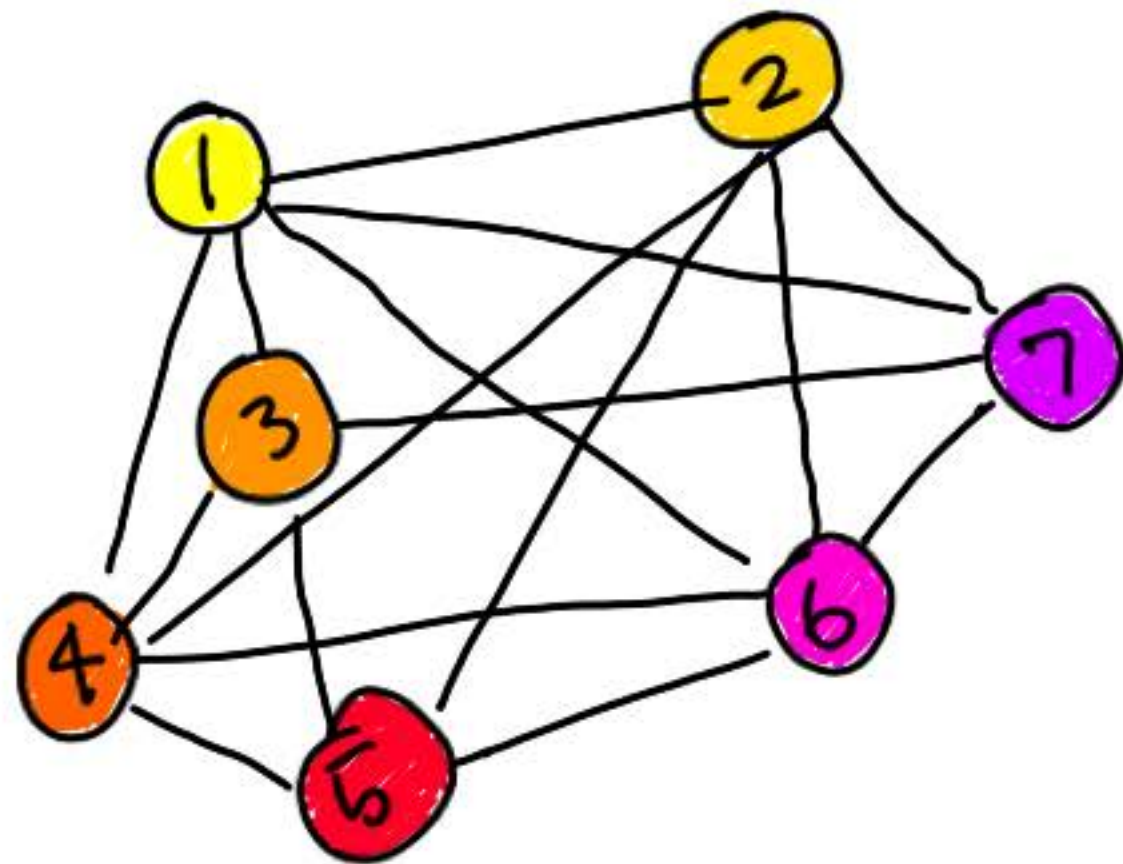
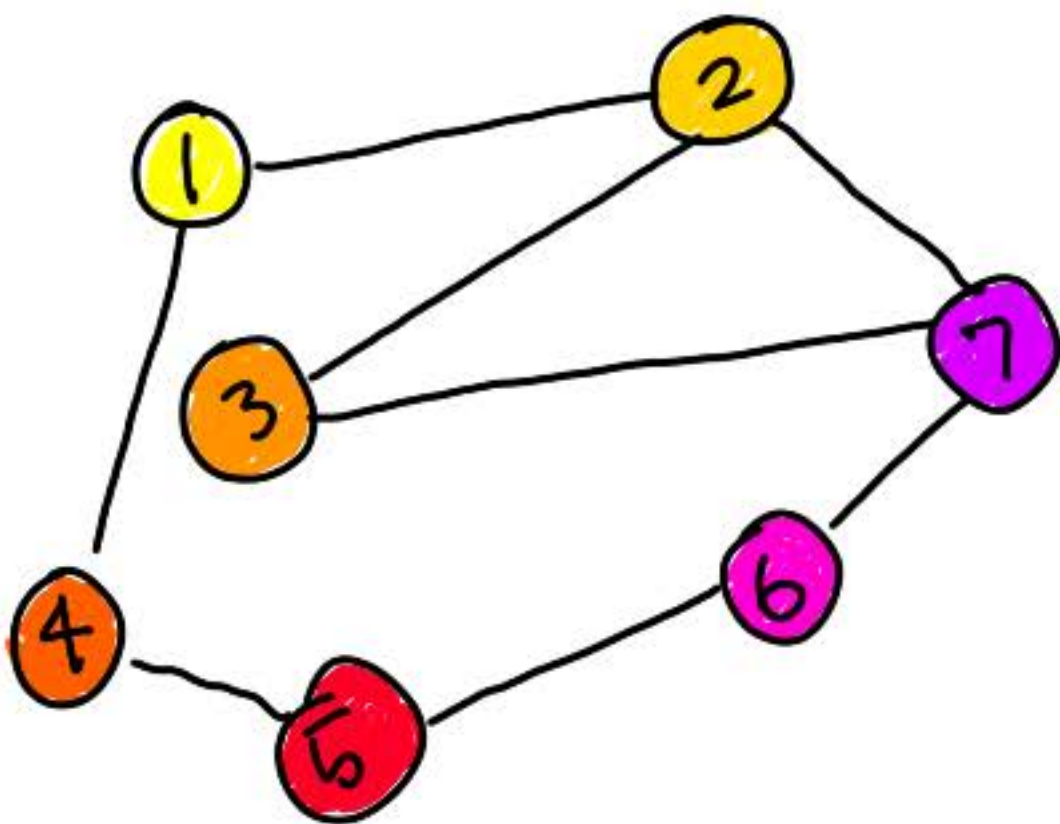




Isaac  
Newton  
earth is slightly  
flattened



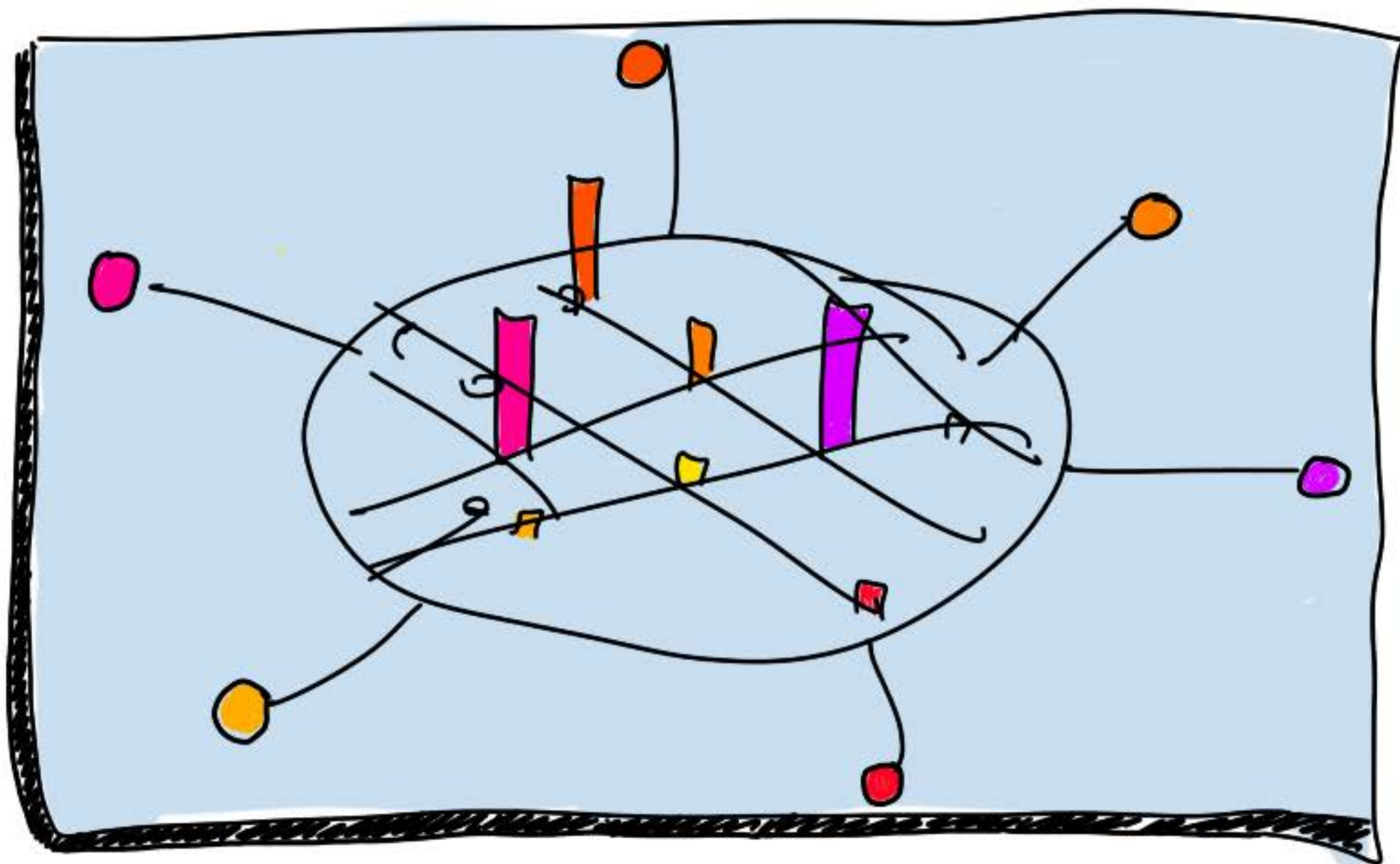
math allows us to go beyond reason.  
Consider the internet, imagine you're a detective  
working on a crime case. There are many differen-  
t witnesses.



you can use math to determine what witness is  
the most reliable



enter random movies. the highest spikes  
show which connections R the strongest.

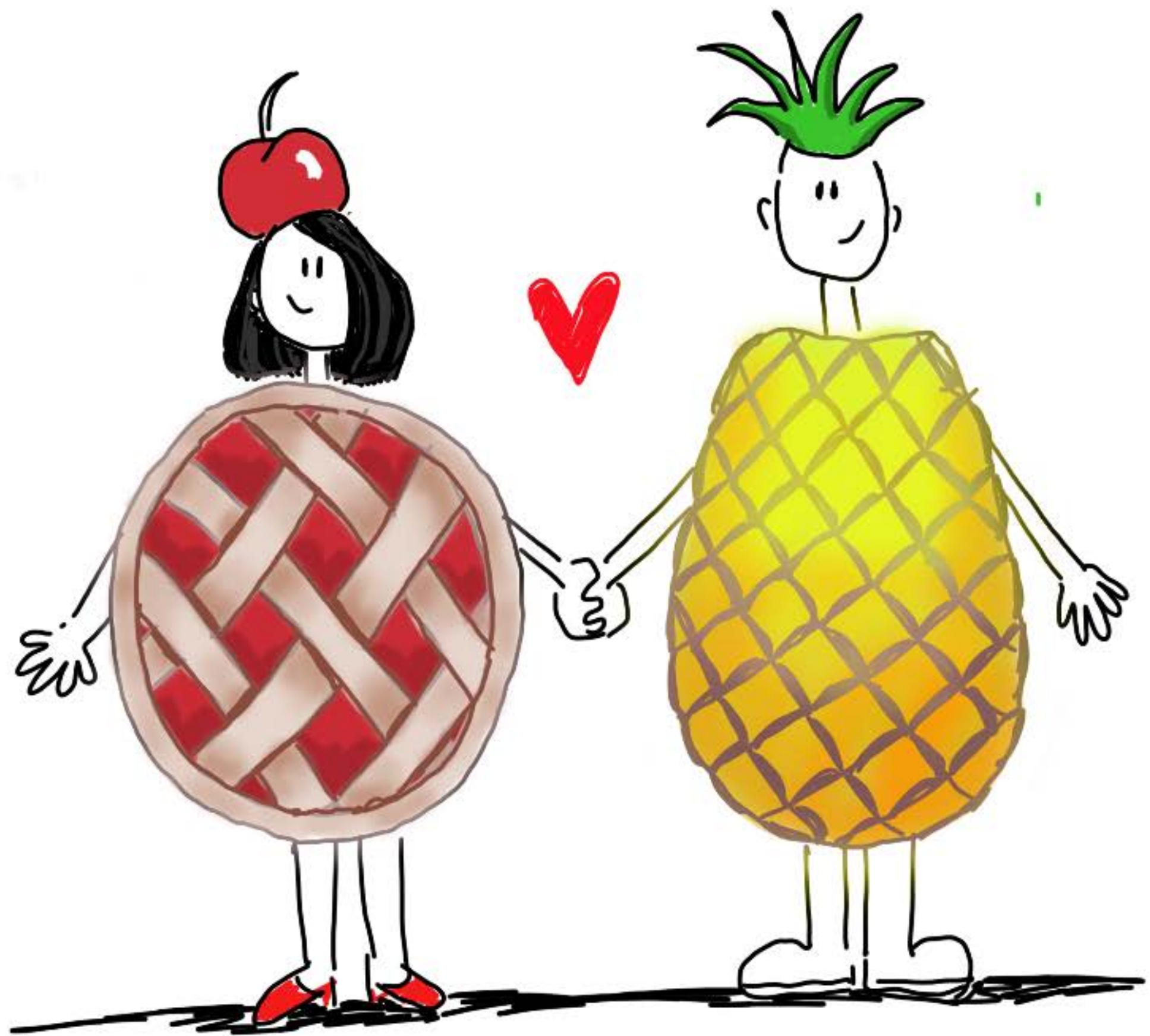


Mathematicians ranked in survey as BOTH  
BEST & WORST jobs.

there is big money 2 be made in Math. Americans R  
are the best. With all this beauty, influence & wealth  
math would be more highly regarded. It can be a  
life of frustration. one night I was struggling w/ a  
plasma problem. Together w/ my former students we had  
been wkg for months to solve it. I had actually mistakenly  
announced we had a solution. But one night I go to



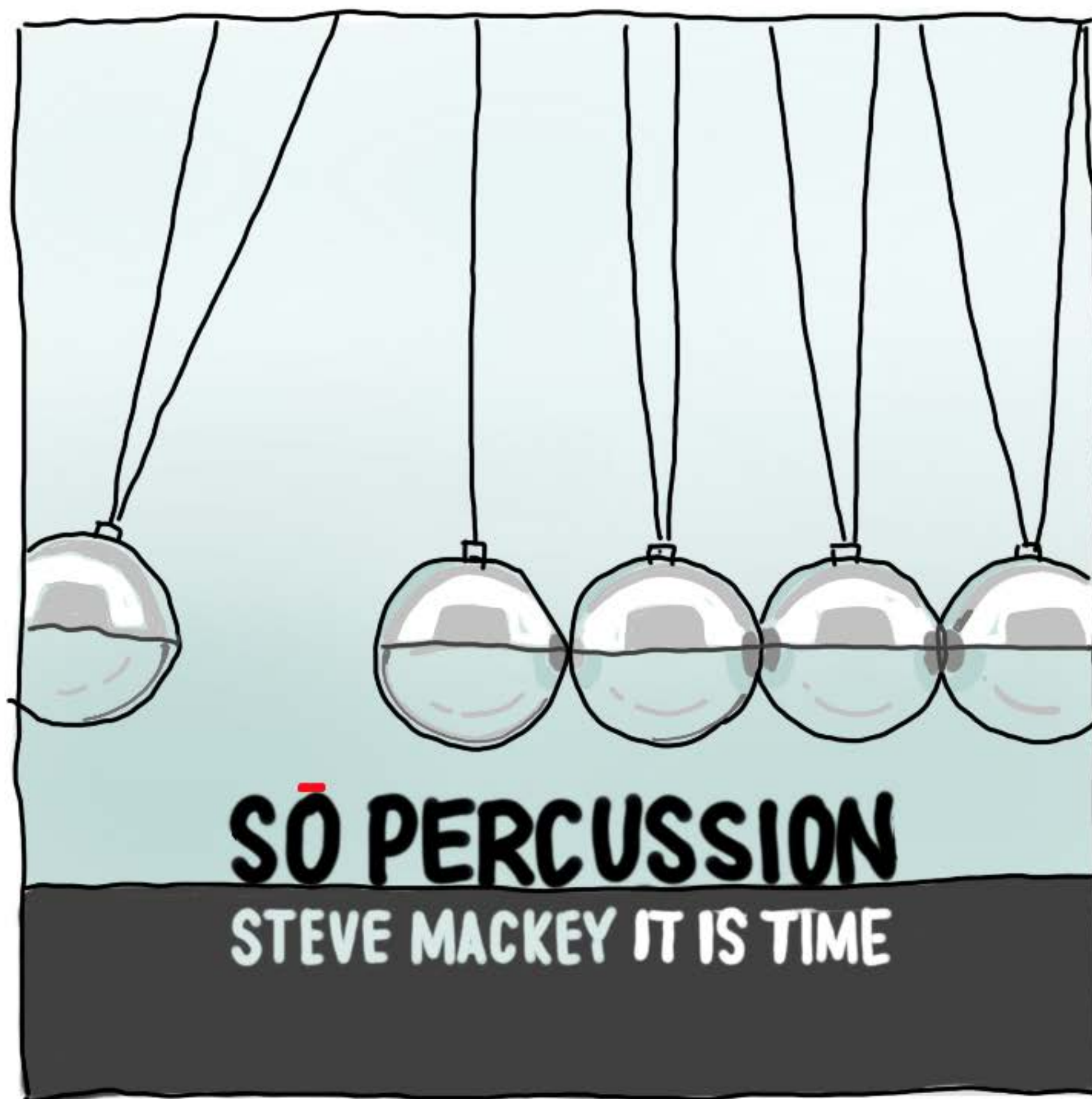
to bed at 4 am w/ great frustration. The following morning a voice in my head told me to look elsewhere. I thought I had needed a rest, but my brain kept working. The solution led to an extraordinary honor. Everyone can appreciate the magic of math.— we are trying to establish a museum of mathematics in Paris. I hope you will come join us and share the dream with us.



SCRABBLE VIDEO



# SO PERCUSSION



\*



Science, math & precision are amazing. They helped shape the Internet. Some complained it hadn't realized its full potential. Peter then claimed we dreamed of flying cars & all we got was 144 xters. But in recent yrs the sharing economy emerged.



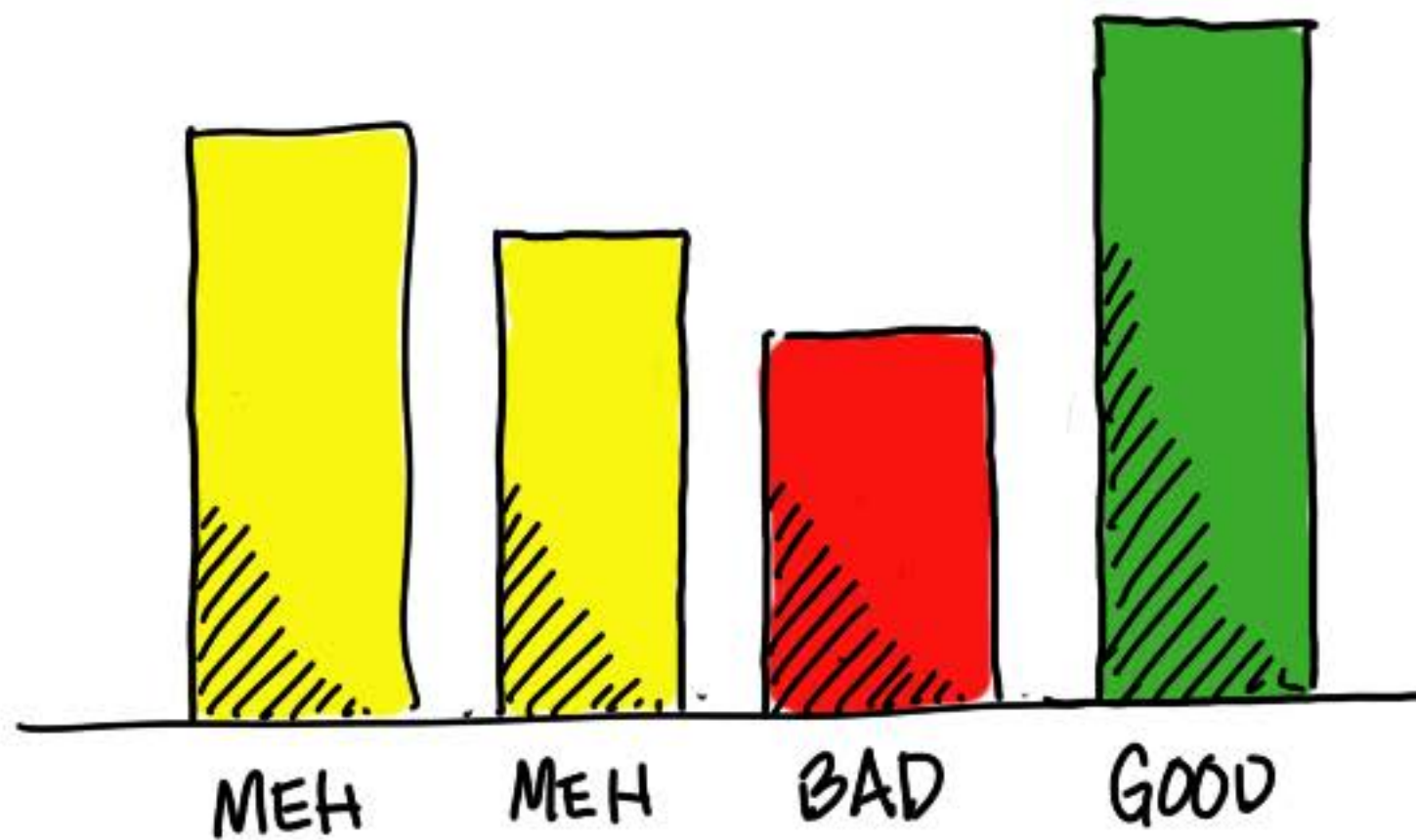
I almost got kidnapped in trunk of red Mazda. I have a garage sale & a man shows up to buy a pc of my art. I invite him for drinks. He tells me he is going into the peace corp & no place to stay. On impulse I offer him an air mattress to sleep on my floor. I immediately regret it & fear grows. But it turns out to be fine. Two yrs later, I'm unemployed w/ a roommate & my rent goes up. I learn there is a design conf in town & hotels are all booked up so we place ad. inviting 3 guests. This is how airbnb was born.

When we launched our website we prepared for our idea to take off. It did not. We had all been taught to fear strangers. We wondered if we could come up w/ a way to design for trust. Let's try an experiment. Take your unlocked phone & pass it onto the person on your left. The panic U feel is how 1st time hosts

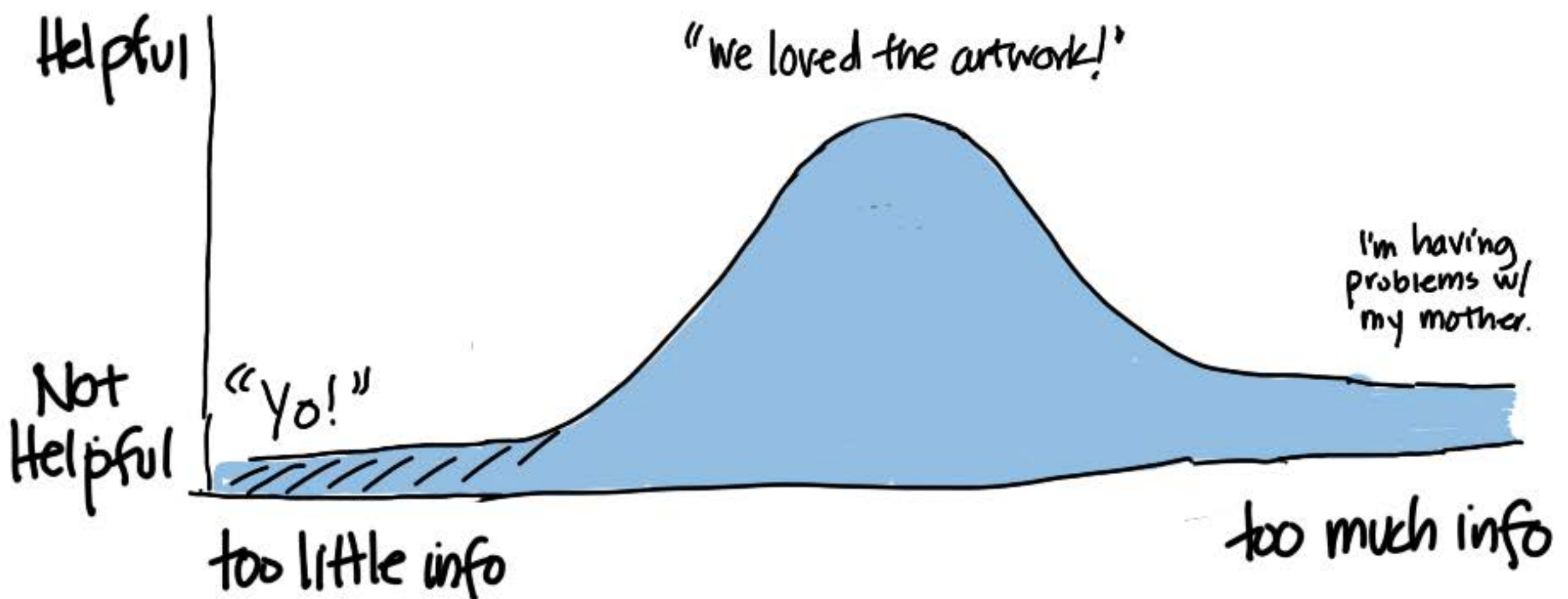


For those of u holdg someone else's phone, you feel a sense of responsibility, this is how the guests feel. What if u had a well designed reputation site? our 1st attempt had problems. It is hard for guest to criticize the experience

Reputation of participants is key



High reputation beats familiarity in terms of similarity



sharing can let us put bias aside.



there are times when things don't work out & trust is broken. eg. parties owners lock all guests. But only a fraction of 1% have had problems. In Uruguay, a guest had a ♥ attack. Host donated blood

Excellent house for those w/ myo. cardio infraction. They save your life & let u stay at your house extra nights w/o charging you. I highly recommend.



Homeowner donates blood for AIRBNB tenant in need.

The sharing economy is commerce plus a sharing of themselves without that. it would just be rent. Today's homes are designed for privacy & separation. But what if they were designed to be shared. Some is matching students w/ empty nesters. Took public parking & made it available as community parking. Design can overcome our most deeply rooted stranger danger bias. What else can we design for next?

Uber has created 1M driving jobs. & given us a chance to imagine a future of not owning a car



FOUNDER OF UBER

Go back 100 years, there was an UBER before UBER. The jitney was invented by a car salesman who saw long trolley lines in LA



He offered rides for .05¢ (aka a Jitney)  
(a jitney). Within one year were given in cities in mass

45K

In SEATTLE

50K

In KANSAS

100K

In LA

Some were not happy w/ the Jitneys progress. So they put in lots of regulations. E.g. Requiring a minimum shift of 16 hrs of driving, or requiring two drivers per Jitney. By 1919, the jitney was regulated out of existence. This required car ownership. By 2011, there were more car sales in China than in US

We spend 7B hours wasted in traffic. One fifth of carbon footprint due to vehicles. 96% of the time the car sits idle. 30% of land is used to store them. Cities have been dealing w/ this problem for decades. 2.5M cars cross NYC's bridges daily



2.5M cars cross NYC bridges daily

this is because mass transit can't get u to ur doorstep. In 2010 Uber was for people who wanted to push a button to get a ride. We noticed a lot of duplicate rides in SF. before Uber Pool.

In LA 7.9M fewer miles driven  
1.4K metric tons of CO<sub>2</sub> taken out of air.  
We have added 100K new people to carpooling. 1.5M UBER POOL trips per month in China.



What about the suburbs? How do we promote UberPOOL. We came up w/ UberCOMMUTE. U become the driver & we will match you w/ a rider. The US govt values miles at .54 cents. but @ 60¢ a mile U R a criminal. Regulations are becoming the obstacle the jitney lost its chance. But we have another chance. If every car were a shared car we could reclaim our cities... starting today.

Q Last wk Uber redesigned its app.

A When we 1st started it was just black cars. But as we're gone global, we now include ride-shares. A U doesn't mean anything in China. We were nervous about the new app, but nos. are better than expected

Q Some feel you've gone too far. eg. some women were upset how did it feel inside the company

A It was hard times but we felt like we were good people doing good wk. 4 years ago we were 400 people. Today we are 6500. We grew fast & it was difficult.

Q Uber drivers in NY are mad as hell bc you chgd your fees. U R chging the global economy. R u ready?

A Uber is 1/2 the price of taxis. So drivers make more trips per hour w/ greater earnings despite the price cut. As for question about being ready... I enjoy hard problems. We get excited about the hardest problems when I solve it you get a little bit of a wow factor

Q What happens to your drivers when self driving occurs.

A Self driving will take more time than the hype. It will be great for time & safety. This is a challenge that is welcomed by optimistic leadership. Can we partner w/ cities & help w/ re-education.



can powerful tech happen outside of small companies. Then I met a group wkg 4 the govt who made me rethink this. The US digital service.



A story of a start up in the US govt is unlikely. 137 is ave number of days a vet waits for medical assistance. She must navigate 1000 web pages & 900 numbers. There is real tangible costs. It's not just vets. We encounter this problem when renewing your drivers license or passport.

**94**  
**PERCENT**  
OF ALL GOVT IT  
PROJECTS  
**BEHIND**  
*over-budget*

I can order a gluten free meal for delivery in 10 mins. But a mother on food stamps struggles to get what she needs when she needs it. Govt is a lifeline to many. This is why Govt needs to get its shit together. In 2008, I wked on Obama's campaign. My 1st computer was running on Windows 98. The govt spends over \$86B on IT projects. But 94% of projects are over budget & behind schedule. 40% of those will get scrapped. Failure is inevitable. Radical disruption is the only option.



The solution is in our own backyard.  
The US digital svc is a network of  
start ups to help govt deliver world  
class services at lower cost. We do  
not care about politics

peaco  
corp

darpa

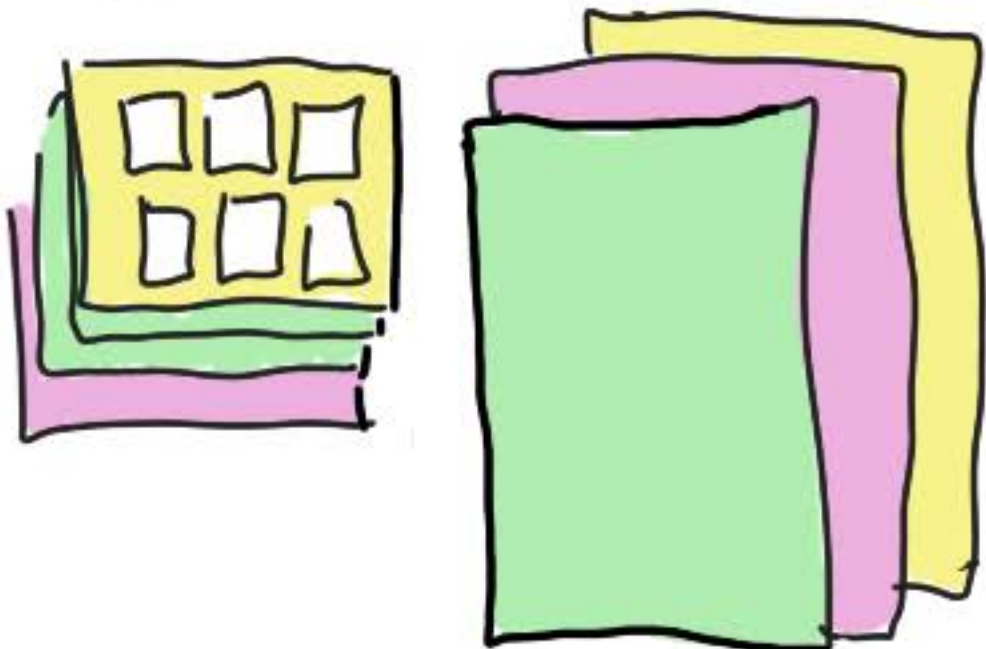
seal

Our play book is simple

- recruit best for short tours of duty
- pair w/ existg civil servants
- start w/ key services
- give massive coverage from above.

Classic patterns of disruption is take  
something from outside & apply it  
somewhere it is a radical departure from the status quo. This  
wkld when we fixed healthcare, gov. Our tech corp is growing  
rapidly. We didn't exist last year & now are outgrowing our space.  
The team has top talent from google, Amazon & facebook. And over  
half of us are women. We wk on taxes, social security & student loans

(A) immigration, process



6 - 8 mos to process.

6 yrs & \$1.2B funds yielded no results  
the digital service deployed 5 people  
3 mos later. - the replacement green  
card took 6 mos, now it can be filed  
entirely online. it is better for the applicant  
& employees alike.

(B) American Overseas Test:





VETS.gov



the website is one stop shop for educn & disability benefits  
when I started wkg on the campaign in 2008 I never imagined  
myself where I am today. Walking out of the wal office

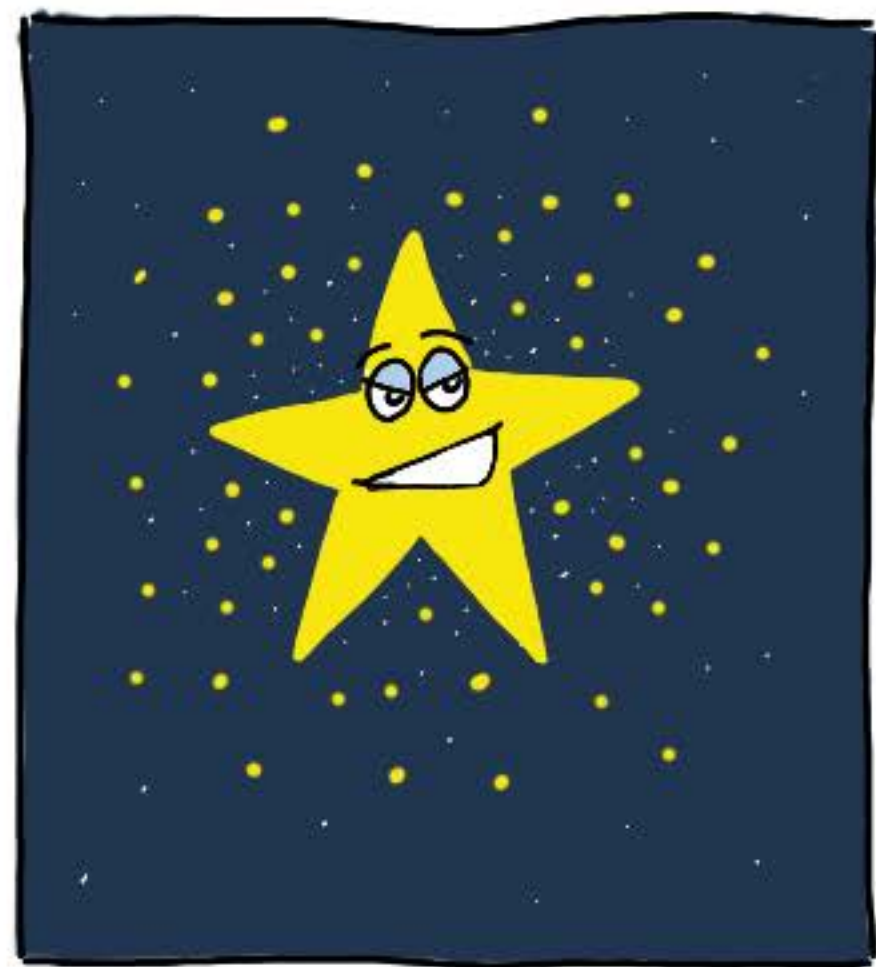
NO PROBLEM OF HUMAN  
*destiny*  
IS BEYOND HUMAN BEINGS  
-JFK

If we don't, who will? Our government is 'us'. The question  
is NOT can we? It is WILL WE? WILL YOU?



WANDA DIAZ MERCED

Once there was a star. She lived for a very long time. At the end of her star days & xfermed into a supernova, out shining the rest of the galaxy. Super nova are very extreme. Like an ice skater pulling arms in the rotation increases, dragging particles into its orbit. Giving xtra energy to outshine the galaxy. My star became a magnetar. Gamma Ray burst are measured in light. Yet gamma ray burst are the strangest they cannot be seen with the naked eye. We measure the energy in plols.



"twinkle, twinkle, not-so-little star..."



without burst



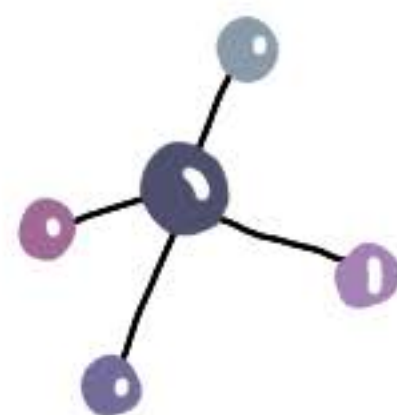
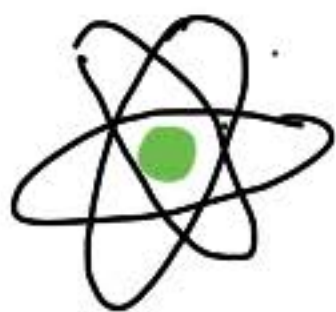
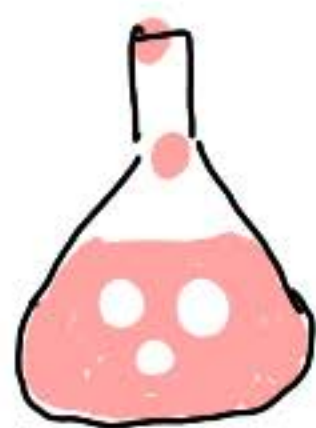
with burst

due 2 illness, I lost my sight & couldnt see the plot. I learned to see the data and xlated the numbers into sound instead



the burst last long enough to create wave resonance. the dust around the star is dragged around. outflows from the exploding stars create gamma ray bursts. when u use sound w/ visual display may lead to new discoveries.

When I lost my sight I lost access to the same data as my colleagues. This situation is systemic. Anyone can develop a disability & feel discommunicated as I did. When you give people to succeed w/o limits, anything is possible. Students are now learning beyond visual tools. This will chg how things are done throughout the industry



I dream of a level scientific playing field. If people w/ disabilities to participate, an explosion of titanic burst will take place.

JOSEPH RAVENELL



What do u see? Most of u see a barber shop. But I see an opportunity for black health equity. Historically, the barber shop is a haven for black men. A place of solidarity w/o threats or judgement. A place of loyalty & trust where we can fearlessly be ourselves & talk (40)



I went to the barbers Mr. Mikes, every other wk w/ my father when I was a child. We were always greeted warmly. Politics, sports, world news. the neighborhood, women & what it was like to be a black man. They also had lengthy conversations about health. Less salt, high blood pressure, reducing stress by simplifying one's love life.

Hi B.P. is very treatable



Almost 40% of black men suffer from hi blood pressure. It is the leadg cause of death for this community. It is treatable but is often left under treated or not at all. For many blk men, the dr's office is associated w/ fear, mistrust judgement. This is why men avoid it. Men w/ high bp often feel fine.

Denny Mo, a local barber commented on how black men trust their barbers more than their doctor. The ave barber rs is 8 yrs. Denny is our confident, a leader, & patient advocate for his customers & community. The barber shop is the perfect place to discuss health.

- you are in your territory
- you are among friends
- It's an environment ideal for deep conversation
- beyond talk, you can take action to address hi bp

In the 60s, black physicians were at the fore-front of running healthcare in black communities. I've conducted focus groups & found that feeling good went hand-in-hand w/ looking good. A pilot pgm rewarded men w/ free haircut when they did a healthck - Free brotherhood? in ?



We R teaching black barbers to measure bp. This led to 100s of men being referred to docs. There was a 3pt drop in bp. for fours group participation. If we could scale this in a way that could prevent 900 deaths/year. We are doing similar projects w/ barbers in NYC. We can take this beyond bp. What do you see for your future? Where is the place? How will you seize the opportunity?

VIDEO

why would I  
abandon my  
greatest  
weapon?



why would I  
allow my enemies  
to rise above me?

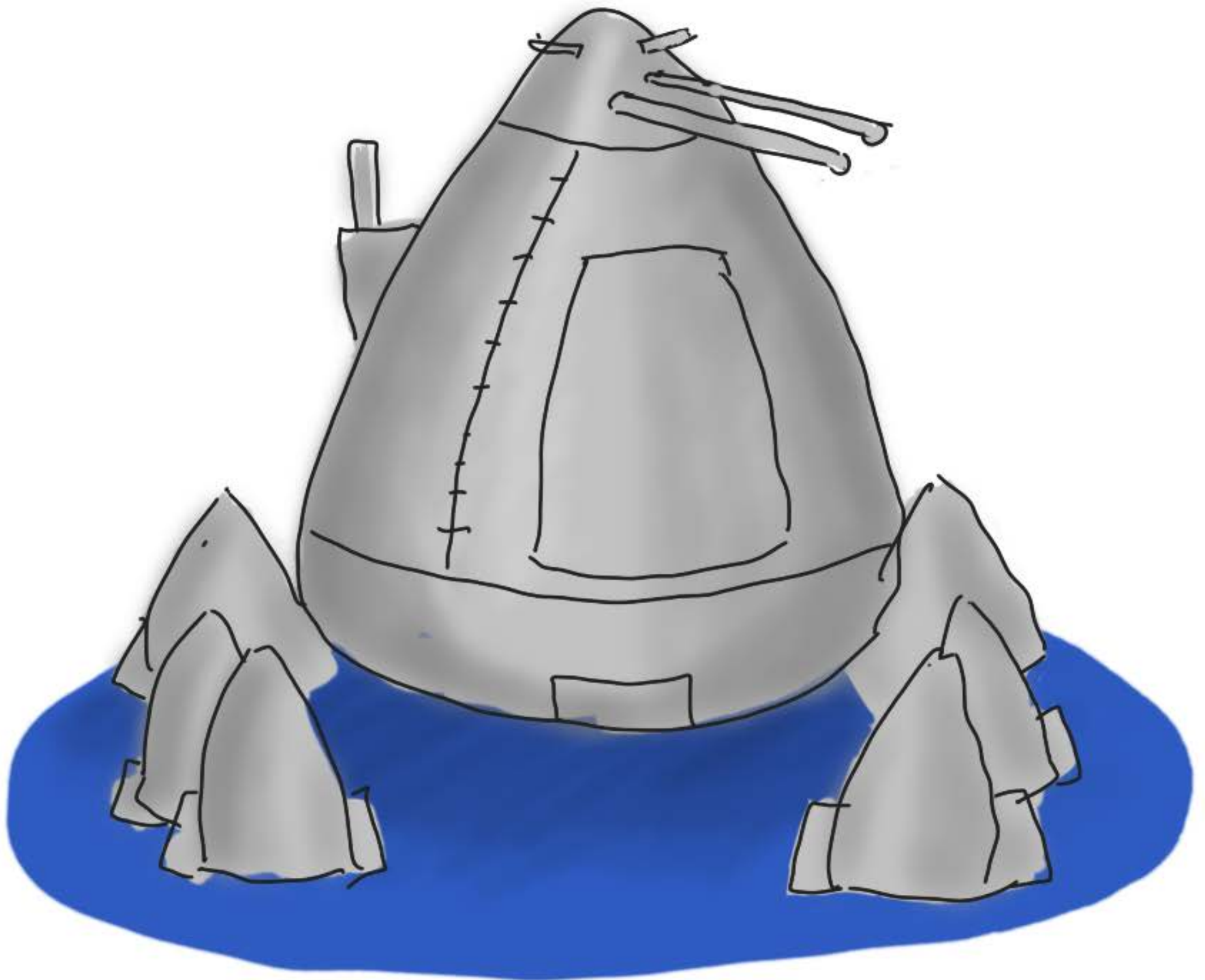
MICHAEL SNG

2 yrs ago, I decided to make a toy. I wanted it to be physical, big & with lots of moving parts. As a graphic designer, I was determined to learn 3D printing, modeling, & programming from scratch.

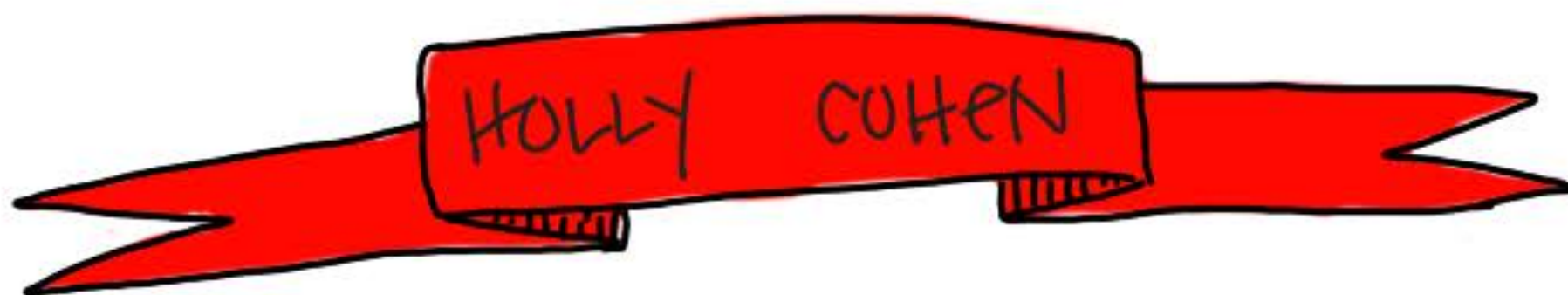
3D  
PRINTING



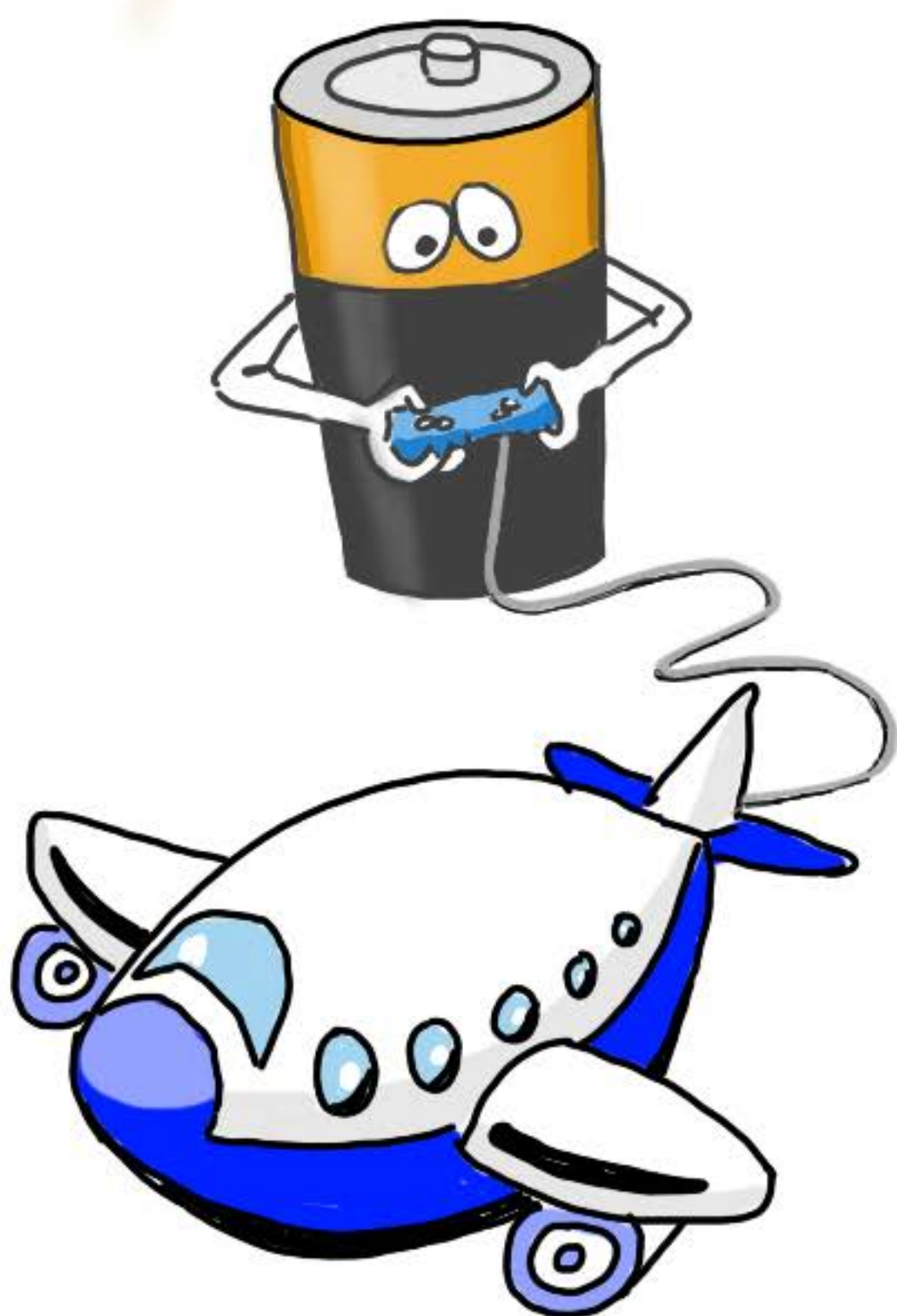
I knew I wanted my toy to be military. A toy w/ a violent theme is what I grew up loving. Like the Bit belly Bomber. 180° degree gun. I started w/ electronics workshop. Most people in the workshop were quite serious except Rick who also wanted to make toys. He had a 3D printer. My first attempts failed.







Imagine I need a toy for a little girl. Everything in the store is battery operated. You read box that says ages 6+ Now think about a little girl who has a disability who cannot use her hands. It means she cannot play. However, all battery operated toys can be modified to make it accessible to her. She could be enabled to use the toy w/ her foot, her head, etc. she could PLAY.



Ten yrs ago I met John Schumel. a programmer who shared my desire to make toys accessible to all. We wanted to help people see the world of disability differently. And it empower someone w/ a disability so much. A hospital reached out to us for their child patients that were w/o mobility and verbal skills. They wanted to play w/ toys. We began w/ fart machines. One adapted the kids played them around the nurse stations. They were the ones telling the jokes. the computer is the great equalizer

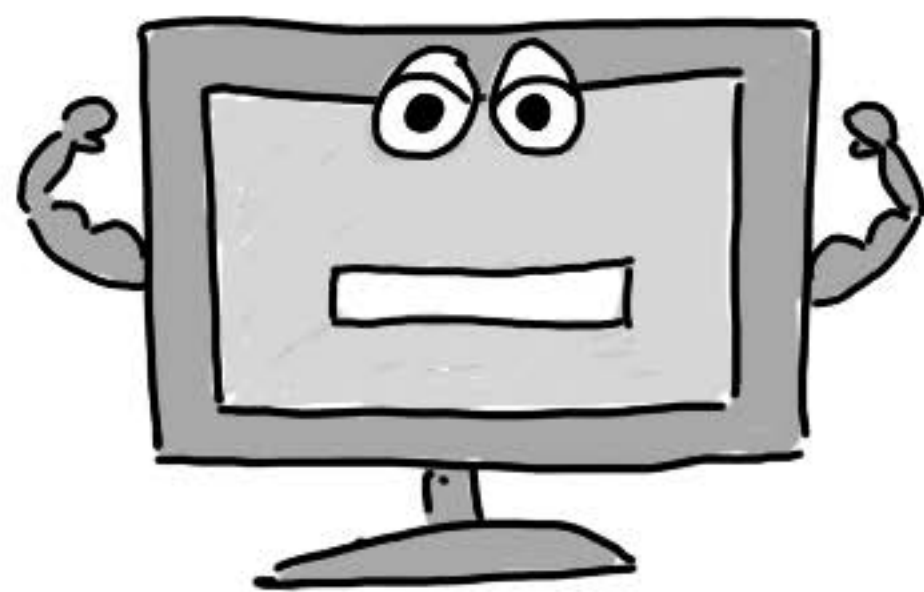
AA

All battery operated toys can be modified 4 accessibility



Steven had MD & wanted to play video games. You go from being a child who could move, to an adult who could not. We decided to build for what Steven could do. Move his head & one finger. With the use of programming, the computer was the equalizer.

Over time, Steven became the programmer. He provided suggestions & conquered the video games. Build for what they can do, not what they can't.



"computer as equalizer."



We worked w/ Matthew. a normal teenager w/ cerebral palsy. He uses speech to operate a 3D printer & laser cutter.

The arduino (?) is most commonly used tool in the maker movement but it wasn't made for use w/ the blind. However, we were able to redo the interface to make it accessible for the blind

It is people that create inaccessibility, not the technology. Educate the community. Users need to tinker. Be the maker of our own solutions,



## FRANZ FREUDENTHAL

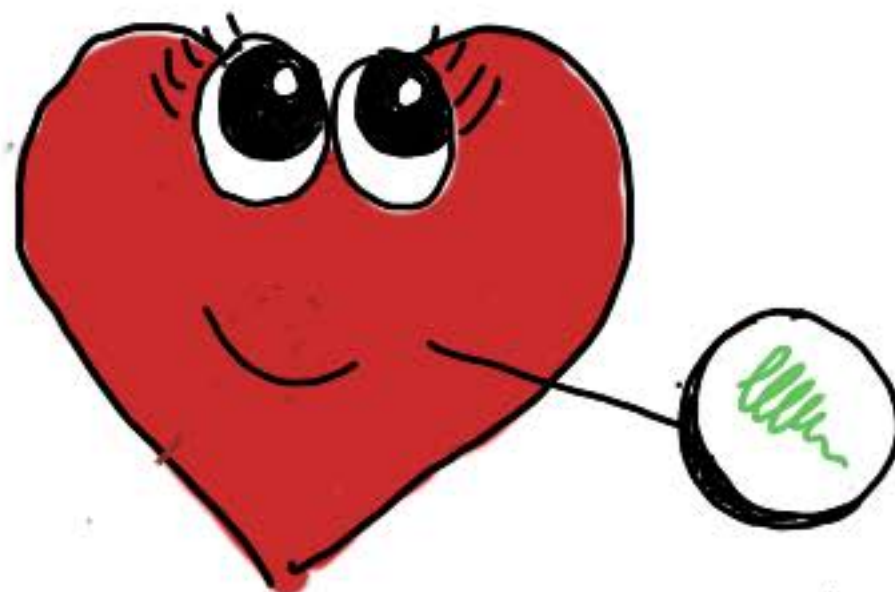
the most complex problems can be solved w/ simple techniques if we can dream. I learned this from my grandmother who encouraged me to see beyond any limitation. I had a life outside the city. she spoke of something hidden behind the mountains. to find it



1 in every 100 children born w/ some kind of  $\heartsuit$  problem. the problem starts w/ the pregnancy. A baby w/ a hole in its heart comes w/ prematurity. we noticed frequency increased w/ the altitude. these patients R desperate to breathe. surgery was the only thing to address this. But then we discovered an avacado tree branch could be a device that could treat it.



premature babies born with a hole in their hearts struggle to breathe

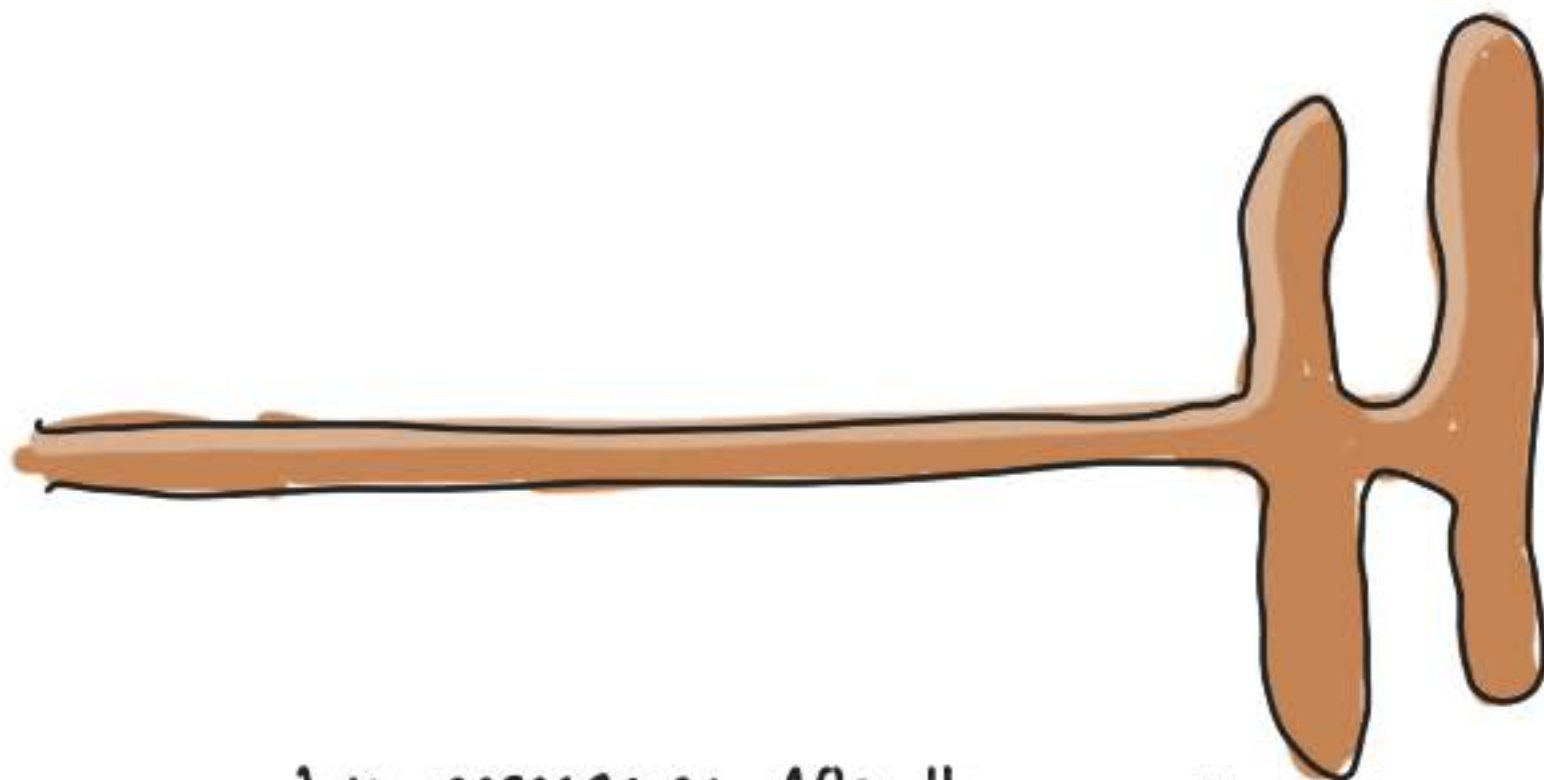
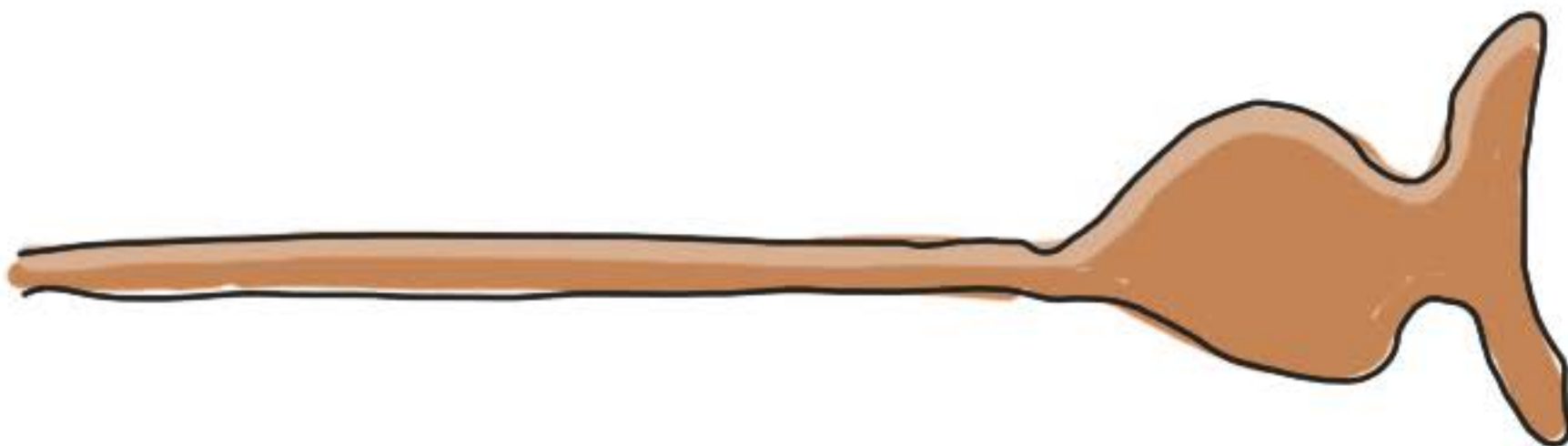
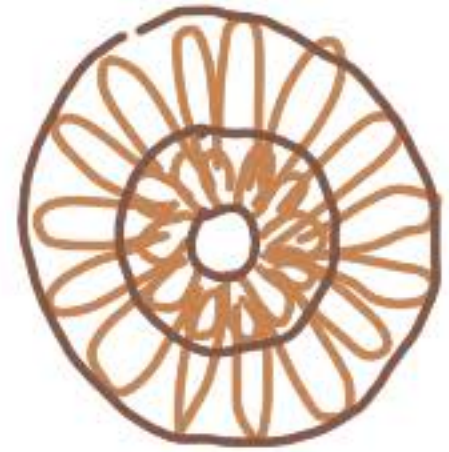


fibers from avocada tree close hole



We started successful Ament & feel very enthusiastic. We live at 12K foot altitude. We found most patients could not be treated in time & they died. Only 1/2 of the patients could be treated in Bolivia. So we started again.

We were inspired by trad'l loops. We took a smart material.



No open surgery was necessary. After the procedure, the patient is completely healed. The procedure takes only 30 mins. We give device for free to make sure no child is left behind. Muchas Gracias!



DR. MAR JEMISON

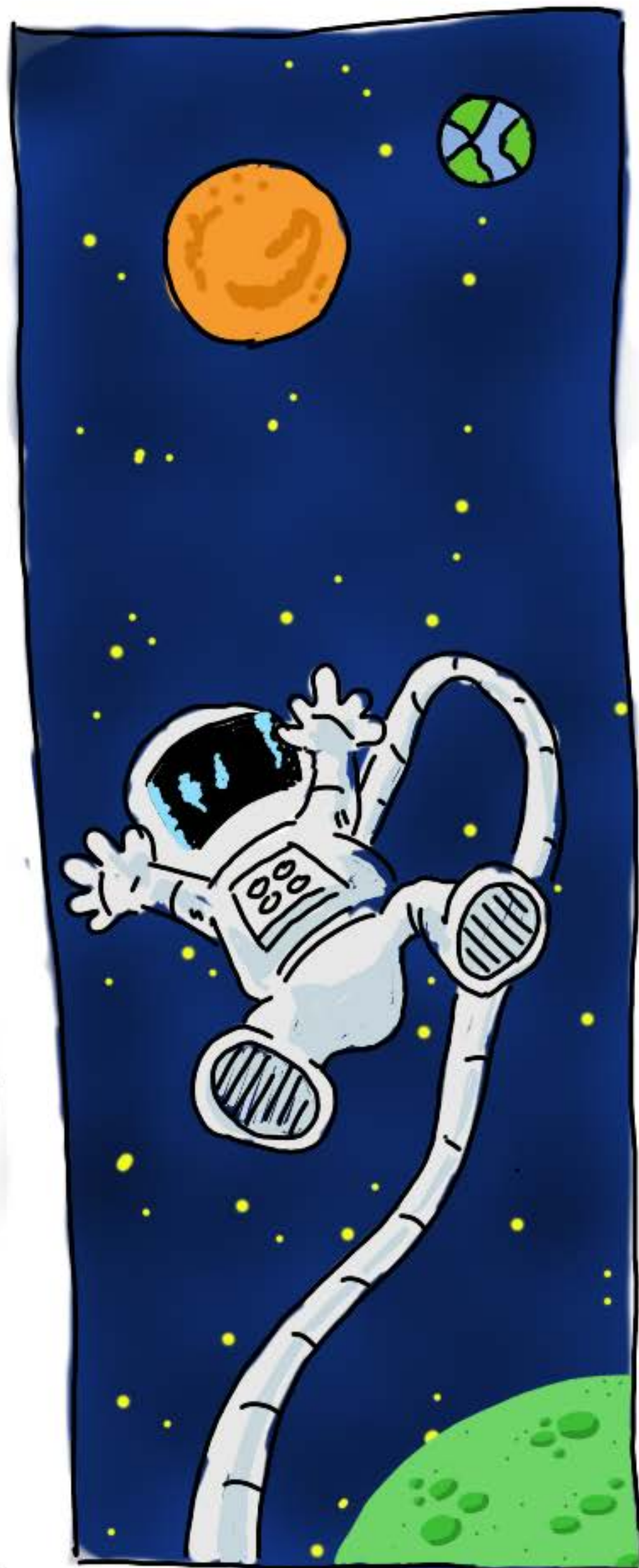
I want to invite u on a journey across space & time... but 1st I need to explain intergalaxy travel is necessary to foster radical leaps. When I was growing up in the 60s it seems like potential was limitless. Everybody wanted to participate eg Star Trek said we could get past nuclear war. Space exploration became part of our everyday world. It impacted everybody. We all know we are on this planet, but what are going to do for a radical leap?

1st What is a radical leap? It causes discontinuities on the way things work. eg. the wheel, light. These are things that can build upon each other.

Why now? Bc the overwhelming challenges we face today cannot be solved w/ baby steps or incrementalism.

Not all radical leaps are positive. It depends on who moves us forward.

What holds us back? people. The perception of who has the solution. We R afraid 2 have different people in the team. Fear keeps us from doing stuff. fear of failure. fear of losing something





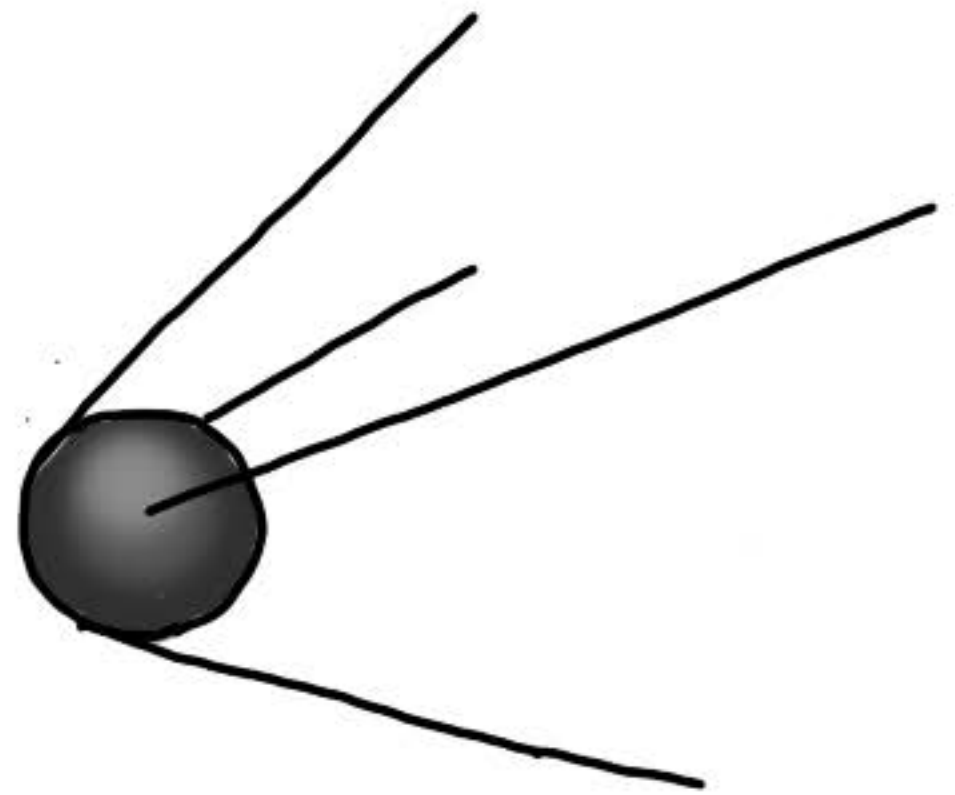
How do we generate radical leaps?  
We must look across disciplines.

We believe in pursuing the extraordinary creates radical leaps today.

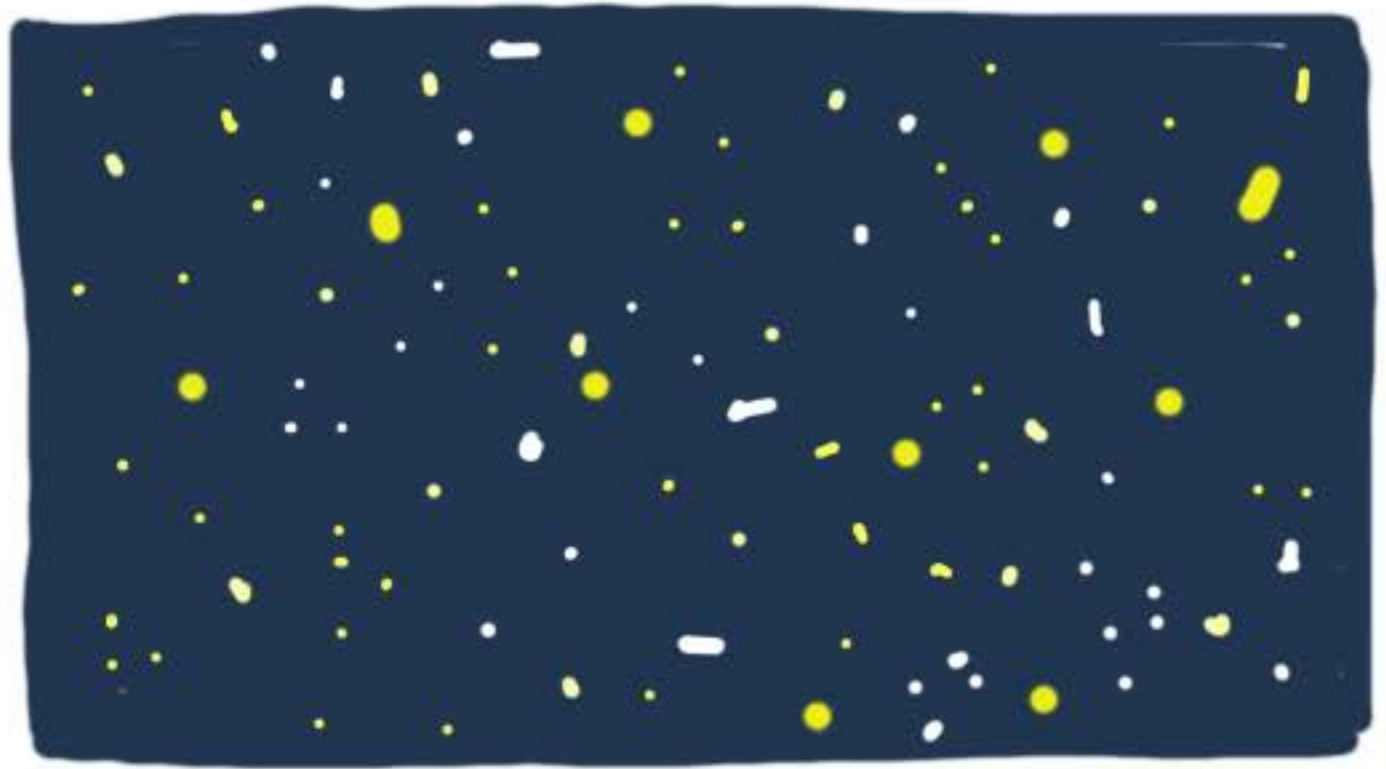
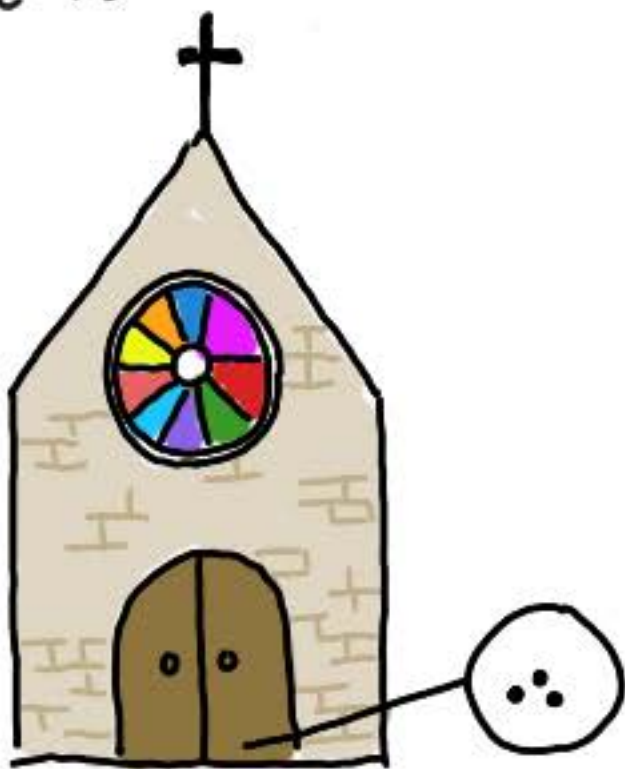


moon landing - 1969  
54 +/- 3

sputnik - 1957  
68 +/- 3



when we speak of a moonshot, most people were not alive to truly appreciate the radical leaps. How do you grab something that will capture us



3 grains of sand in cathedral is more packed than  
the galaxy is packed with stars



the biggest challenge we have to face is human behavior. One hundred year starship is about inclusion bc the problem is that big. Audacious ness is required to be bold. This space generation has been built over 100s of generations. It has to be transformative making life here on earth. How do we make it better? Most of us won't get off this planet. & beyond.

We went to the moon and discovered earth...





ALLEN ADAMS

1.3.

A very big bang occurred billions of years ago. It didn't release light. It released gravitational waves. Since that time the earth has made cells, fish, people & the internet. Some folks decided to create a detector that could track the gravitational pulls. After decades of development, they created.



LIGO

In Sept of 2015, LIGO turned on for a test run. Just days later on 9.14 - the waves passed thru the earth vs, & LIGO. It was the payoff of my career. Scott Hughes said his work was no longer science fiction.

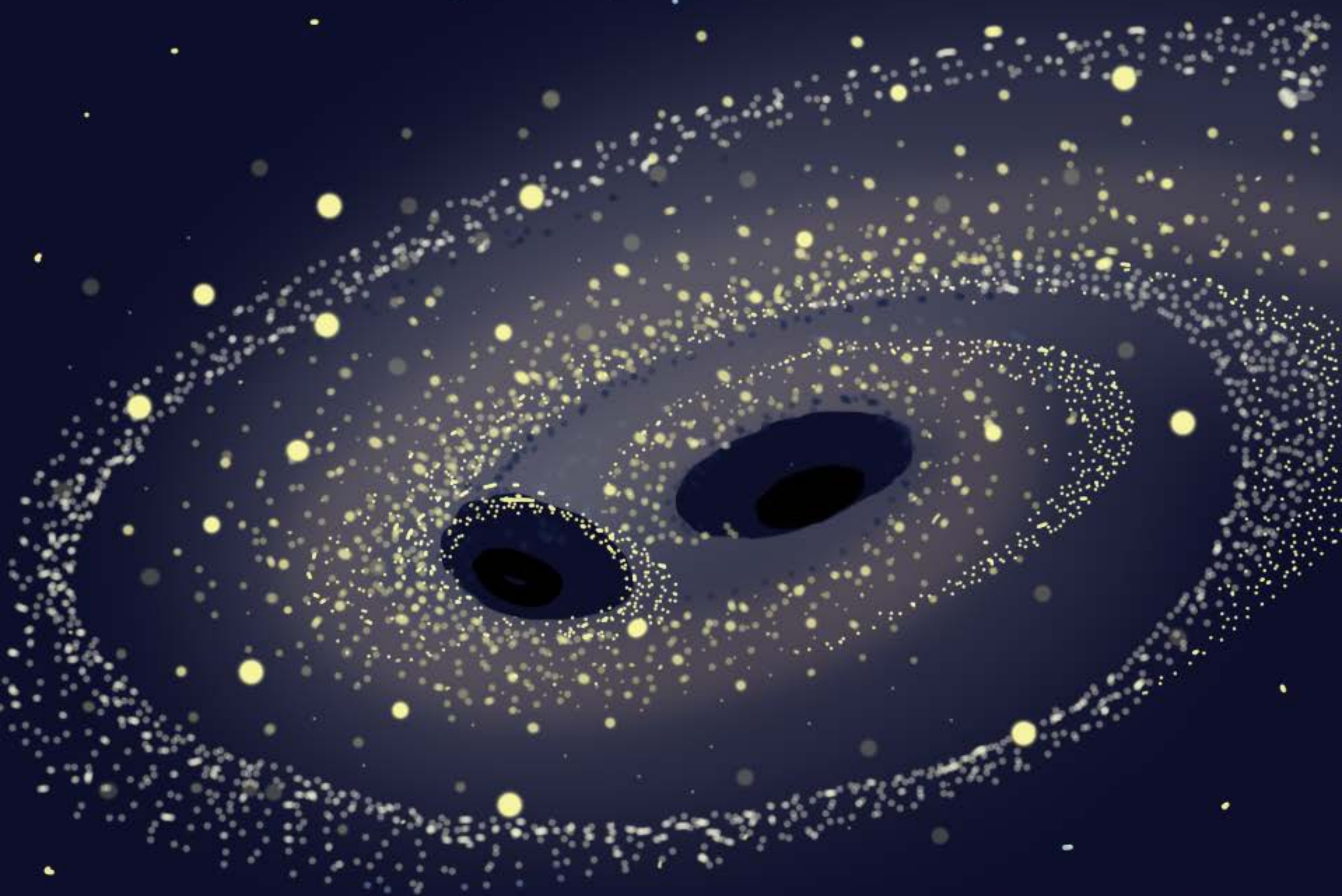
A gravitational wave is a ripple in space & time

STRETCH

COMPRESS



the trouble w/ the waves is they are very weak. (20 zeros) i.e. that is how much they stretched each of vs. measuring something so small was preposterous. LIGO cofounder Kip Thorne said w/ the support of the public all obstacles can be overcome. Scott says LIGO acts more like an ear than an eye. Audible waves are quite different. We use pitch to understand the narrative. Listening to chgs in amplitude & frequency is where the story is told. You can literally hear the universe speaking.



the black holes - 29 solar suns in terms of mass, the other 36 solar suns whirling around each other hundreds of times per second before colliding. i.e. as if they were coming together in a blender

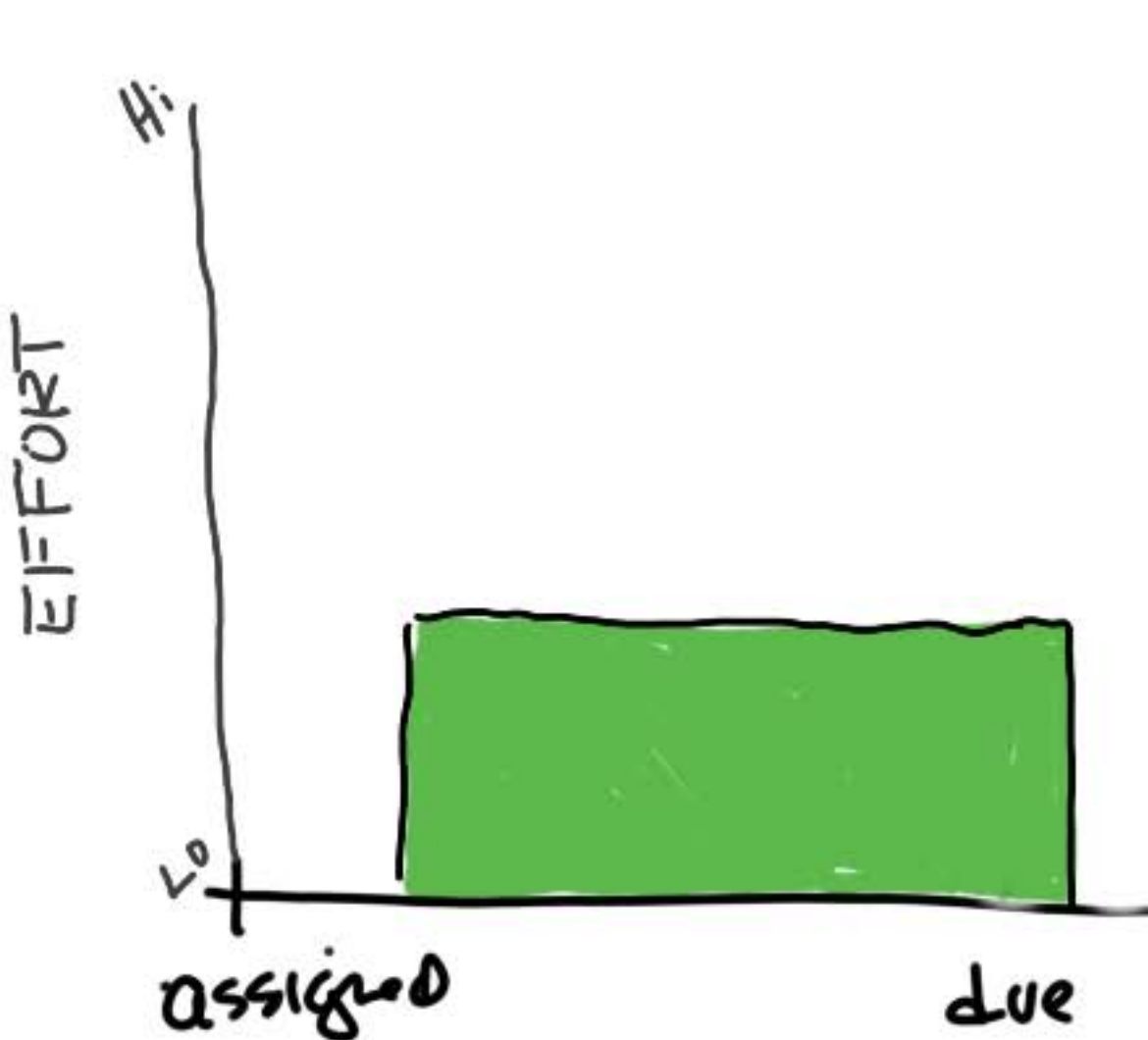


We'll never see the big bang, but with gravitational waves we can listen all the way to the beginning. Our challenge now is to be audacious as possible. We need a whole new generation of observatories. Our job now is to dream BIG.

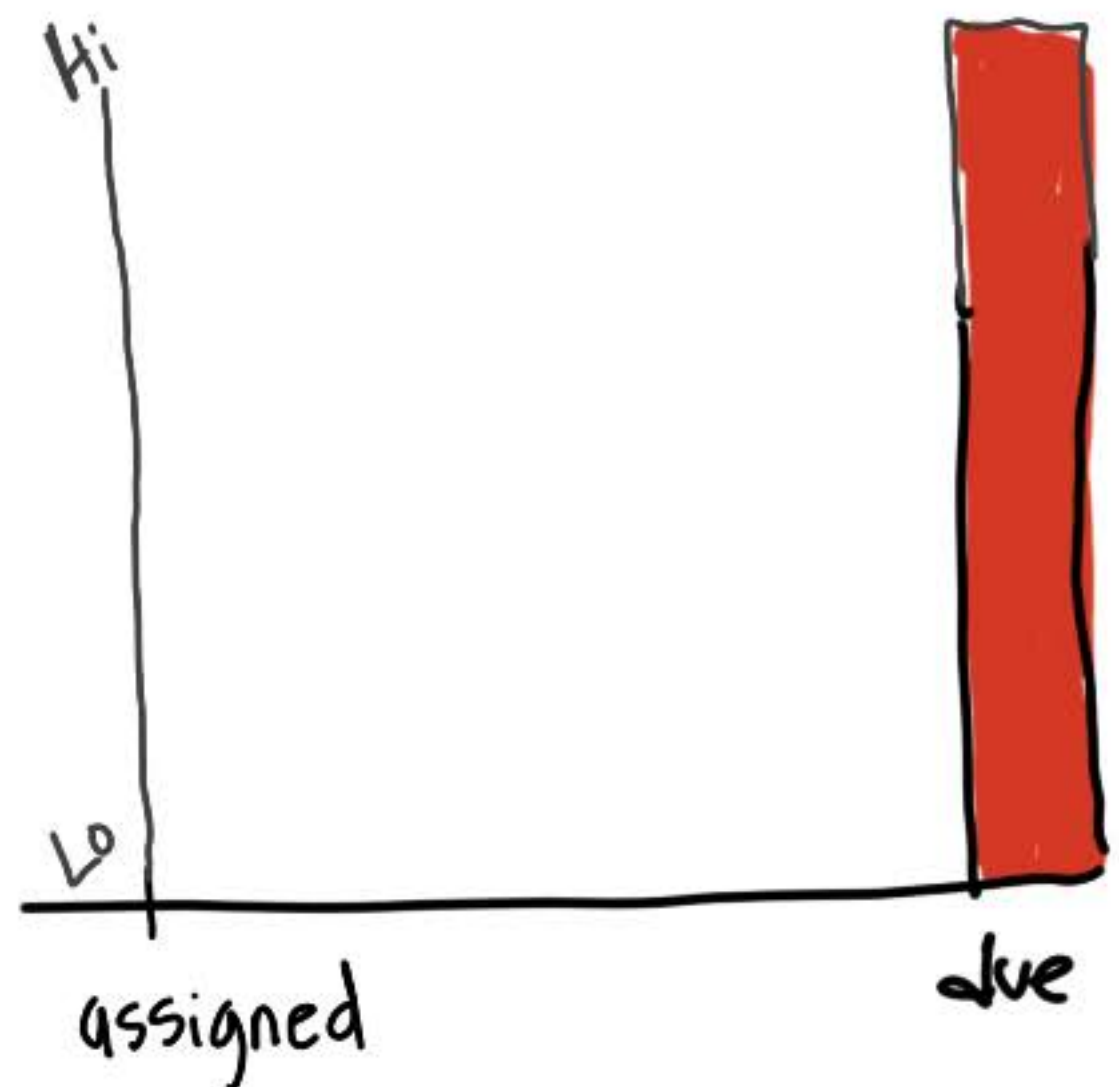
DREAM WITH US!!

TIM URBAN

In college, I was a govt major which req'd the writing of a lot of papers. The workload was distributed



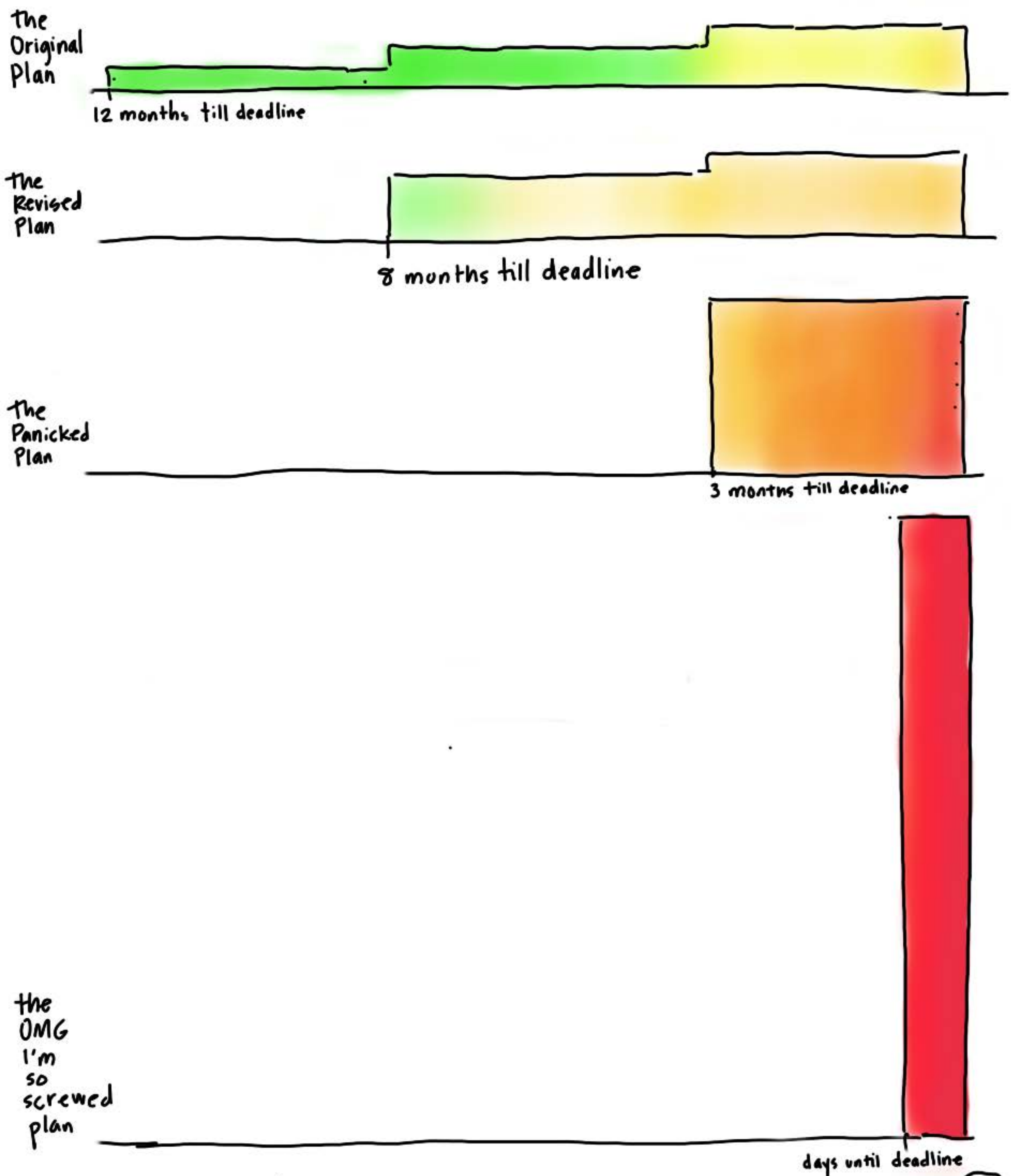
**PROPOSED**  
WORK PLAN



**ACTUAL**  
WORK PLAN



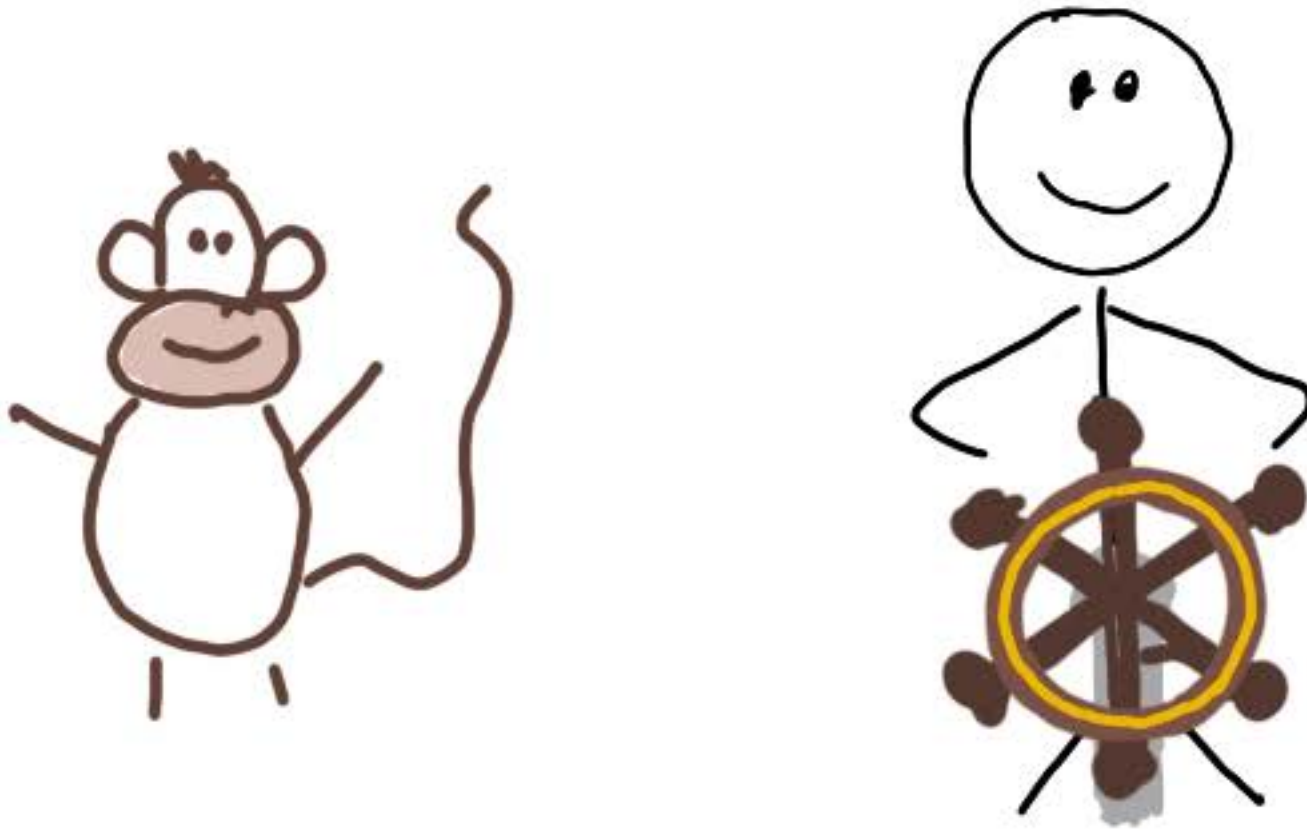
Then I had to write my thesis. I put together a year long workplan



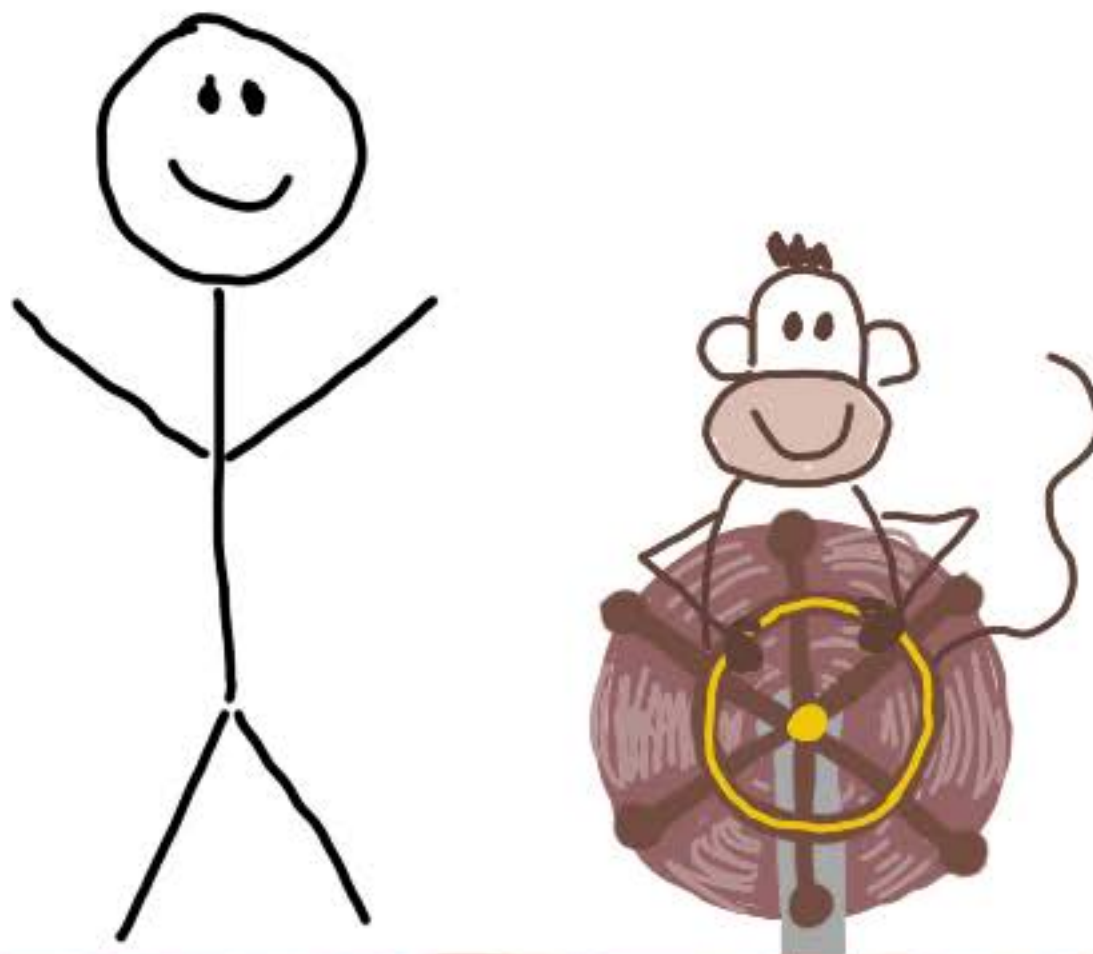


the school calls me and says we need to talk about your thesis  
It's the best one we've ever seen... NOT!!

Now I write a blog. WAIT! Why? designed to explore the  
differences between a procrastinator & non-procrastinator

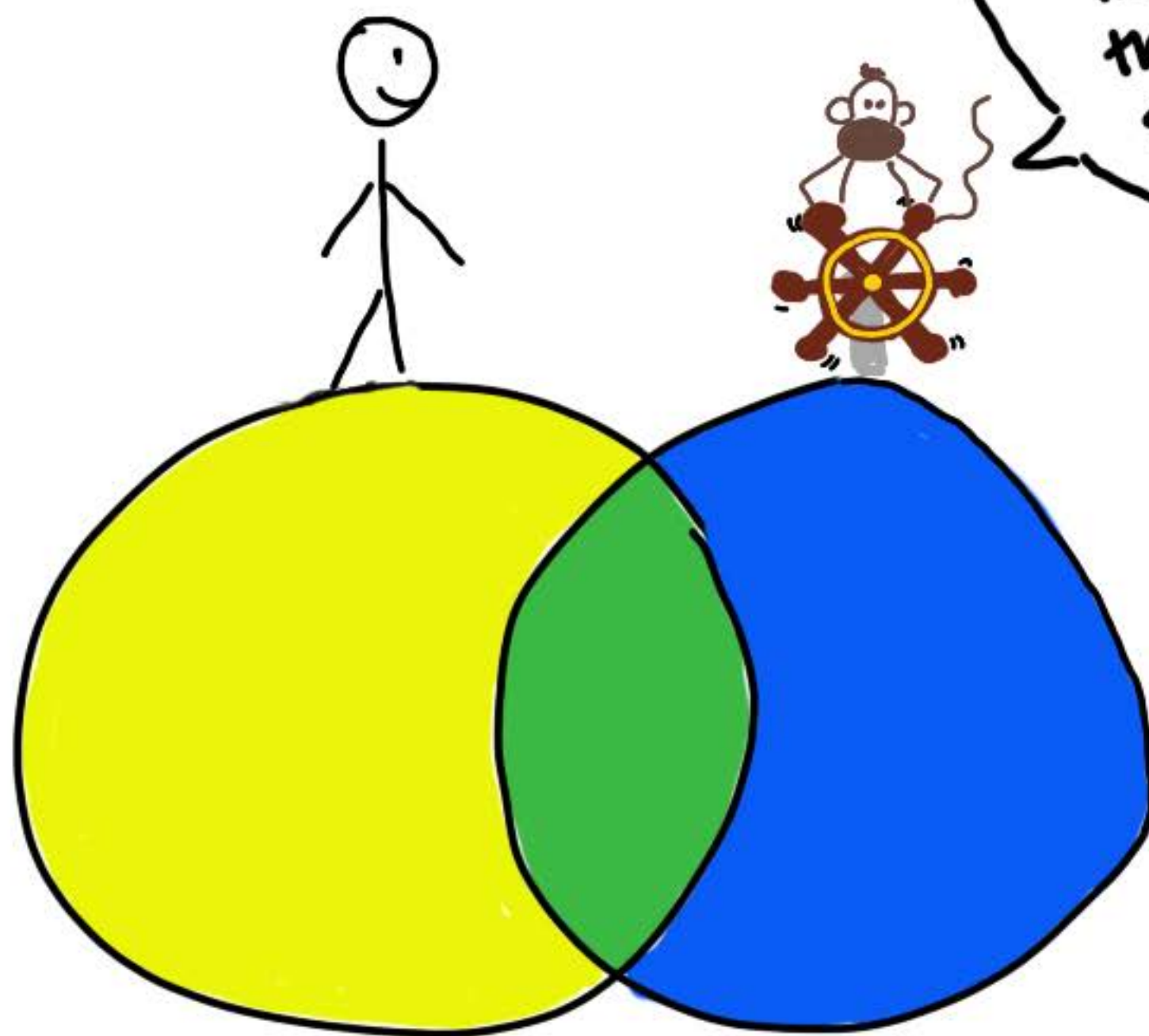


But the monkey takes over the wheel & we  
explore Nancy Kerrigan & Justin Bieber's mom,





the instant gratification monkey only thinks about things that are easy & fun. But the rational decision maker can visualize the future & make long-term plans.



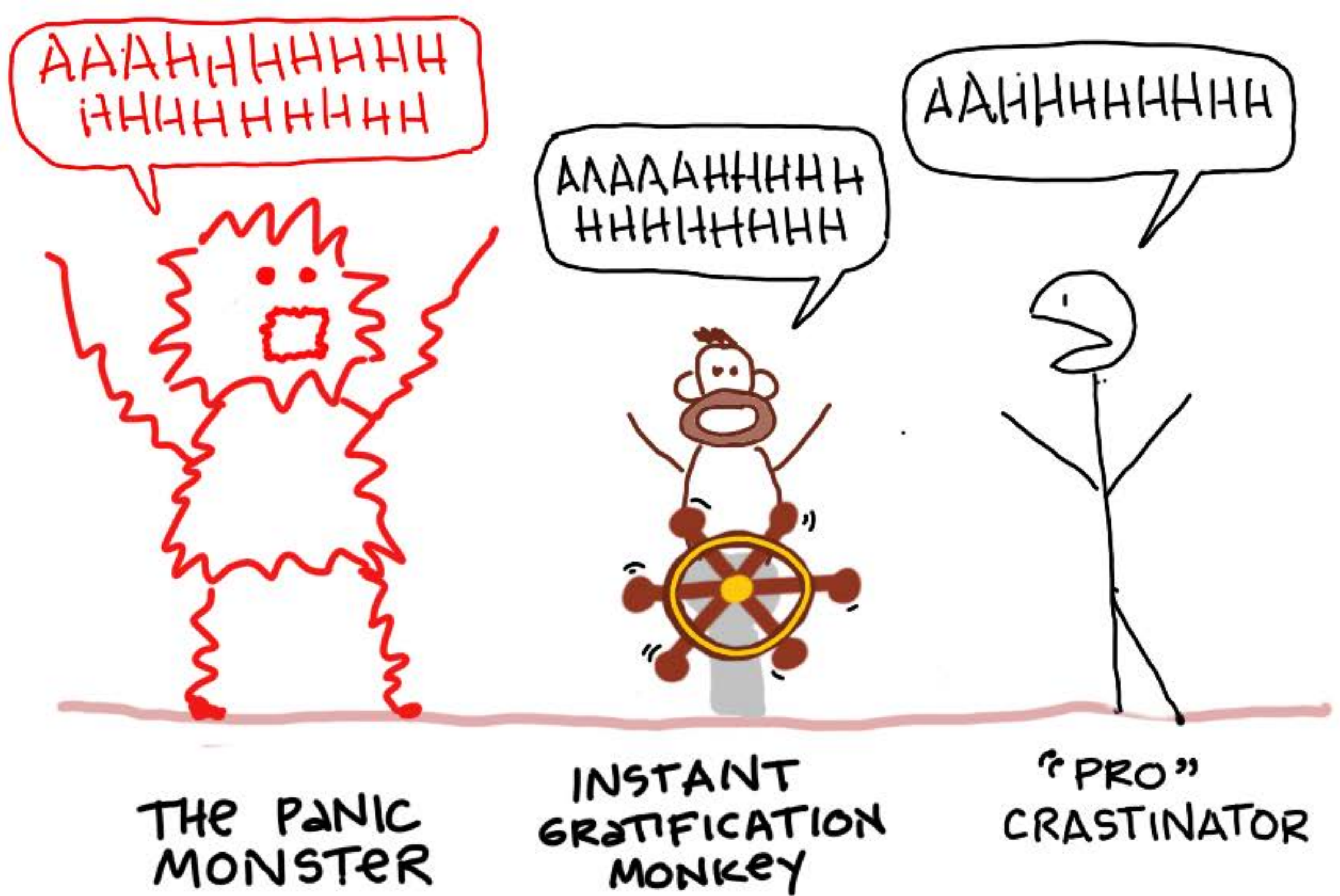
Hey,  
let me drive.  
I have some  
really cool  
things to  
show you.

the procrastinator has an angel looking over his shoulder. It is known as the panic monster. The panic monster is the only thing the monkey fears.



the panic monster





these 3 characters make up the procrastinators ecosystem. I wrote about this on my blog & was overwhelmed by the response. So many people were angry at the monkey. They spoke about how procrastination ruined their lives. I noticed a distinction in deadline based procrastination which was funny & light, versus, long time procrastination which left people w/ regret & isolation. I came to realize that there are no non-procrastinators



In life's calendar, beware of instant gratification monkey. What are the jobs you'll start today?



## ADAM GRANT

7 yrs ago a student asked me to invest in his company that he had started w/ 3 friends to sell things on line. 6 months go by & still no website exists



IDEA!!

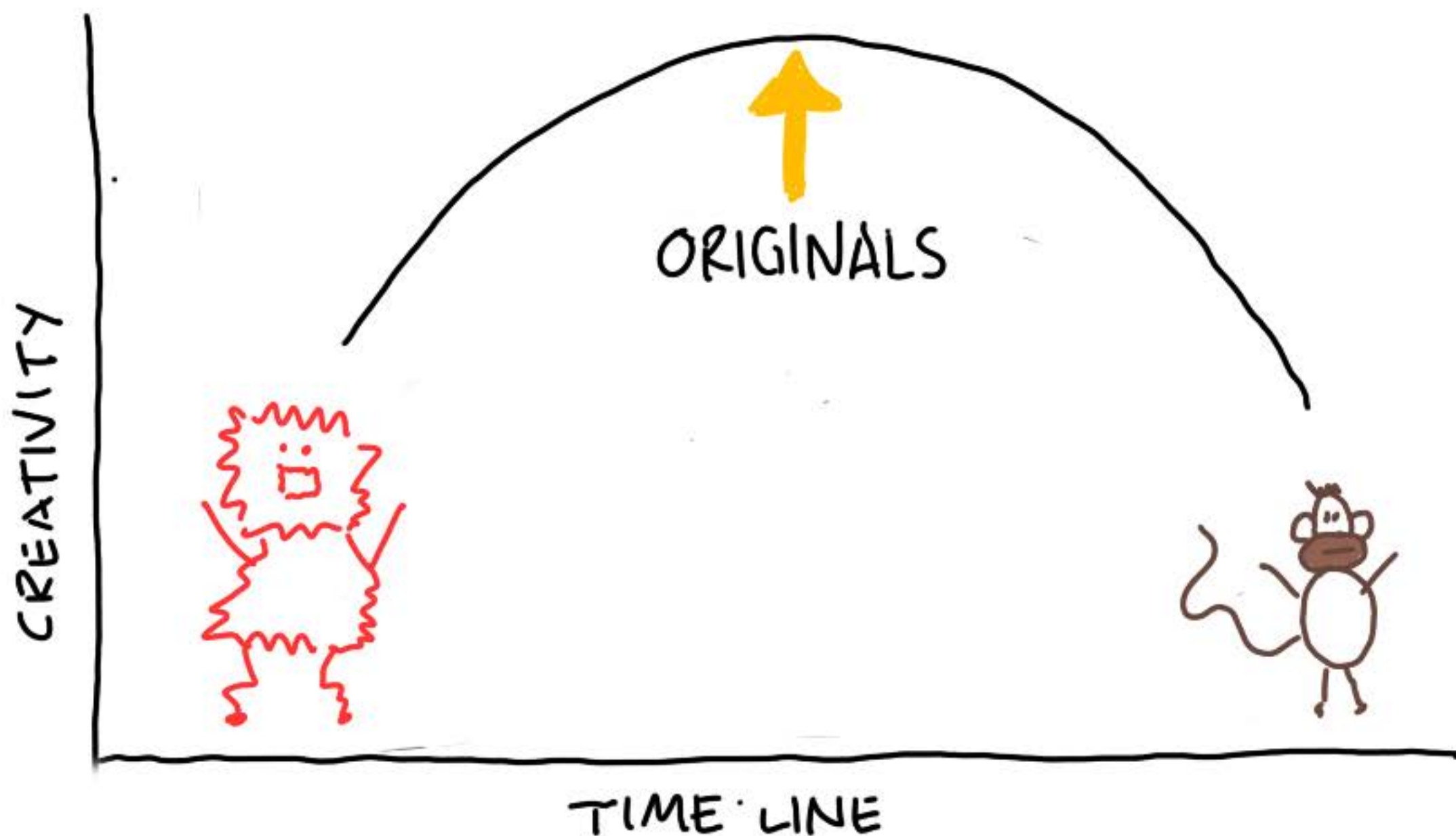


I've been studying "originalists" the people you want to bet on them. Here is how to recognize them or be like one. They are procrastinators. I'm a pre-crastinator. I start thinking about deadlines months in advance. As a child I used to wake at 5am to play Nintendo. I got so good at it, it was featured in the newspaper under the headline:

**"THE DARK SIDE  
of NINTENDO"**







moderate procrastinators are 16% more creative. The key is to know the problem before procrastinating. The brain starts to make unexpected leaps and connections. So I decided to write about it.



WARBY  
PARKER

“ YOU CALL IT  
PROCRASTINATION  
...  
I CALL IT “  
THINKING!!!

Leonardo da Vinci took 16 years to paint the Mona Lisa. He considered this a failure. MLK Jr. postponed his speech “I have a dream” giving him freedom to improvise.



Procrastinators are slow to start & slow to finish. The first mover theory is a myth

# FAILURE RATES

47% vs. 8%  
FIRST MOVERS IMPROVERS

It is much easier to improve on someone else's ideas. I also realized that Warby Parker founders had doubt. Lots of backup their doubt gave me doubt

## THE CREATIVE PROCESS

Step 1:  
I AM AWESOME!

Step 2:  
THIS IS TRICKY.

Step 3:  
THIS IS CRAP!

Step 4:  
I AM CRAP!!

Step 5:  
THIS MIGHT BE  
OKAY.

Step 6:  
THIS MIGHT BE  
AWESOME.

vs.

Firefox chrome  
(reqs downloading)

safari explorer  
(default option)

the secret to success is being the kind of person who doubts the default settings. Don't let "DOUBT" go.



Originals fear failure but fear failure to try more. Elon Musk did not think Tesla would make it. but felt it was too important to try. 85% of people are afraid to speak up. People do not judge you for your failed ideas. Consider Thomas Edison. who made:



scary talking doll makes kids cry



electricity which helps mankind

To be original you need to generate ideas. Warby Parker tested 2000 names before landing on their name. You need a lot of bad ideas to get to a few good ones. It is the best way to improve the world

Starts early & often

to win over an audience is to tell them horrible things that make them feel good about themselves

waits till the last minute

bc I'm a disaster I'm like MLK

if u r a 1, I'm a 10. Adam helped me bc he was already prepared.

U put things off making room for random ideas. I've never google mapped India

U should try it sometime. It takes about 2 hours



SCHOOL PORTRAIT VIDEO: How can you smile in light of...



What an intriguing group you are ... as a psychologist. There are 47 of you exhibiting characteristics of scientific study. In my field, we try to make sense how each of you are like all others, some others, no other. Your self diagnosed boringness is what makes I interested. There are 5 trait dimensions!

1. open to new experiences

3. EXTROVERSION

4. agreeable

2. Consciousness

5. neuroti



Extroverts - it is virtually impossible for adults to lick the outside of their own elbows. 1

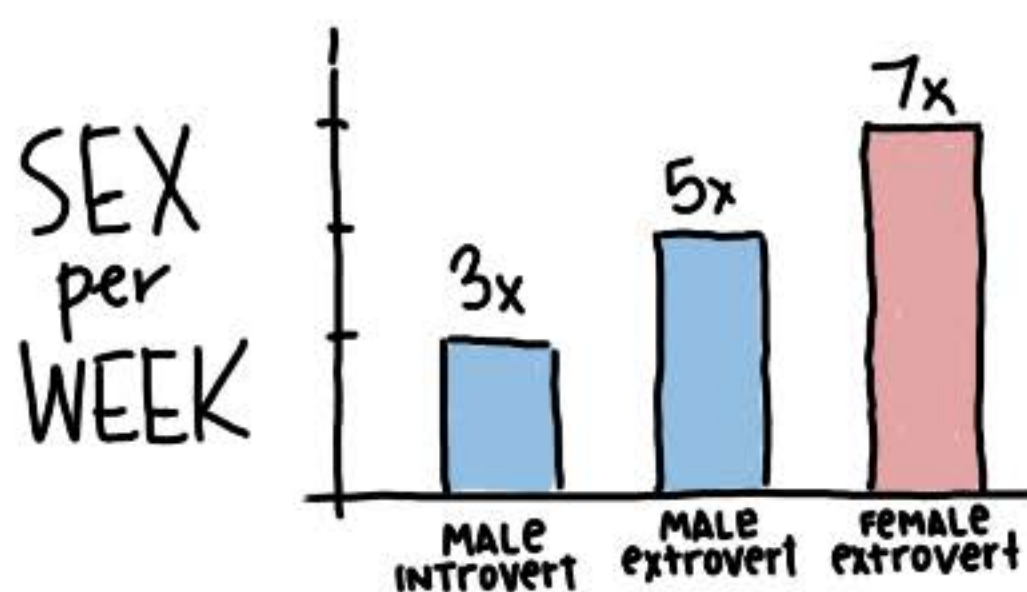
- 1.
2. psychonature
3. idiosyncratic

One of the things that extroverts need is stimulation. They need noise and engagement. Introverts may be mistaken as anti social, but they do better when there is less stimulus. Extroverts do better with coffee. They literally need it. We aren't always seem what we need to be



EXTROVERTS R GAME TO TRY LICKING THEIR ELBOWS. INTROVERTS NOT SO MUCH.

the frequency of sex bn introvert vs. extrovert. How many times per month. 3x/intro vs 5x/extrovert for men. 7.5x/extro female.



We communicate differently. (E) like to stand close w/ lots of eye contact. Whereas (I) wait for a pass to loosen up. Charlie vs. Chuck. (I) prefer contextually complex words. Whereas (E) like black and white.

We added Michael to our project!

(I) Michael has a tendency at times that some of us might see as occasionally difficult

(E) Michael is an asshole.

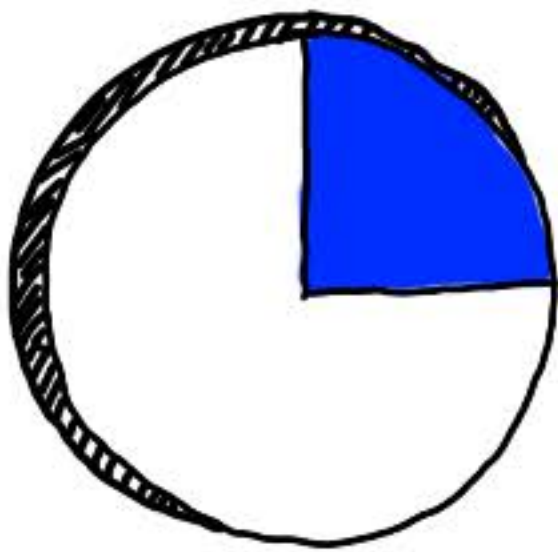
Is this all we are? just a sum of traits? No. There R ways that each of you are like no other. I'm uncomfortable putting people in pigeon holes.



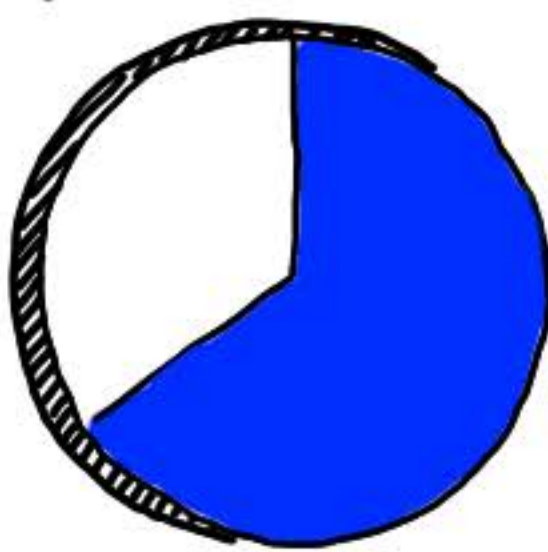
Ask people what are your core projects to better understand others. To see beyond the introvert and extrovert. For example. When an introvert tries to pass as a 'pseudo extrovert' they need to retreat to a quiet sanctuary. So after giving a lecture in front of a large audience, I retreated to a rest room stall. Not long after, a student yelled thru the stall door, "Professor Little, is that you?"

DAVE LARSEN

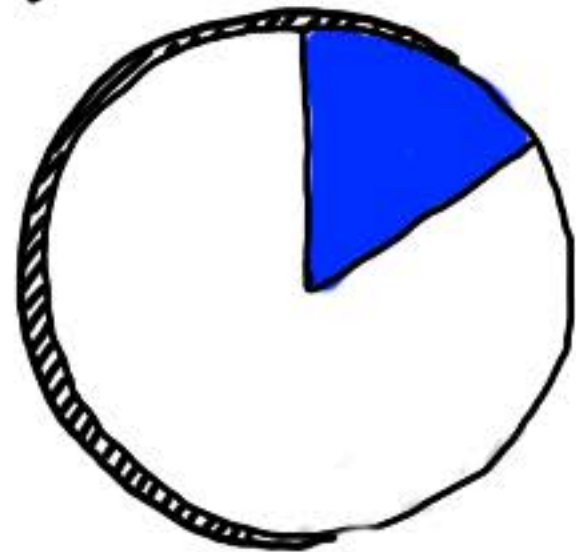
### Med SCHOOL SCHEDULE



3 HOURS  
of preparation



8 HOURS  
of Lecture



2 HOURS  
of study

I was burnt out within the 1st three months of med school. It's no wonder doctors are burnt out. Even in the middle ages we approached med school similarly. In the last 8 yrs I've been looking for a new way to learn medicine.

Alzheimer

I	_____
A	_____
B	_____
C	_____
1)	_____
2)	_____
3)	_____
II	_____

and/or lawyer... time after time  
Lying in my bed w/o  
I can't remember you.



## JOHN MCWHORTER

English is on its way to becoming the language of the universe. Mandarin Chinese is spoken by the most people. By the end of the century the world will have 600 fewer languages. So why learn foreign languages?

We think language channels our thoughts — this isn't completely untrue. French & Spanish assign the word table as feminine, suggesting a default worldview. But what is the worldview of English? Consider Bono, Donald Trump & Kim Kardashian. What worldview might they share? So we know language can shape thought but not dramatically.

If you want to drink in the culture, you have to control the language.

① So one reason to learn language is to participate in the culture.

② If you speak 2 languages, you are a better multitasker & less likely to suffer dementia.

③ Language also is simply FUN. Consider the word order.

Do you know? English

You can know? Mandarin

Today it is easier to learn other languages than it's ever been in history. Any language you want exists in your phone right now. It won't change your mind, but it will most certainly blow your mind.



## NOAH ZANDAN

i've got a future vision, every story has impact. Do you believe me? probably not. I began my career by running quantitative data on Wall St. I noticed there was a missing factor. How leaders communicate their vision is how things got done. Much of what we communicate is body language, tone and cadence. By using tools we can make better communicators

We started w/ the best innovators  
We searched for what they do differently, but it isn't what we expected. They talk about the future, but more about today.



We will

We plan .... here is how.

THE BEST COMMUNICATORS

- ① Focus on the present  
Elon works as a visionary bc he brings his data to now. He uses 4x as much present tense than future tense. He is not very complex.

over the next 3 qtrs we will improve results thru 3 methods

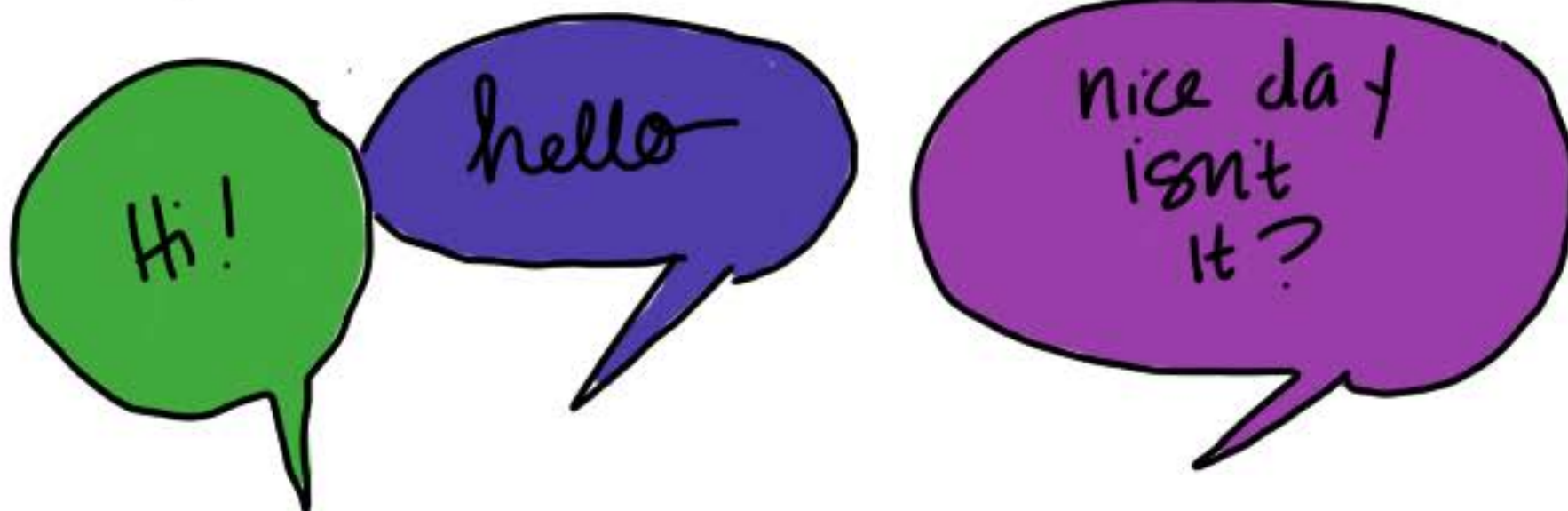
- ② Sheryl Sandberg: communicates 85% more clearly than others
- ③ bring you into the experience

Once u have a vision, communicate in a way that focuses on now. do it simply & bring people on the journey





there r things when we catch the eye of a stranger



It is a means of saying "I see u there." I started documenting my engagements & found these moments were quite liberating. One day while waiting for a light to chg a man told me to step back on the curb and said don't do that, you might disappear. When I complied he said good. I might have just saved you.

However, we live in a culture that warns of stranger danger. It's good to be friendly & when not. I'm walking w/ my 4 yr old & a man from a neighboring half way house & suggest we steer clear. My daughter asked why. I explained he's angry, yelling & I don't want to be around him. I hoped I was helping her to develop a distinction.

STRANGER  
DANGER





The brain looks for categories to help assess potential dangers. Seeing someone, experiencing someone as an individual lets us see their humanness.

the second benefit of this is freeing intimacy. It makes us feel like we R part of a community it is easier to be open & honest w/ strangers. showing how significant these interactions can be. the reason these xchs are successful

- 1.) they R brief
- 2.) we expect those that know us to understand us. i.e. Read 'our mind. Talking to strangers can make you feel happy, noticed & feel good

What are the rules of talking to strangers?

1. In the US. the baseline expectation is civil inattention. e.g. Glance at a distance, look away as they draw closer to enable the persons privacy
2. In other cultures, one might rather miss a bus than say excuse me
3. In Egypt. there is a culture of hospitality. Ask a stranger for water

> Make eye contact with the stranger

- smile
- comment on 3rd object
- noticing. e.g. I love your shoes
- talk to their dog or baby (a social conduit to the person)
- disclose something personal (we tend to meet disclosure with disclosure)

Talking 2 strangers can lead to unexpected connections. (68)

TALKING  
to  
STRANGERS

can  
make  
you  
feel

HAPPY

NOTICED

GOOD!



## NORMAN LEAR

Art in the family, the Jeffersons, & Mary Hart were a number of shows that changed our culture. Fried Green Tomatoes, This is Spinal Tap is your second act. You are socially active

Q: Was your mother proud of you?

A: When I returned from the war, my mother showed me all the letters I had written. They were love letters in the purest sense. Later I asked for letters and she had thrown them out. That was my mother.

Years later, I'm being inducted into the Hall of Fame along w/ Willie Ball & other greats. She says if that is what they want whom am I to stop them.

Q: Tell us about your dad?

A: My father was arrested... my mother was selling all of our furniture bc she cannot stand to live in that state of shame. A stranger who was a horse ass said to me as I cried, "VR the man of the house & men of the house don't cry." This is when I first recognized the foolishness of the human condition.



A. I wanted to be heard. one day while playing w/ a transistor radio & heard father conklin speak of hating jews

Q: your grandfather was your singular role model tell us about him?

A. When I was little there were frequent parades. At times I would see him cry. He'd write letters to presidents frequently. They always wrote back. This was a story I've told often but much of it was a lie. Its a story I borrowed from a friends grandfather. When I started to write my memoir. I started to think about it, cried & realized how much I needed a father. (I have 6 kids by the way). My father was a rascal (that lied, stole, cheated, & went to prison)

Q: Amateurs create professionals steal

A. I'm a pro.

Q: R there stories about the impact of ur work that surprised you?



there was an evening w/ Norman Lear  
w/ hip hop impasarios. When they spoke of  
George jefferson... Russell Simons said up  
until that moment he had not known a  
black man could write a check until he saw  
George do it.

Q You've led a life of both  
accomplishment & meaning  
How did you do both

A. This planet is one of 2 billion. In  
that context my accomplishments are  
not distinguishable from what others  
have done.





# KENNETH LACOVARA



the library of earth keeps the oldest pages on bottom, the newer ones on top. Many pages are destroyed unlike the moon (a rock) earth is constantly changing. all will suffer mutilation through various sources the tattered wreckage leaves our story in ruins. But in the 19th century James Hutton & William Smith's writings gave us clues on where to find the rocks.

4. Get as far away from other paleontologists if you want to find something scientifically significant

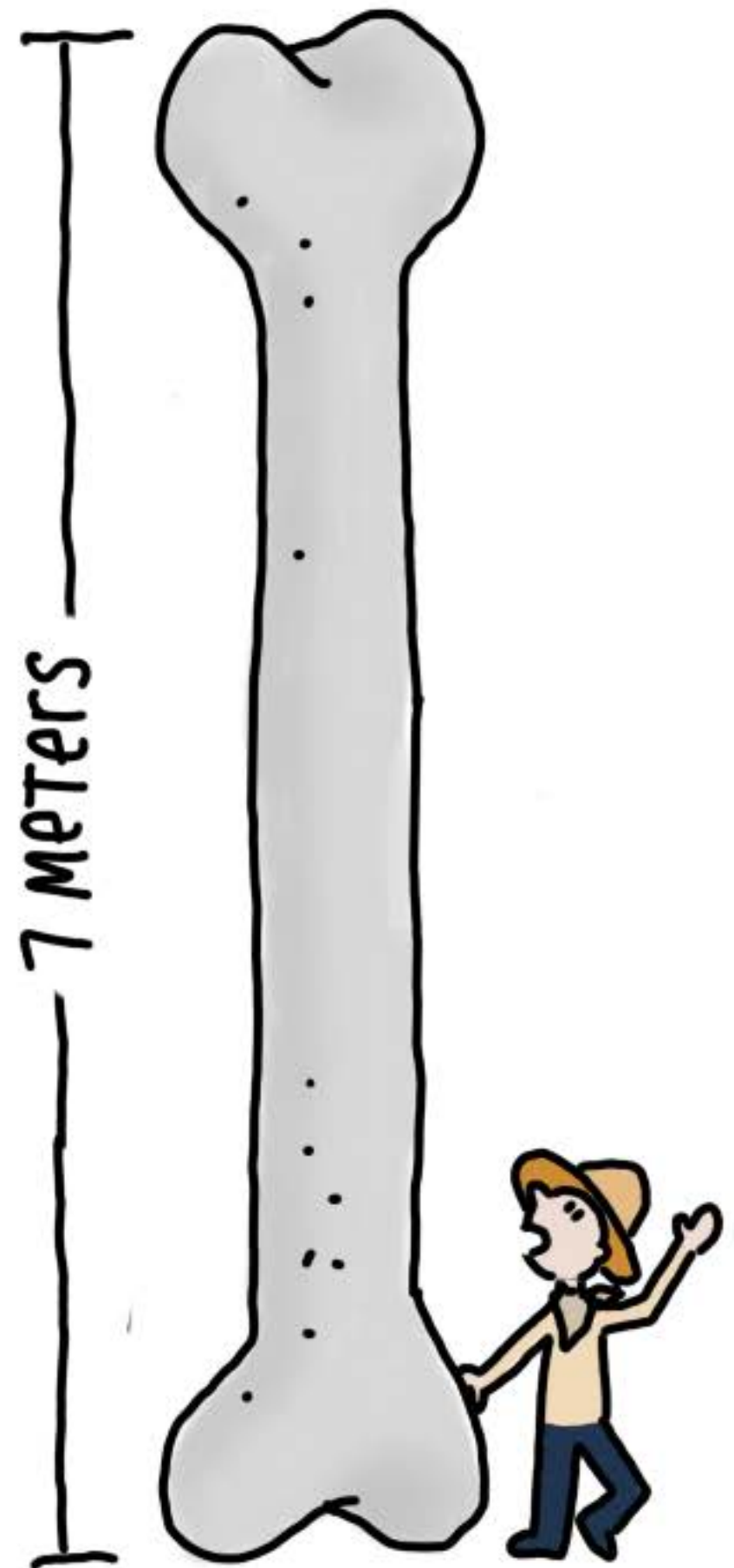
*Dreadnoughtus schrani*

85 feet

65 tons

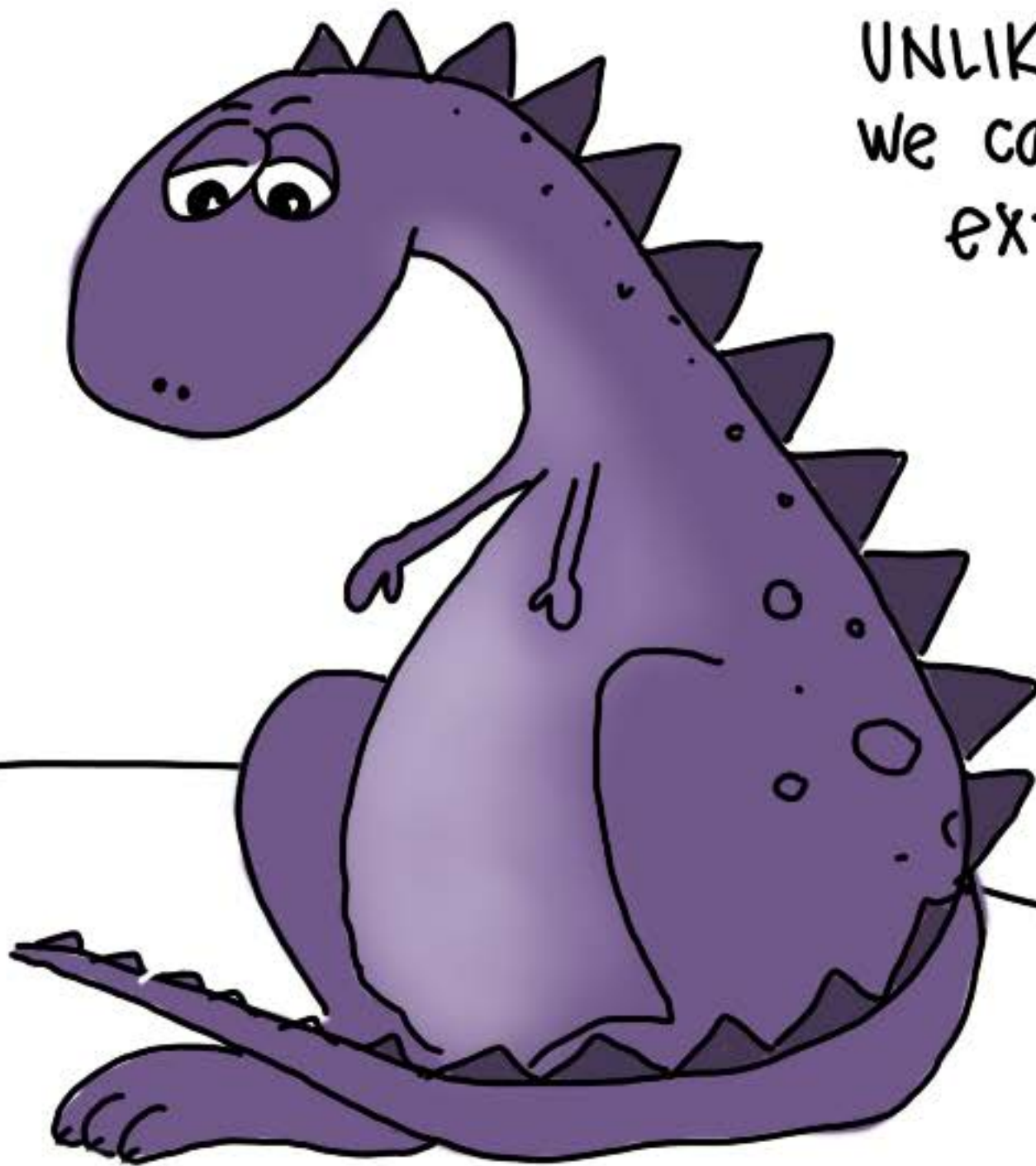
8 or 9 T rex in size.

this animal would have nothing to fear. Hence, its name. It was a machine of efficiency in order to grow so long. When it was as big as a house, falling over is equivalent to death.





As the dinosaur decayed, the skeleton laid unchgd. The dinos would reign for another 12 decades. Then the ice age would come. Soon chimps apes emerge. fast forward to man landing on the moon. Present day, I'm the ape looking for the dino source 66M yrs ago an astroid hits the earth knocking out the dinos. This didn't have to be. Nevertheless, we now have primates that dress in suits.



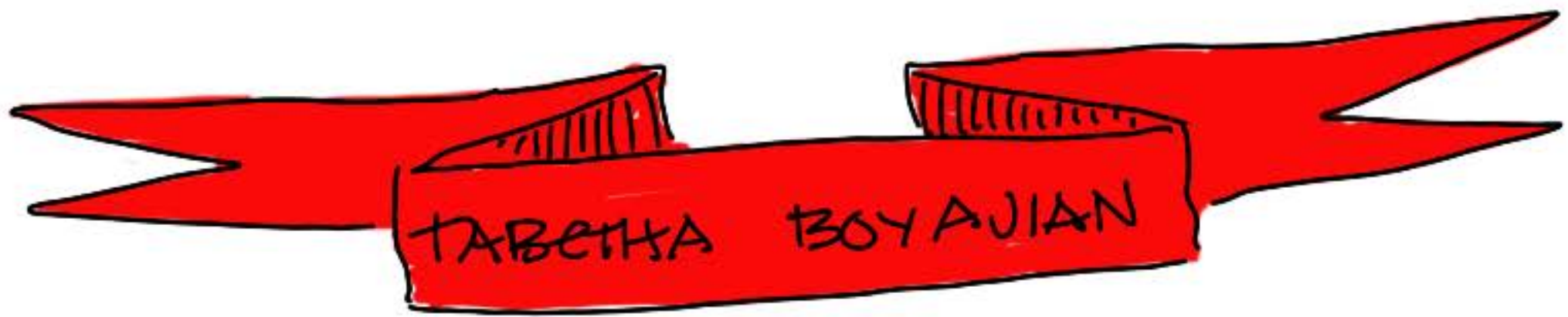
UNLIKE the DINO's  
we can see our  
EXTINCTION  
coming.

I once stood at a river. one branch is an anonymous source of a trickle the other is the mississippi river. Why does amount to something significant while the other does not. Dinosaurs were real, dragonflies the length of a car. Why study the past? It helps us see our place on this planet is precarious & fleeting. Unlike the dinos we can see our extinction coming. Unlike the dinos we can do something about it

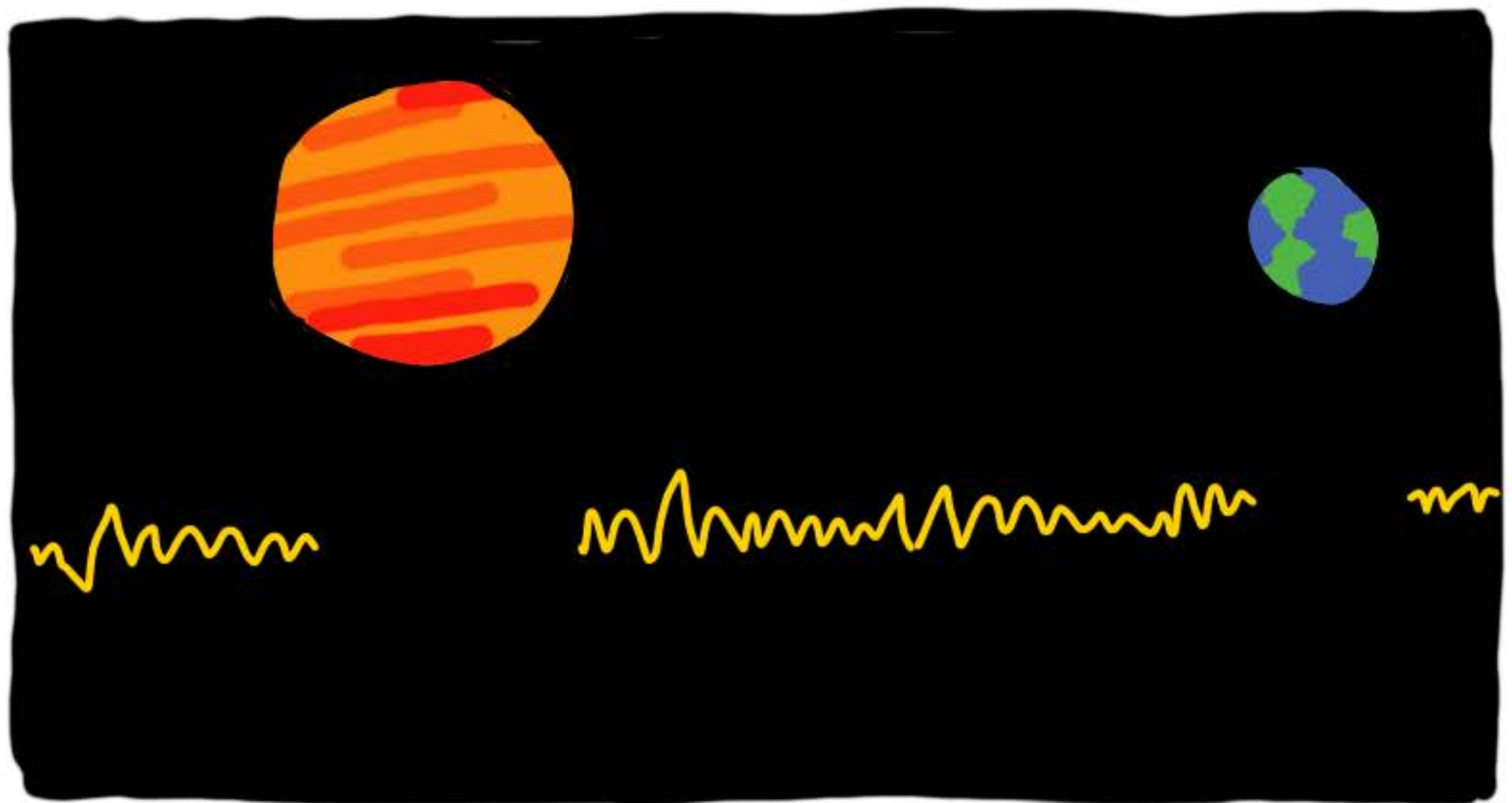
THE CHOICE IS OURS !!



1500 yrs ago. light was emitted from a star & began its journey to earth  
a couple years ago, a telescope called kepler spotted that light. the  
star is known as tabby's star



Extraordinary claims req extraordinary evidence. Alien hypothesis  
should always be a last resort. In 2009, the kepler mission was  
to find planets outside our galaxy. For 4 yrs it watched a  
specific geography of space every 30 mins. they were  
searching for a sig. we did a citizen companions project called  
planet hunters to see if human could catch a signal the computer  
missed. one planet would be remarkable we've already found  
dozens

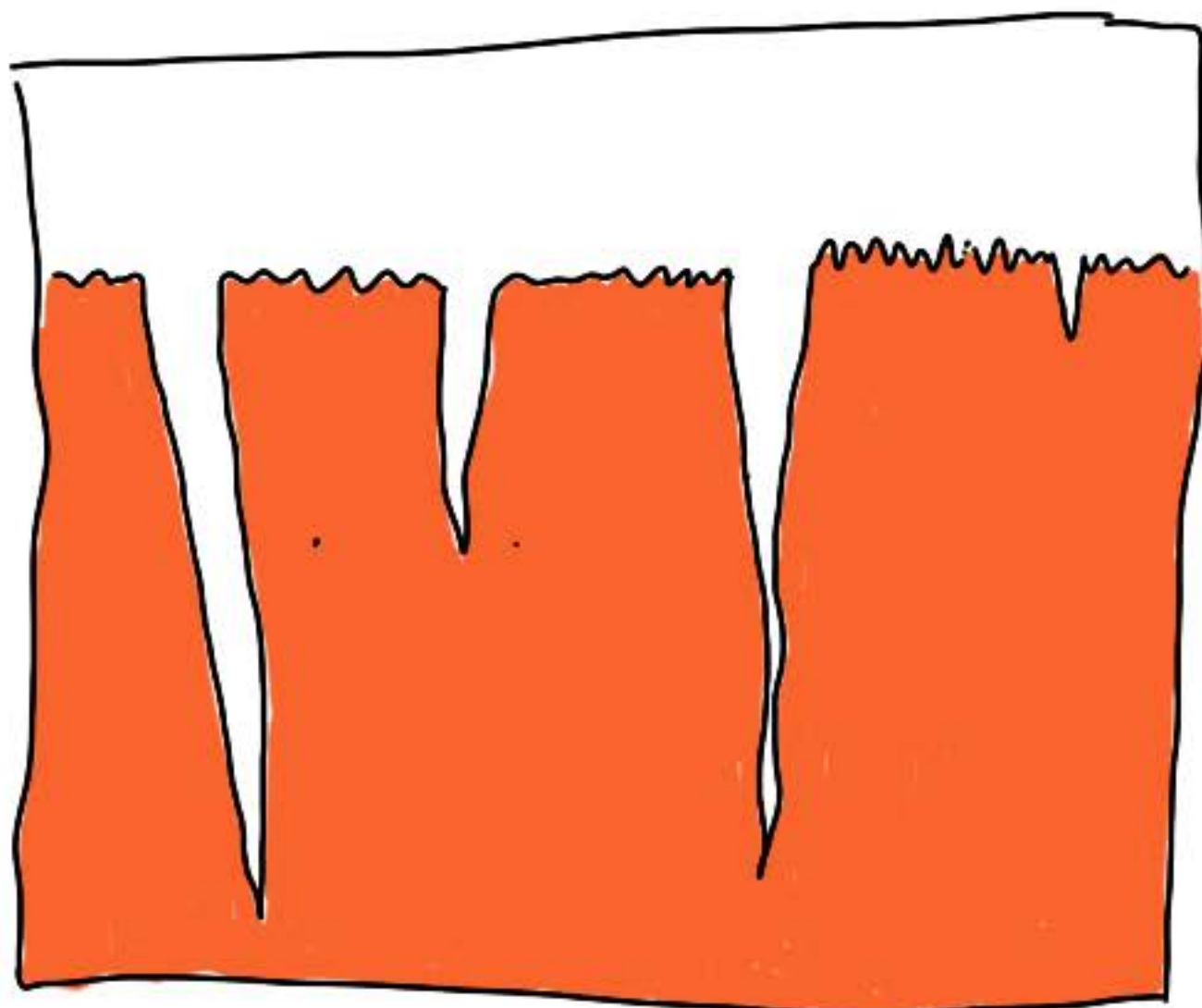


Seeing the sky through SOUND!!!



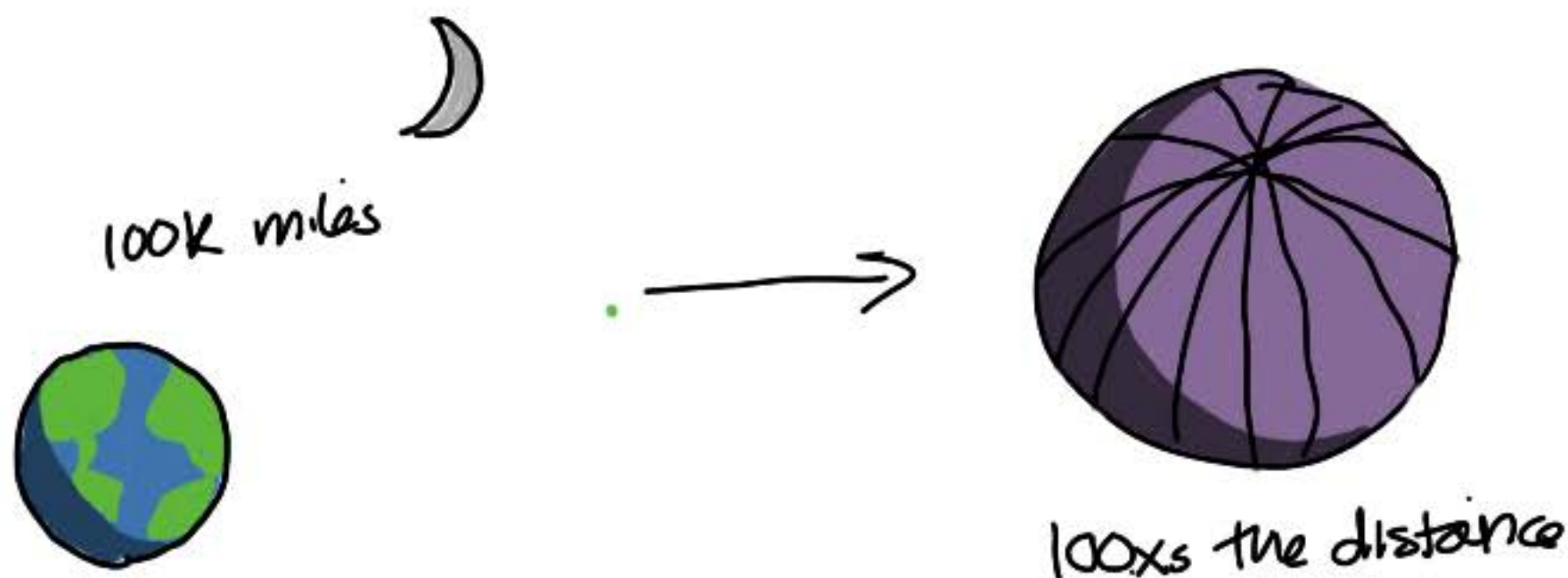
We discovered a transit lasted way beyond the typical hours. It lasted a week. And the dip wasn't V shaped. We saw a dip of 15% & it was a symmetric. In 2.2013, there is a complex of dips that last 100 days w/ unusual shapes & durations

Something in space was blocking the star light. We began to brainstorm as to why; what if the star was young. or if there was a collision, or a swarm of comets. 100s to 10s of thousands seemed unlikely, but it was plausible so we published a paper titled where's the Flux WTF?



1000x area of planet earth - dip in 20%

A colleague and I wanted to find a way to rule out aliens. News of our proposal got leaked to the press. In our alien hypothetical they run out of energy - so they capture star energy thru huge structure called dyson spheres.





Another explanation is we witnessed an interplanetary space battle that resulted in a planets destruction. But this would leave dust.



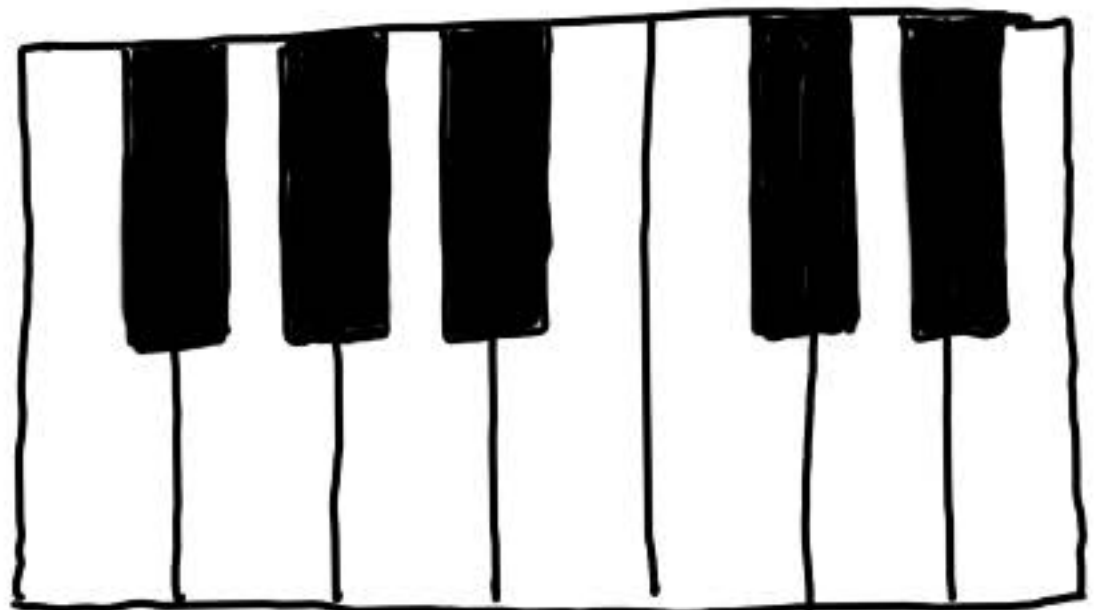
We don't know how to explain this kind of thing. Kepler has moved on, but citizen astronomers stepped up. Finding what a computer missed. There is more data to come. What will it mean if we find another star like this? What will it mean if we don't.

At this point we haven't been able to rule out aliens, but we haven't ruled out natural explanations as well. When you start talking aliens, people stop taking you seriously.

Last month, we lost Marvin Minsky. Our next speaker will help us remember him.



He pushed us to think about the world in a whole new way. He was an impish sage a la Jedi Yoda. For his students, his intellect was extraordinary & generous. He made us all smarter. He would improvise at the piano. It would initially sound like a classic, but then we'd realize, oh that's just Marvin thinking at the piano.





## TED PRIZE WINNER

2014 chairmaine wanted to stop anonymous corporations. Two wks ago a 60 mins. expose put a spot light on this. Shortly thereafter, legislation was proposed in the US. Stay tuned for her movie Bloody Money



2015 Dave. Isay  
Recording 14 minute interviews for the sake of prosperity. Since winning his dream was scaled thru the development of an easy to use app. The stories were uploaded to the library of Congress. W/ one day of my TED talk hundreds of interviews were recorded.

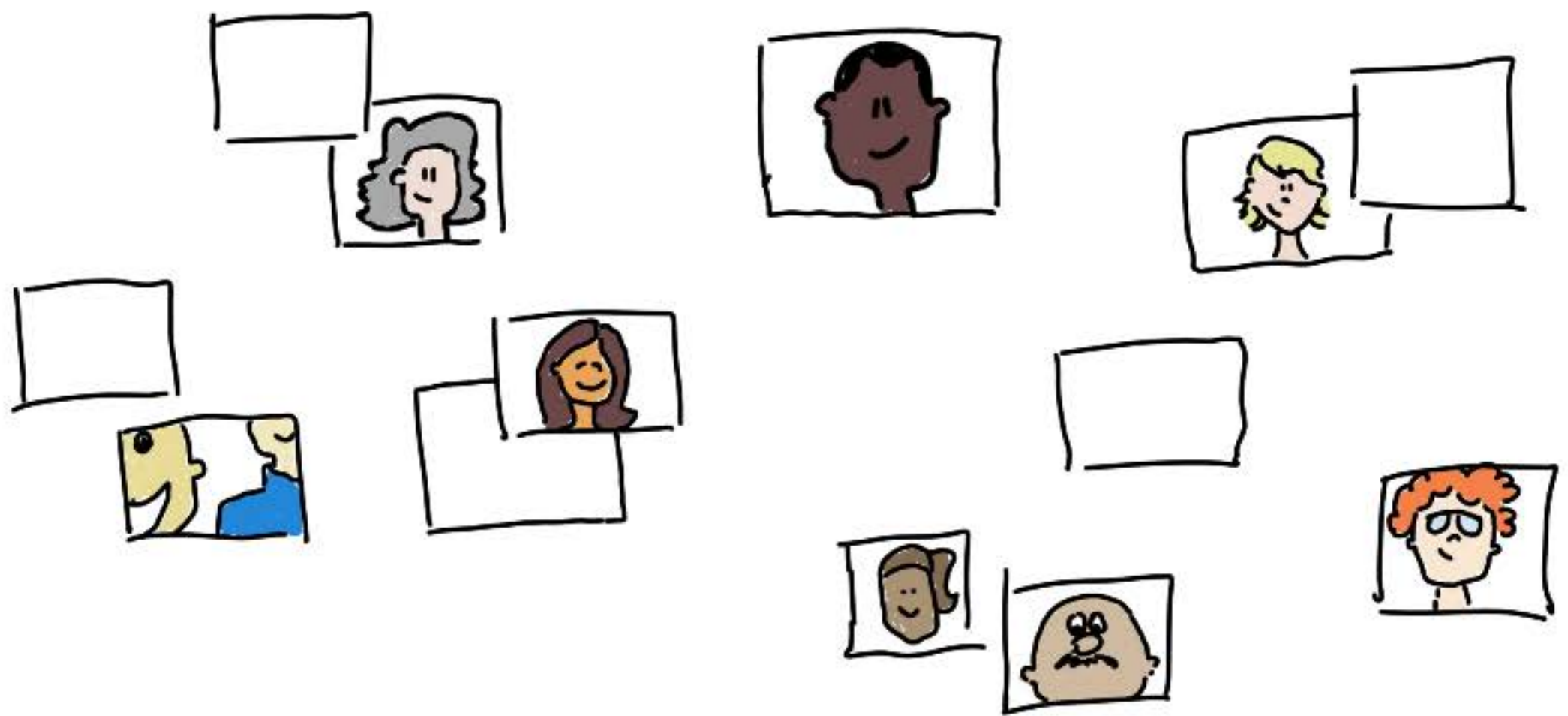
"how did u know grandma was the one?"

she was a looker.

my grandma was referred to a spicy meatball.

"what do you think of alzheimers." It would be awful to have it!





the thanksgiving listen. "The Great Listen". by Google  
 the 1st couple of days the response was poor. However in a  
 few days into the weekend over 50K interviews were uploaded  
 Its said hate is louder than love. This project strives to turn up  
 the volume of love. This is only the beginning.



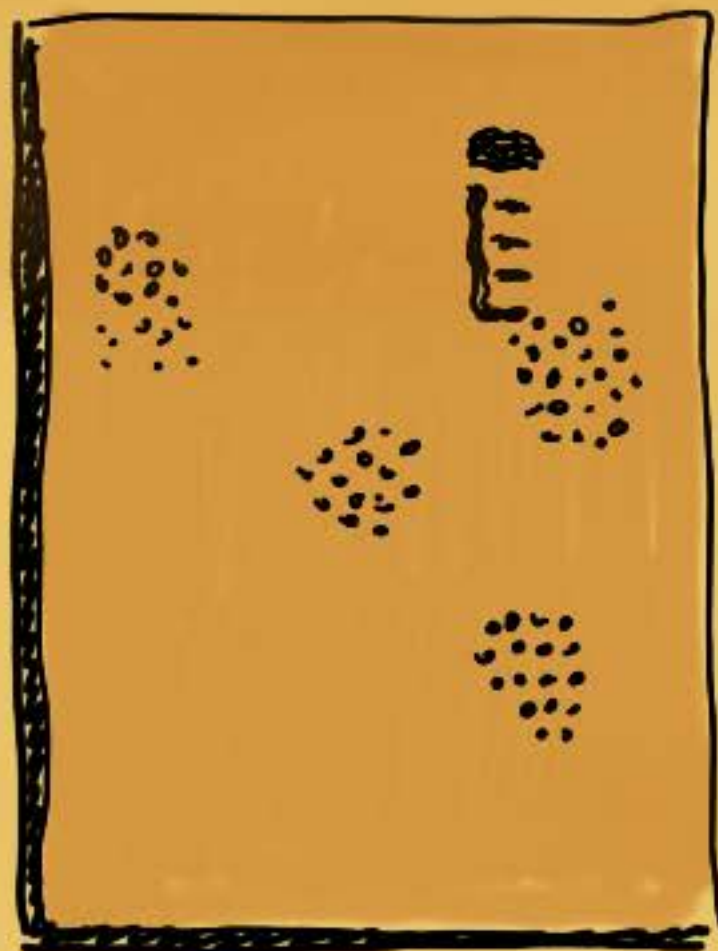
My favorite discovery as an archeologist... is my husband Greg. I  
 proposed to him in front of egyptian statues that had a love that  
 promised to love forever. Archeologist seek to unlock the past w/ dream  
 that one find will chg the course of history. On one dig, I found a pot  
 which revealed a thumbprint. It reminded me my wk is not about  
 things but people.





One only need to closely inspect the pyramids up close to see the hand of man. We see mother in law jokes from 4600 yrs ago, neighbor fueds from 3000 yrs ago, or children that skip class to go drinking 2000 yrs ago. The most important work we do is to acknowledge past human beings existence.

I am a space archeologist:

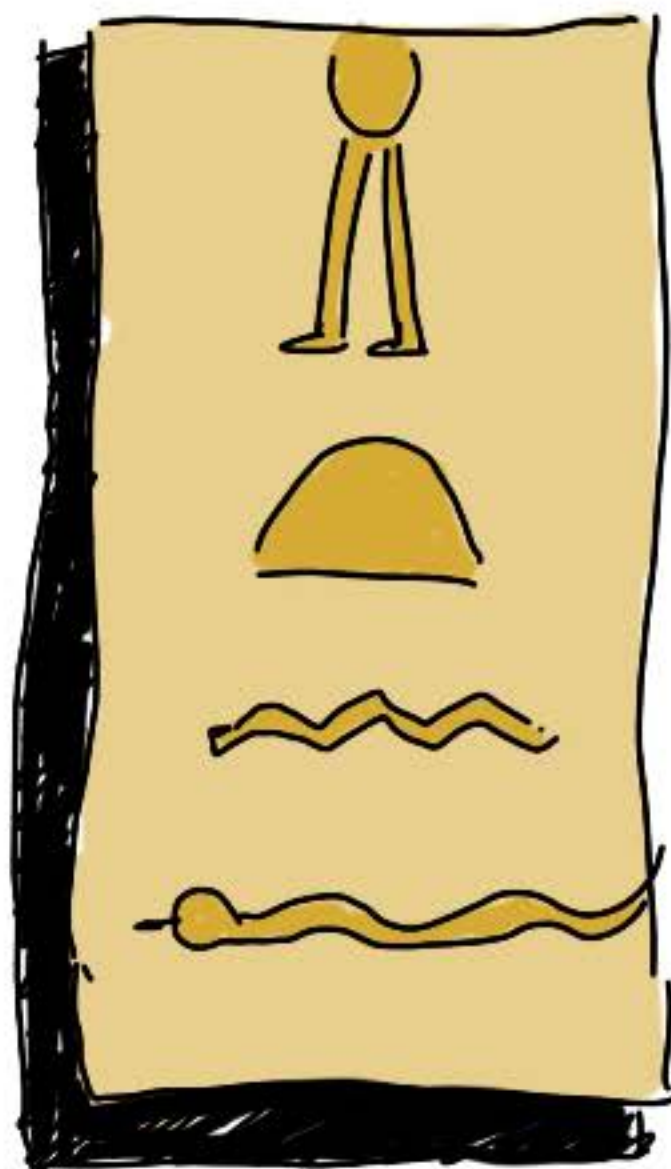


I believe we have only scratched the surface of what is to be discovered. ISIL is looting these sites, but we don't know the scale. This is ancient identity theft by ISIL & local looters desperate for money. I blame the middle men. 267 sites of looting. 200k looting pits. Contrary to popular opinion, looting did not start after the Arab Spring. It started in 2009 with the great recession.

← ARIAL PHOTO'S SHOW LOOTING



A 2 x 2 meter area x 1000 is an approximation of what's taken? The tombs, & jewelry, engraved tombstones were taken 3,900 yrs ago.



I  
N  
T  
L  
tombstone  
reveals  
the name  
on its  
headstone  
through  
holographics

As a student my professor gave me a check for \$2K to go dig. He said have a great summer. I know someday you will do this for someone else someday. So this is my TED prize. To pay him back w/ interest. 100 years ago archeology was for the rich. 50 years it was for men. today, it is for the academics. By creating a platform we will learn about the past.

the only we can write the story of our past is if we do it together. ... come with me.

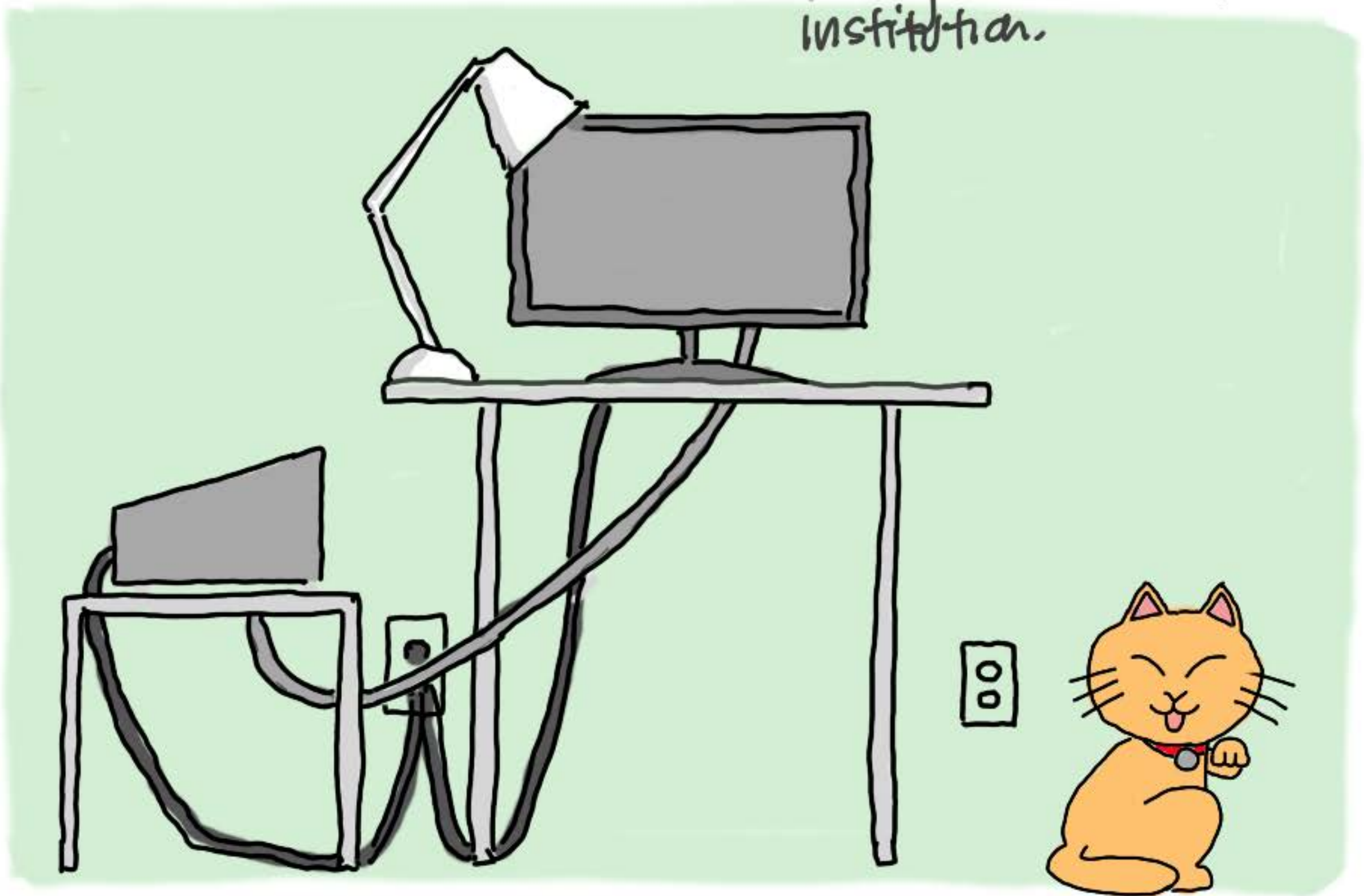


## ⑥ CODE POWER

LINUS TORVALDS

Q. Linux is in Millions of computers powering much of the Internet so I assumed you had

A. It doesn't look like much does it? I want to have environment. It's light green. calming like a mental institution.



My computer has to be very quiet. It is the most boring ofc. If the cat comes in, I want to hear it purr. Not the machine



Q. How did open source start?

A. I still was alone. Often in my bedroom. I enjoyed writing code & there was no open source. The project grows & it becomes something you want to show off. It was open. I asked for comments. Someone from Helsinki then told me about open source. Initially, I was worried about someone exploiting the work.

Q. then contributors came along

A. Someone takes an interest enough to look at your work & offer ideas. I was only 21 yo at the time. I received code from someone & thought I love other people. Don't

Don't get me wrong. I'm not a people person  
but I love getting the code

Q. when did you see scale.

A. Going from 1-100 people was hard. Going from 100 to 1M people was easy

Q. tell us about GET

A. When you grow from 10 people on a project to having 10k people, some people make small small chgs, to



A. We needed a lot of work to maintain this type of engagement. I hated the existing system, so I created Get to support vimeo. I do code for fun, but I want it to be meaningful

Q. So this was an unintended technology born out of your desire not to work w/ other people

A. yes

Q. You've been coding since you were 10. What were you like as a kid.

A. My sister would prep me before I went to family gatherings. I was a geek, but didn't consider myself exceptional. My sister said my extraordinary quality was not letting go

Q. So it's not smarts, it's stubbornness.

A. I lived in Silicon Valley for 7 yrs & stayed w/ the same company the whole time. That's unheard of.



A. I can be myopic when it comes to other people's feelings. & I've hurt people. I'm not proud of that. "I'm sorry." In open source, you do not have to like each other. I was afraid of commercial people taking advantage of my wk. They turned out to be lovely & do things with the wk that I wouldn't.

Some people hug, that's not me. I can't do UX at all

Q. What is good taste in terms of coding.

A. The not good taste is how it's taught. (a singly list). Better code does not have an "if statement"

```
remove_list_entry ""  
<  //  
  //  
>
```

```
remove_list_entry ""  
<  //  
  //  
  indirect = &head;  
  /, walk  
>
```

<



A. I'm not a visionary. I'm an engineer. I'm looking at the ground & want to fix the pothole before I fall in while others stare at the stars



I look at potholes



Others ponder the stars

Q. Tesla & Edison

A. Tesla is ♡ & Edison is vilified his quote is inspiration the rest is perspiration. But Edison changed the world. I'm an Edison

Q. So our theme of Big audacious dreams.....

A. I'm trying to dial it down a bit

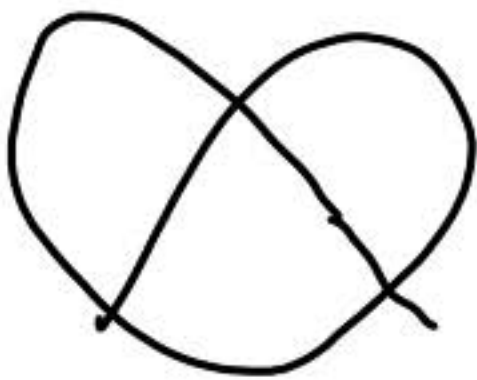


Q. Do it piss you off the  
google et al have made so much money off of u

A. No, I'm fine. I'm a very happy  
man

Q. Is open source have more  
to do?

A. I have 2 minds. 1) code tends  
to be black & white. it wks or  
it doesn't. leaving less room for  
arguments. Yet we still do. There  
are theories of open politics,  
there is a movement to bring open  
source to science. Yet I'm sure  
there are more to come.



pretzel earrings

Mark Andresson said there R 2 types of people



# RESHMA SAUJANI

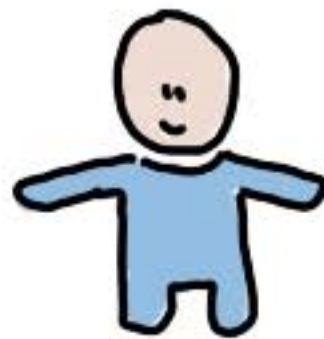
a few yrs ago I ran for <sup>congress</sup> politics. In my ♥ I had always wanted to run. The sitting senator had been there for years. Pollsters told me not to run. but the media loved me. however I on \$1.3M

It was humiliating. I tell u this story bc I ran for congress when I was 33 it was the first time I was really brave. Most girls only do what they R really good at. whereas boys are always encouraged to take risks



Little Girls raised to be PERFECT .

VS.



Little Boys raised to be BRAVE

the bravery deficit is why girls are under repd. A study of 5th graders found that hi IQ girls give up on difficult tasks whereas boys dig in. In



close the bravery gap



male candidates apply for jobs when they meet 60% of

60% **QUALIFICATIONS** 100%

female candidates apply for jobs only if they meet 100%.

I think women aspire to perfection & are overmy cautious. It's a matter of confidence, the book tech jobs that go unfulfilled is a result.

In 2012 I started to teach girls to code. By doing so I was trying to teach them to brave. It reqs perseverance It reqs imperfection

**BOOK**

TECH JOBS UNFULFILLED

During the 1st week, a girl will ask for help after deleting their attempts / progress



PERFECTION or BUST

there's something wrong with my code.

there's something wrong with me.



trying harder will not fix a broken system. Two HS students created tampon run to break stigma of menstruation  
16 yr

Syrian  
refugee

Cancer  
detection  
(dad has  
cancer)

These girls have been socialized to be imperfect. For any country to truly innovate, they cannot leave 1/2 its population behind.

Girls need to learn to be imperfect & we will have a system where girls will be brave. & we will have a better world.

Q. How many girls?

A. 2012 - 10 girls  
2016 - 40K

Q. Partners?

A. twitter, fb, pixar. Adobe. When U have more gender balance

women use social media at a rate of 600% more than men



ARTIFICIAL  
INTELLIGENCE

# X-PRIZE

PETER DIAMANDIS

DAVE KENNY

**P** We are announcing the \$5M AI Xprize. It will be a powerful human/AI interaction. bc this field moves so rapidly setting a goal is impossible. so teams can call their own shot go to

ai.xprize.org

**D** We want people 2 shw their successes & failures. why is IBM doing this? If we pull together, there will be more potential

**P** We also want to chg the dystopia AI narrative

**D** The world is coming on v. it democratizes info.





I have spent the last 38 yrs trying to be invisible. As a copy editor at the New Yorker. We work @ the level of the sentence.



The New Yorker's  
"COMMA QUEEN"

naïve

teen-ager.

coöperate.

} distinctly  
New  
Yorker

we make suggestions & supply compelling alternatives to the copy editor passes it along to the writer. i.e. The copy editor was the bad guy until a mistake is made:

no-nothingism vs. know-nothingism

betred

betrayed

Martin Luther King, Jr., Blvd. ← control your commas, maniac

Two and a half million does not equal 2,500,000.



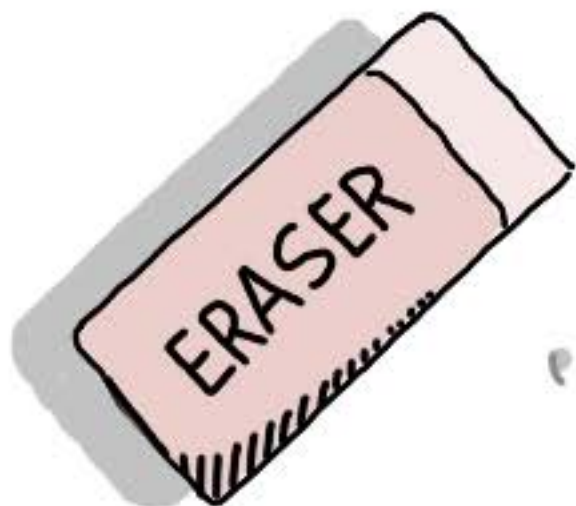
# THE NEW YORKER





~~like~~ when you open  
a box of inguine &  
it shades out.

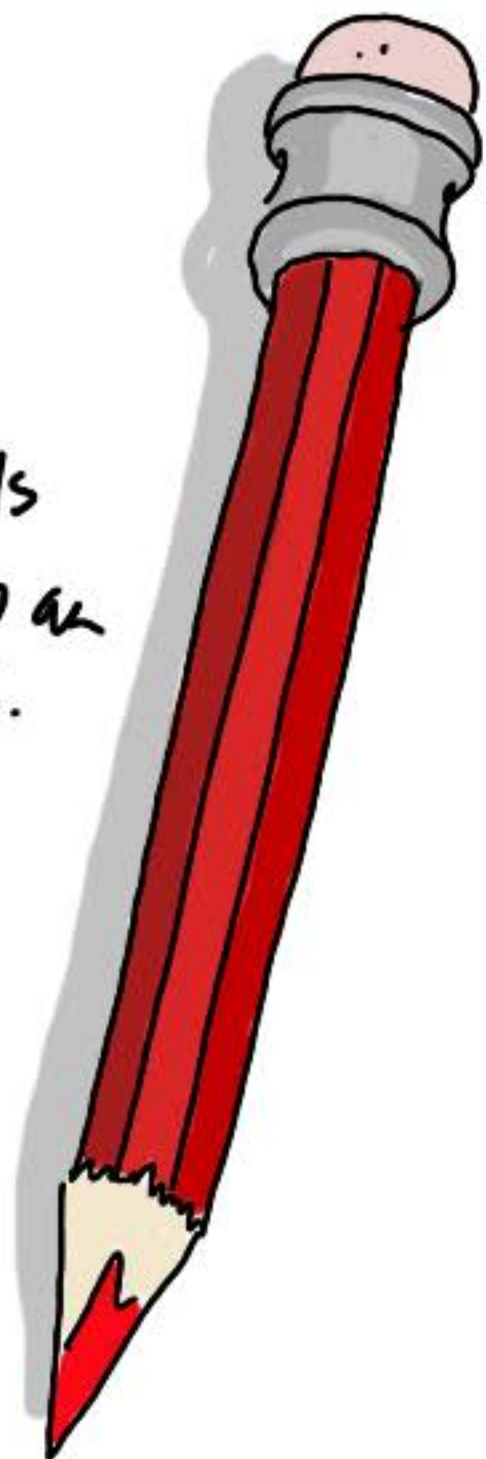
should have  
been  
as.



as x Her face and hands  
stood out ~~like~~ in an  
old, mostly dark.

~~miked~~

miked.



x everyone in the vicinity held ~~their~~ breath

✓ all in the vicinity held <sup>the singular</sup> ~~their~~ breath.

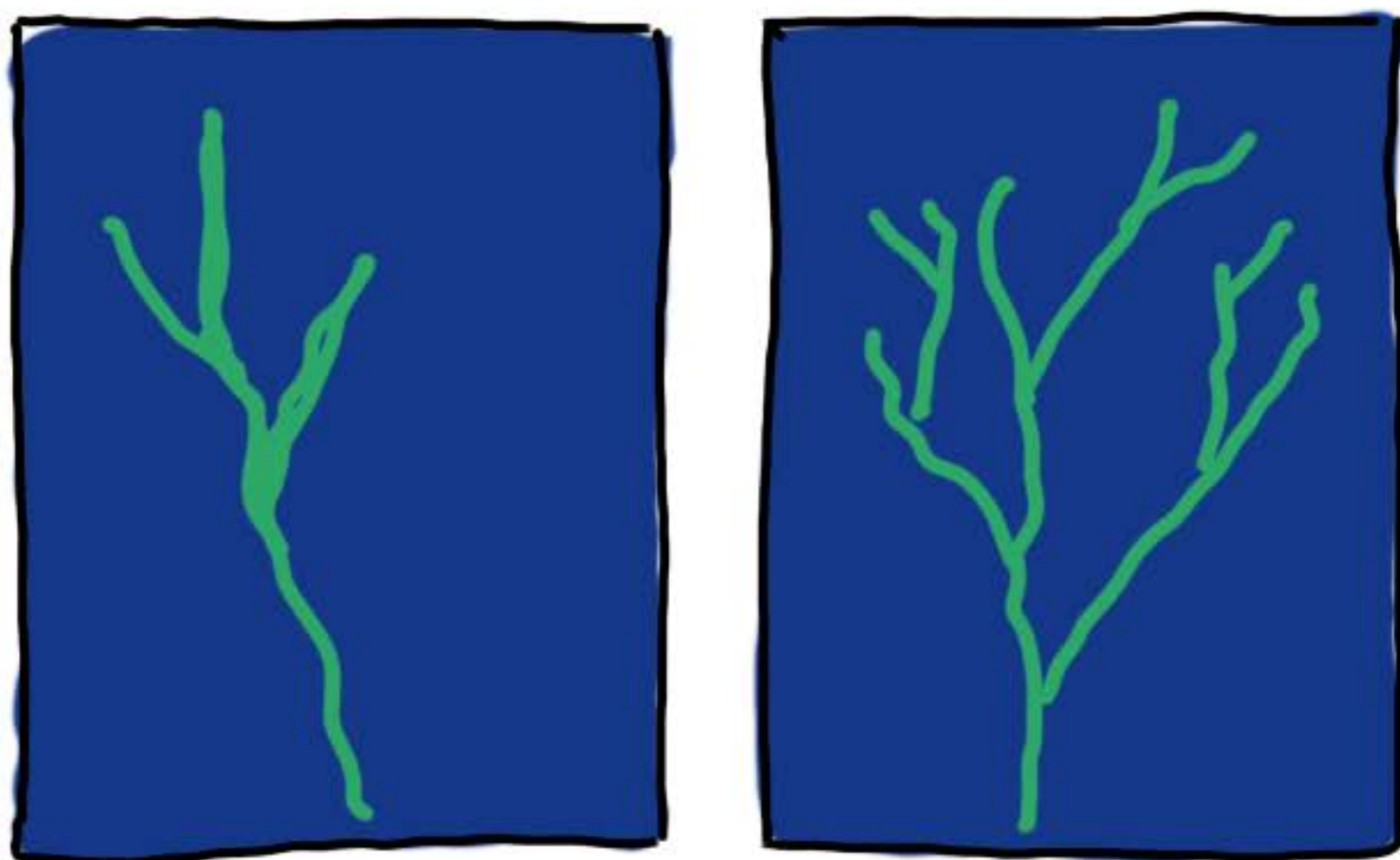


"It is my job to fix

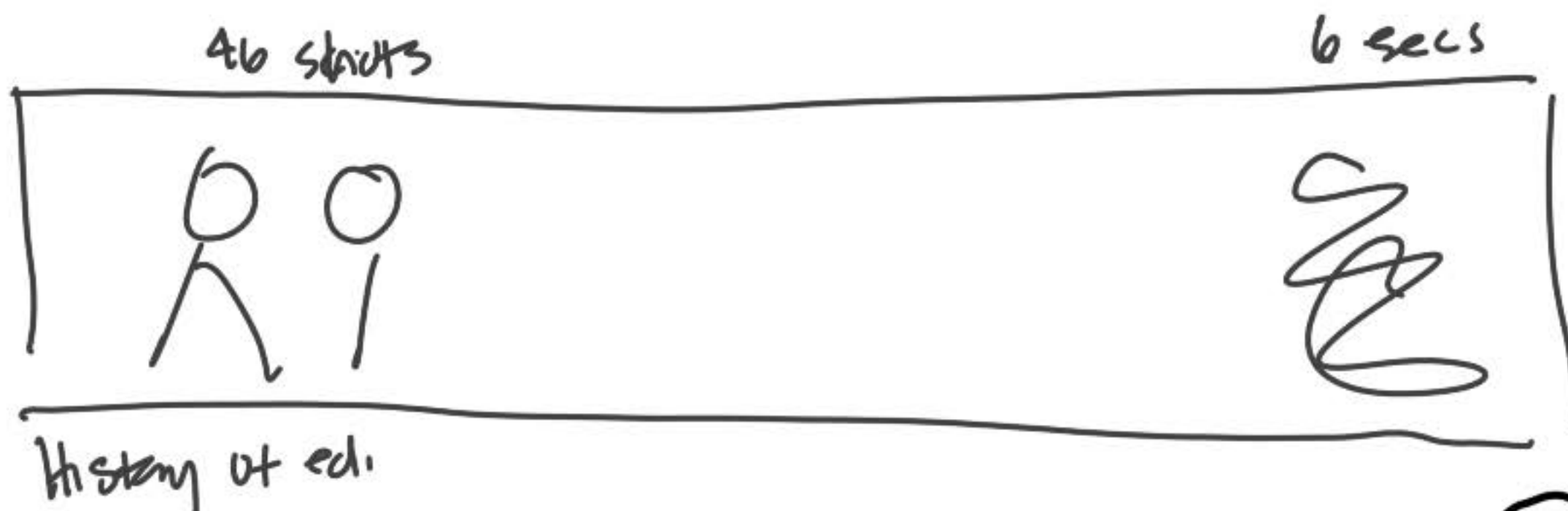




I'm a peculiar artist. I can't draw or paint. my shop teacher called me a menace. But I can code. - something that hasn't been around for a long time as an. art form no less. But that is what music is. It is at its core - code.

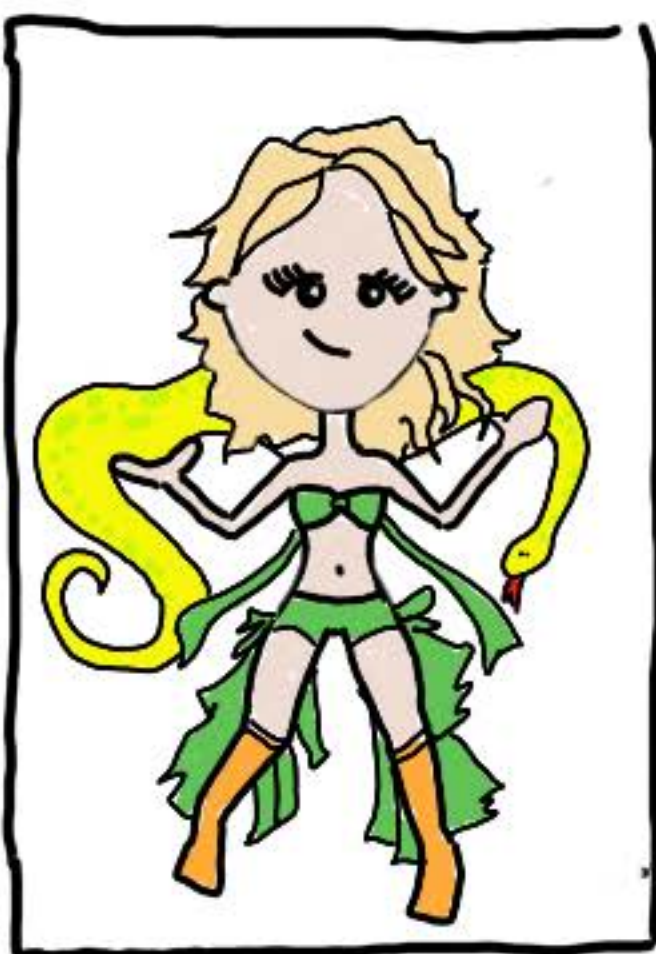


Looks like a Plant.



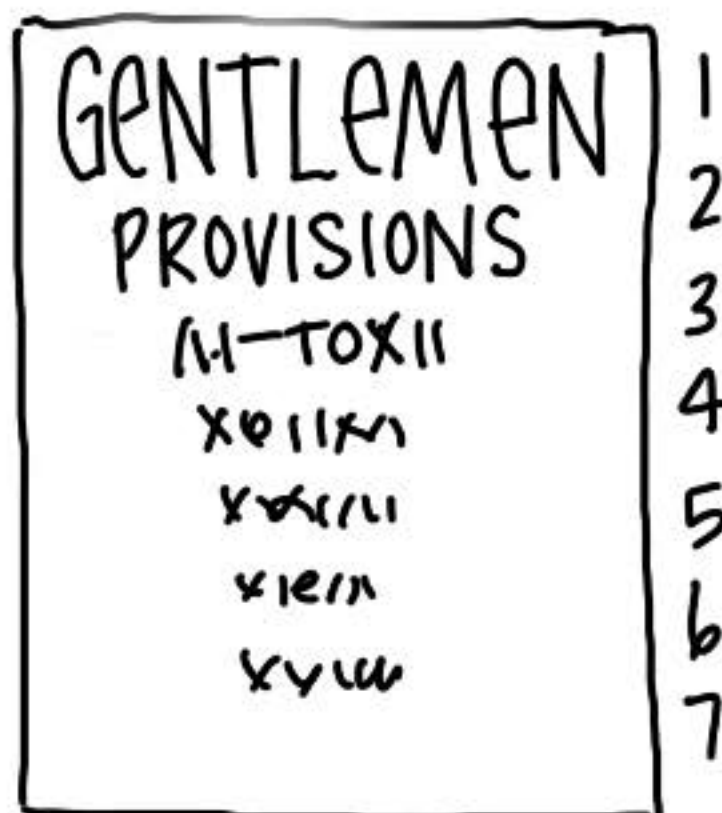


BRITNEY SPEARS



We are fraught with concerns over privacy but obsess over celebrity

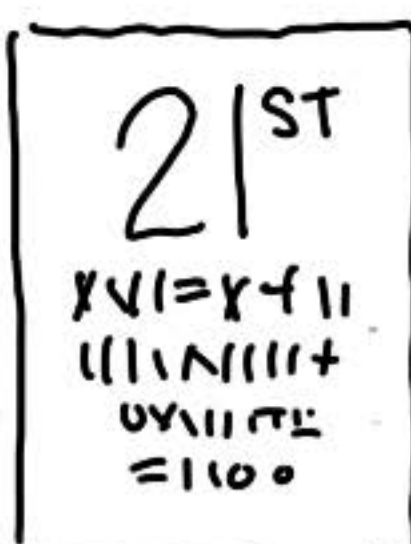
I came 2 recognize that what I was making was portraits.



GEORGE WASHINGTON



REAGAN



CLINTON



LYDEN JOHNSON



NIXON



In 2010, I joined 21 different dating sites and downloaded 19,000 profiles. Geographical patterns started to emerge in terms of self-proclaimed characteristics.

MOST INTERESTING  
Washington, D.C.

LEAST FUNNY  
Nebraska

MOST GAY  
San Francisco

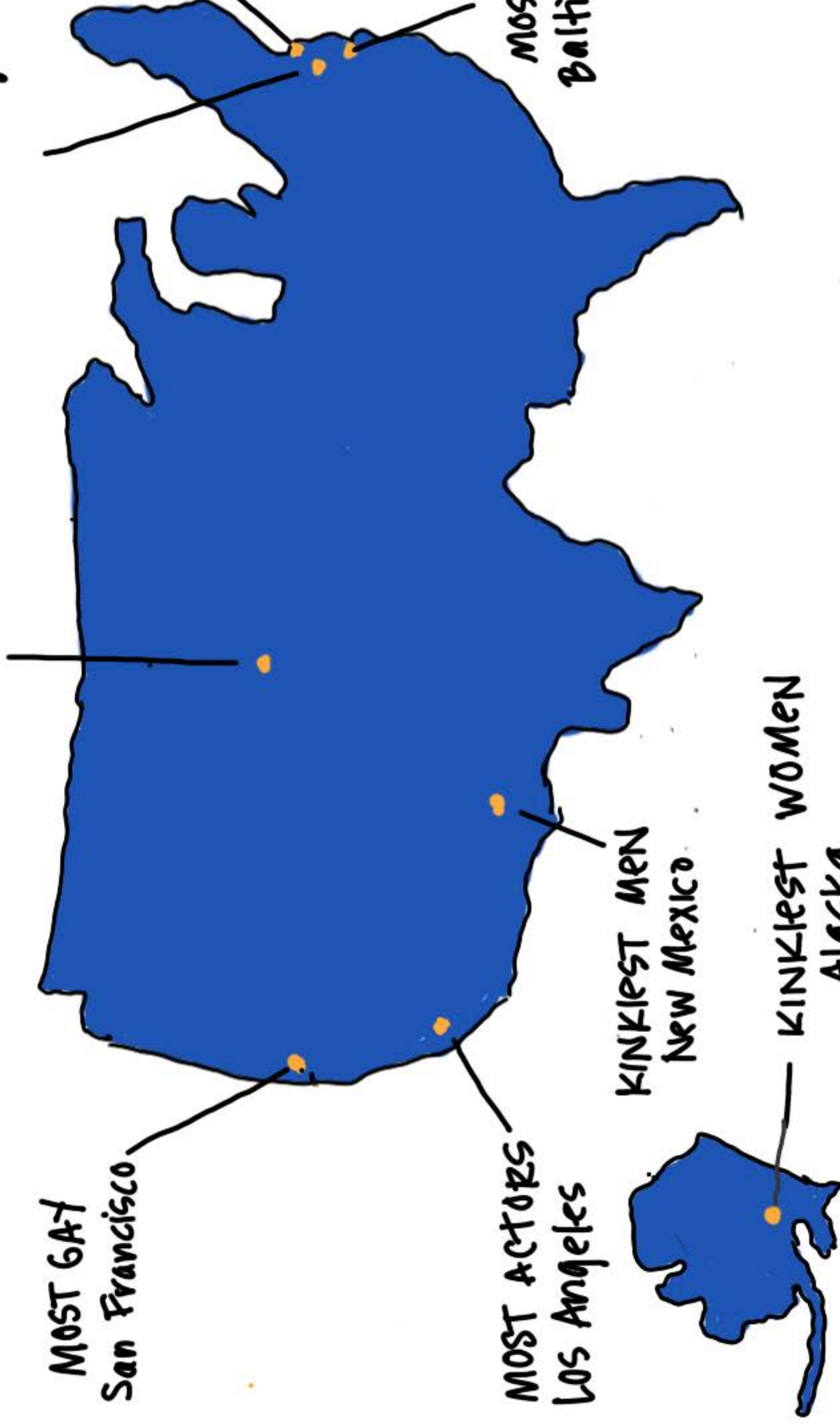
MOST CYNICAL  
New Jersey

MOST AFRAID  
Baltimore, MD

MOST ACTORS  
Los Angeles

KINKIEST MEN  
New Mexico

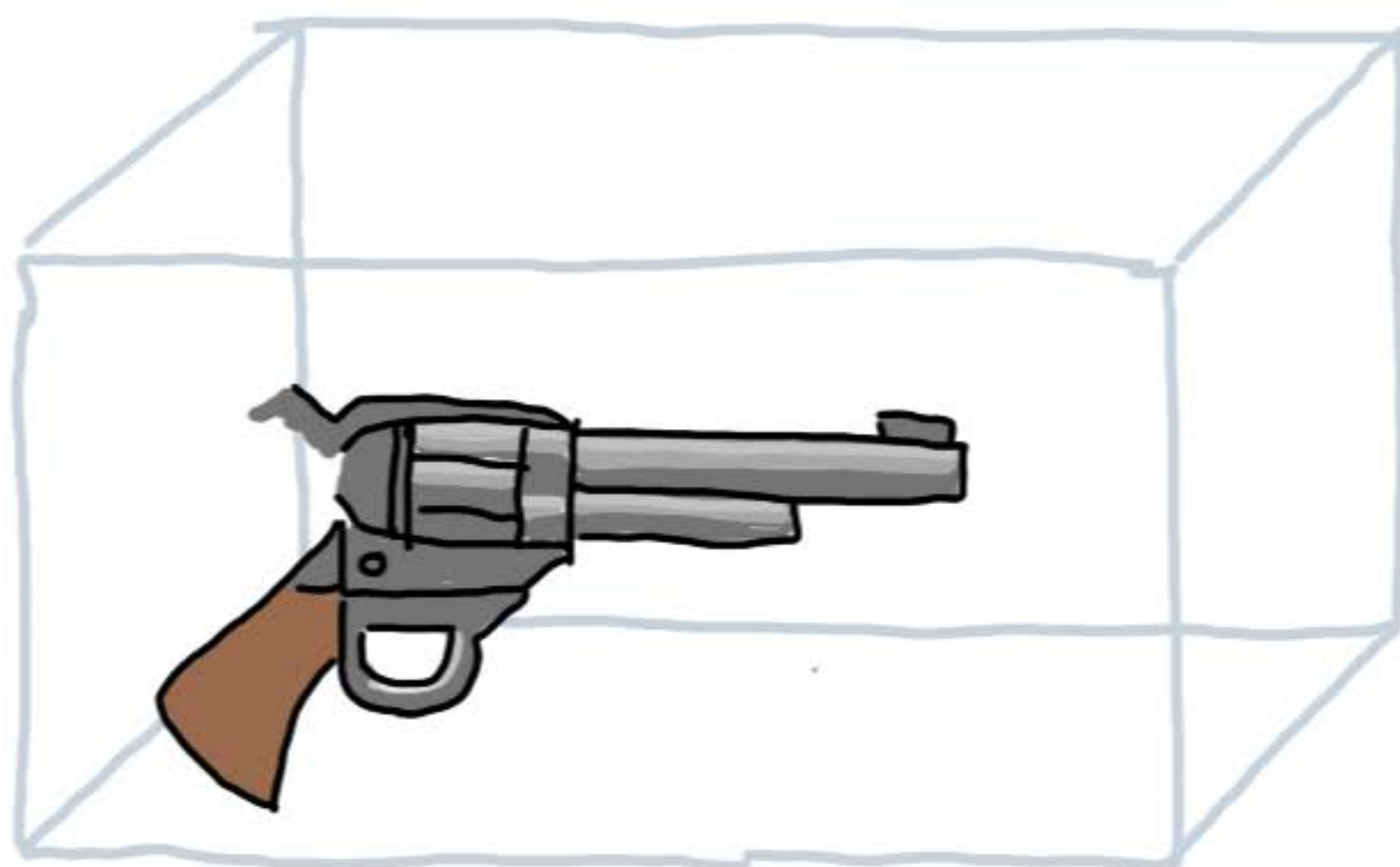
KINKIEST WOMEN  
Alaska





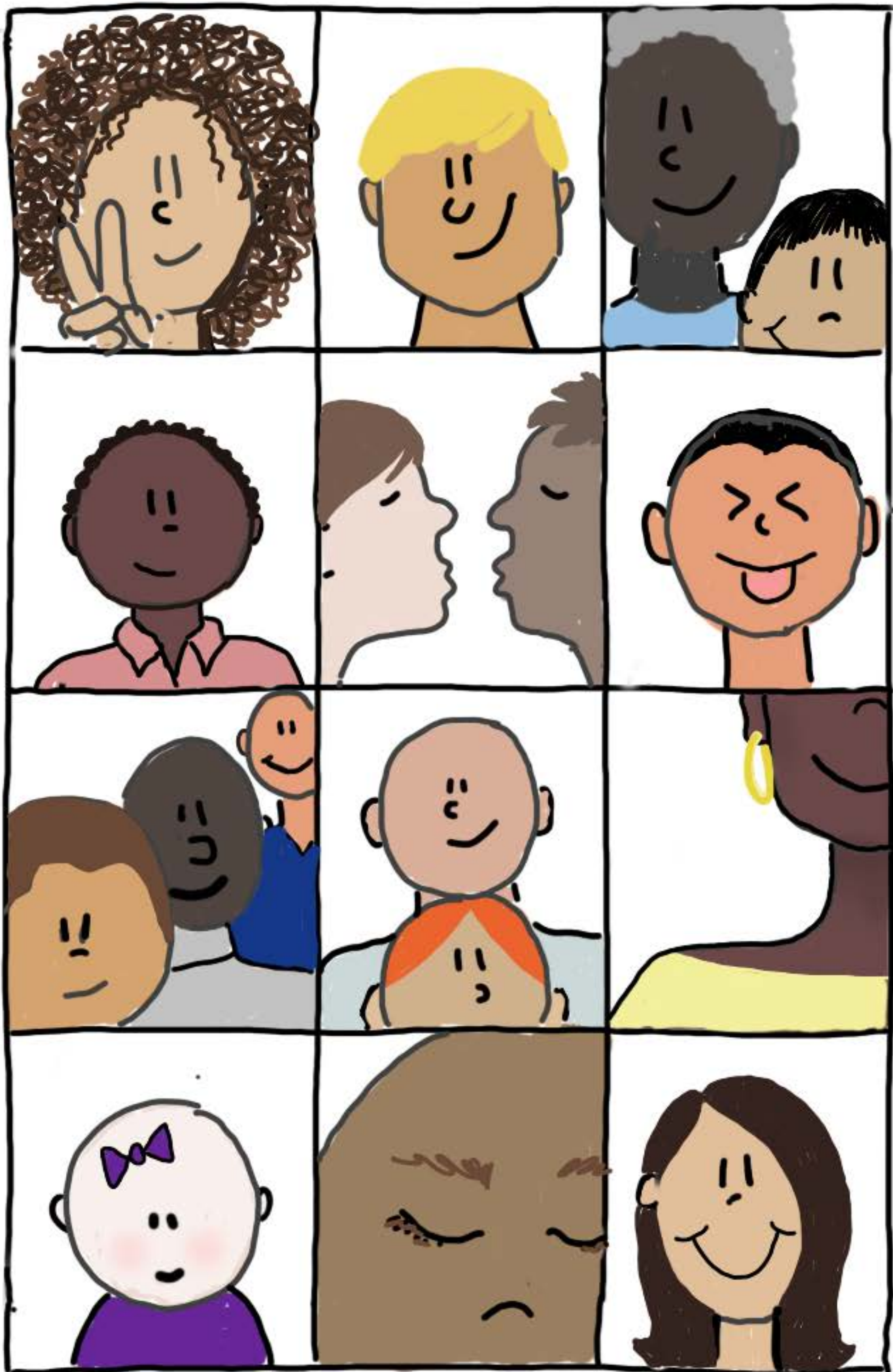


Quantified Self based on five (5) years of email - giving weight to emotional words reveals the strongest connections.



TAKE A BULLET for the CITY  
Art piece shoots 5x/day to  
remember lives lost to gun violence





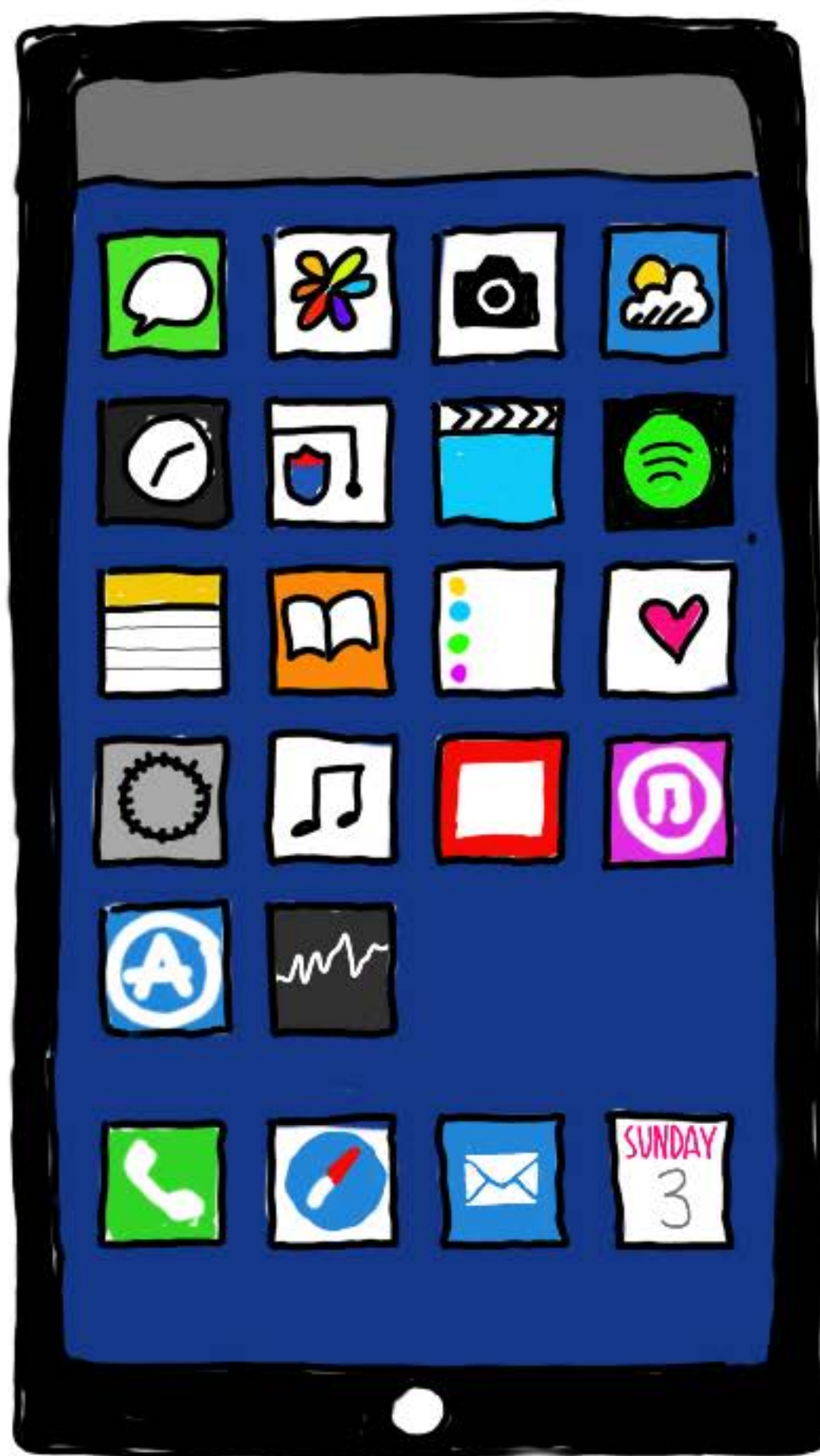
TIMES SQUARE - 5000 selfies daily

Reducing ourselves to a statistic or number is done at our own peril



MERON GRIBETZ

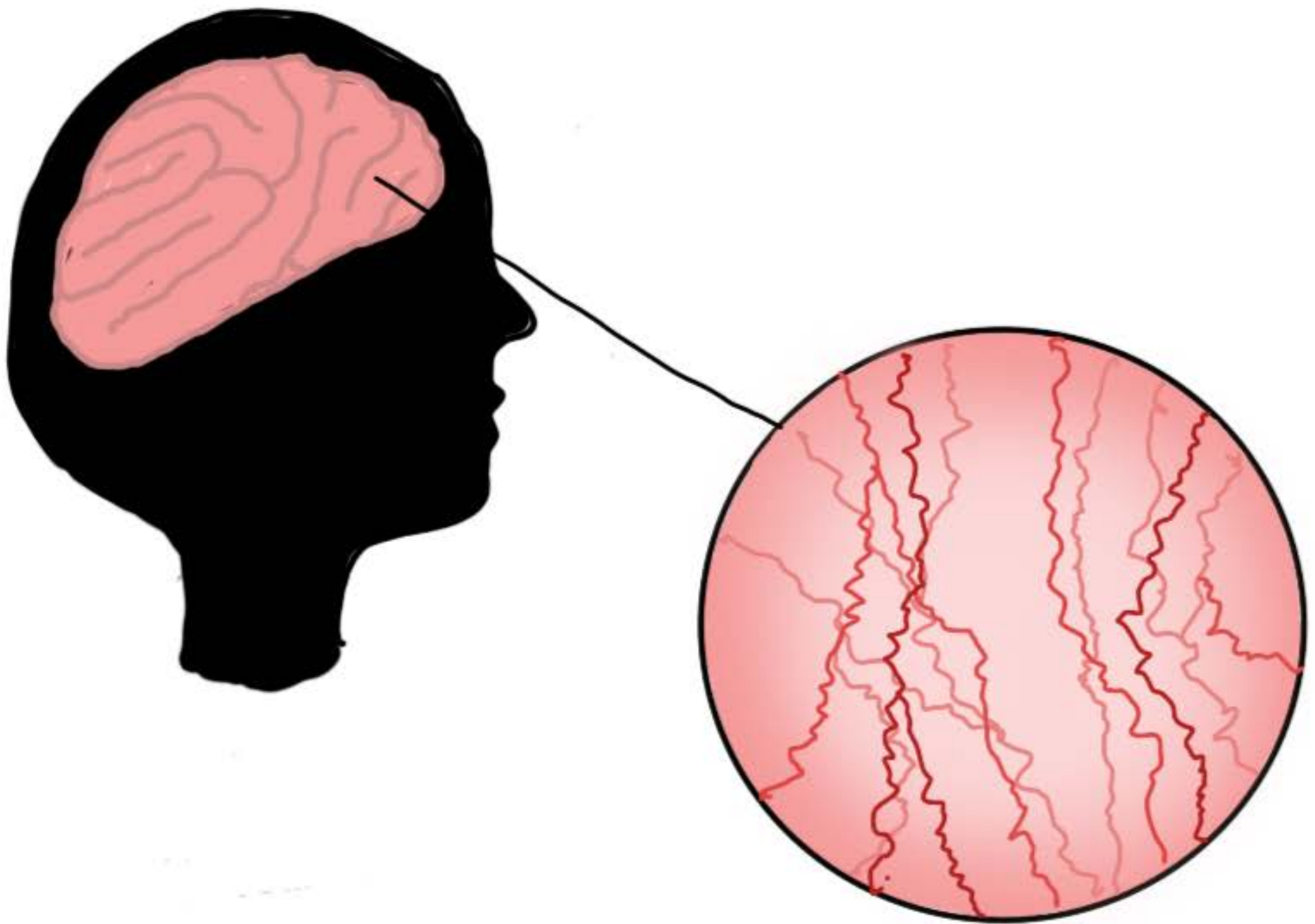
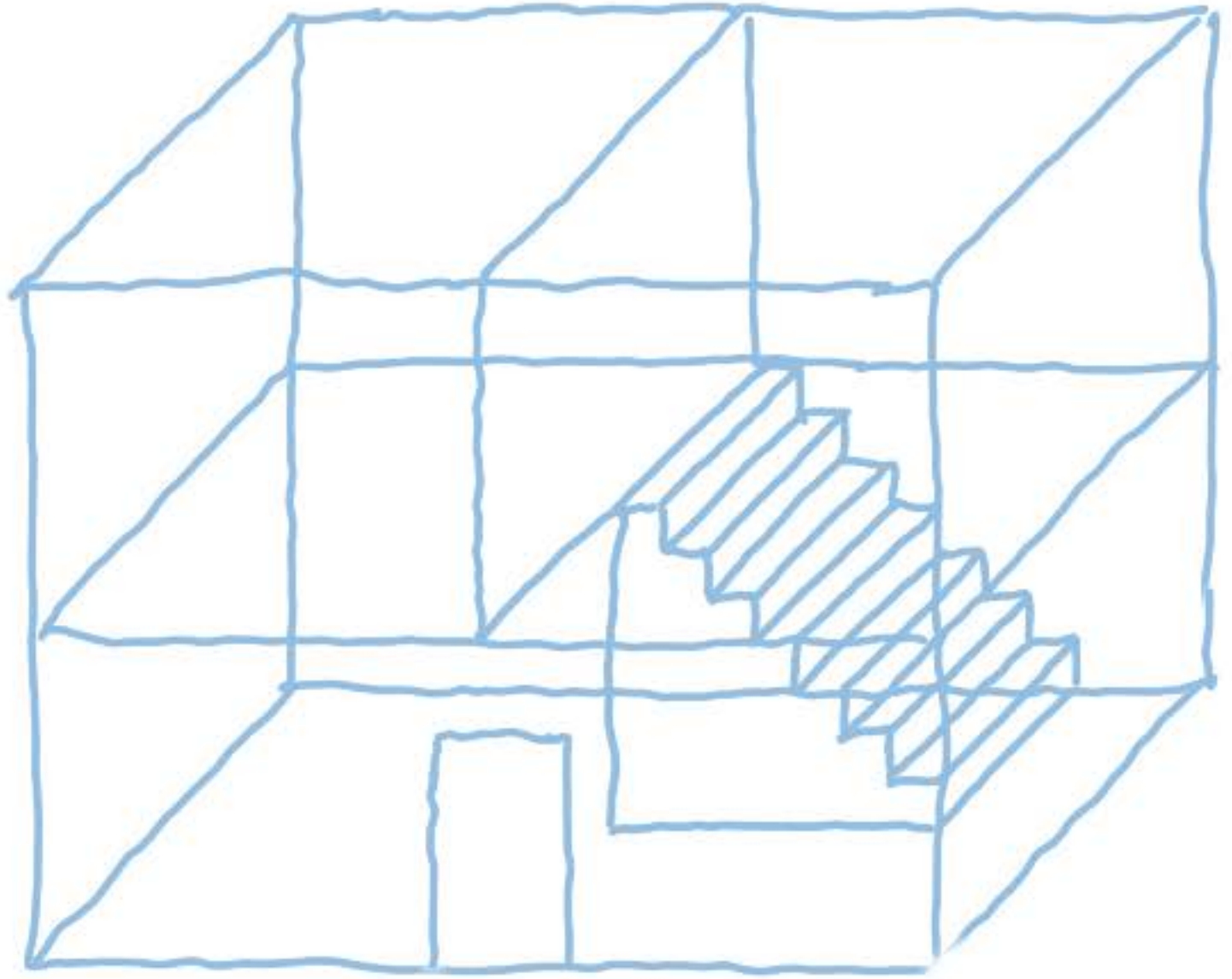
Founder of Meta. Today's computers R so amazing we fail to notice how terrible they are. In 2011 while sitting in a bar i'm talking about holograms. The conversation was great until my companion was distracted by a text. The moment was broken.



We hunch over our devices staring at boxes.



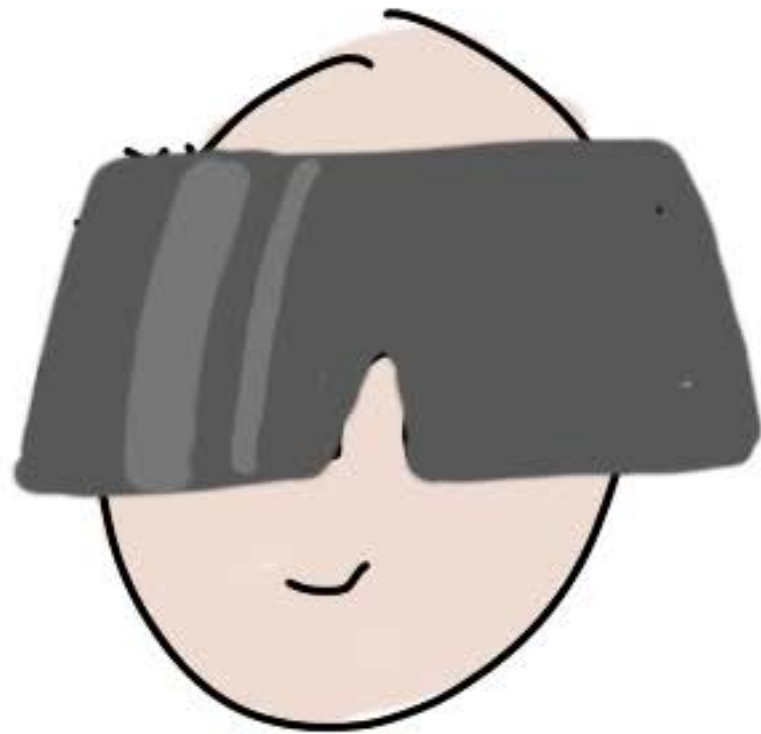
3D  
floor  
plans



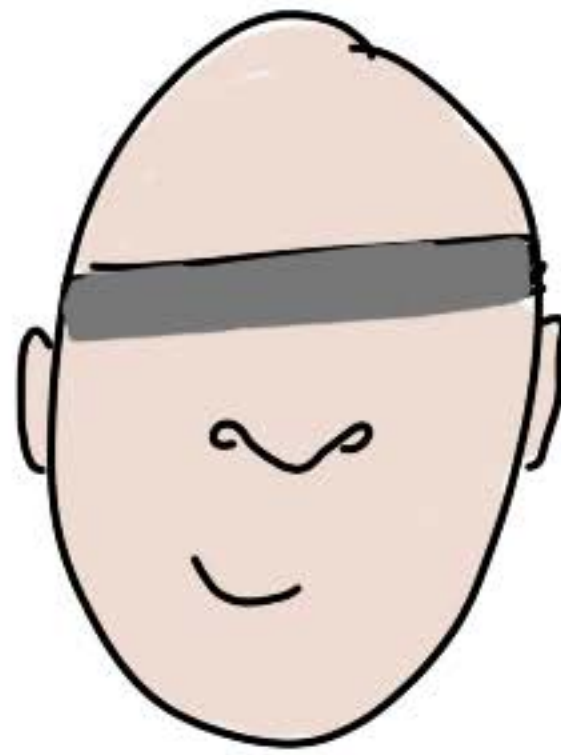
Use Augmented Reality to extend our bodies



in about 5 yrs, these will look like stripes on our eyes



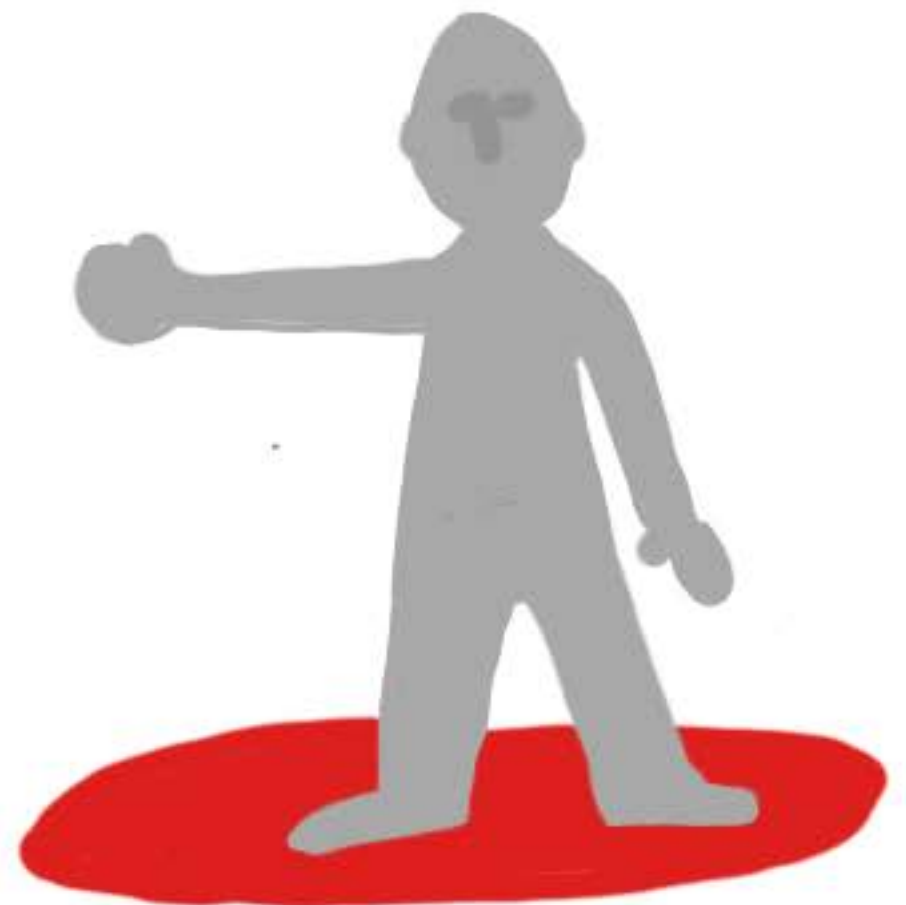
NOW



Next

We use neuroscience to guide our design guidelines. We create a zero learning curve computer.

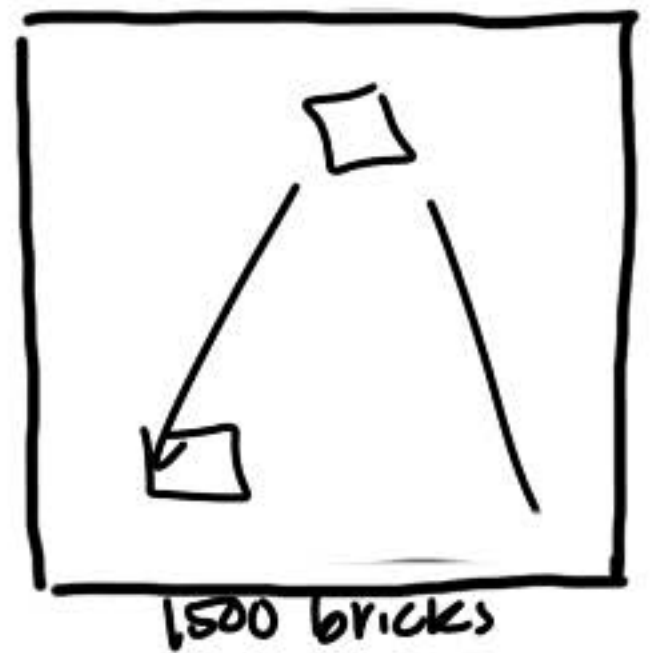
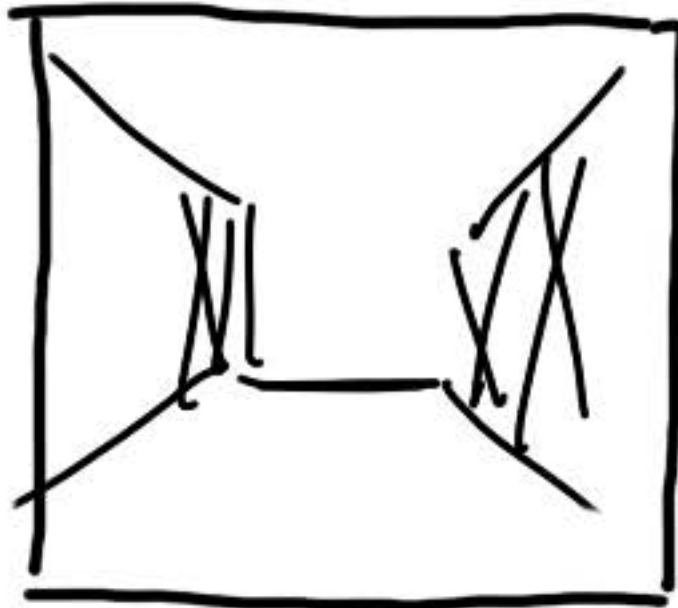
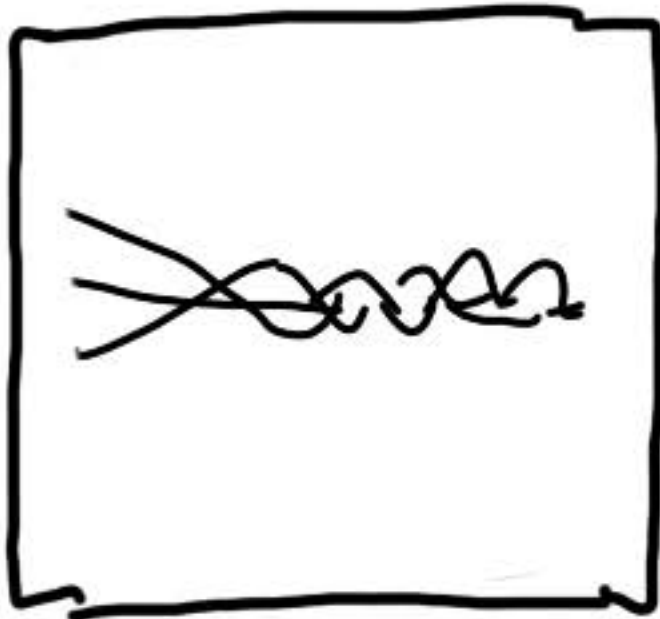
1. You ARE the operating system
  2. touch to see. (just like babies)
  3. the holographic campfire.
- We connect better when not distracted w/ devices





RAFFAELLO D'ANDREA

& TEAM



what started as a hobby has become a multi B dollar industry  
drones can build towers, bridges & interact w/ the physical  
world. To operate autonomously, the system must know its  
surroundings: cameras & sensors guide the drones

**TED**

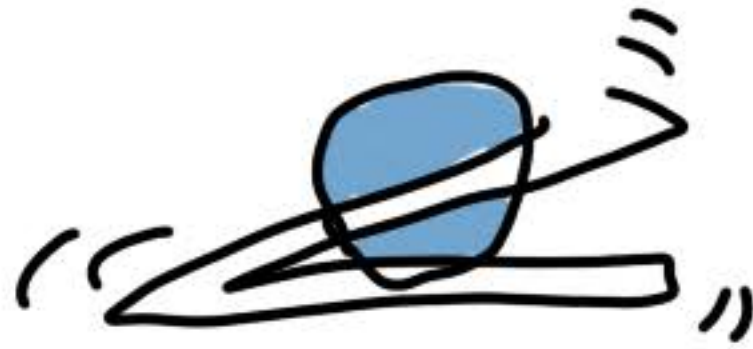


It can recover  
from  
disturbances  
self correcting

It can recover from disturbances — self correcting

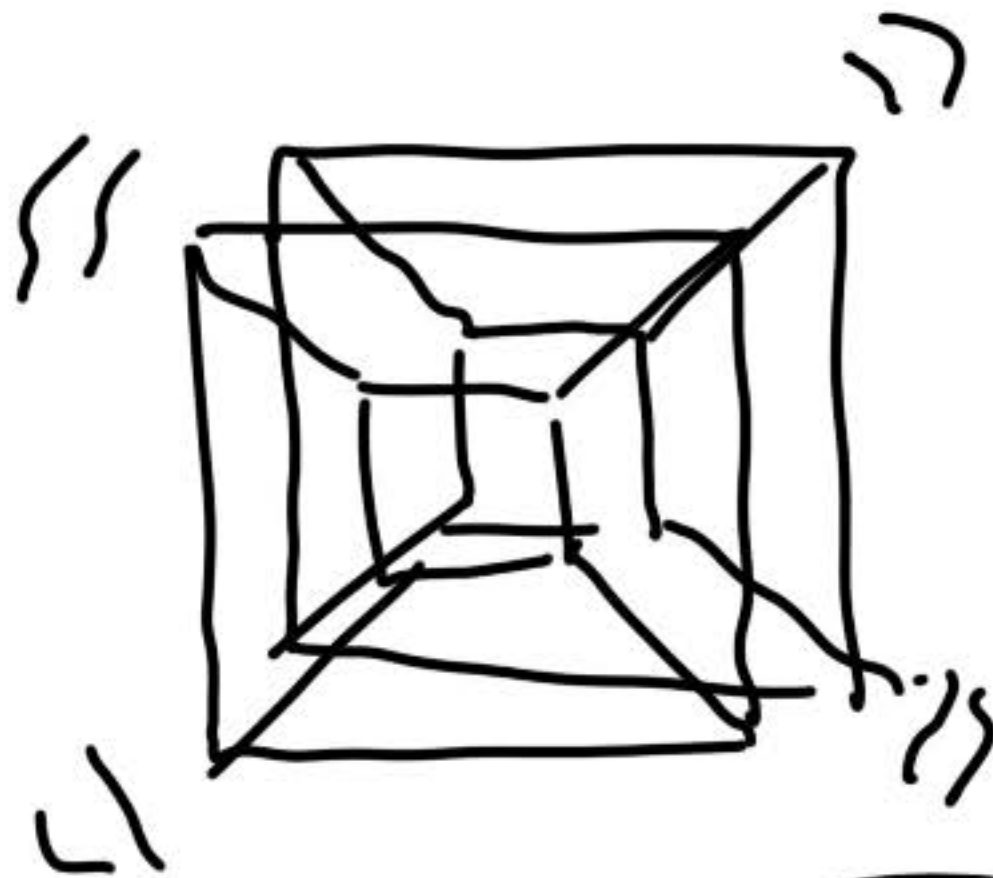


Helicopters: a machine w/ 1000 parts all designed to do  
✓ harm. But we created a helicopter ~~with~~ drone w/ two parts.  
only one of which has only one moving part

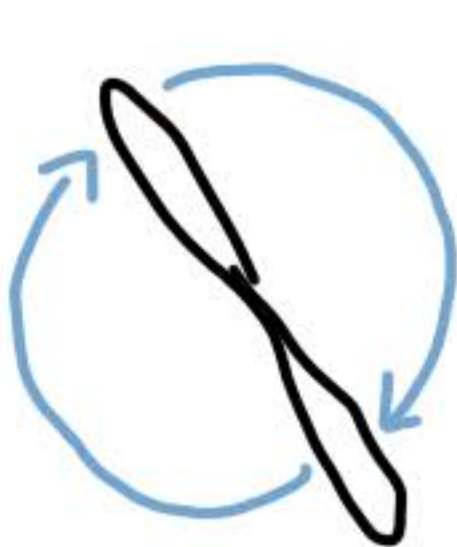


monospinner.

We have exercise in excess w/ a drone that is symmetric &  
has 8 propellers



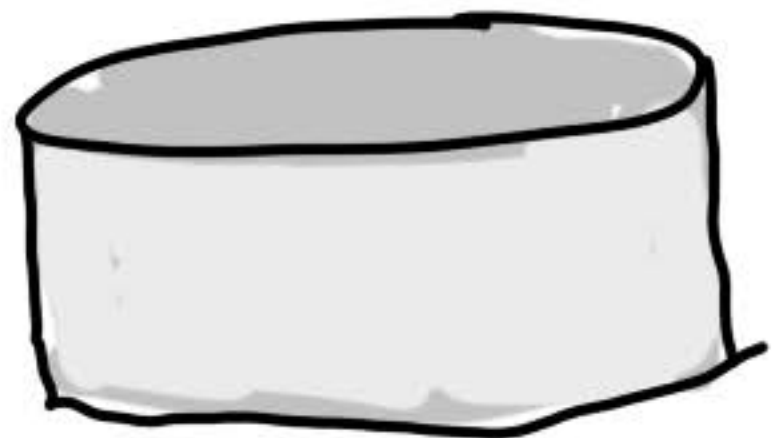
disassembled 1/2



clock  
wise



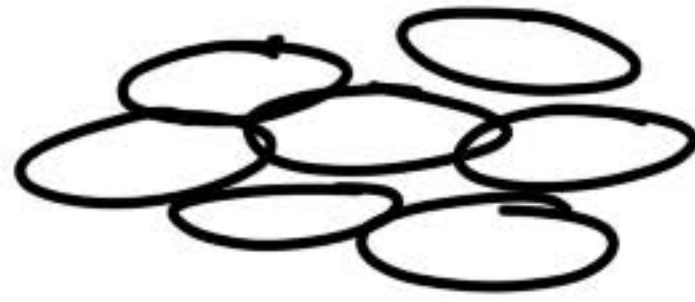
counter  
clock  
wise



put them together

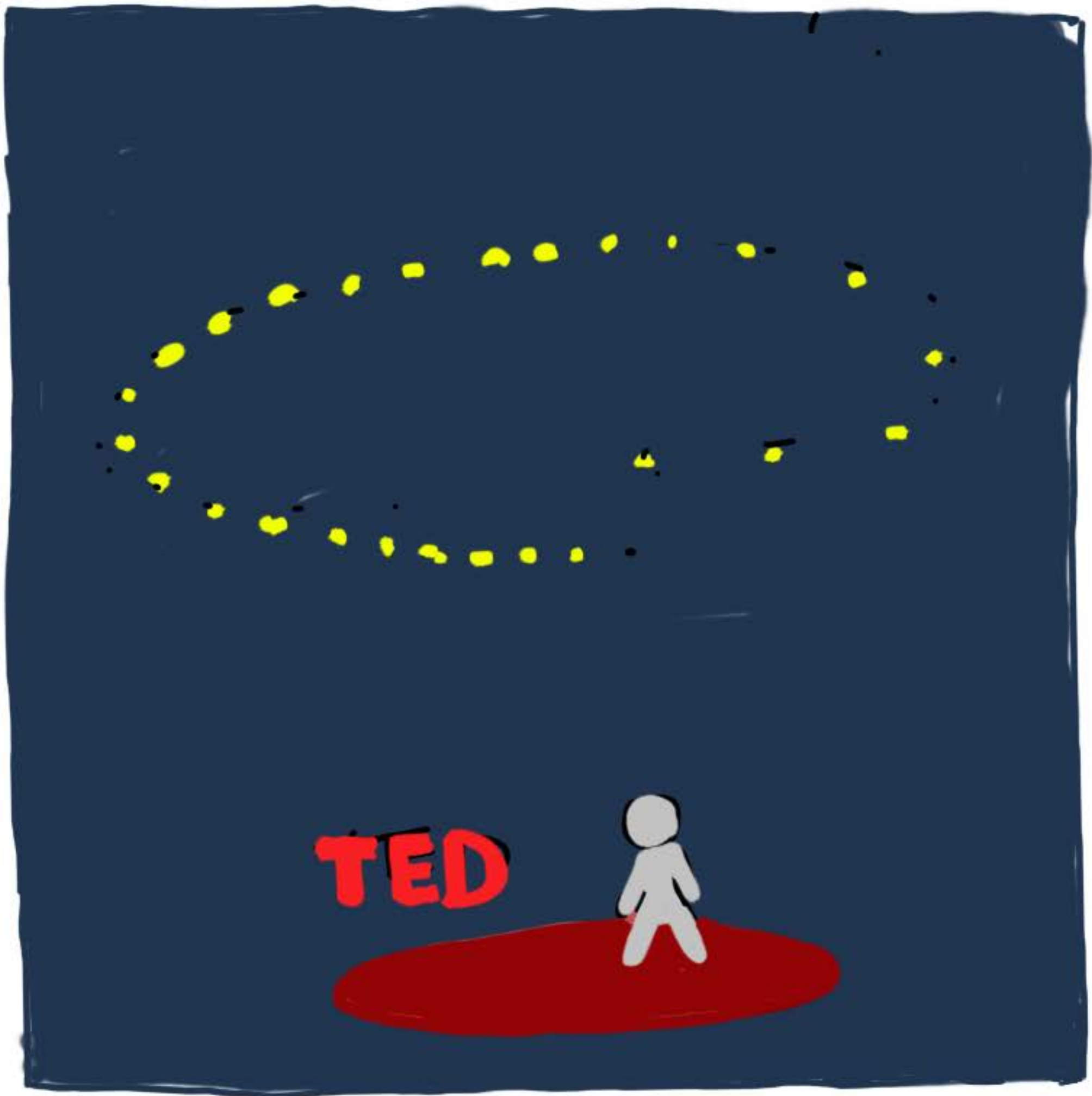


synthetic swarms - each weighs less than a slice of bread.



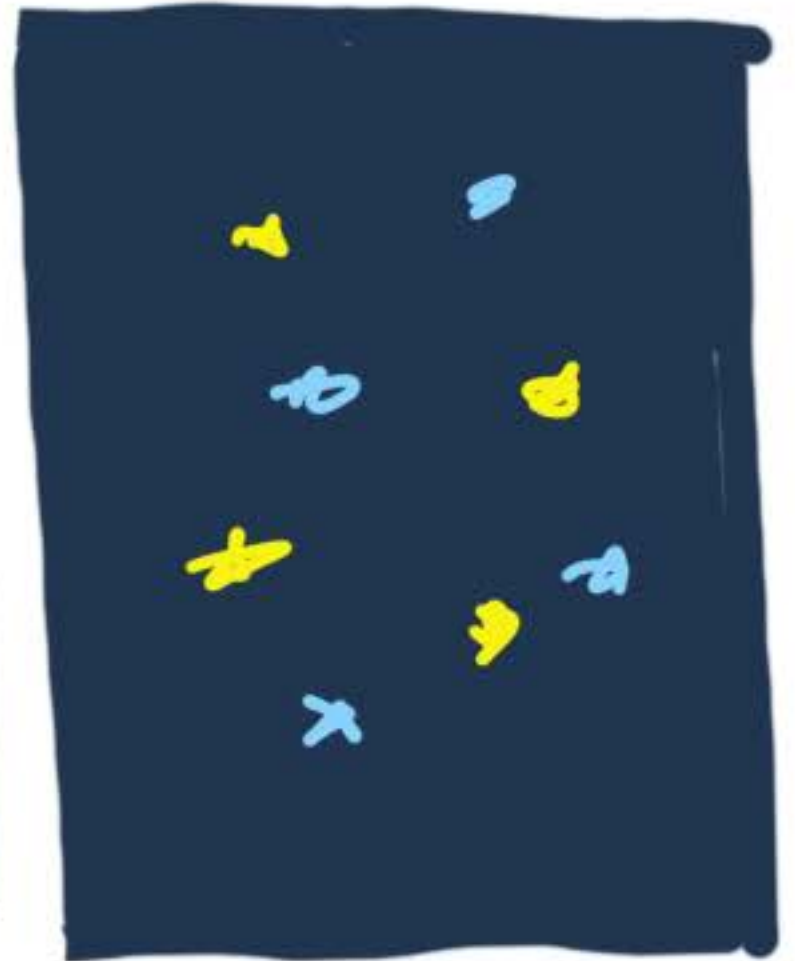
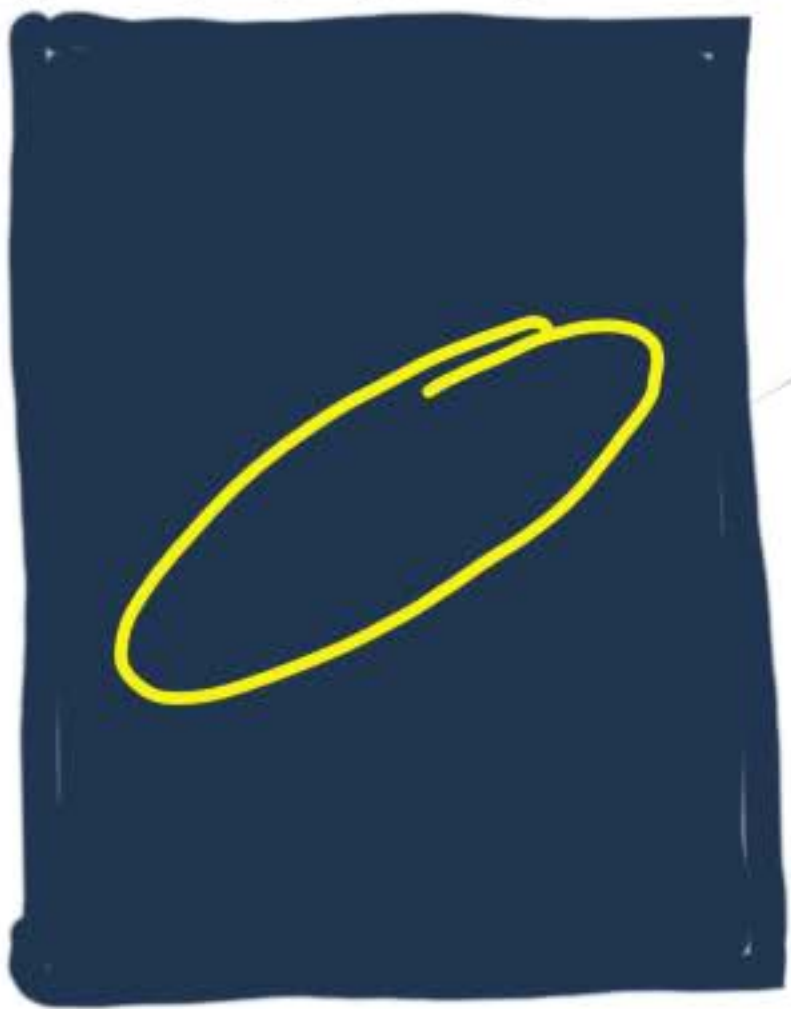
- coordinated driving flying
- senses

[www.idsc.](http://www.idsc.)





# FLYING DRONES



Hopefully you will dream up new aspirations for these flying machines. The journey is the magic. The fact that it has huge economic value is just icing on the cake

Q. Amazing....

A. I'd be lying if I didn't say we were a bit stressed

Q. A kid using this as art, the military applications, how does the average citizen think about this

A. tech moves along. the old is overwhelmed. the young is ~~extra~~ excited. Tech is a tool. It just matters how you use it. Drones for bridge inspection, pkg delivery.



**\$20**  
PER DRONE

these things are reconfigurable. Does the task req 10 or 20 self assembly drone? These drones sell for \$20. Thousands of these can be flying in just a few short years to come.

PARAG KHANNA

Rethink how life is organized by planet earth. Imagine it as a human body. w/ vascular systems & nervous system

**64 MILLION  
KILOMETERS OF  
ROADS**



Lets build a better map of the world. It is thought geography is destiny but connectivity is changing this. they have fused into a single concept CONNECTOGRAPHY.



### POLITICAL

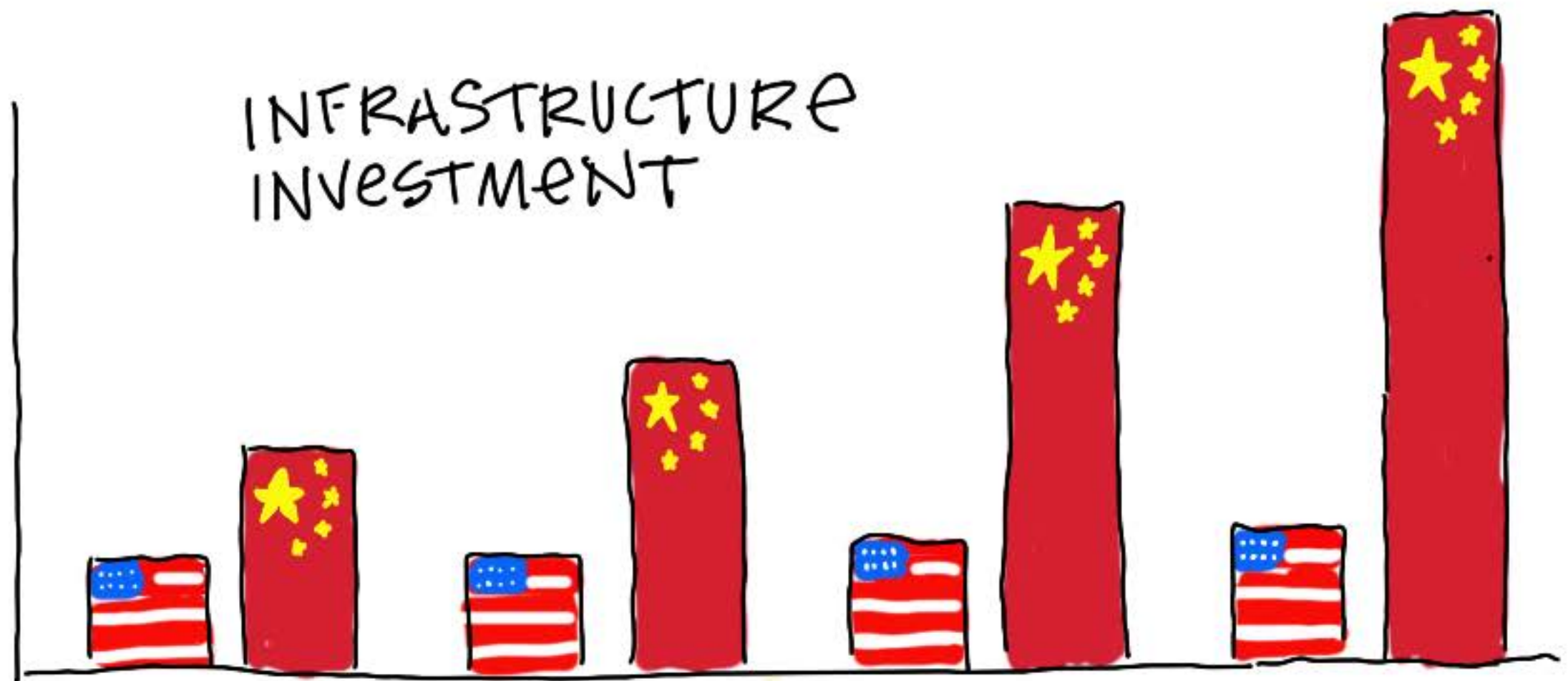
How we legally divide the world



### FUNCTIONAL

How we actually use the world

Connectivity, not sovereignty, has become the way mankind organizes the world.

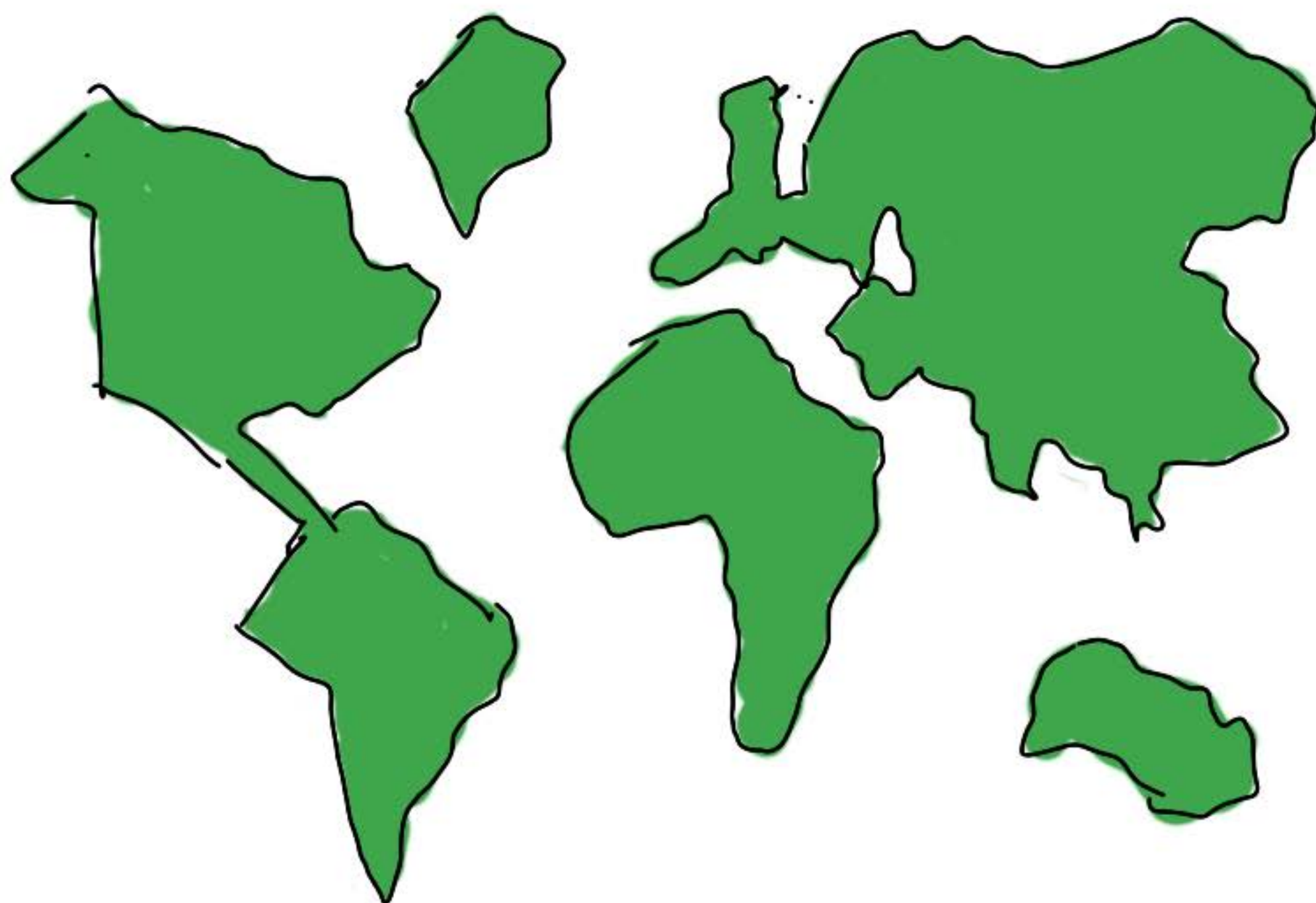


China leads in infrastructure investment. We will build more in the next 40 yrs than we have in the last 4000. Connectivity is how we optimize.

Connectivity has a twin in macro trends: planetary urbanization



the rise of mega cities is most visible in Asia. Japan 30M.  
these megacity clusters have GDP of \$2T. (the size of Austria)  
what if UN membership was based on economic output?  
Lagos, Africa has plans for a rail network. These countries are  
suburbs of these mega cities (50)



to truly understand these megacity clusters w/o looking at  
the connections. Cities want to be part of global value chains,  
cities belong as much 2 global networks as they do to their  
home countries.

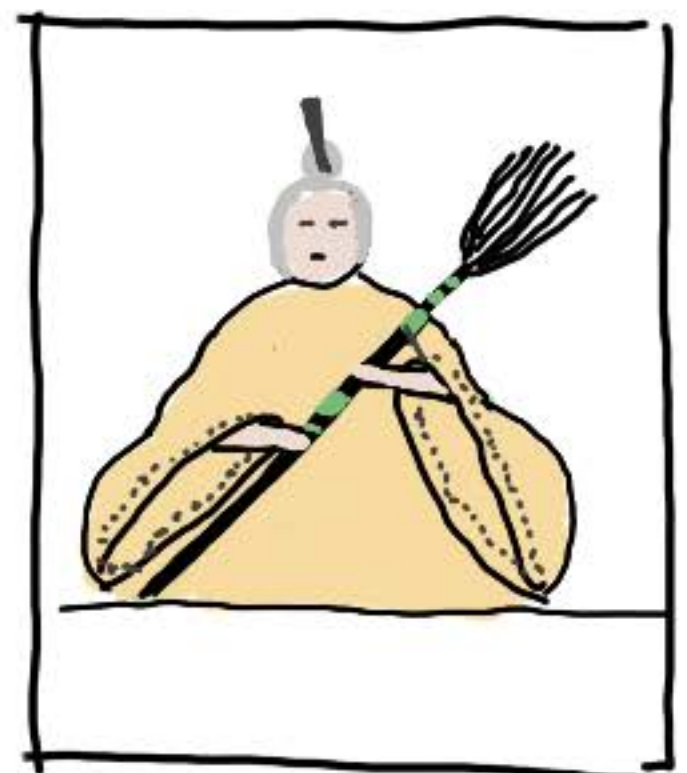
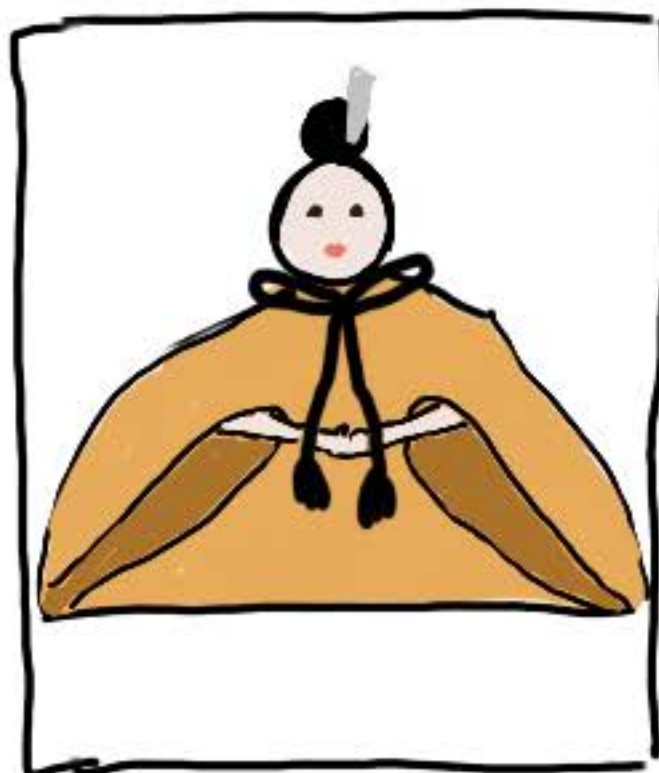
many worry about urbanization. but these cities are at the front  
of developg ways to learn from one another. e.g. car quotes,  
cities have been part of the problem. Now they R part of  
the solution



poverty is quite visible in the mega city clusters. We need to design for affordable growth.

Our political & economic leaders must see connectivity is not charity its opportunity.

peace - cities can promote global peace. e.g. look at the rise of the EU. Russia by contrast is the least connected. Having the lowest stake. NA isn't separated by its borders of Canada & Mexico. Its connections that define it. Energy rich can connect to energy poor

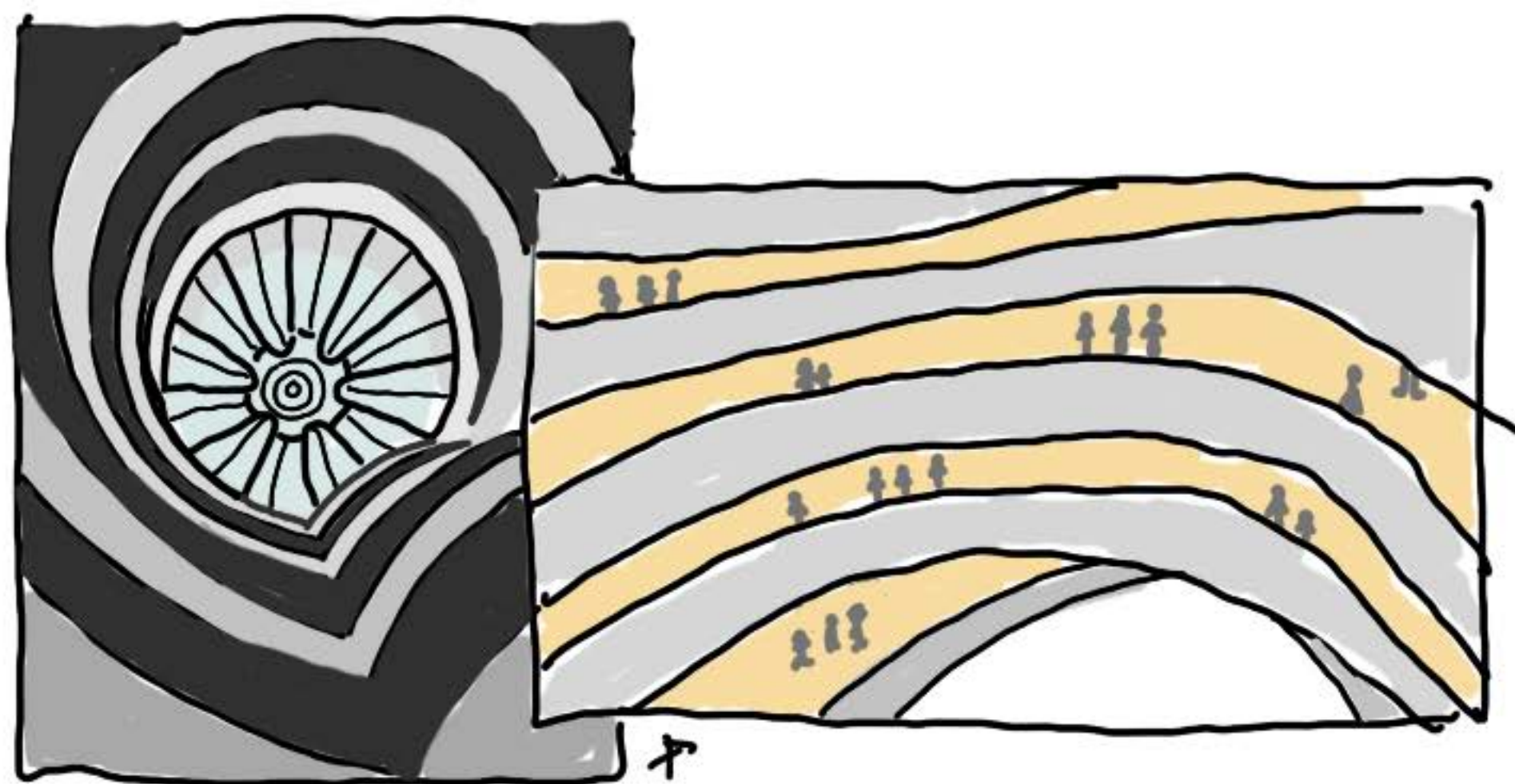


The Soul of the Japanese doll

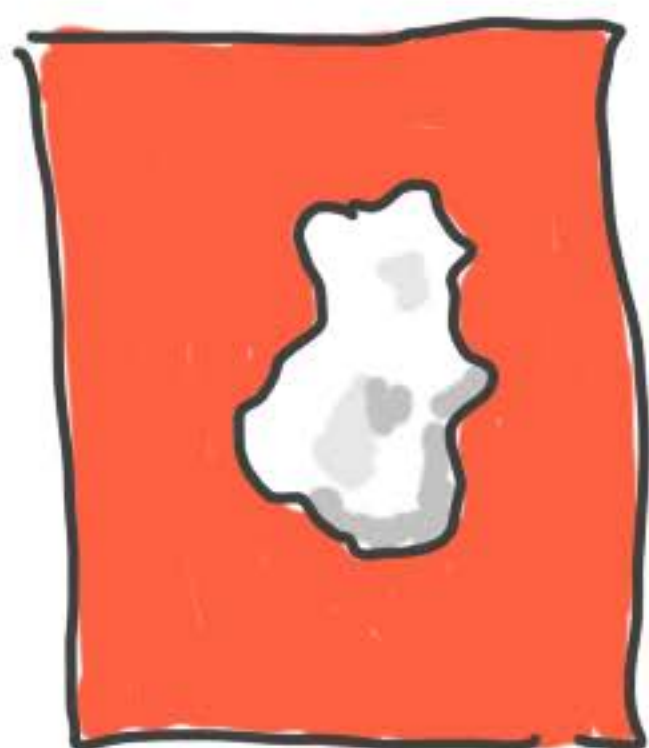
the world is filled w/ incredible objects. & when we have access to them we fall in love. But what of those who do not have access to the cultural artifacts of the heritage. what I will show you is all accessible to you on line thru google. e.g. Made In Japan. - The soul of the Japanese doll



You can travel virtually to museums around the world



Visit the Guggenheim remotely. but know of course the real thing is always better.



oldest artifact



So why do this? Let's talk about Van Gogh. 211 of his works can be seen in an beautiful view.



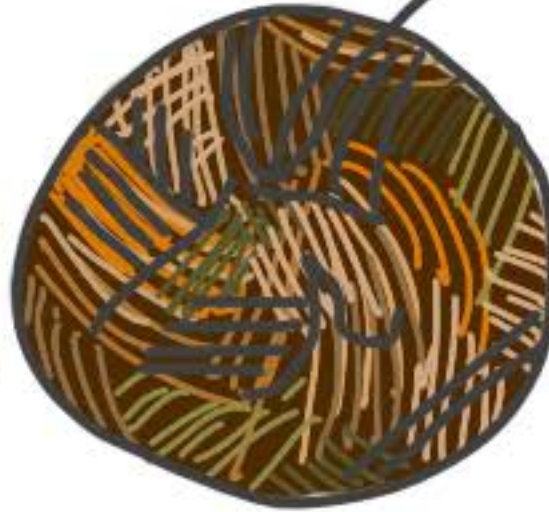


THE BEDROOM  
VAN GOGH



CHICAGO

BRUSH STROKE  
DETAIL



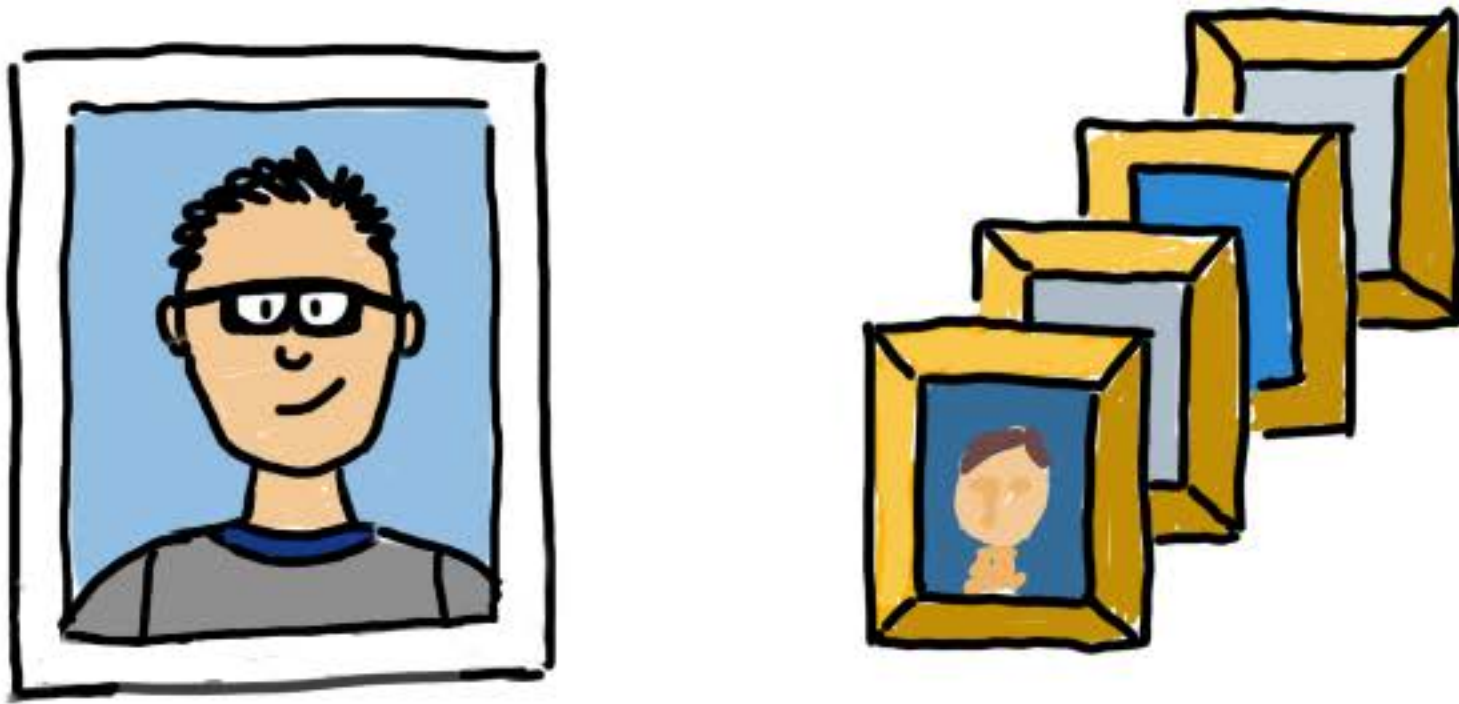
We looked up gold - sometimes you don't know what is going to attract you. When I took this Google job my mum wasn't supportive she felt it was a waste of my life. So I showed her all the gold & her mind was changed. She was hooked.

Rembrandt  
Found in 53  
institutions

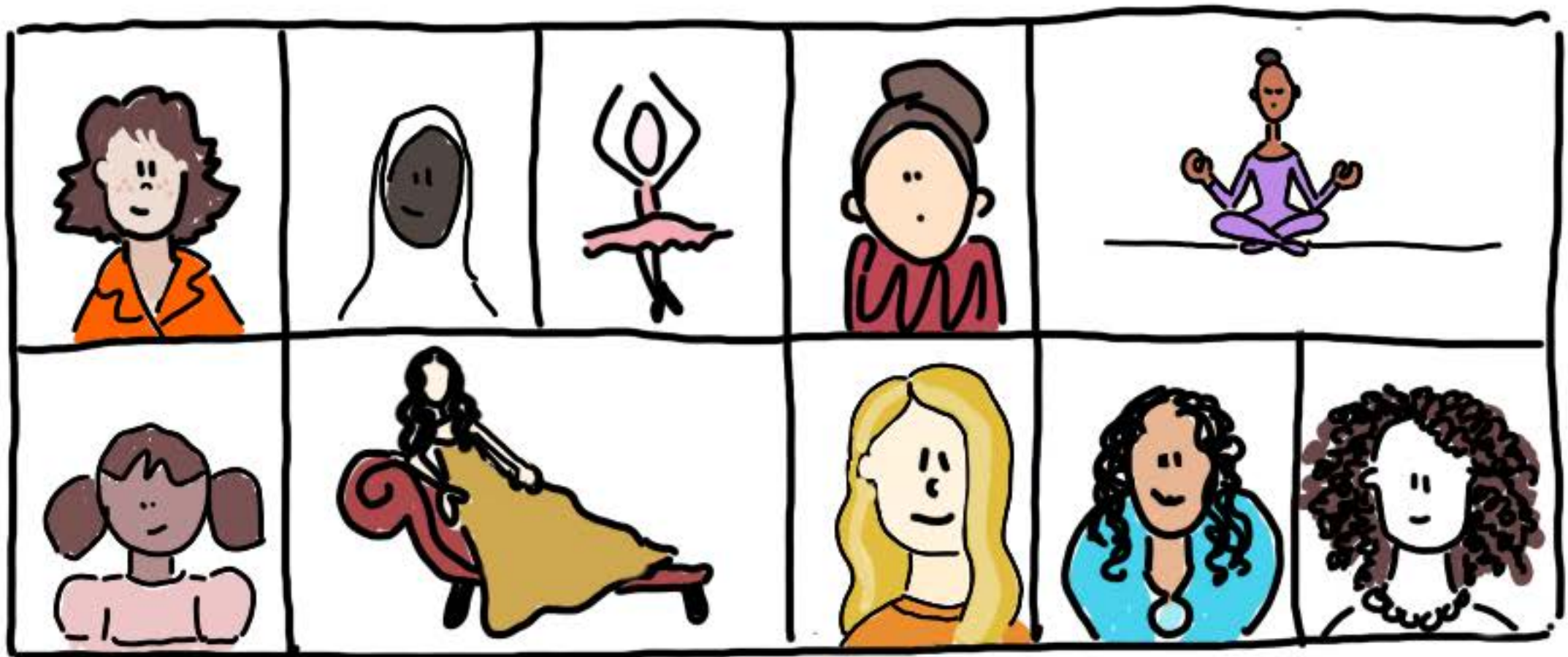




We tried machine learning on this map of mega data. One cluster emerged - an amazing cluster of portraits. This gave us an idea to try to excite kids. It is called the portrait match up



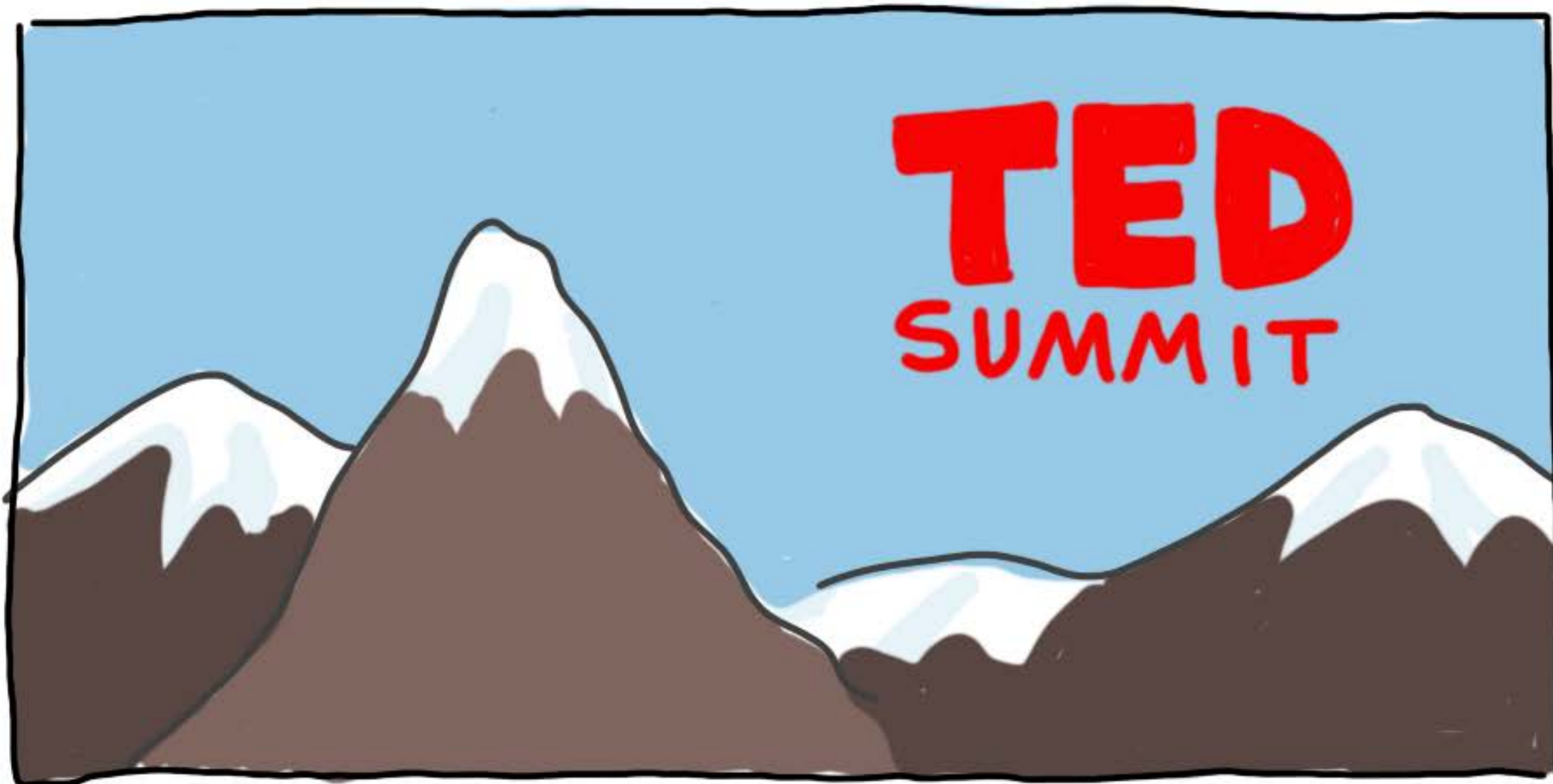
matches profile w/ existing portraits using same POV



Lady in Waiting

We hope you feel happiness after hearing this talk. We put happiness into the system & it came up w/ images that said "I miss my pre-internet brain."



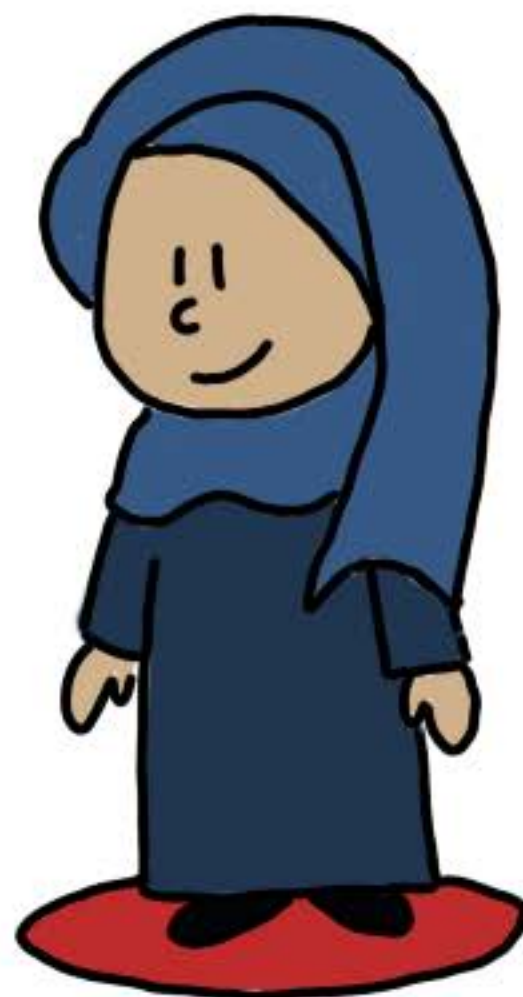


LAST week of JUNE 2016: 250 SPOTS



what do u think when u  
look at me? Religious, a woman,  
a terrorist or airport delay.  
80% of muslim coverage is  
negative.

When I was 17 I decided to come  
out in my hijab. For me it was  
a feminist declaration whereas  
my friends saw it as a signal  
of oppression.





my relationship w/ God did not come easily. It was often a struggle. But it is one of unconditional love. I followed the trad'l Egyptian dream. - worked as an engineer, married w a child. On 9.11 I was shocked. Not only had my country been attacked, it turned me from a citizen to a suspect



I moved to a new city to attend grad school. As we drove I slunked down in my seat. In the days that followed I was warned to be cautious by Muslim organizations. It felt wrong. Today, I hear people speak of Muslims as a tumor in the body of America. Is it benign? Its suspicious so we will continue to surveil. If its malignant we will cut it off. What these people don't see is that Muslims are not tumors, they are collectively a vital organ.

Closing mosques would only make pkg spaces at best  
ISIS is to Muslim as the KKK was to Christianity. Their



A young girl was thinking of joining ISIS. Every cleric she had talked to had shamed her for her rage. But then someone stepped in & reconnected her to a nurturing mosque. It was her mosque that saved her. When we are afraid, we become more accepting of authority & conformity.



Islamaphobia has had 3 spikes in recent decades the events leading up to the Gulf war & two political campaigns runs.

Back to 9/11... what did we do? We went to the mosque despite all the warnings. When we arrived, it was completely full! Half the people in attendance weren't Muslim. They choose courage & compassion at a time of panic & bigotry.

WHAT WILL U CHOOSE? WILL U PLAY IT SAFE?

(when U look at me know I am not the exception, I am the rule.)



Poverty is a tough topic - bc there is not one thing to solve.

HUGH EVANS

Meet Davina. Born in Jamaica. Immigrated to US at 18 & lives in D.C. Every single wk she focuses on people outside her country. She asked friends to donate pennies. With this money she has educated 124 girls. Davina is a global citizen - one who defines themselves beyond borders. If we had more

global citizens, then every global problem could be solved.

Brung up in Melbourne, Australia I asked a seamless series of why questions. As a "why" kid I thought I could chg the world.

In '98 I was awarded a trip for raising funds for people in need. On this trip I met Sunny boy. I slept on the concrete floor w/ his family surrounded by rubbish. I wondered why this was fair? The poverty of the Phillipines smokey mountain was systematic made by ldrs that weren't thking of sunny.

**Charity**  
**IS**  
**NECESSARY**  
**but it is NOT the**  
**SOLUTION**

Charity is necessary but it is not the solution. Community engagement was critical. Make poverty history concert got unlikely support from BONO & others. The AU govt.



got engaged. However, this movement wasn't sustainable w/ the advent of global chg. We needed sustainable chg. We needed to take short term excitement that ties to long term sustainment. That is how global citizen came to be. Only 18% of people who claim to care about global issues actually did anything. They just didn't know how to act.



The global citizen festival brought in the best musical performers. You cannot buy a ticket to the event. You had to act to earn enough points to qualify. Global citizens are everywhere. They just needed to act.

David's action inspired the US to double its investment in education. Global citizens act govt officials. Celebrities, rotarians to act. Despite all this momentum, we face challenges. As Tippi O'Neill said, all politics are local. At 21 I met w/ an Australian minister. I spoke of the need to address poverty. The minister said we need to worry about our own backyard first. This pits the world's poor against one another. Look what happened when we ignored Bosnia, Syria & climate chg. The world is our backyard.

We have a long way to go. We as global citizens to activate change — our dreams are within reach. I've tried to reconnect w/ Sonny Boy to no avail. I'd like him to know the impact he has had on my life. I'm a global citizen. R U?



climate chgs sparks nothing much beyond sadness, but there might be hope ahead

## CHRISTIANA PLOVERES

On 12.12.15 in Paris, under the UN, 190 nations unanimously to intentionally chg the course of the economy to protect the globe. In 2009 we were in a completely different place. With the same goal, they failed miserably. Six mos after this fail, I was asked to step in. No one believed a global agent was possible, even me. I said I didn't think it was possible in my life time. But then I thought

Impossible is not a fact. Its only an attitude

& I was going to chg the world's attitude. To save the planet I had full responsibility but no authority. On the 1st day I panicked knowing I had no solutions. But I did know that bringing optimism into this challenge was key. For 6 yrs. I have relentlessly injected optimism into the situation.





the 1st area we saw remarkable chg was in clean technology.

With this shift we knew there was economic advantages & intrinsic benefits. (cleaner air, greater access) many organizations got on board when the economics made it viable as broad support grew. nat'l govts came along

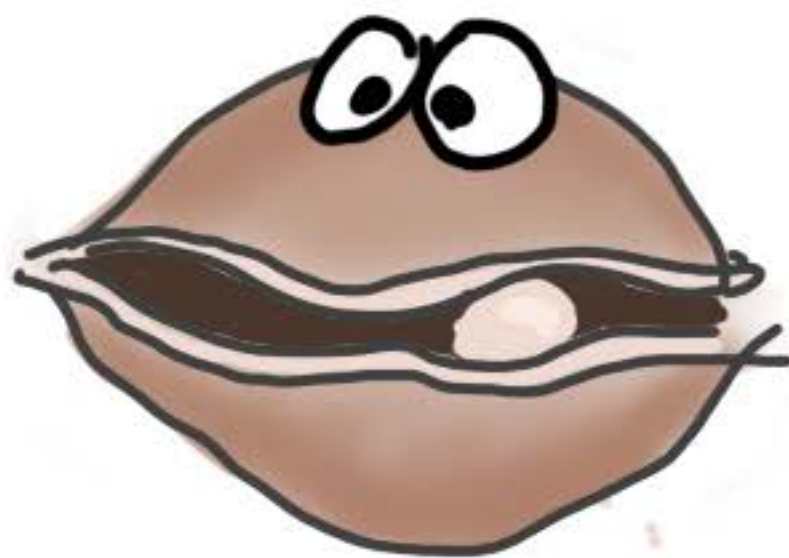
The publication of progress is legally binding. All sectors now contributing to a common goal. making a path for governments to go to Paris & adopt the Paris agmt. the day it was adopted

the room was filled with euphoria. 5000 seats jumped in the air. My colleague celebrated w/ purchase of a tahitian pearl.

the dealer said  
tahitian pearl

> may soon  
become extinct

> but had hopes our  
pact could chg that



Hope.

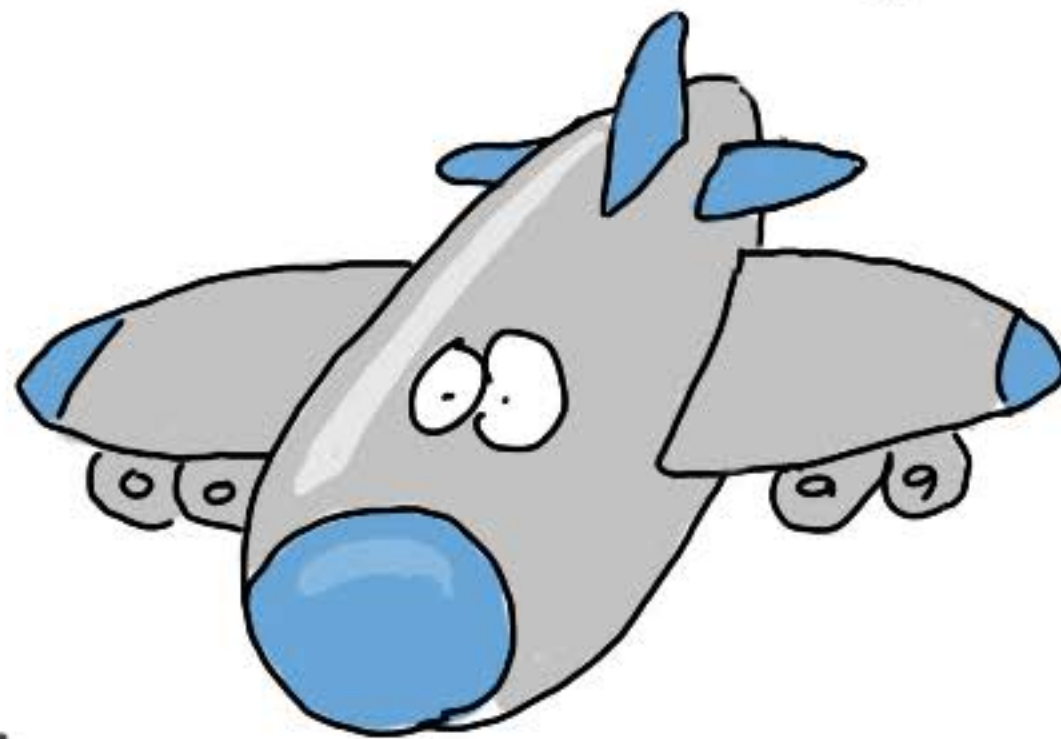
we've come from the impossible to the unstoppable. As I look forward to issues of water, food, forced migration, we don't know how will solve, but will use climate chg to recognize your loss is my gain doesn't wk anymore. We're in it together (119)



# THE POINTS GUY

Is the Golden Age of Air Travel behind us? No.

1. Cheaper



2. Its faster:

Faster  
Dubai to  
unckland

1960  
6 flights  
2 days  
17 hours

3. Its safer:

42 accidents  
per million  
bos

In 2014  
just 1

4. More comfortable.

easy to pay  
for upgrades

I took 4 showers @ 40k  
miles

Points guy:

- sleep around. diversity using multiple airlines
- leverage partners. never trust airline websites. call instead
- if you are using cash, you are losing cash. maximize points
- miles are currency.



## ⑧ NIGHTMARE?

Not every dream is beautiful. Some are night-mares. Climate, gun violence, inequity, etc. There are fearful, but fear can be good. 10 years ago, a man came to TED and captured the room with a collection of slides... the inconvenient truth. please Welcome back

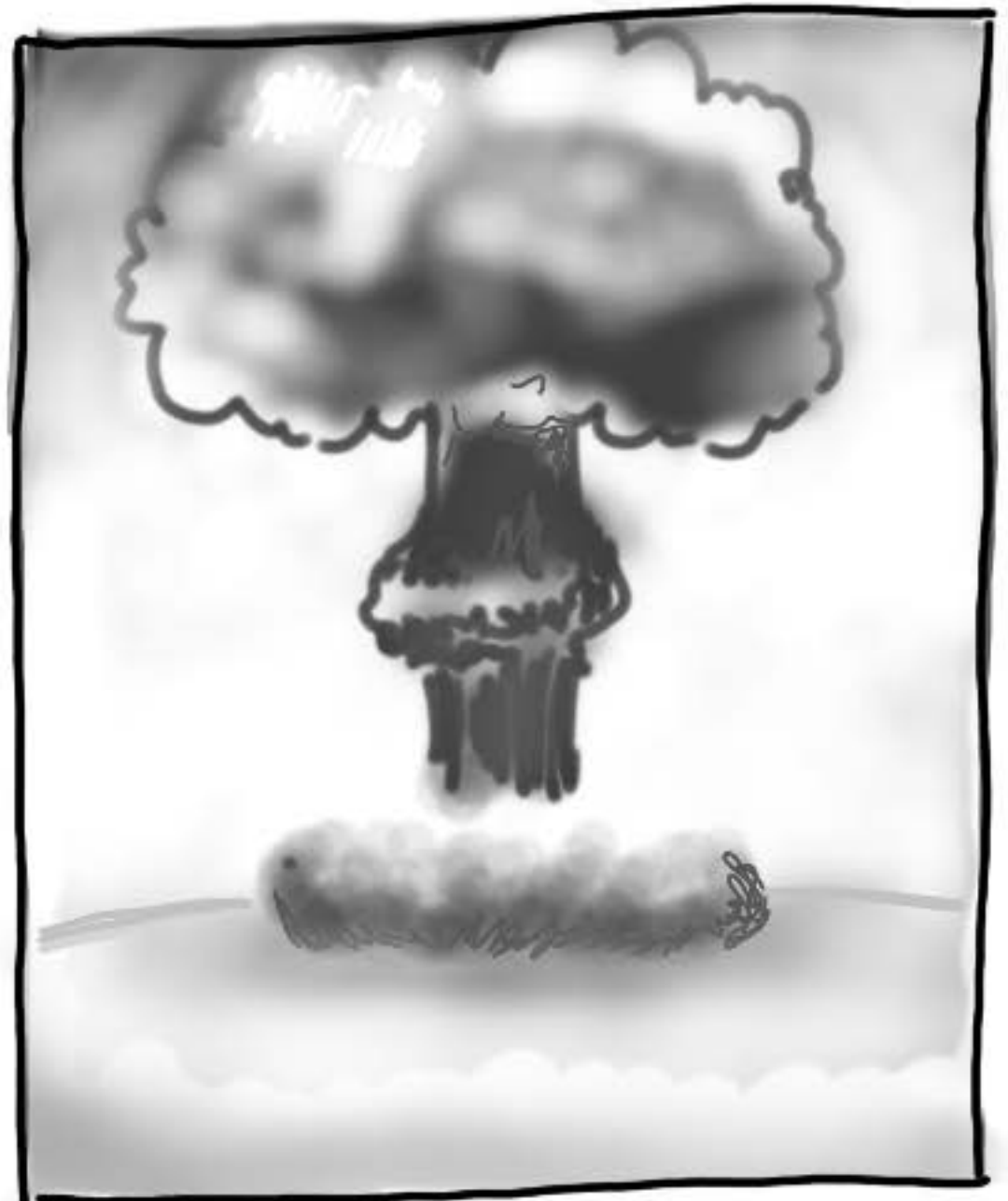


Much has chgd in the last 10 yrs. I was reminded of this when a waitress said to me. If you dyed your hair black you'd look just like Al Gore.

I have some bad news but good news too: I will frame this with three questions:

- 1.) Do we really need to chg? the sky is a very thin shell. It is the open sewer - spewing ghg into it everyday. All byproducts of multiple sources. But I want to focus on fossil fuels.

400K atomic bombs  
per day - 365/day



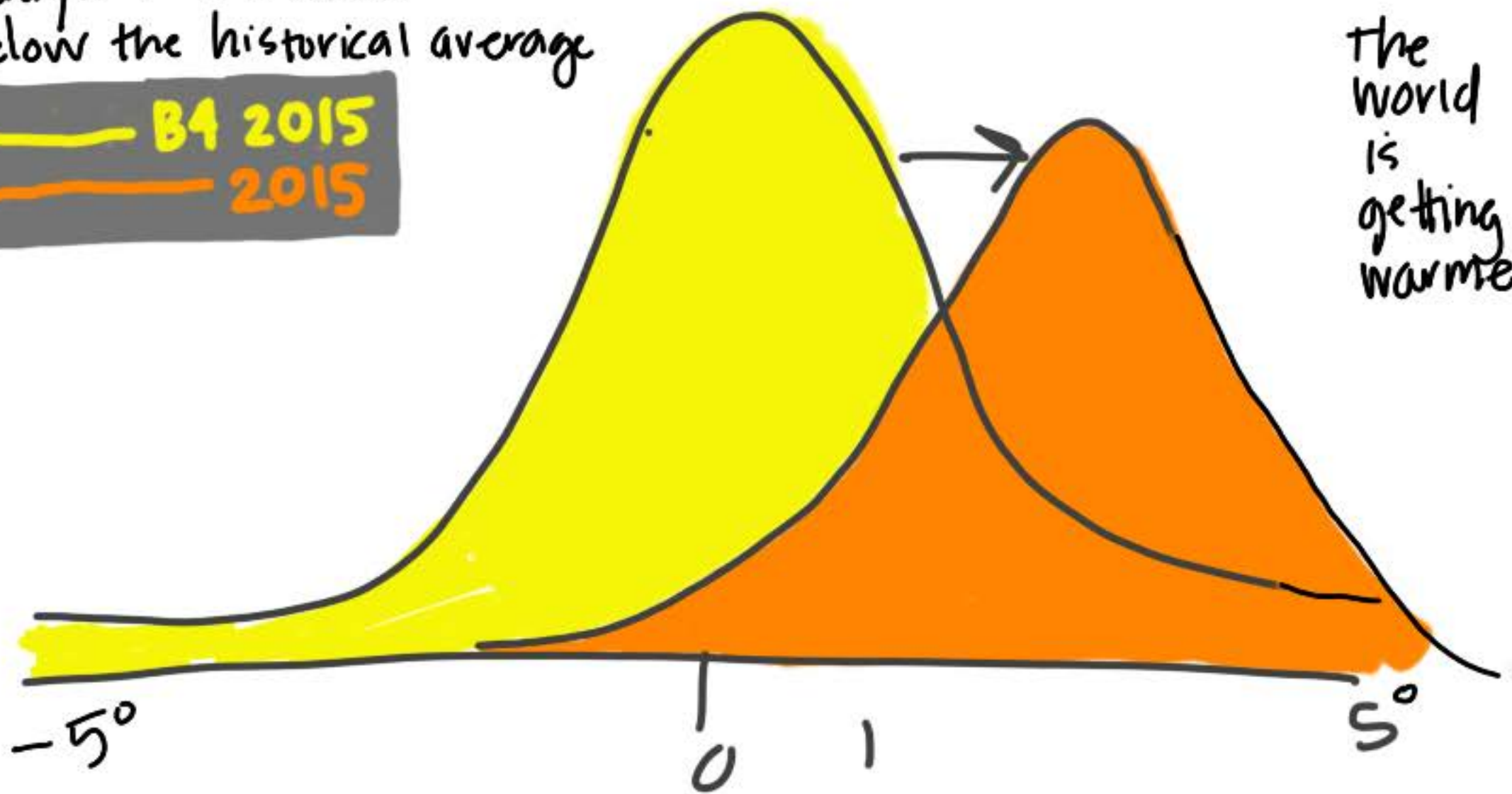
Equivalent of 400K atomic bombs  
DAILY



No. of days  $1^{\circ}$ - $5^{\circ}$ F above  
and below the historical average

B4 2015

2015



The  
world  
is  
getting  
warmer.

14 of the hottest years have occurred in this century, 2015 was the hottest yr. 93% of all the extra heat is trapped in the ocean. More than half of the increase has been in this century. First order of implications is severe weather. the second order consequence is more water vapor (humidity) - atmospheric rivers leading to record breaking water falls. 162 B gallons rained on Austin, TX over 2 days.





This is systematic: Every storm is different



more draught!



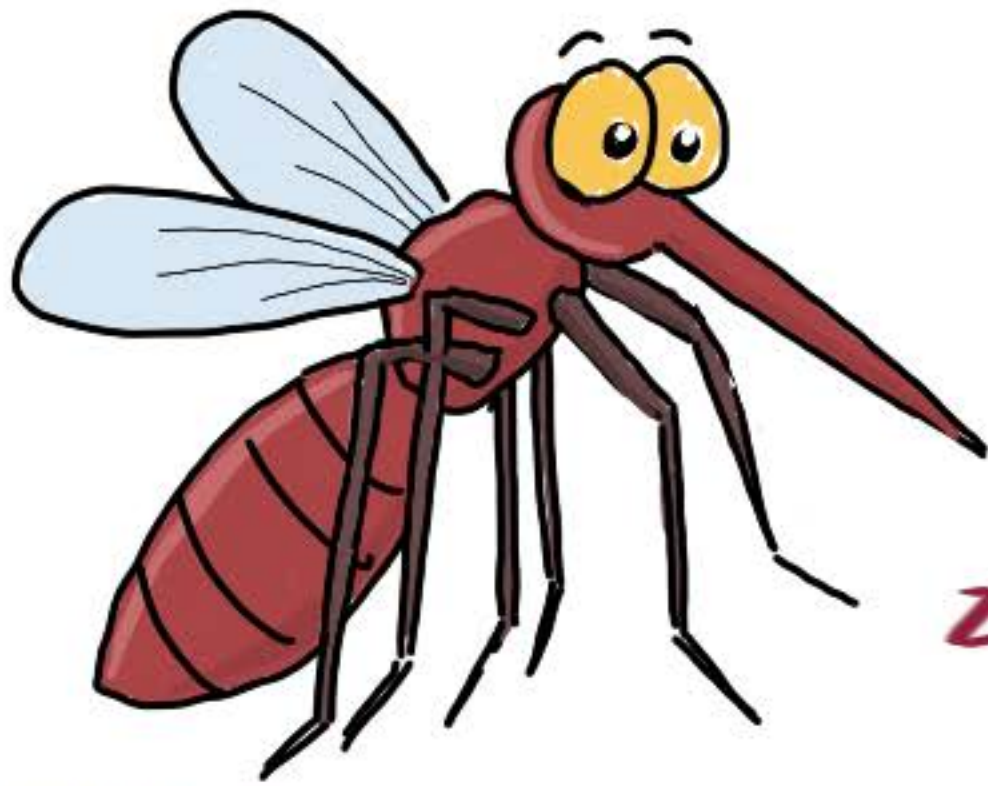
more fires!



more lightning!



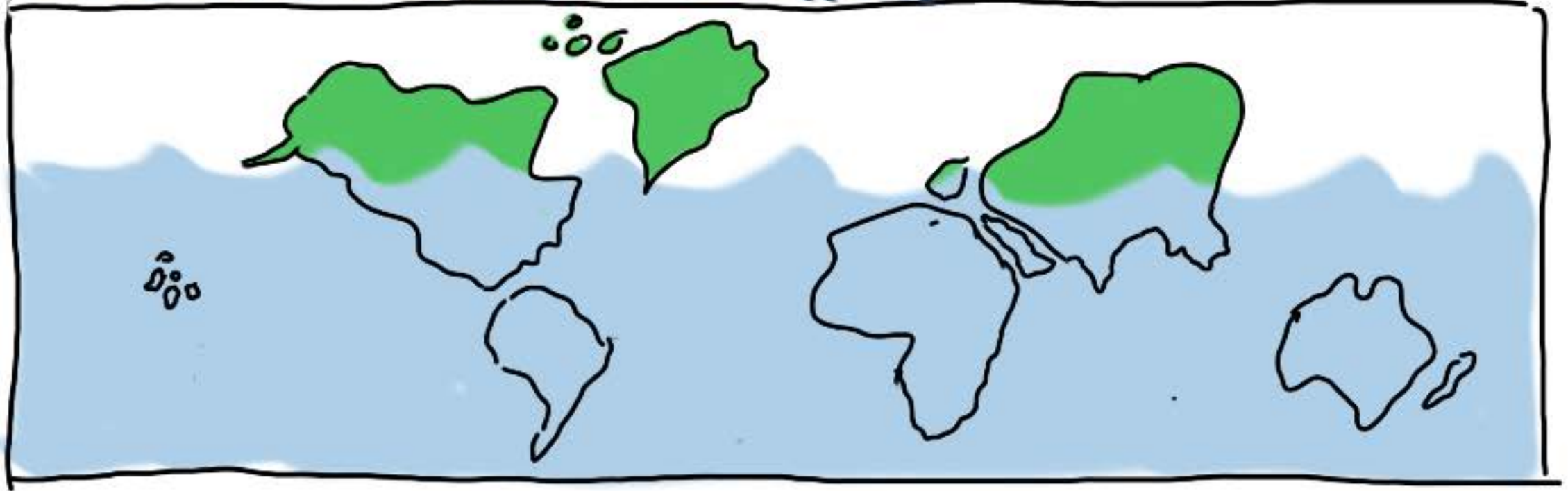
these are causing geo political consequences .. food, water shortage, pandemic disease (microbial.)



the Zika epidemic now. NA is somewhat protected, but the Lancet calls climate chg a medical emergency.  
We are at risk of losing 50% of all species.

zika virus

THE SEA LEVEL IS RISING



Flooding isn't due to the rain. It comes up through the rain sewers. This is not a bipartisan issue. It is an enormous economic burden. Davos calls climate chg the greatest economic risk today. We are facing the subprime carbon bubble.

so, do we have to chg? yes! & we can change.  
There is lots of good news!!

wind energy

lithium battery cost ↓

green energy progress

solar installation exponential expansion

the cost is coming down.





32°F

THE DIFFERENCE  
OF 1°F CAN BE QUITE  
SIGNIFICANT



33°F

investment is growing.

Is there any precedent for such rapid adoption of this new tech? Yes, look @ cell phones. McKensie said 900k cells would be sold in first year. They sold that many in three days

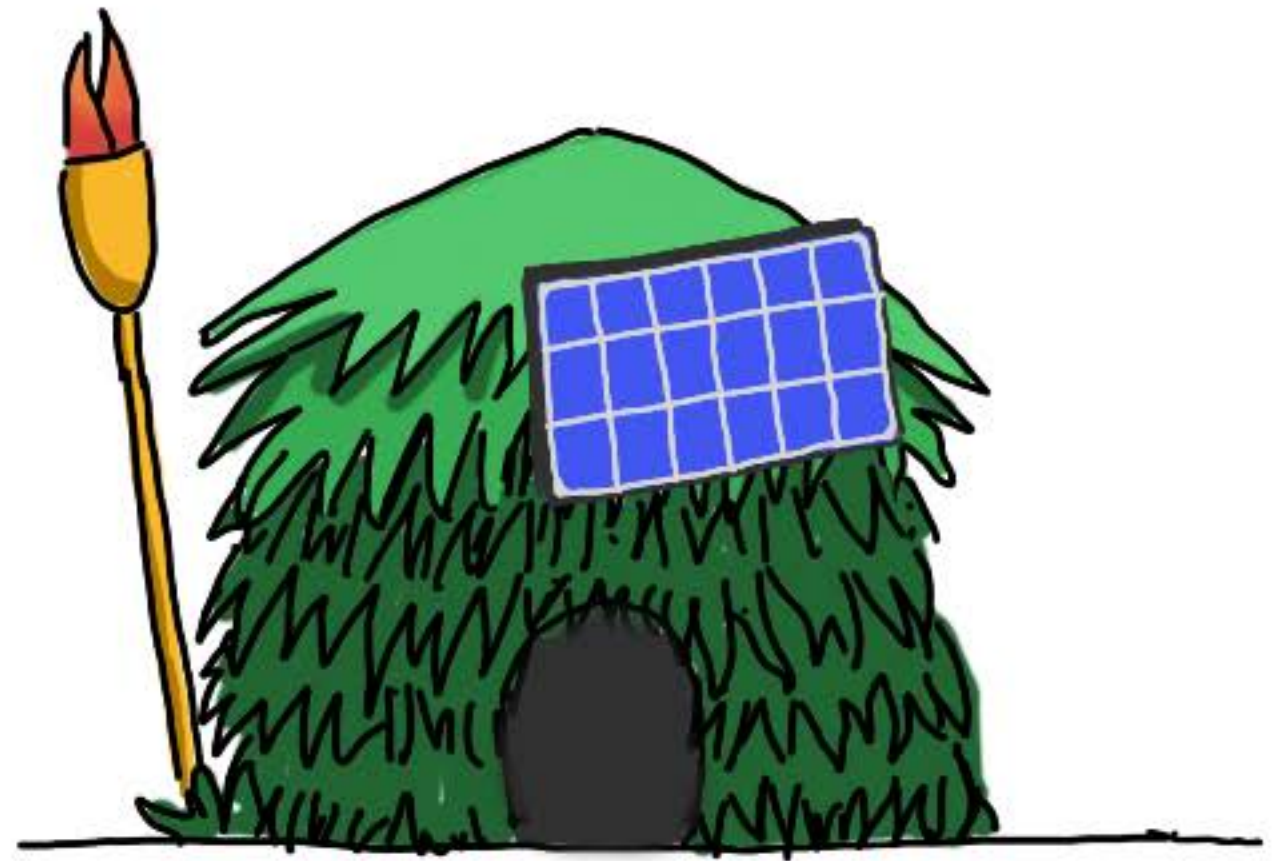
Solar panels can be found in grass huts.

So the answer to the question, can we chg? Yes

The final question is will we change?

Coal plants are closing. We are solving this crisis

The question is how long will it take to get there? I am extremely optimistic. We R going to win this. I was 13 when JFK announced the moon shot. 24 yrs later it was achieved by a group of people at NASA w/ an avg age 28



GRASS HUTS WITH SOLAR PANELS



“After the final no, there comes a yes  
and on that yes the future world  
depends.”

— Wallace Stevens

The Will to act is our best renewable resource - Al Gore



I've been living in rural E Africa for ten years. where 1 B people live in a state of hunger and extreme poverty. The good news is that there are three levers that can help us combat extreme poverty. I was witness to extreme poverty when I arrived in Africa. A family invited me to dinner. the following morning I realized there was no food for breakfast. hours later they scraped together what could loosely be called porridge. The children of this family need food to grow physically and mentally. Every person on the planet matters.



1 in 10  
die before age 5



1 in 3  
stunted growth



1 in 4  
attend high school

1. We can get upset by these stats but few of us know how to help. How to act, - So lets engage our passion to come up w/ solutions



2 WE ALREADY HAVE THE TOOLS TO DELETE POVERTY

A Farmers: when they become more productive  
more food  
stronger communities thru income  
fight environmental land pressure

most of the farmers I know are women. Strong women that  
will fight for their family's survival.

the problem is most farmers lack

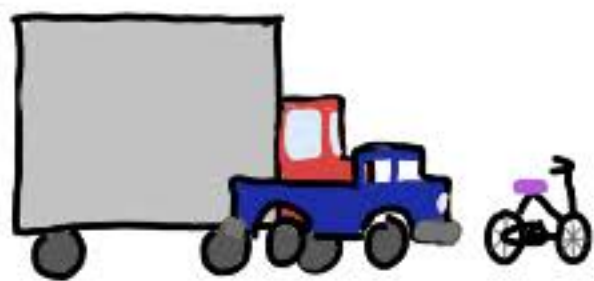
3 Knowledge can be spread  
Hybrid seeds

Fertilizer. micro dose can be sustainable  
planting practices can triple the harvests yield  
Human solved agricultural poverty over a century ago. At

3 Delivery will be the hero. Amazon for rural farmers  
with installment pymts, is what's needed.



1 field  
office



provides service  
bundles

200

to 200 small  
farmers

4000

Reaching 4000  
people

Delivery of the tools will eradicate poverty.

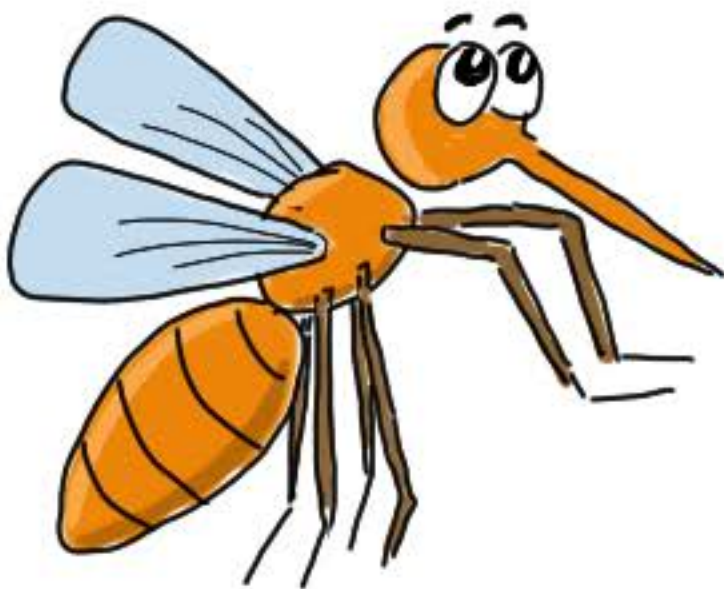




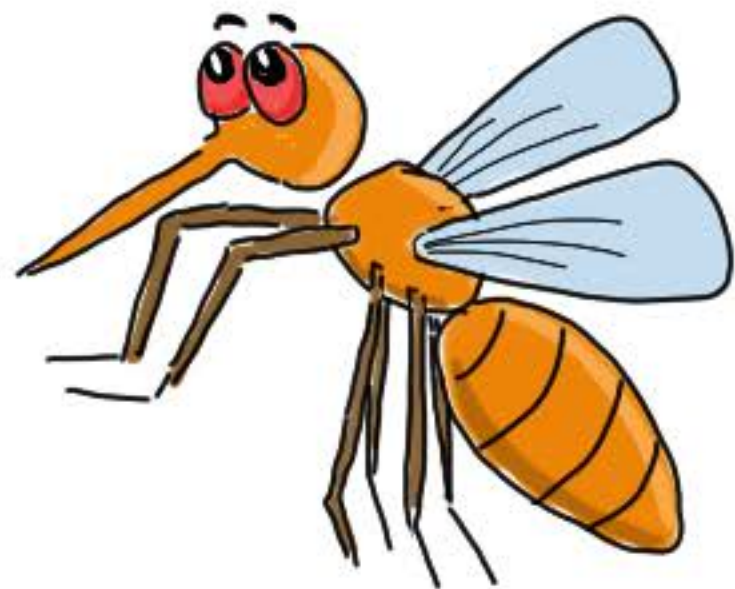
we just need the will: Healthcare workers, teachers, farm trainers may lead the fight, but anybody can give. We need more visionary leadership. Until every 1 of the 7B people have the ability to reach their full potential, we have failed the human race.



science fiction writer. 20 yrs ago a scientist wanted to breed malaria resistant mosquitos. It was an epic fail. However, it was done successfully some time later. But to replace the old mosquitos w/ new mosquitos you had to release millions of new mosquitos

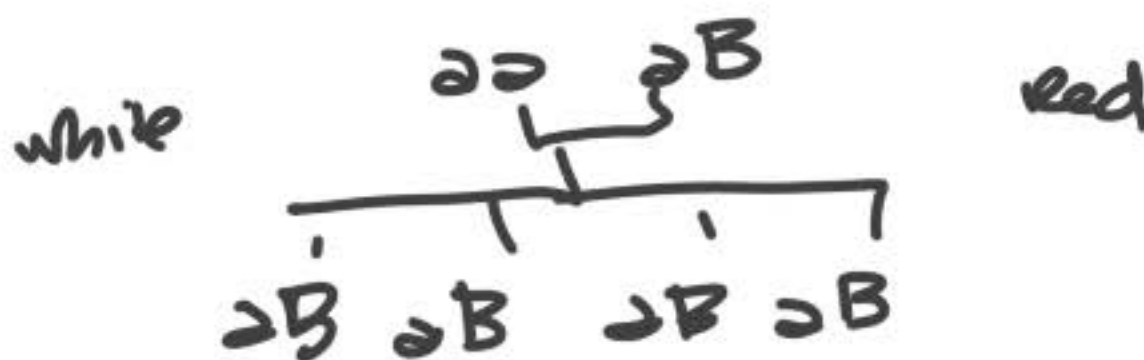


white eye  
ordinary



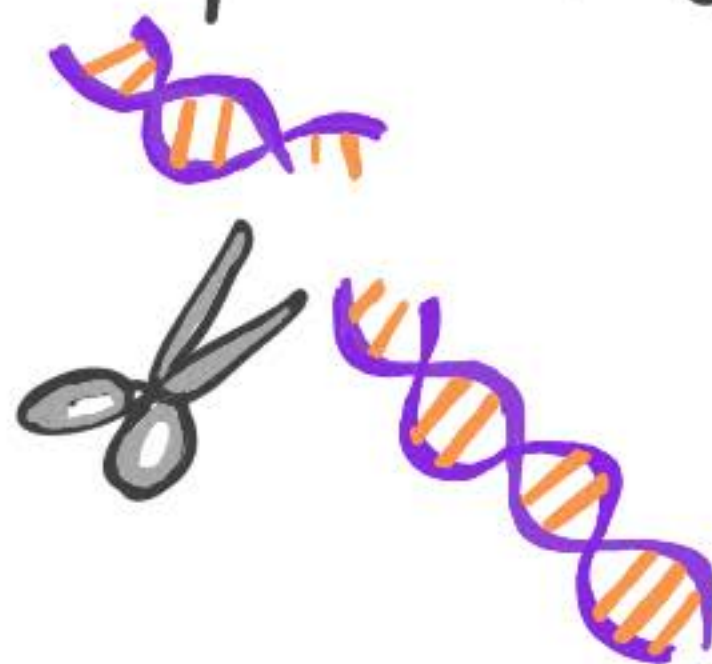
red eye  
malaria proof

over 2 yrs 2 mosquitos bred 3800 mosquitos. All of which are red eye.





This was accomplished thru CRISPER (a word processor for genes)  
How do you get your trout to spread  
the CRISPER guarantees it will get  
passed on. -thru a global search  
and replace.



Bottom line: this means we have a  
very powerful but potentially dangerous  
tool.

The CRISPER can spread a gene relentlessly so that it  
spreads across the entire population. In theory we could  
eliminate malaria mosquitos in a year. Or get asian carp  
out of the Great Lakes by eliminating all females

The bad news - mistakes could have dire consequences.  
eg. If the all male carps of great lakes were to return  
to asia, they could wipe out all of the species

The add'l bad news is species cross over. We could  
eliminate adjacent species.

this could be done by a talented high schooler. Experts  
believe scientist will be cautious w/ these gene drives

- 1.) reqs reproduction
- 2.) short reprod'n cycles
- 3.) reqs years of meticulous lab work

We can chg an entire species at will. Should we? Are  
we Gods now. Smart people are advancing this science  
while others w/ on regulation. What we do know is this  
conversation has to be global. We need to have the  
options not to use gene drives. It can be frightening to  
act, but some times non-acting is worse.



Q. We hate mosquitos. Isn't it possible that one country acts alone?

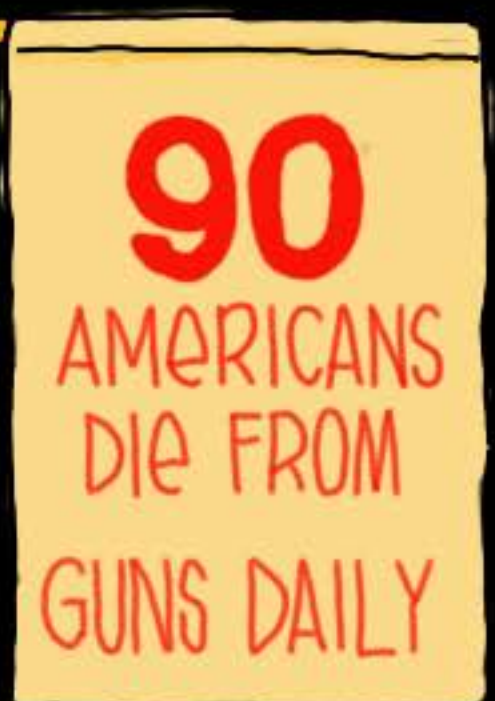
A. Yes. That is quite possible. We know how to eradicate mosquitos today. But this loss could have significant ecosystem impacts. But the gene drive is mosquito species specific, no one knows what happens when you get rid of invasive species.



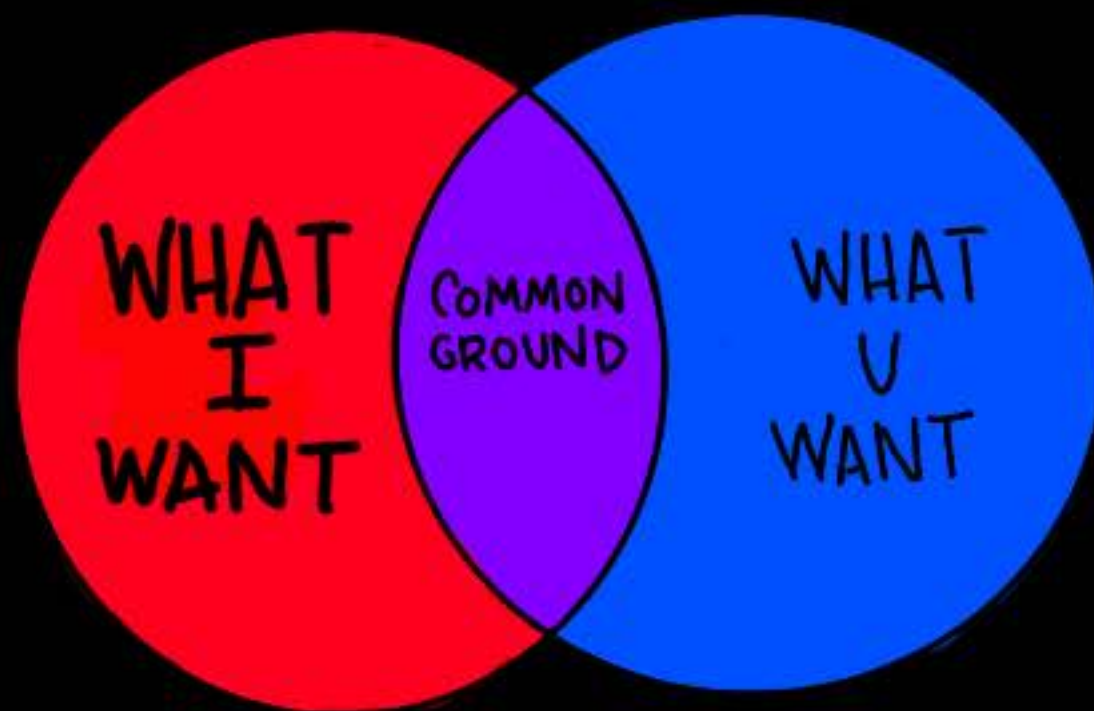


DON GROSS

I've always been weirdly obsessed w/ advertising which led me to my dream job as an ad exec. All of that chgd on 2.23.97 when my brother was shot at the empire state bldg.



so I quit my job so I could find ways to save lives.



common ground is readily available. this might surprise u. its about taking all guns from a few people.



Brady background checks have prevented the sale of 2.4M guns to people who shouldn't have them.

**9 OUT OF 10**

**AMERICANS SUPPORT EXPANDING BACKGROUND CHECKS**

only 6% don't agree. (the same number that think the moon landing is a fake.)

Do guns make your home safer? yes.

**42%**

**AGREED  
IN 2006**

**63%**

**AGREE  
TODAY**

there is a powerful gun lobby that sees the threat to their livelihood

**9**

**ACCIDENTAL  
DEATHS  
PER DAY**

**900**

**SUICIDES  
PER YEAR**

**ALMOST ALL  
WITH PARENT'S  
GUNS**

We all dream of a better safer future:

**CUT GUN  
DEATHS IN  $\frac{1}{2}$  BY 2025!!!**

the movement begins today. As americans we say ENOUGH  
Its not just the usual suspects making this declaration..



even Kim Kardashian has made an appeal to her 35M followers. Our movement is not funded by the corp gun lobby but we are smarter. Social media is on our side. We can close this disconnect between what Americans want and what the 6% claims we want,

Following San Bernardino, 15K calls were made to Congress in 24 hours.

We are in this tipping point. The world can change in a relatively short period of time once it became part of the conversation about our common ground.



every weekend my father would get up on Saturday & work on our old house. - removing, scraping, painting the wk of an old house is done. When he turned 52 my mother said dad had a terminal tumor & expected to live 3 weeks. I moved home & picked up his work & to stay by his side. 6 months later, he was still alive, the house was in good repair & my dad was in remission. He declared the house had saved his life. It is then I decided to go to school to become an architect. Along the way I faced the question why were beautiful bldgs only for the few. There were hospital's halls that actually made people sicker. So I moved the halls outside. Could we make a hospital that heals.



community excavation was faster than a costly backhoe



LO FAB approach to building has four factors

①

Hire  
locally

②

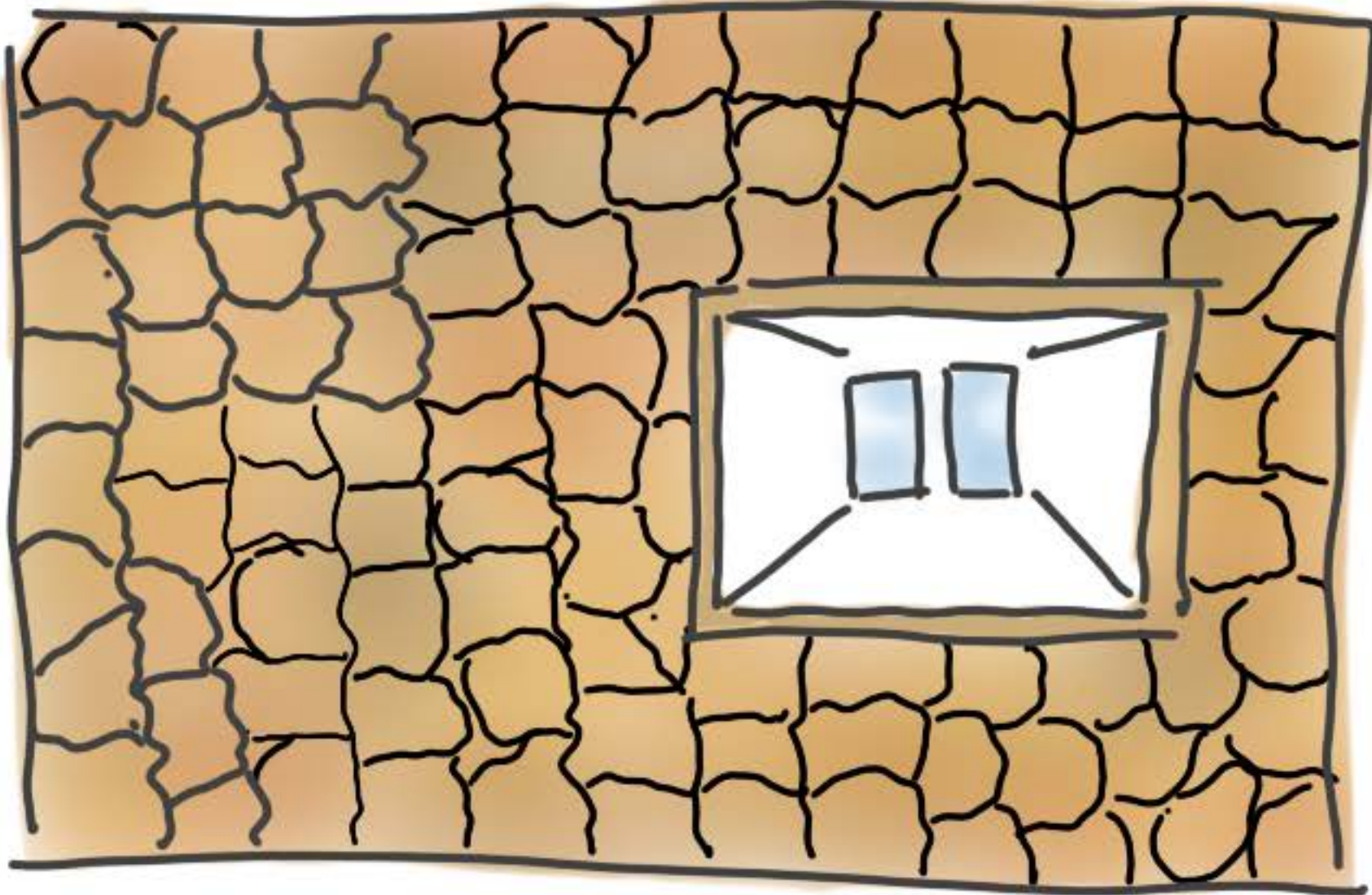
source  
regional

③

train  
where U  
can

④

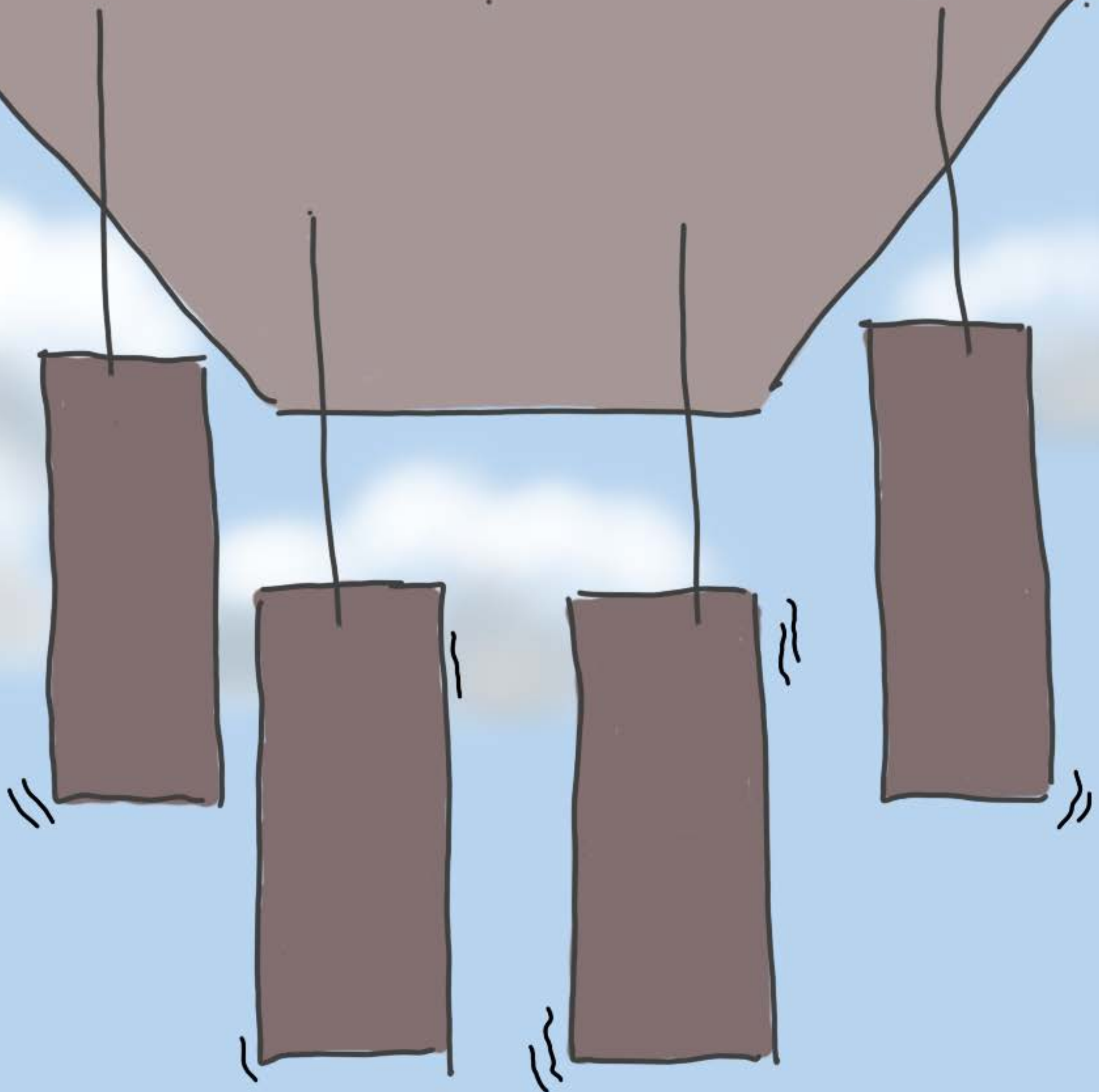
think  
about  
dignity



Dont just ask what is the carbon footprint? Ask what are the regional fingerprints on the project. this hospital was built with regional stone, by locals in the community cut and assembled by their hands. We have to ask what else can this building do. Architecture can be a catalyst for chg in a community.

Bryan ? has a project to memorialize where lynchings took place. our country like others need these memorials to help it heal. I asked to help design the memorial.





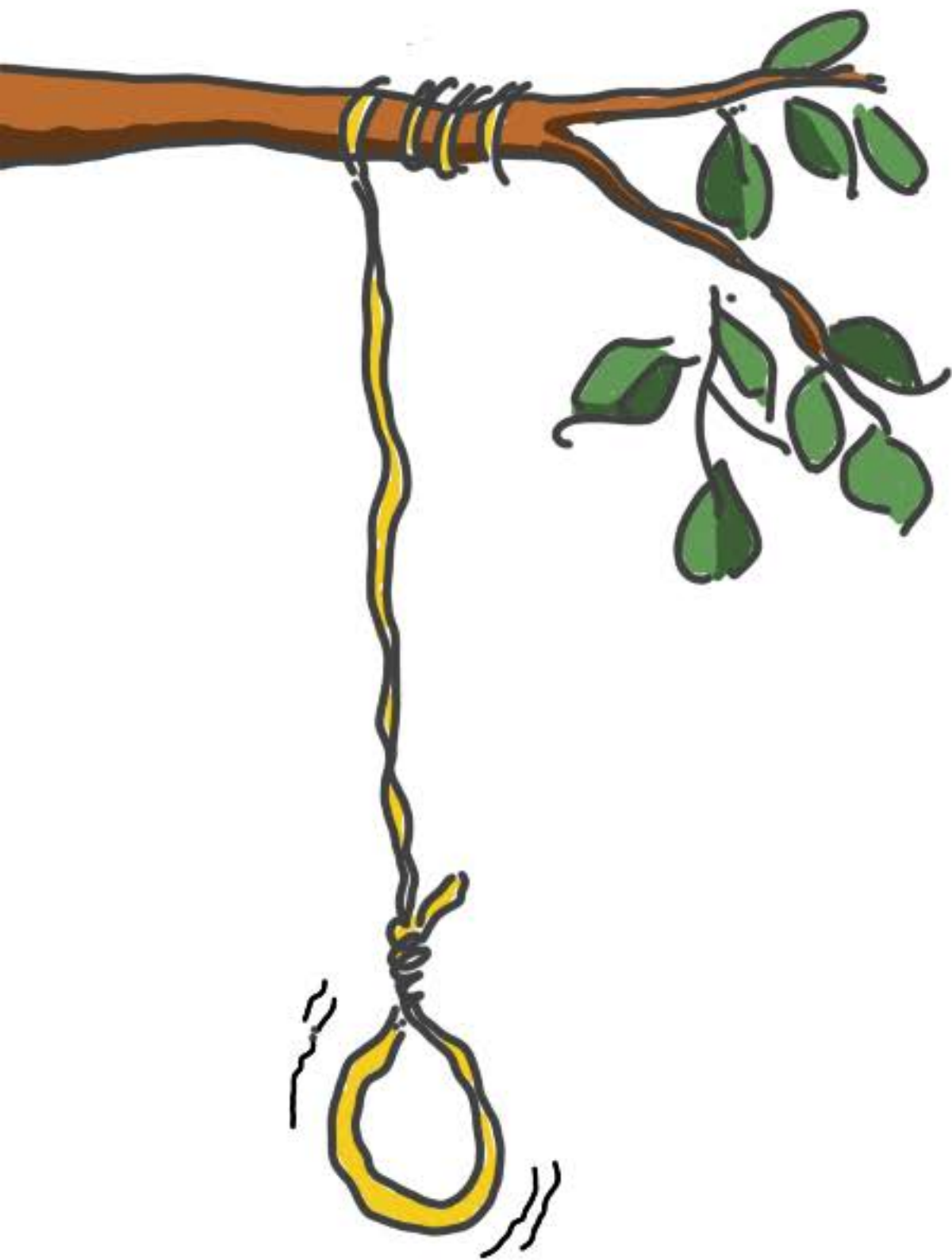
where we will speak of the unspeakable acts.  
great architecture gives us hope. It can also heal

lynching memorial  
montgomery, alabama



## BRYAN STEVENSON

America is not free. We are oppressed by the haunting legacy of slavery. Making justice elusive. The ideology of white supremacy that justified slavery has never been discussed. Thousands of people pulled to the town square for lynching. We are burdened by our history. I started my education at a 'colored' school. This is why black and brown people are being killed by police officers bc we have yet to address our history.



After speaking at a church an older man came to me & said DO YOU KNOW what U R doing? You are beating the drum of justice. He said when people see me they see a man in a wheelchair w/ cuts, scars and bruises. But I see them as badges of honors - battlescars while trying to register black voters. We will never be free unless we face our past. Rwanda Germany other countries want us to see their memorials. This is how we come to terms with our past. How we come to understanding. How we bring about change.



## ⑨ OUTSIDE THE BOX

ARTHUR BROOKS

I come from a liberal place - Seattle, WA. My mom was an artist. My dad was a prof. & I've always designed my life. At 19 I dropped/kicked out of college. I toured as a jazz p/yr & found myself being part of Barcelona symphony. My folks never complained. They said I was taking a GAP decade. On a visit home my mom said she & dad R really worried & I want U to be completely honest.

R U VOTING for REPUBLICAN?!!

I had become an enthusiast in capitalism. It was borne out of poverty. In early 70s, I saw a Nat Geo pic of a kid my age in E. Africa. Flies on his face w/ a distended belly. That vision haunted me. I wondered what happened to him. I found the answer & it changed my life. Most Americans say poverty/hunger has gotten worse since the 70s. (e 10% up) Yet there has been an 80% decline in poverty. It is an extraordinary achievement! I wanted to know how. so we

80%  
DECLINE  
IN POVERTY



could do it again, There are five reasons:



1. GLOBALIZATION



2. FREE  
TRADE



3. PROPERTY  
RIGHTS



4. RULE  
OF LAW



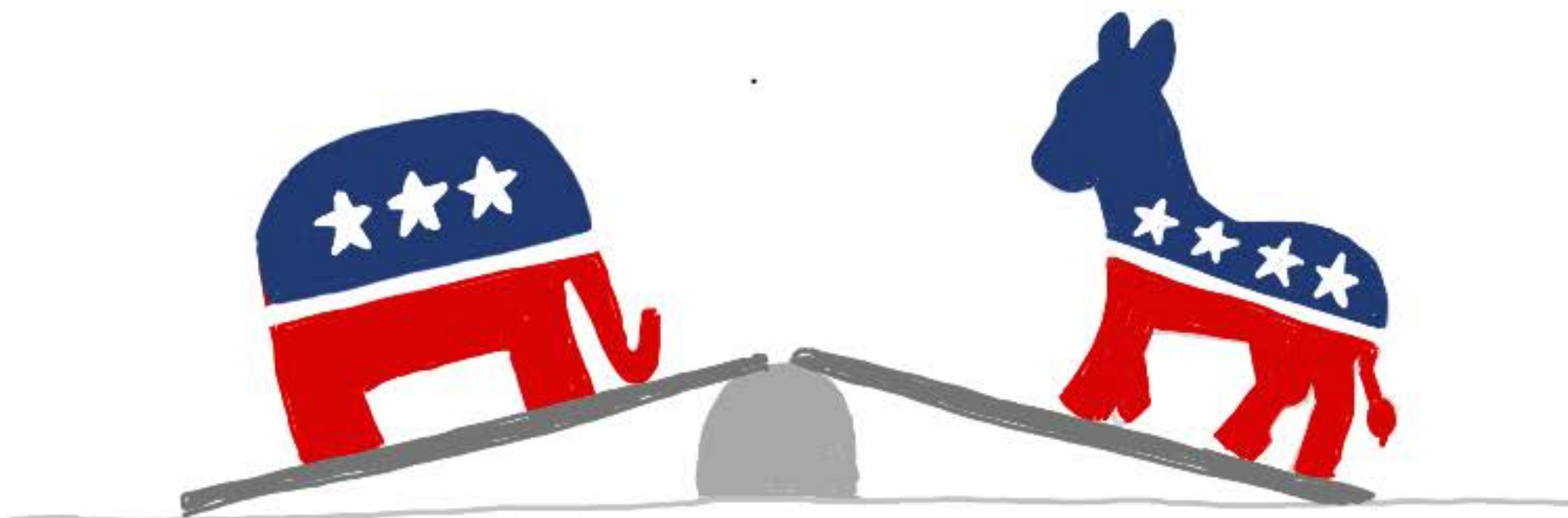
5. ENTREPRENEUR

Free enterprise isn't perfect, but it's beyond politics.  
Capitalism isn't about accumulation. It's about ~~aspiration~~ <sup>aspiration</sup>.

“FREE MARKETS HAVE CREATED  
MORE WEALTH THAN ANY OTHER”

—Barack Obama

What an opportunity. This is the solution to help those who need us most. Political bifurcation as at critical levels, we assume our ideology is based in love & your opponents ideology is based in hate. This is called POLITICAL ASYMMETRY.





Fred Hylle studies this. Conservatives (C) & Liberals (L)  
The diversity is wherein our strength lies. We need each other if we want to get the next 2B out of poverty.

Social entrepreneurship.... we need also 2 be less predictable & conventional. We tend to listen to those with whom we agree.

1. start the dialogue - listen
2. be the person who blurs the lines

We will only then begin to see that our big differences aren't really that different after all.

Q. President Trump?

A. We R facing a lack of visionary servant leadership. Even when you think of your least liked candidate. They too will tell you they are fighting for you. But we also need to fight for people who don't like you. We can't just fight for those who follow us.





From 1972 to 2010. The prison population in the US increased 700%.



I am a prosecutor & believe in Law & Order. I ♥ my job. How many of you had broken a law before the age of 25? All. How many of you spent a single day in prison? Less than 10. How many of you think you should be judged for this for the rest of your life? ☹

I went to law school to make money. I took an internship at the prosecutor's office. The people being charged were mostly black & brown. The people speaking on their behalf were mostly white.

My 2nd yr I interned with a defense atty & ran across many who had been charged w/ murder. They'll spend the rest of their lives in jail. Such a waste & so preventable. My 3rd yr internship I was moved by unfairness of it all made me want to be a defender. The pur system made me be a prosecutor



BLIND JUSTICE?



We rarely talk about the prosecutor. In Fall of 2009, a 19yr African Am HS student stole 30 laptops to fund his edun. He faced 30 counts of felony larceny. I was a 29yo prosecutor when I faced Christopher. He had little understanding of how being branded a criminal would chg the rest of his life. Most prosecutors would've arraigned Christopher. Doing so would give him a record making a job, education, & housing more difficult to obtain. It may push him deeper into a life of crime. In law school I never learned what justice was. Discretion to prosecute was completely mine. - yet w/o understanding the true consequences of my decisions.



While at a gathering a young man approached me & hugged me. It was Christopher. I didn't prosecute him. We recovered 75% of computers & made a plan to repay. He was now a manager at a large bank in Boston. There are 1000s of Christophers out there. An employed Christopher is better for society than an imprisoned one.

I have learned prosecutors can chg lives not destroy them. Give a runaway prostitute a safe place to stay; A shoplifter training; Abused violent teen treatment.



1. It cost \$100K to lock up a teen for a yr. Its a poor ROI
2. Its the right thing to do
3. Ur voice & vote can make that happen

What r u doing to make my community safer?  
How r u training your prosecutors in intervention?  
If its not working, what r u doing to fix it?

Vote for the prosecutor who is keeping more people out of jail not focused on putting more in. We deserve better!!

Q. Could you have kept more people out of jail as a defender?

A. No. I don't think so.



I work on Free America a group that strives to bring an end to massive incarceration. This is how I met Adam prosecutors are taking differently on how to improve the outcome for our communities.

Adam: John's team has really helped get the msg out. He has a platform to spread the word. Sending people to jail isn't helping our community.





only love can conquer  
hate.

-marvin gaye

At free America we've done a listening tour: prosecutors  
inmates, immigration detention centers. We can create  
hope. What if love, compassion & rehabilitation were  
core values. James Cabot has served 18 yrs in prison. He  
committed a crime, pd his debt & will reenter the pop.  
But his failings do not define him.

☹️  
Welcome to San Quentin  
There is abundant talent on  
the inside to create  
better lives. . . . ☹️

☹️  
Where I live,  
in a world where  
people who kill  
people who kill people  
in a place meant  
to teach people  
killing is wrong...  
prison is what u make it

You don't have to be free to experience freedom. & ...  
We're all serving time. Freedom isn't a place It's a mindset ☹️



won't you help to sing  
these songs of freedom  
- Bob Marley



JOHN LEGEND





## LIDIA YUKNAVITCH

Misfit is one of my favorite words. I'm a card carrying misfit. I'm never the only one. Somewhere in my 30s. I won a literary prize for a short story I wrote. It was a dream come true. I poured a glass of vodka & sat in my underwear staring at the letter.

I'd come from an abusive house, two failed marriages, I'd failed out of 3 colleges & spent time in prison.

My daughter had died the day she was born & I hadn't figured it out. I'd been in rehab. & been homeless.

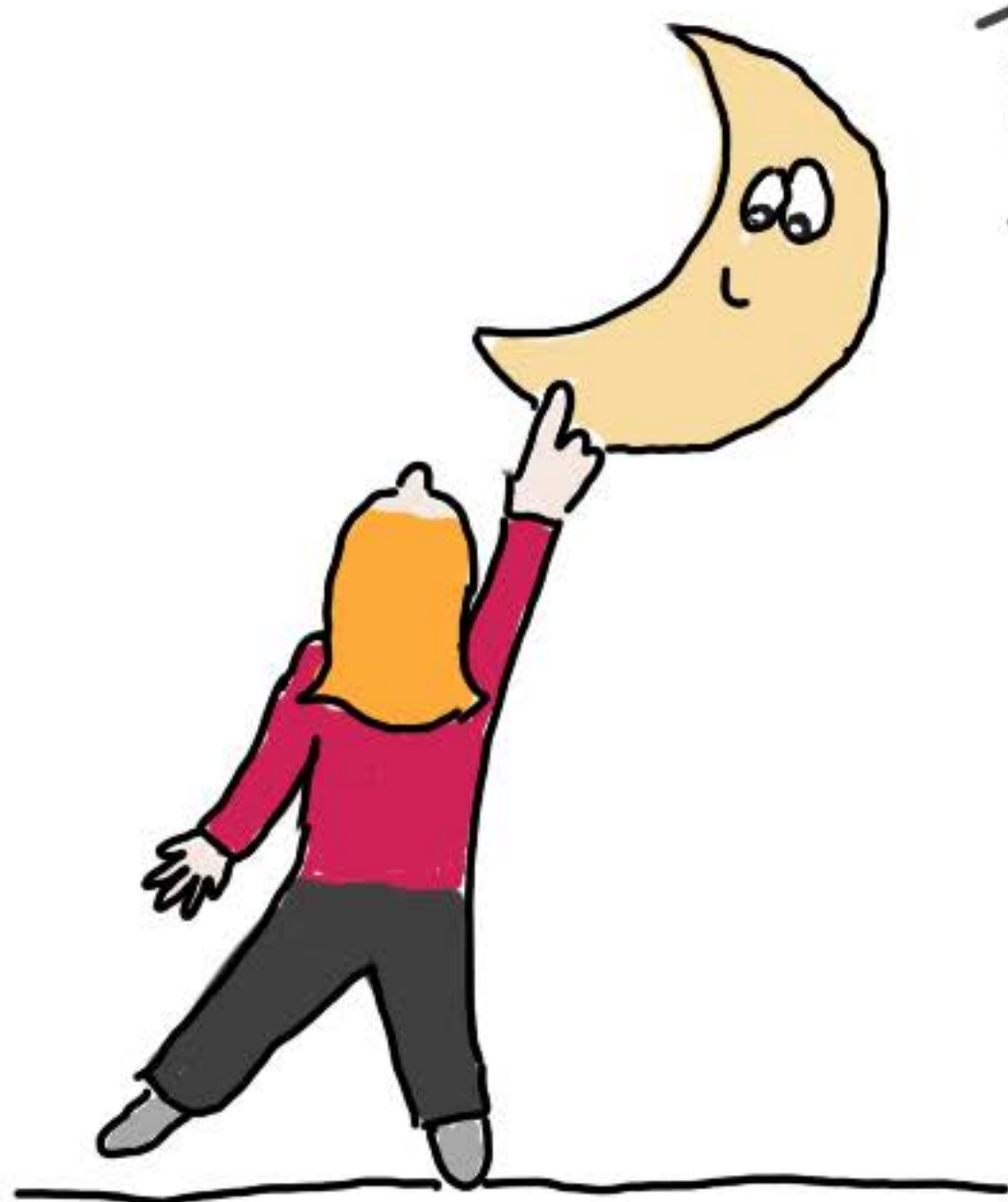
I went to NYC to meet established authors, agents and writers after winning a writing contest.

It was a dream come true. At the welcome reception I was overwhelmed. I stuck three napkins & the dinner menu down my pants as keepsakes to remember this experience was actually real.





there were 3 women writers I wanted to meet. They weren't mainstream. It killed me w/ joy to spend time w/ them. I'd never known a joy like this. Next, they took me to my mega dream press to meet the editor. He tried to convince me I had a book in me about my life as a swimmer. I said nothing.



then I went to the offices of WW Norton. It was as if I had touched the moon. Their lead editor said 'send me something immediately.' It took me a DECADE.

On the last night I did a poetry reading & was offered representation by a famous agent. Right there on the spot. I said, 'I don't know. I'll have to think about it.'

I wanted these things, but my shame of wanting these things kept me from saying yes to any of these opportunities. I went home w/o a book deal. w/o an agent. My memory was my only prize. They said give voice to the story only you can tell. I became a writer, a mother, a teacher. Guess who my favorite students are?



there is the Heros Dream, but I prefer the misfits fit. Even at your failure, you are beautiful. You can lose your job, your home, your daughter, your mind, but you are beautiful. You can tell a story that no other can. You can tell your story... and I am listening.

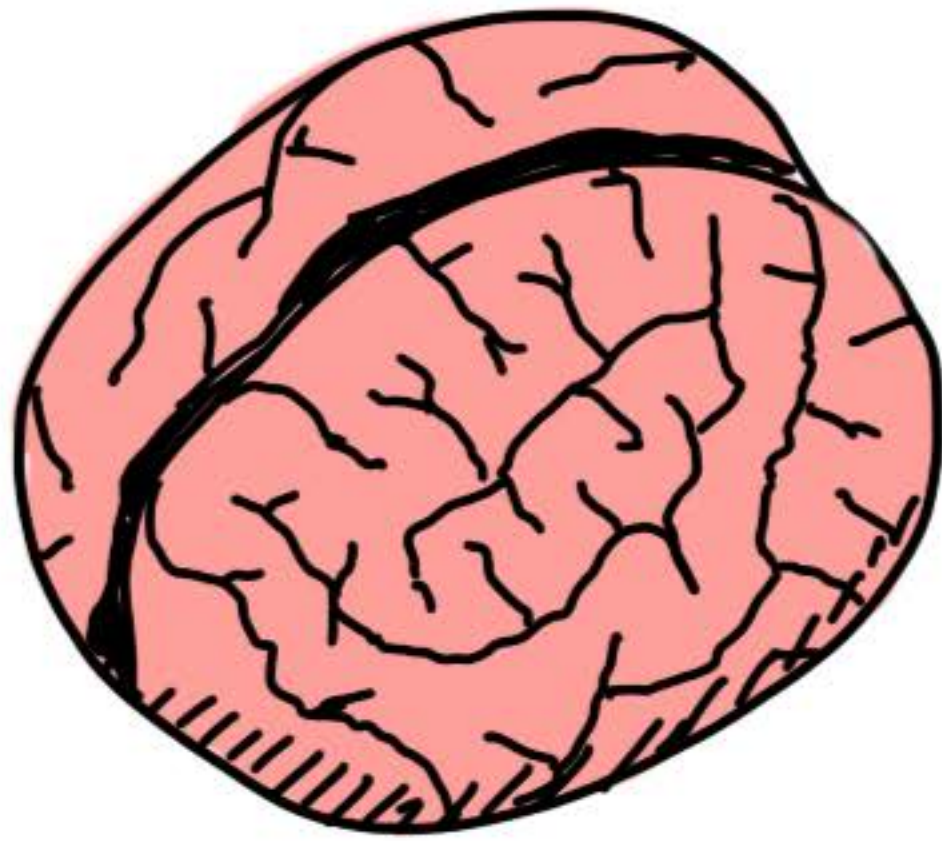
## MORON CERF

We spent a  $\frac{1}{12}$  of our life dreaming & most of it is forgotten. But what if we could shape our dreams. On 10.28.10 I wake to my ringing phone. A call from a producer from BBC says I hear you can decode people's dreams. I say we didn't actually do it but theoretically. It is possible. Then an explosion of headlines follow.

Calls, email & a slew of offers follow. If you want to study dreams start by studying people's thoughts while they R awake. Before becoming a neuroscientist - I was a hacker. I wanted to use my approach in hacking to study the brain







the brain makes a sound.  
We can see this during  
brain surgery. Doctors  
stick electrodes in the  
brain to find the problem.  
But this can take days.

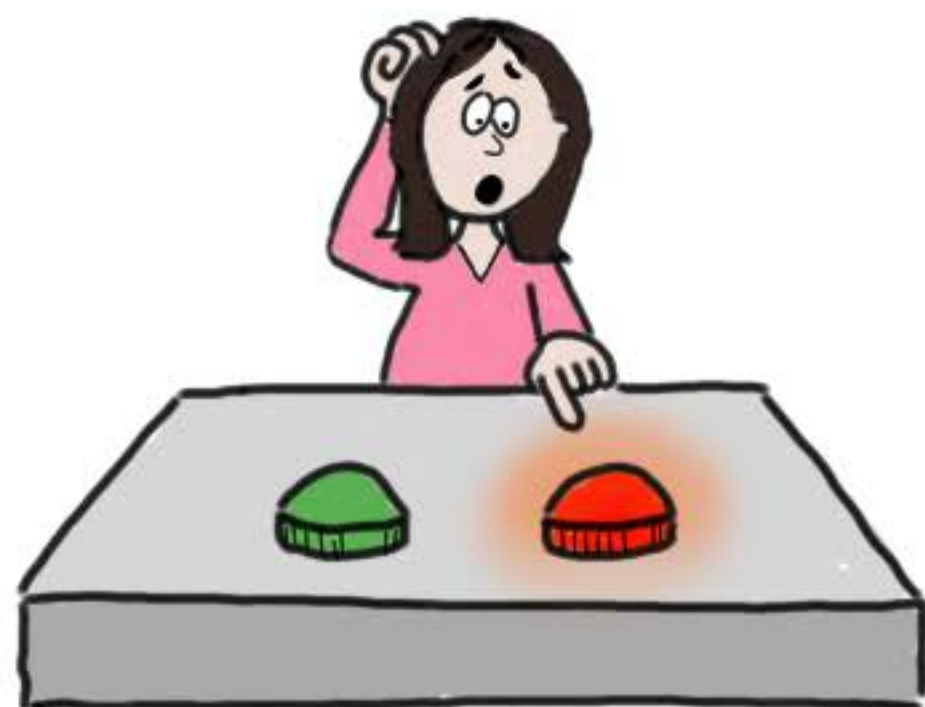


the brain does not fire for other yellow xters. In fact  
the same cells fire when we ask her to remember  
the simpson. We noticed the brain was firing before  
she thinks



We can see her thoughts arising before she can act on it. I will always be able to act before her because I am inside her head.

The red light goes on when the subject simply thinks about it.



Three yrs after I said the dream research was possible a Japanese colleague did it. so I wanted to do it myself. Our recollection of dreams are always distorted this is so we don't confuse it w/ our real life. Our recollection is also colored by our experiences



#71



#99



#34



#2903



COMPUTER DREAM - sees patterns in terms of categories.

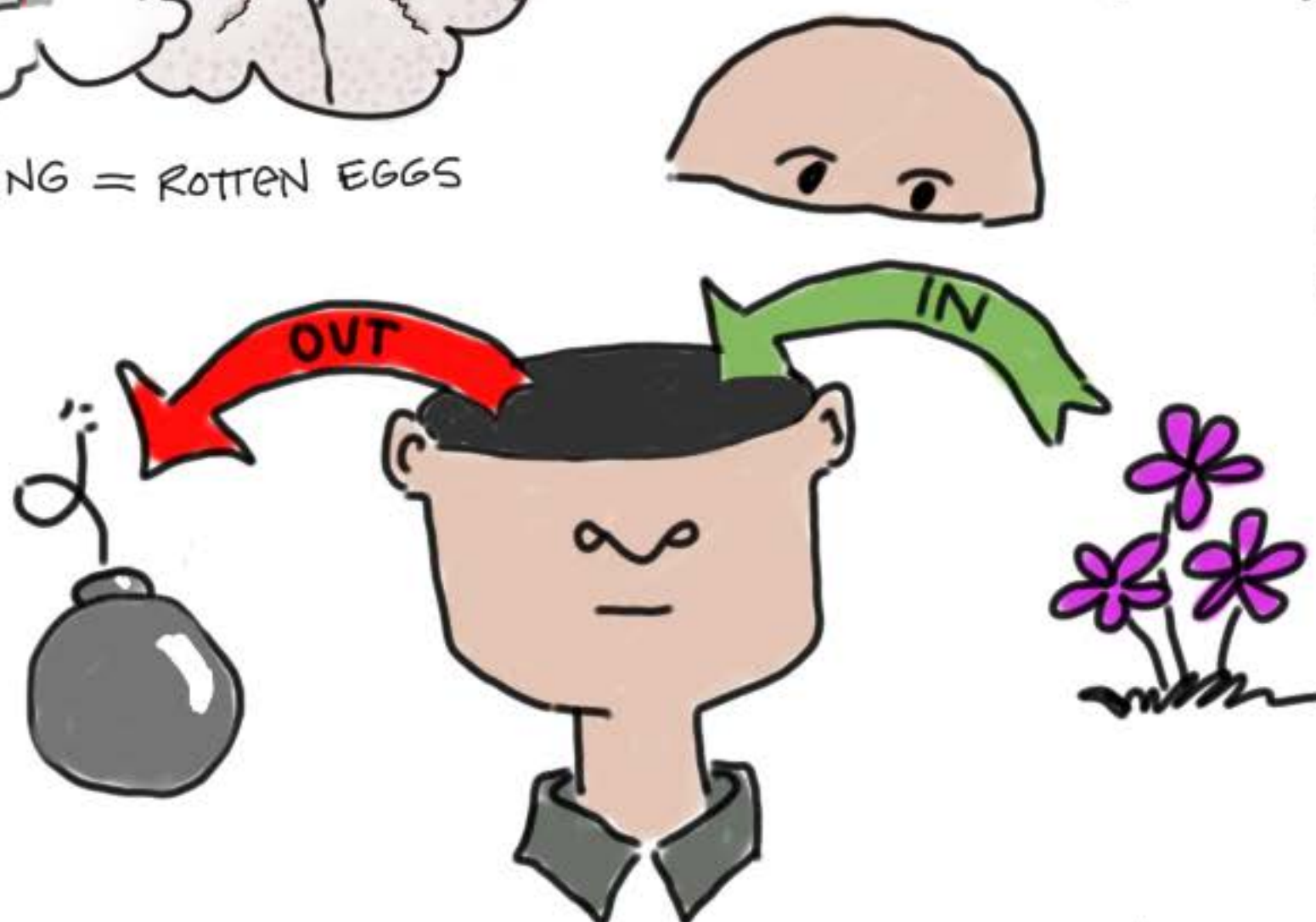
book	bldg	car	man
		food	furniture
	shop	street	station
man			girl

"there were 3 people inside some sort of hall, a male, female & maybe a child. Yes. a boy girl & mother"



SMOKING = ROTTEN EGGS

- plants the concept that they do not like smoking bc they associate it w/ rotten eggs



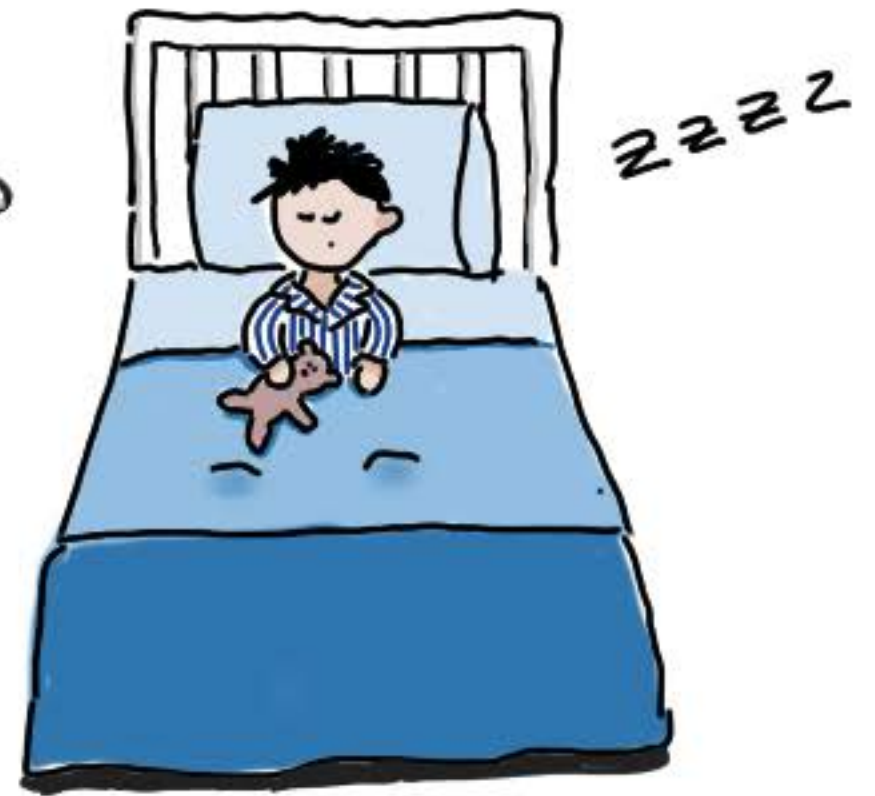
replace bad or traumatic memories eg. guns, bombs. With new pleasant images eg. flowers.

150

we can use this technique to treat PTSD soldiers



Can we teach you things while you sleep? Or have two people share the same dream?



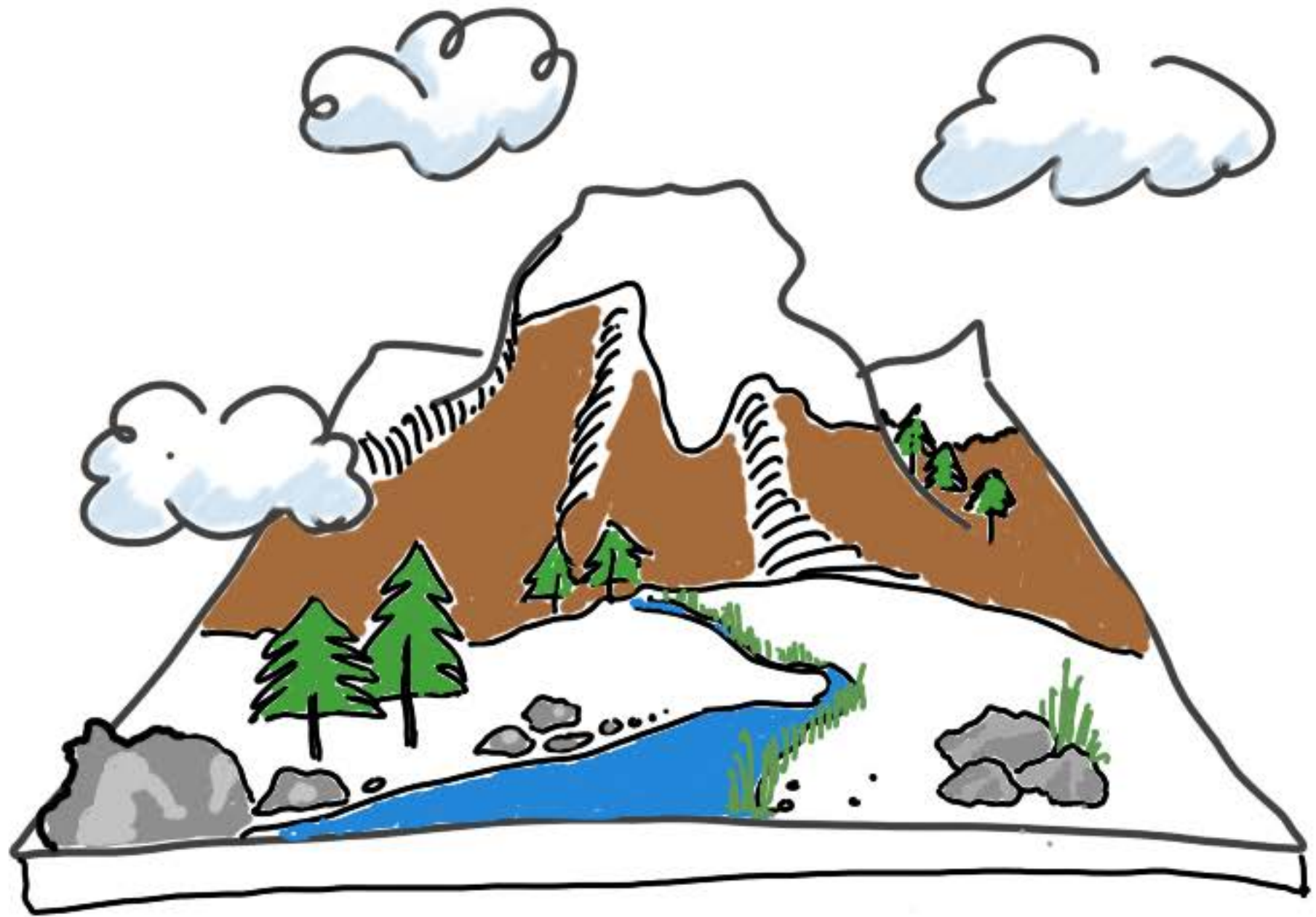
We R not there yet. Science is about enabling hunches & dreams. We can use this to create new experiences, change behavior, simply by helping others to dream BIGGER!



Thousands of yrs from now we will look at computing as a particular period. A hundred yr time where humans managed their lives from behind a screen. My desire to move beyond this limitation. I want to design a reality where tech isn't in the way where people R at the center.



Holograms will get us there. I'm talking about today.  
Hololens is used by Honda & NASA. By bringing holograms  
into our lives we will free ourselves from a 2D computer  
world.





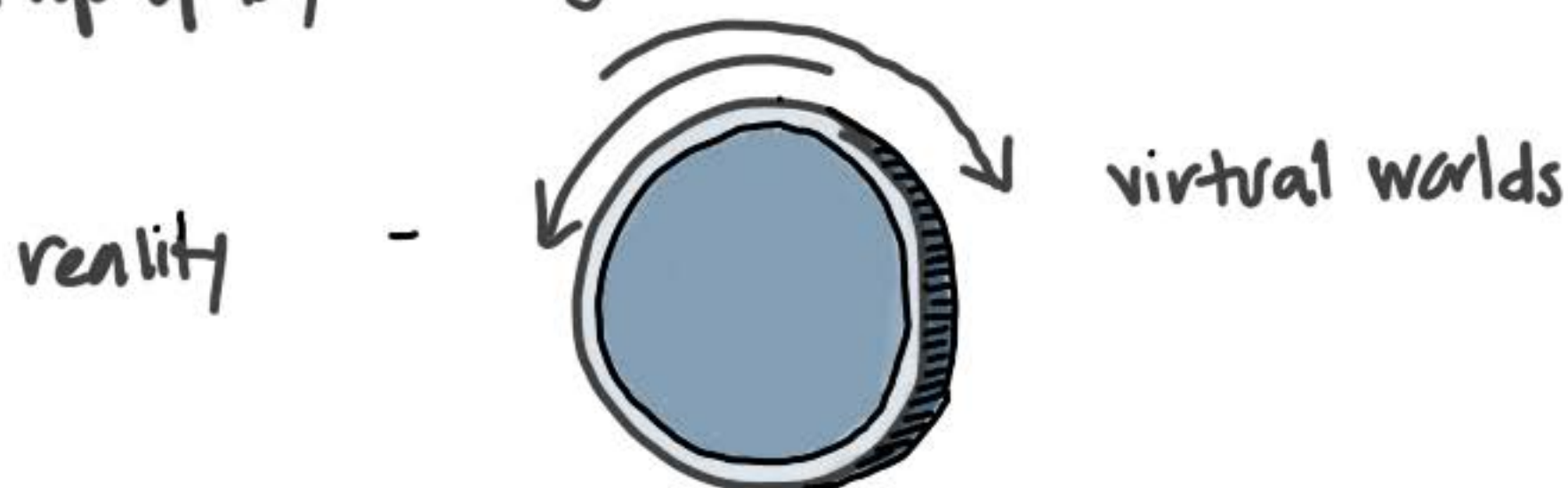
This will displace time & space. We can see glimmers of this our kids will grow up in a world w/ 2D screens. How do we get there? we have to sense the world from the perspective of a machine

①  
observe  
or input  
reality

②  
place digital info  
our output  
into reality

③  
exchg energy  
via haptics. eg  
sense heat.

machines can understnd our world & interact w/ us in significant ways. simply by turning a dial we can enter new dimensions



less than 50 yrs ago, we landed on the moon using less tech than in a common cell phone. Imagine what our children will do w/ the latest technology.

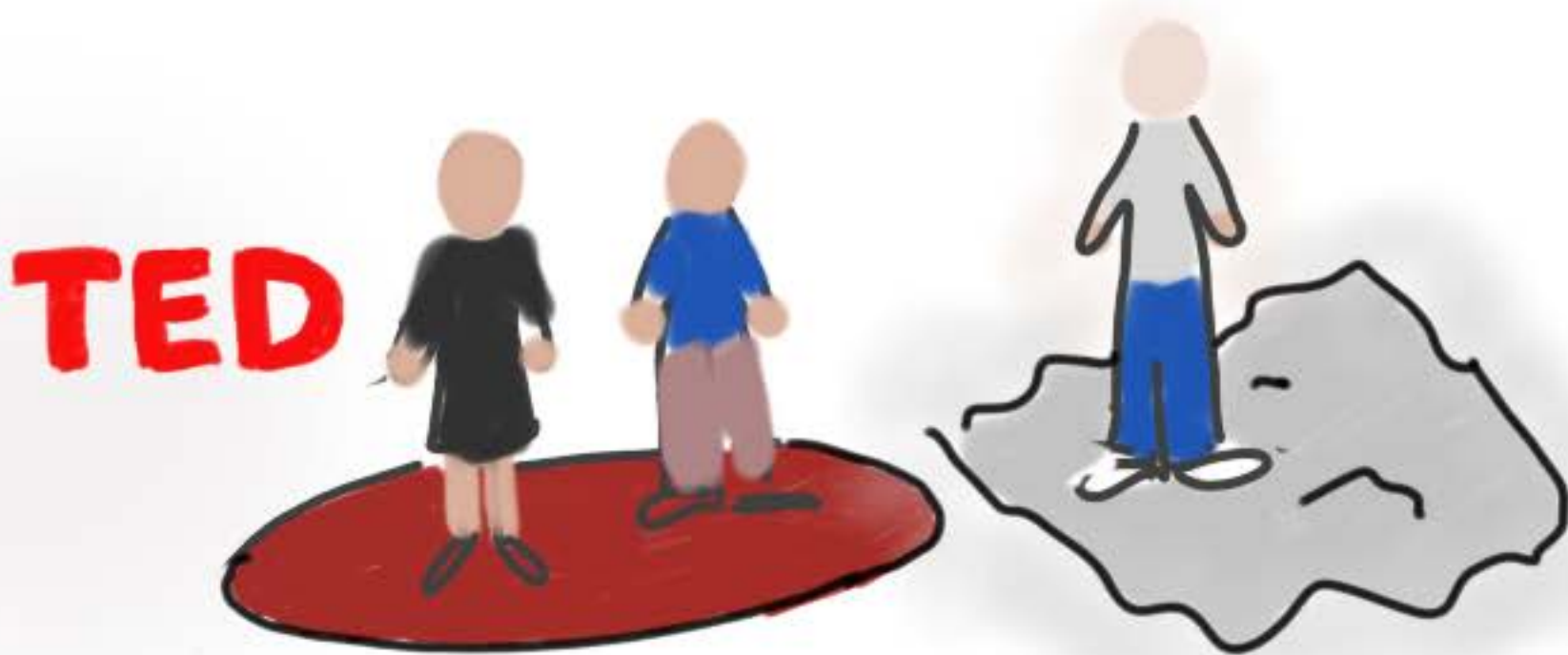




I dream about this future every single day. We will eventually have tech that moves beyond pixels and screen. A world where people are at the center of the world. It is a phenomenal time to be human

Q. Is there a disconnect b/w this demo & what is commercially available.

A. This is the wrong question.



Q. Jeff, you have sight but holograms do not yet have touch & smell. Is it scientifically relevant?

A. Absolutely. We are using it to develop our next generation of space craft at NASA



# 10 Ideas that Define VS

Mariano Sigman

Greeks

Historical records that show how ancient lived, but how did they think? Is it possible that as social cultured chgd so did the way we think. I wonder if we can recreate ancient cities, could we recreate ancient Greek thought. One expert said today we would be called them schizophrenic. consciousness as we define today is a relatively new construct. i.e. Ancient Greeks thought they were hearing the voice of a God. We would call those voices today introspection.

RELATED

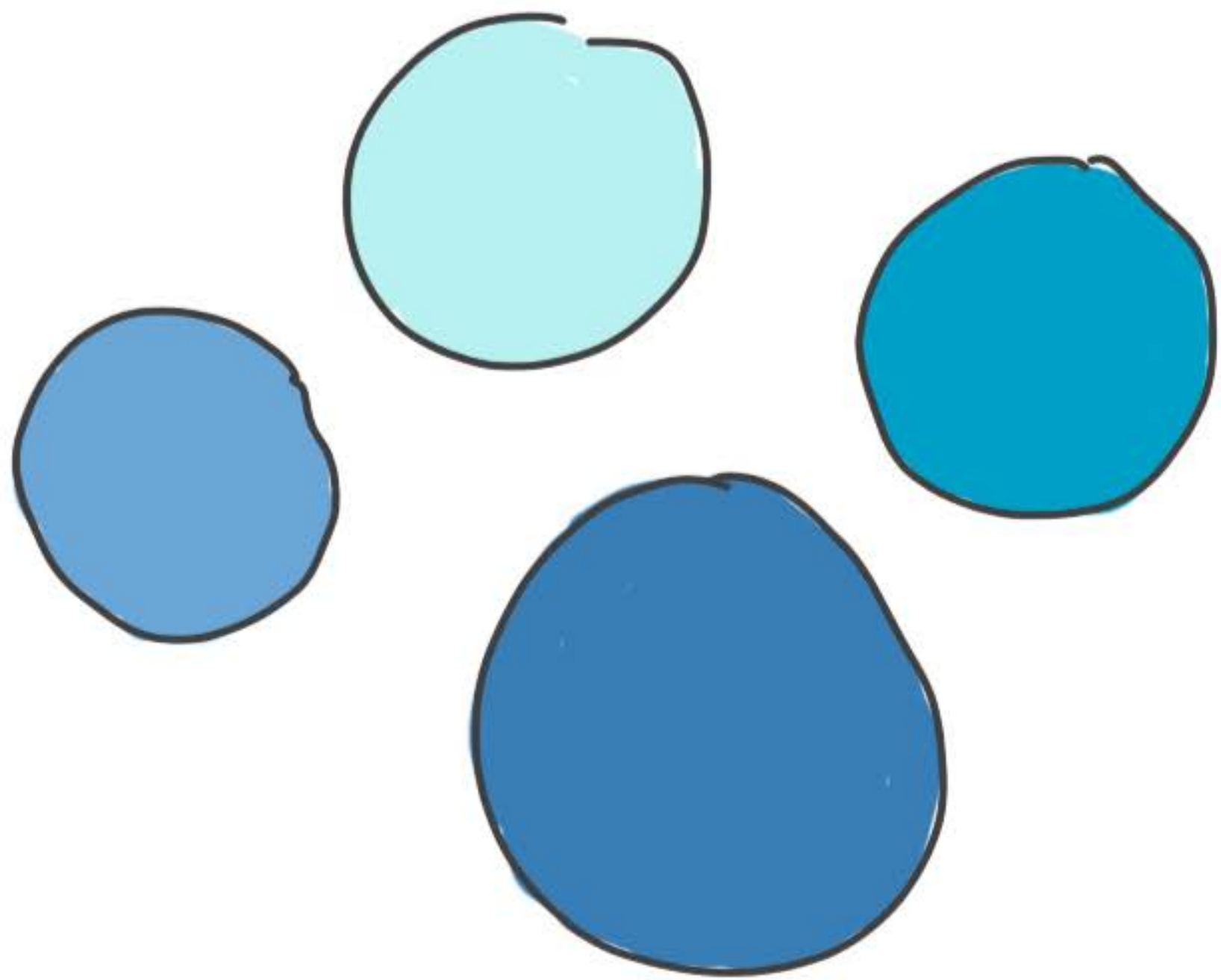
DOG/CAT

NOT  
RELATED

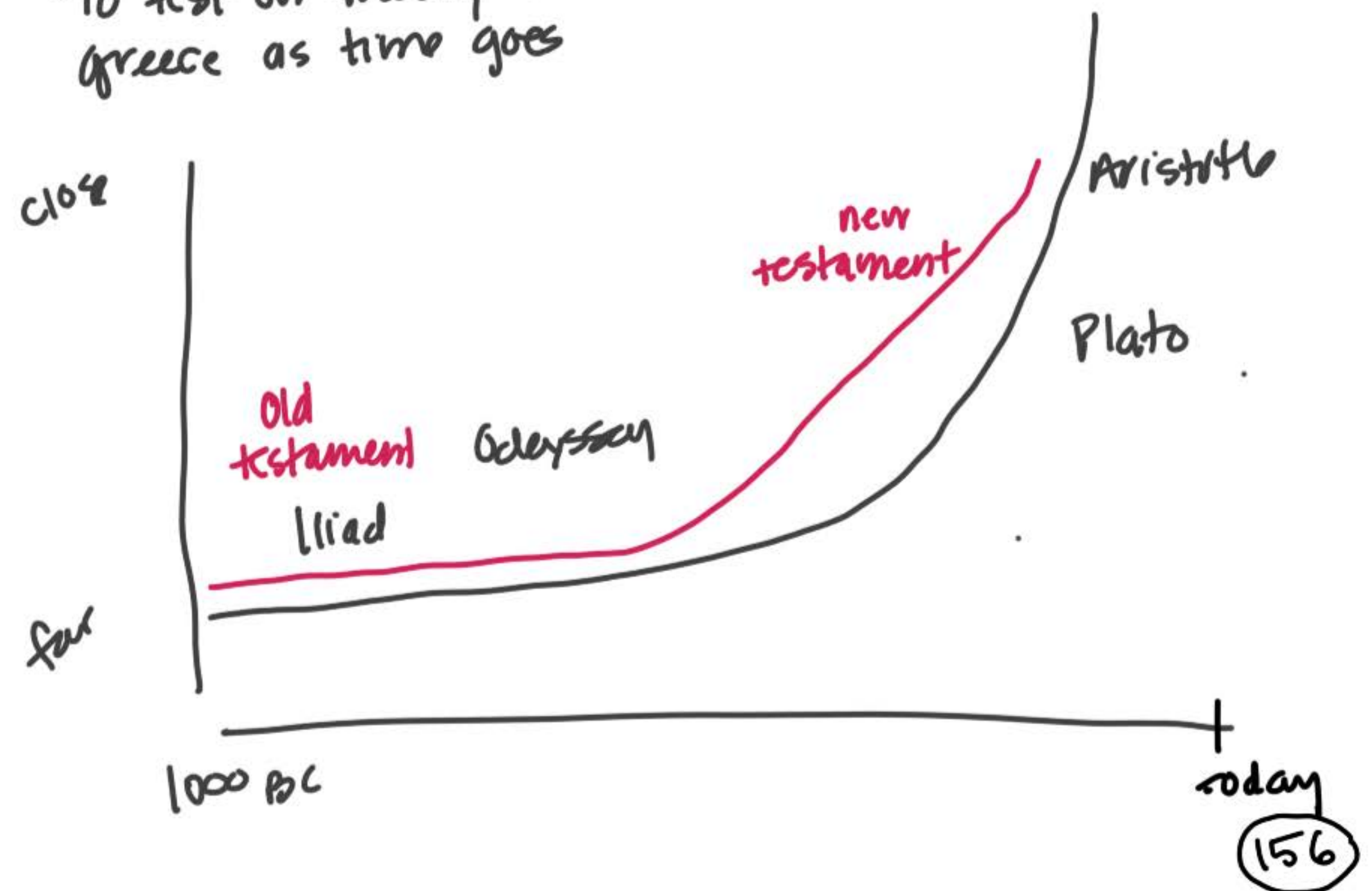
STAR/CHEESE

Consider the space of words. When words are related it is theorized the words will appear together more frequently than words that aren't related.





we have a heirarchy of ideas; which aids introspection  
To test our theory we look at the books from ancient  
greece as time goes





In the same way we asked at the past of our own consciousness we wonder can it tell us of our future sense of introspection. (i.e. advance warning that something that might go wrong w/ our minds)

We studied 34 people who had high likelihood of schizophrenia & studied their spoken words. The study revealed nothing then we studied the cadence / symmantics. It predicted w/ 100% accuracy who would develop a psychosis.



Symmantics & cadence accurately predicts SCHIZOPHRENIA

A former student, Polo, texted me. I could tell from his words alone that something wrong. My goal is to convert this intuition into an algorithm that would fundamentally chg the way we diagnosis & treat mental health.

Q. Could we then have a shrink in our phone?

A. No just like fit bit can flag an irregular ♥ beat, but can't treat it.





# If Africa was a bar?

poke fun at stereotypes  
criticize govt spending  
to make fun of countries that don't think  
they are in Africa.



This hashtag brought people together & created a connection. I wondered if this could be a platform for pan-africanism. I'm pan-african because my parents came from two different african countries. One from a country that was the oldest monarchy, the other from a country that just celebrated its 50<sup>th</sup> yr of stable leadership. When I was young I had little understg of the differences b/w the two. I felt that I belonged to both countries in one way but not to either in another way. This is where I came to embrace pan-africanism.

In 2011, mobile phones became affordable in Africa it opened up my world. Africans took ownership of their countries, their tourist sites. by posting selfies. they took to twitter to talk about their Africa, African history. Our colonial educh system was from the 1920s. I could name the leaders of European countries, but not the leaders of my neighboring countries. The problem of the sudan is the problem of Africa. If we shr the



problems so we should also share the successes. Social platforms could create social pan-africanisms. My dream is a young african sees the entire continent is our canvas

If you want to go fast, go alone  
If you want to go far, go together, but w/ social pan-africanism, you can do both.

For the 1st time ever, African pain & aspiration can be witnessed in real time by those who are most empathetic: other Africans.





LINSEY POLLAK

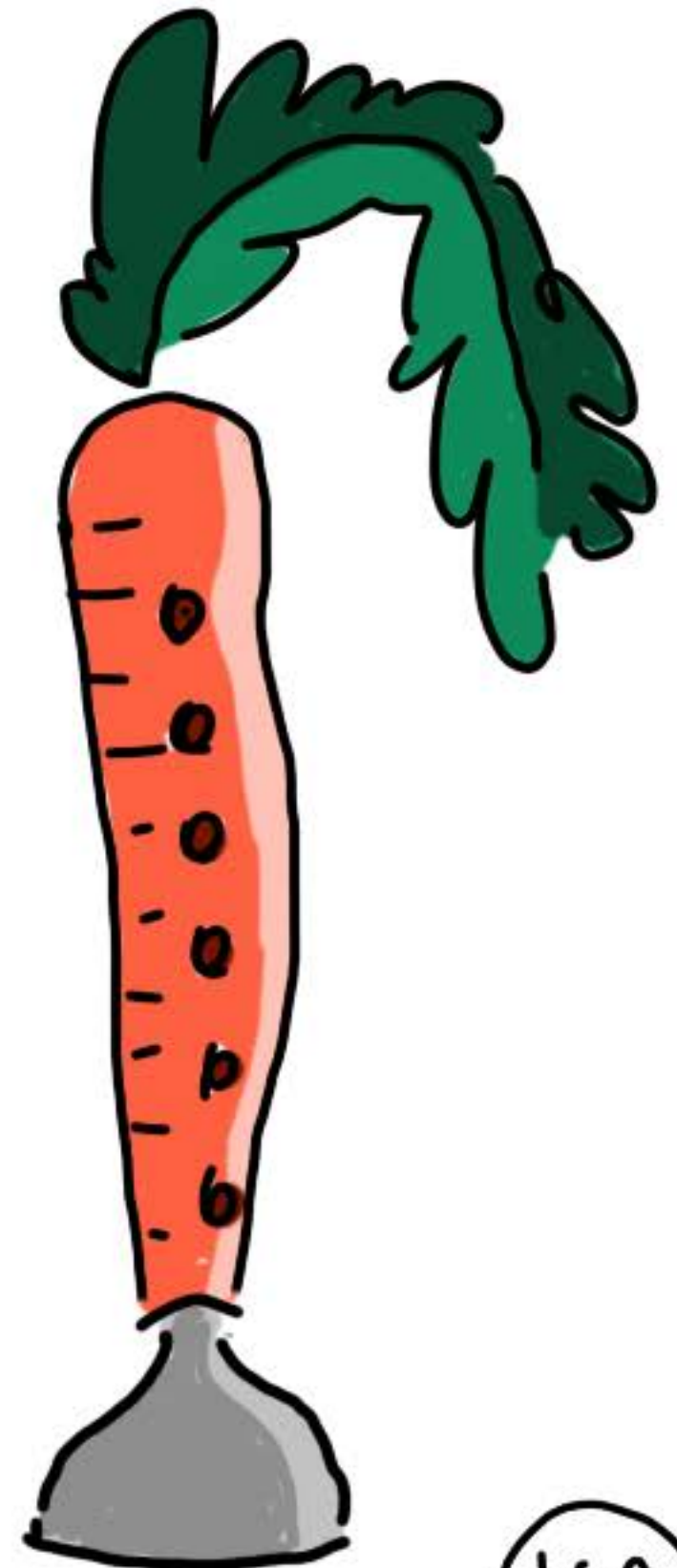


musician inflates glove while playing makeshift flute

We can look at the world by seeing only the singular use of things. One way of taking things for granted. Or you can take a kitchen glove & turn it into a musical instrument.

If you look at the world thru child like curiosity you can take a carrot & turn it into a clarinet. Its quite simple. (see instructions on youtube).

takes only minutes to drill carrot & convert into a clarinet.



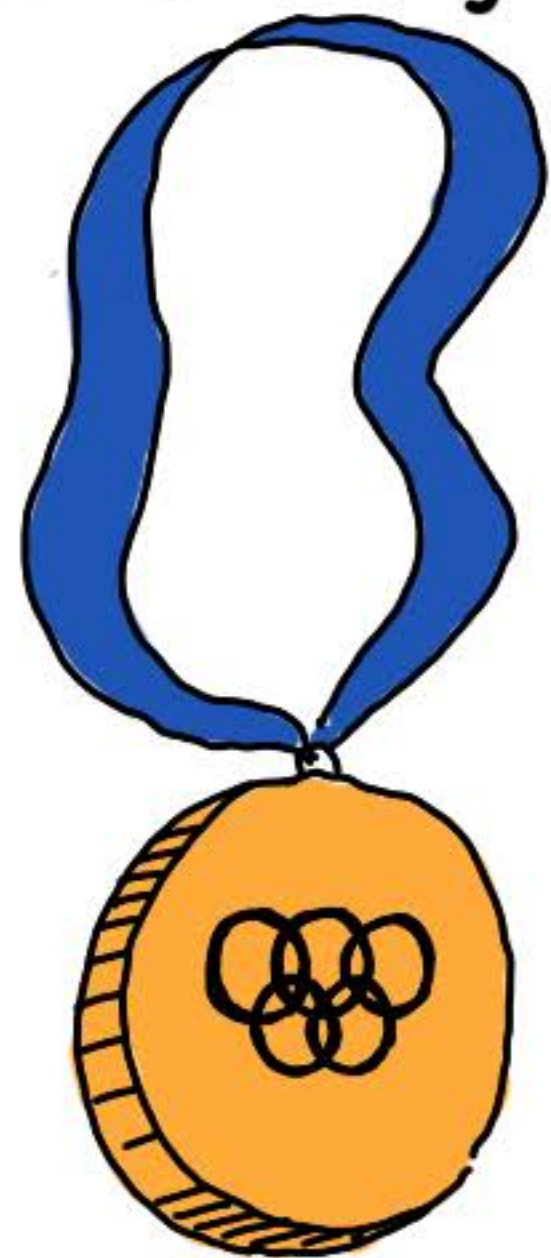


# JUDIT POLGÁR



Before I was born my parents decided I was going to be a genius. Chess can be learned in 15 minutes, but the number of combinations/moves were limitless. In my youth, it was just a game but quickly became quite serious. At 7 yrs of age I was playing 15 opponents simultaneously. Later I played grown men while blindfolded. I would call out my moves w/o seeing them.

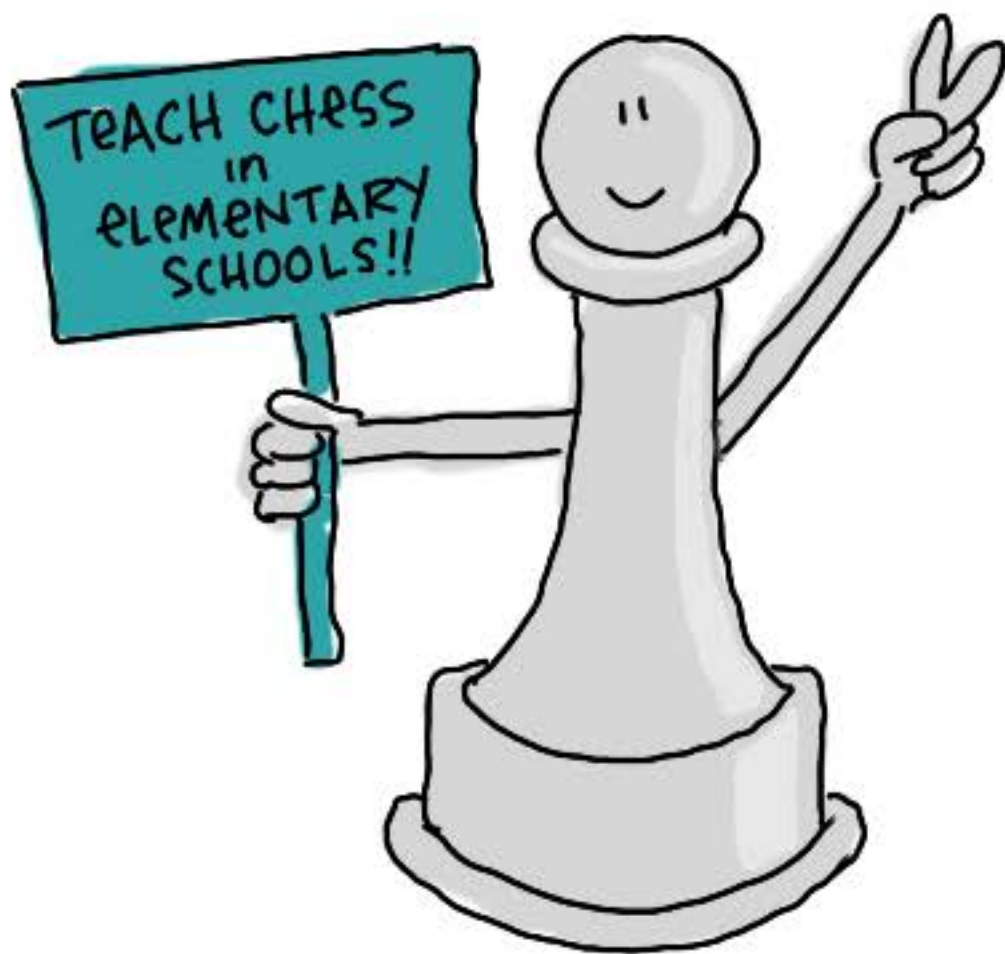
In 1988 at 12 years of age, I played w/ my sisters at an Olympic event. We won the gold medal for the first time for our country. While playing I noticed the world champion of chess was watching my game. I smashed my opponent w/ a few moves. The world champion said I'd be a good female competitor but I wouldn't beat him.



OLYMPIC GOLD



At the age of 15, I became the youngest chess grand master breaking Bobby Fischers record. When playing a competitor I much admired, I had lost almost before it started bc of my confidence was fragile in his presence. The next time I decided to attack his king at all cost. I could see him grow uncomfortable. He beat me but I knew victory was w/ in reach. The 3rd time we played, I beat him. This gave me confidence. Practice, perseverance & passion were key to my success. I did not achieve my goal of becoming the worlds best but I did beat 11 well respected champions.



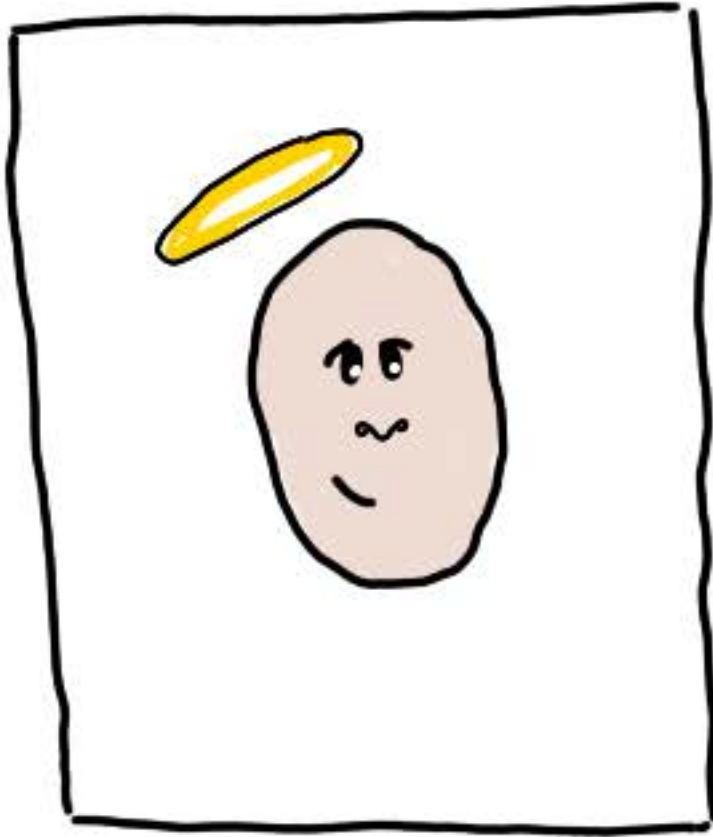
My new dream is that chess be taught in elementary schools. It gave me skills in logic, strategy & multitasking. I want other young people to dream big, set your goals high and reach for the impossible.

KANG LEE

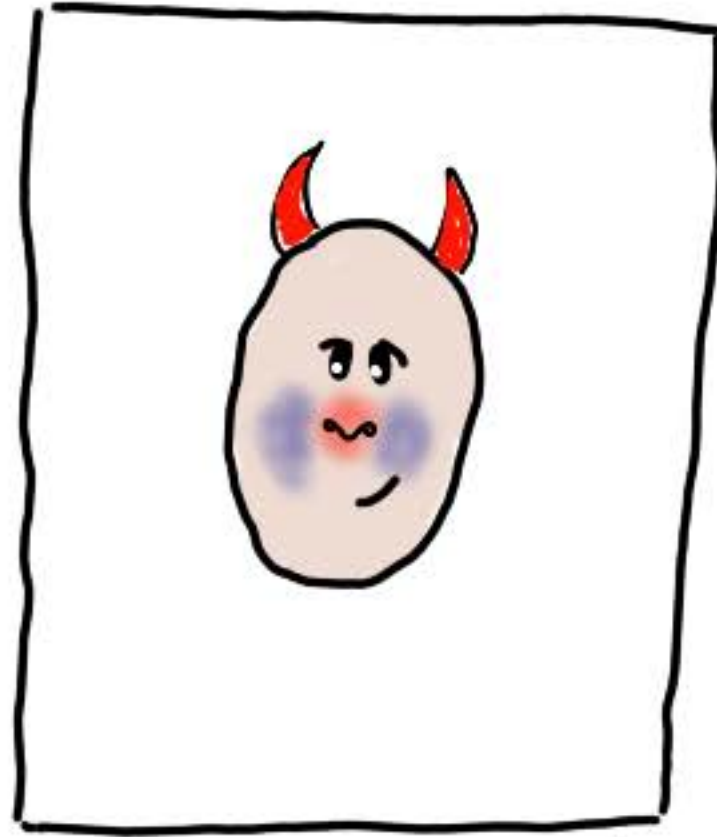
Adults typically cannot detect children's lie. This is bc their faces stay neutral. Beyond this



screen. However facial blood flow chgs do reveal the truth.  
We cannot see these chgs w/ the naked eye



Naked Eye

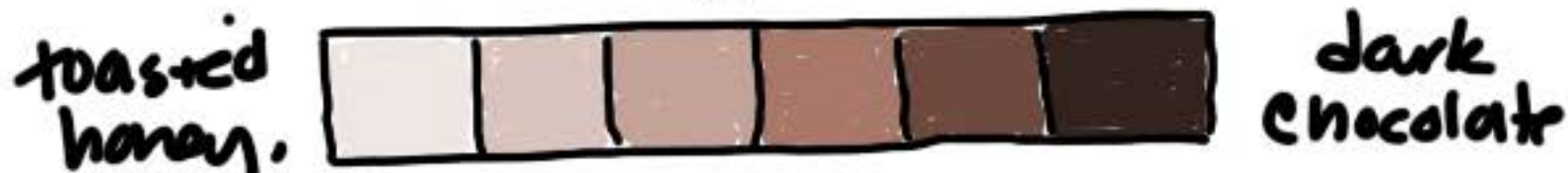


transdermal image coloring reveals lies

How else can this technology be used? Help teachers identify children who experience high anxiety. Check in on aging parents from remote locations. & politicians truthfulness, mkt research response & dating. Lying will never be the same again.



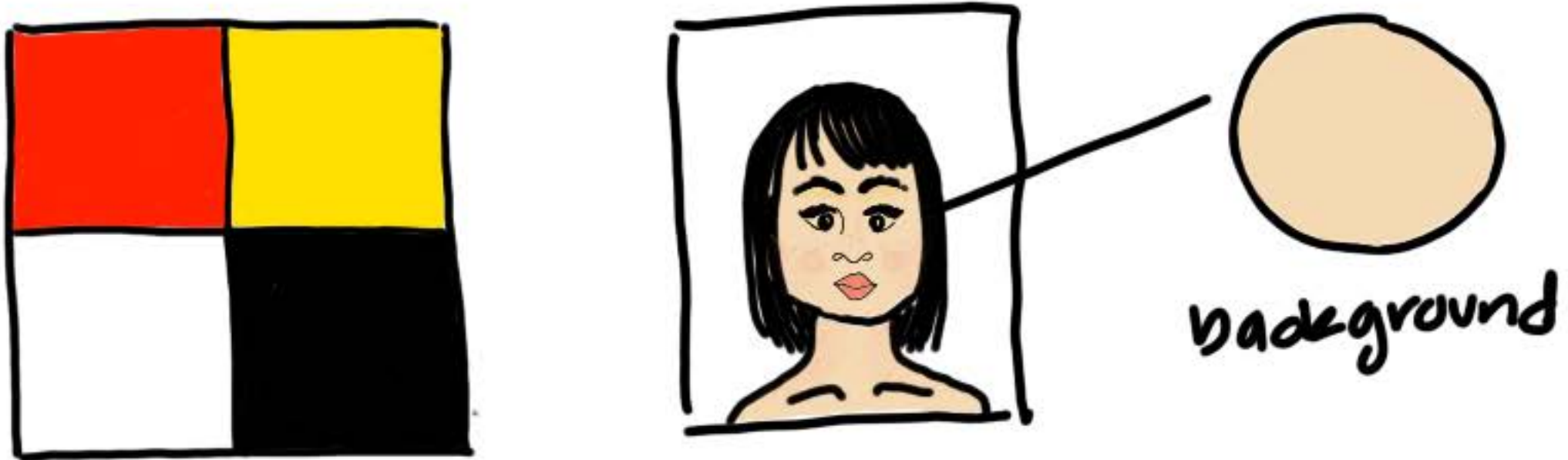
100+ yrs since slavery was abolished. 50+ yrs since MLK spoke of his dream. Yet we still live our first impression is guided by our skin color. My parents hail from lineage of diverse color.



So color never meant anything at home, but outside I did. My color was brown but I was called black. I was mistaken as a nanny, the help & a prostitute.



Many yrs later I married a lobster colored spaniard. I wondered what would be the color of my children. This is what led me to true color.



It fostered a public debate and at the same time started a community. I photograph people of all ages, all colors, what does it mean to be black, white, yellow or red? "Human eye" was helpful to people who



fit into a label, a stereotype, a box. Human Eye found it into art schools, researchers use it for scientific approaches and it was chosen to be on the magazine cover of foreign affairs. Teachers use it to help kids discover their own & unique color. As a photographer I can be a conduit for others. All the loneliness, fear & frustration is gone when I do this wk. the country I came from, Brazil was the last to abolish slavery.



BRAZIL WAS THE LAST COUNTRY TO  
ABOLISH SLAVERY.



## ⑪ FANTASISTS & CATALYSTS

CHRIS MILK

When I was a kid I experienced something so powerful I spent the rest of my life searching for it in all the wrong places. Music injects into your veins, causes your body & goes straight to your heart. Music gives emotional resonance.



Beetle's white album

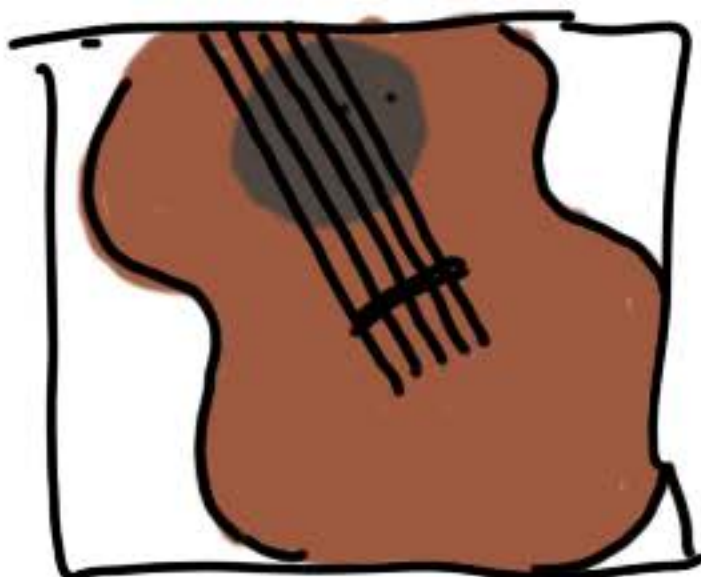


Stacey

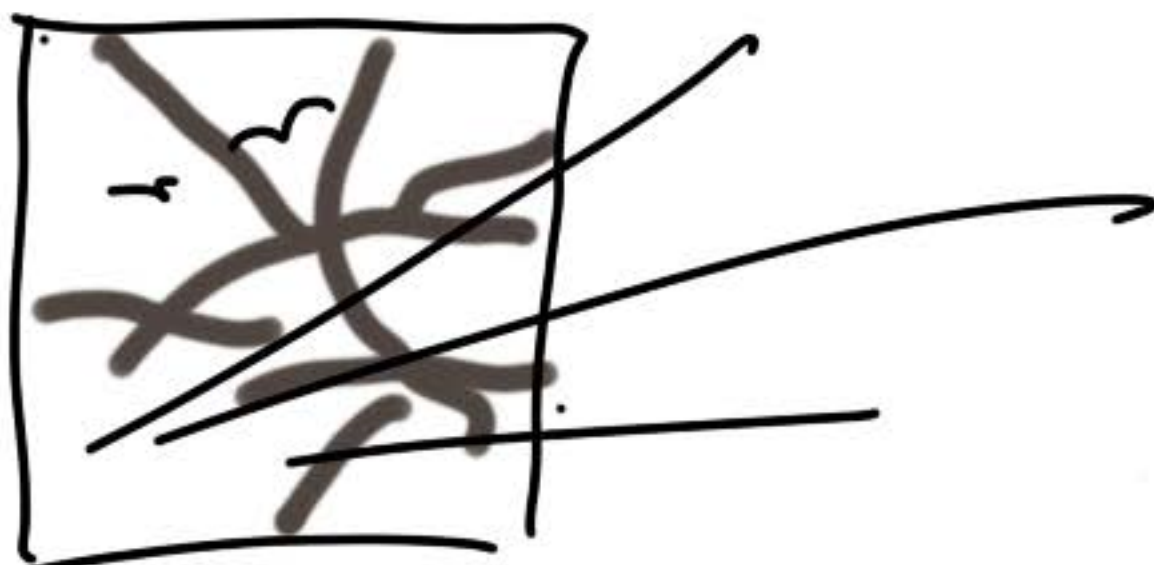


my bro. jeff

my quest continues.



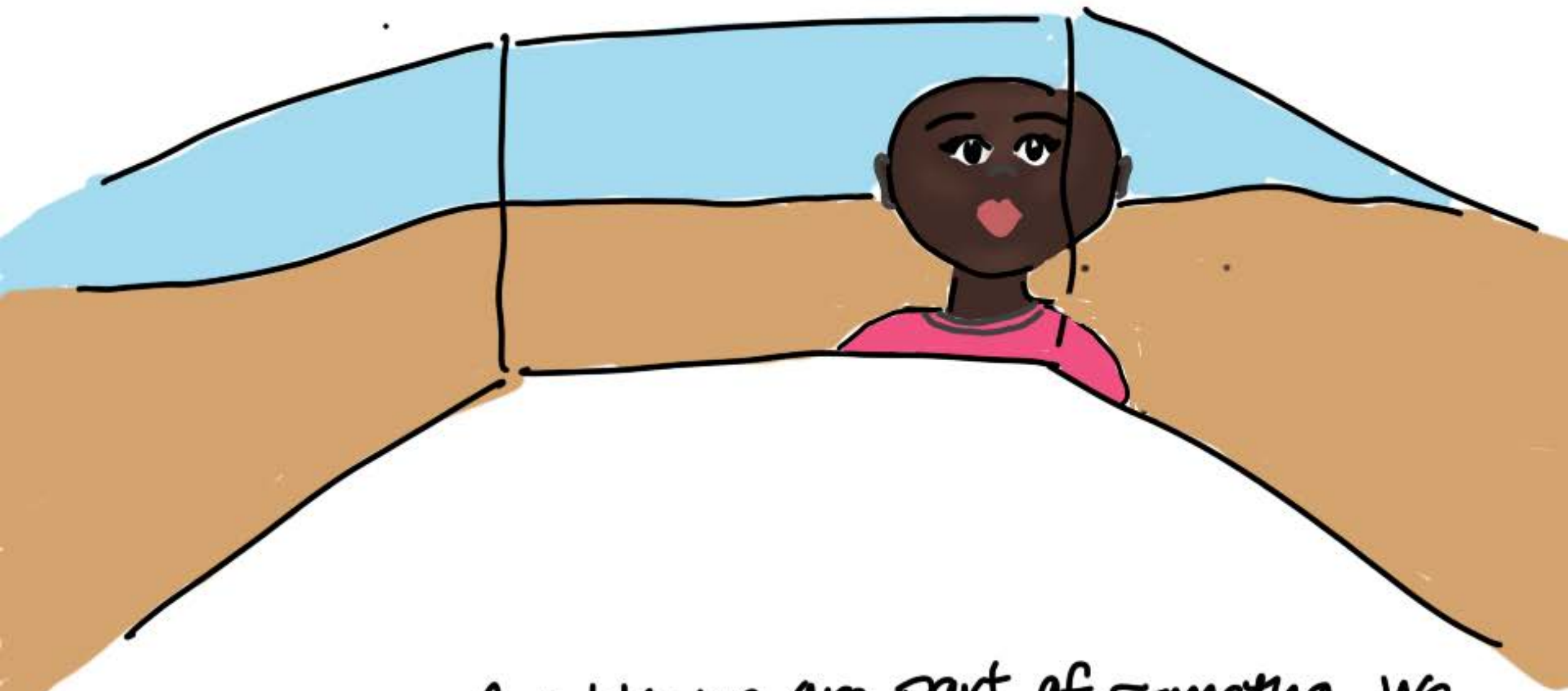
Johnny Cash



Wilderness



contrary to popular belief VR still has composition. It captures the world around you. a closeup brings you a pseudo physical closeness



VR makes us feel like we are part of something. We are all global citizens, but we are wired to care about what is local to us. VR makes everything local. The kids at a Syrian refugee camp are in your neighborhood





We call it VR now but what do we call it when we move it past that. A simulated reality?



speaker



listener

We scanned the brains of people listening & the person telling the story..

so im banging on my story & i know its good & then i decide 2 make it better w/ embellishing it



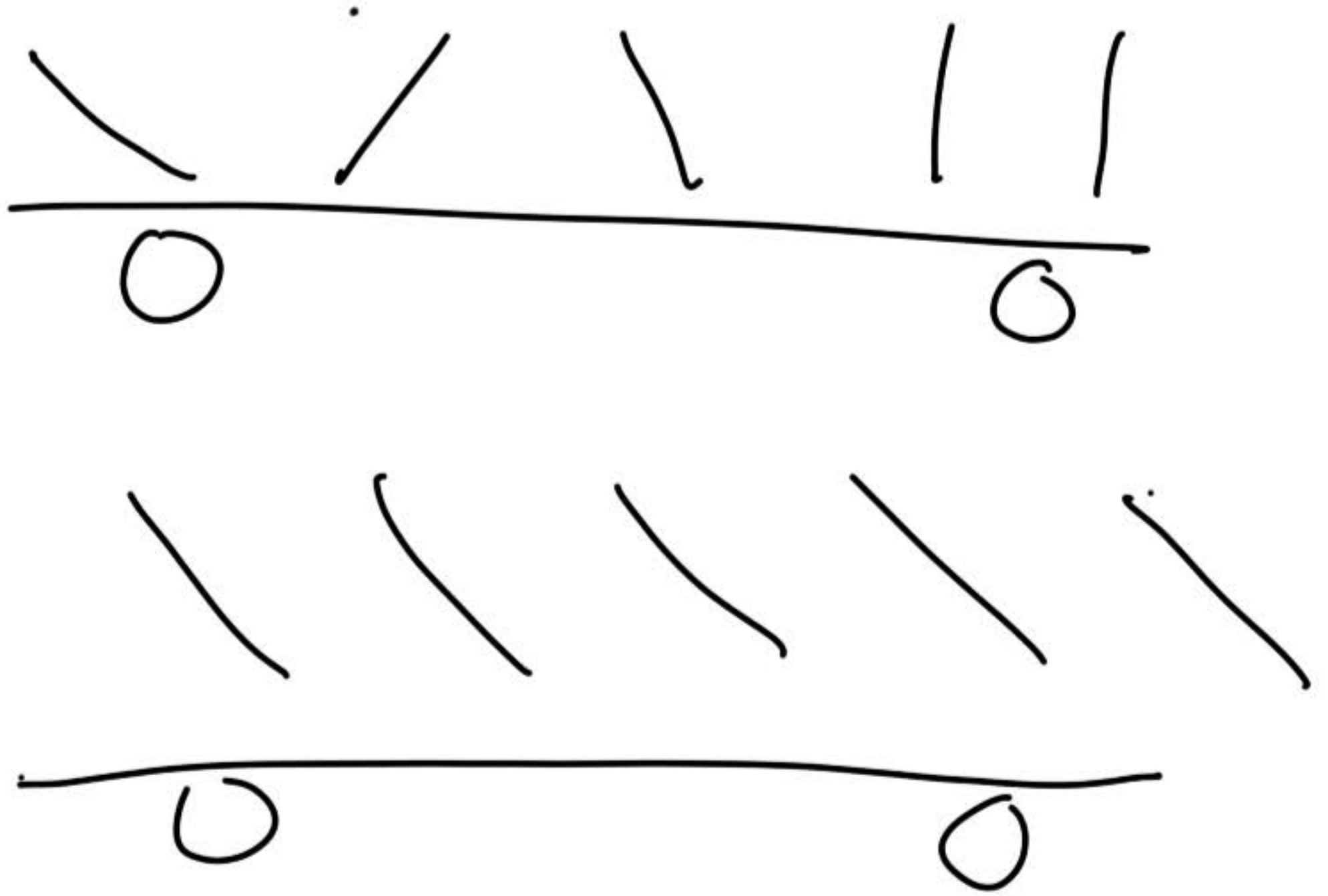
listener 1



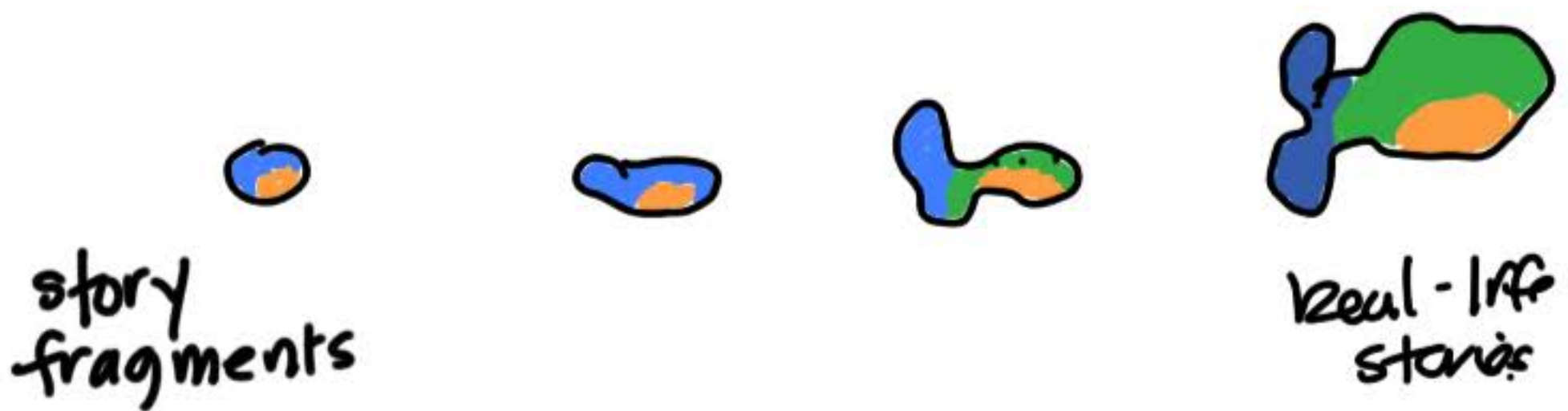
listener 2

We found listeners response to the story immediately changed. They could tell something was off even if they didn't know what it was.





When we reversed the speech & scrambled the world  
& scrambled the sentences brain scans stay consistent



Scans of the brain showed relatively identical results even when the story was related to Russian





speaker



listener

while telling the story is quite different than listening the brain is surprisingly similar. the better the story is understood the more similar it is to the speaker's brain pattern

We wondered if we chngd the mode of comm. would result differ.



watch the episode then retell it to another



When I recount the episode the brain highlights in the same area



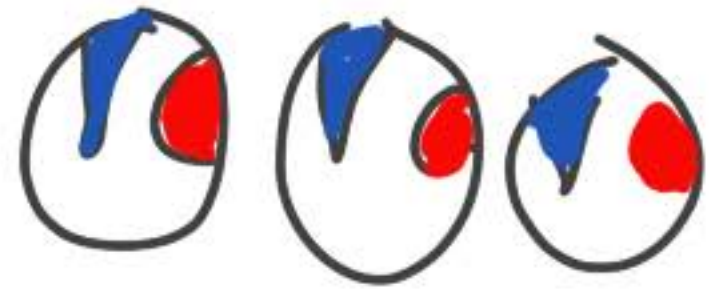
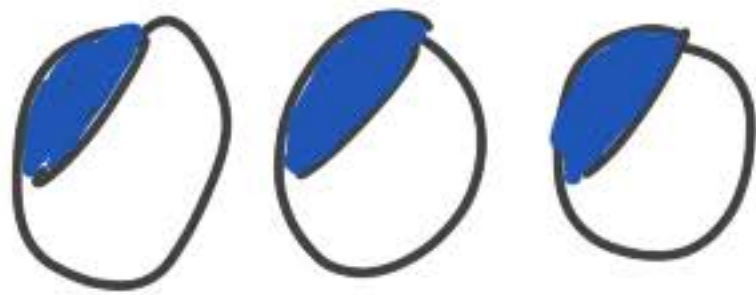
even the listener who hasn't seen the episode w/ have similar brain activity



Even people w/ different perspectives still respond similarly

Wife has  
an affair

Wife is  
true



We need to let the common ground help cross the divide with people that we perceive as different from us. So keep spreading your ideas.

PAT BLUTE

I want to teach u string theory. - how I overcame stage fright. I do this by watching from where they emot. Is it their chest, eye brow

... one day I want to come back & tell you what its like to fail right now....

ALICE ROWSTHORN

Design is a slippery & elusive phenomenon meaning different things at different times. But they all start with a dream. This goes back to 300 BC when a 3 yr old became



King. He desired to conquest lands. At the time arrows were unique to each bow so he insisted in standardization. This led to him successfully conquering his neighboring countries which became China. Few would see him as a designer

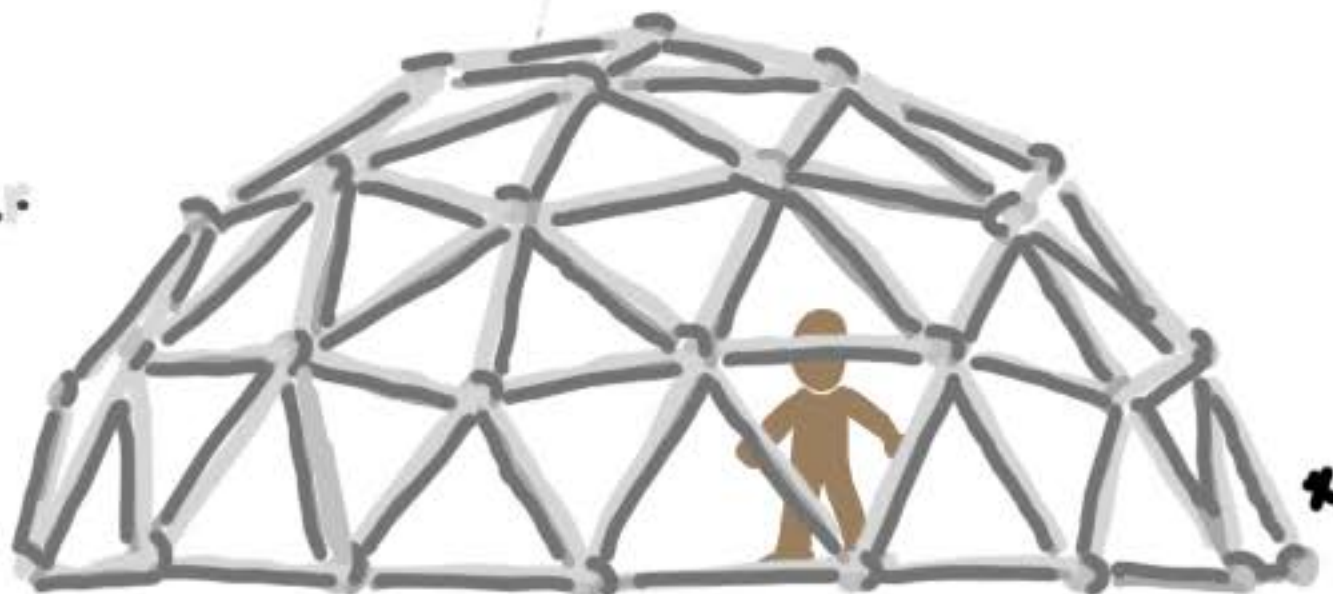
Blackbeard needed a means to brutally attack so he could optimize efficiency. His skull & crossbones signalled to his victims: surrender or you will suffer.



clean & orderly hospitals

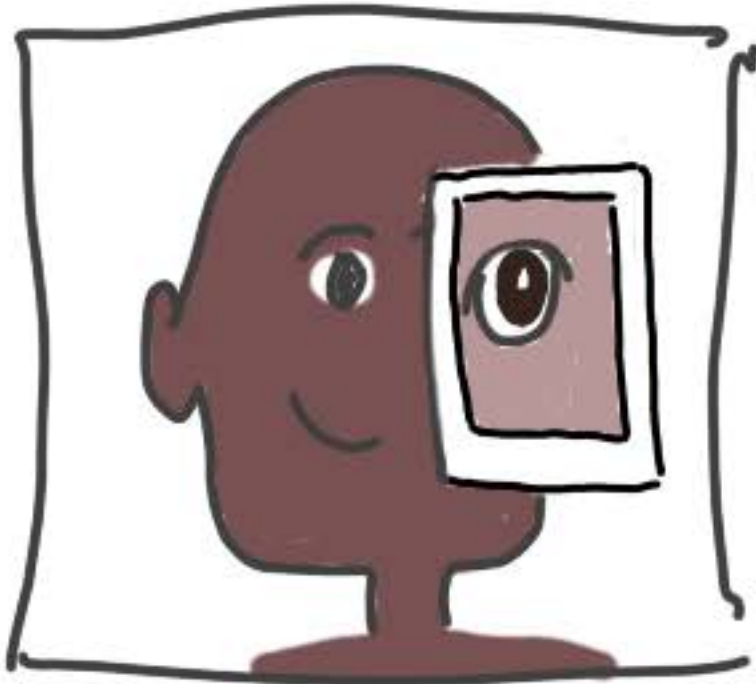
Florence Nightingale's family of privilege was horrified when she decided to work as a wartime nurse. She saw that order & cleanliness could prevent disease & death. It would become the Nightingale Ward. It became so imbedded to deviate was considered crazy.

Mahoney had approached design as an attitude not a profession. Richard Buckminster Fuller was routinely mocked. Like the flying car. but his makeshift shelter still help those in need today.





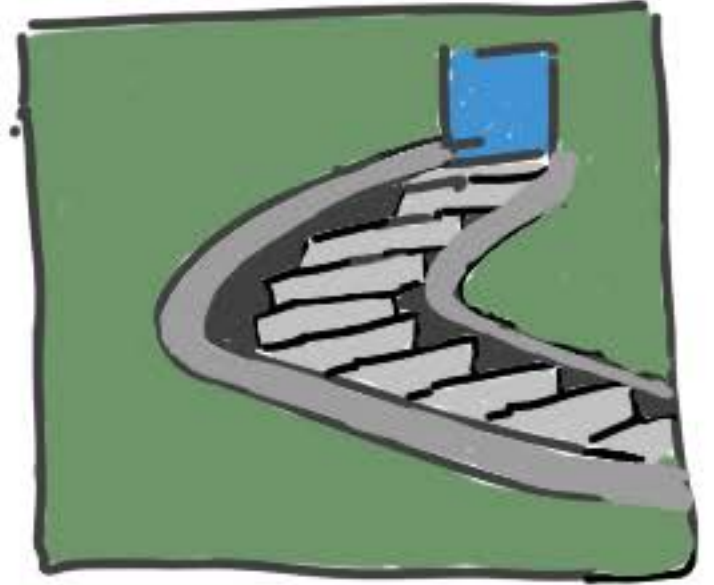
design can improve our lives. It benefits from the resourcefulness of its Rebels & Renegades. The divide that once separated professional designers w/ non-professional designers is closing w/ modern technology & social networks along w/ the internet of things



peake vista



transgender



environment

Amelva Harouda

this trip to TED is my first time when I live in Gaza. All borders are closed. All I can do is just look up 2 the sky. On lucky days we have electricity for 3 or 4 hours. journalist came to my homeland to tell our story. If its a story the govt does not approve of, bad things can happen. I wrote a story about ISIS put my life in peril.

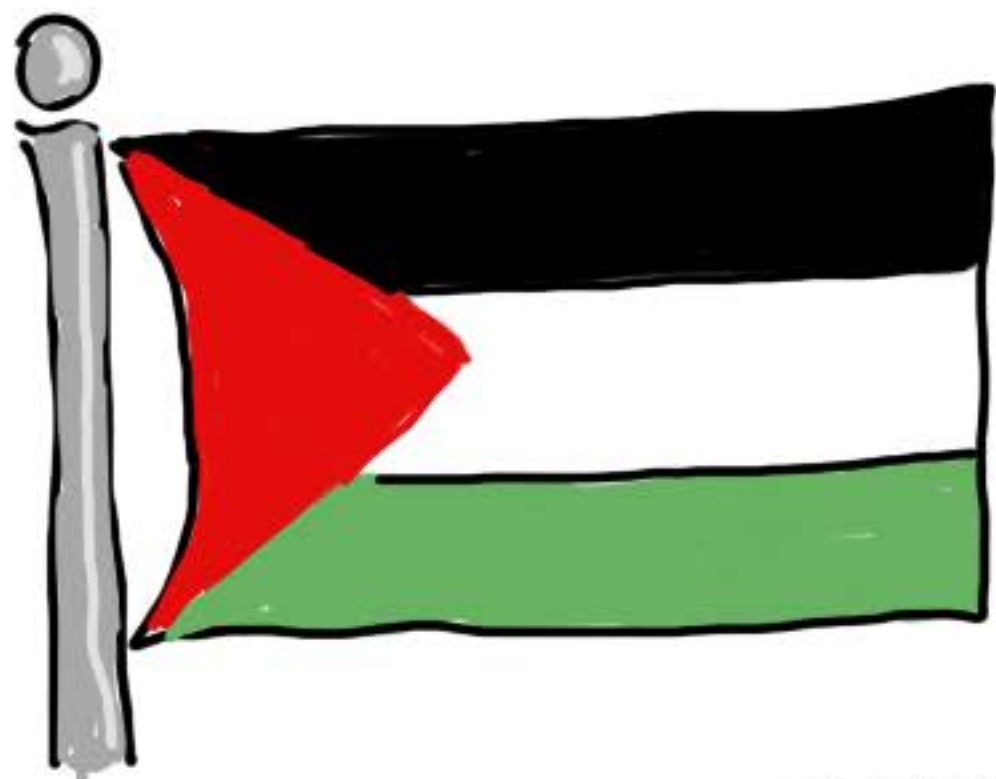


The communities in Gaza do not want their stories told. But they are people & need 2 be heard. Bc they trust me I can provide access. As a woman I am trusted more. There was a tunnel that provided needed supplies until the Egyptian side flooded it.

I have a wonderful husband who supports me despite criticism. He is at home now caring for our 2 kids. I was wkg w/ an american journalist when we were picked up by masked men, in a black van to a remote location so we could interview a kidnapper.



Not all the stories of my country are bad. There is life & dreamers. Gaza is the only place in the middle east where Christians & Muslims live together in brotherhood.



NOT ALL GAZA STORIES R BAD.

Being a fixer & journalist is hard. Even when I hear gun shots I run straight to it. I want to be there first. I have horrible nightmares from the horrors I've seen. I am proud to stay here & tell the sad & happy stories of my country. I am the 1st female fixer in my country & they call me Mr. Rambo.

Don't limit your challenge, but challenge your limit. Don't allow others to stand in the front of your dream.



# CATHERINE the "HOLOGRAM"

right now i'm stdg in the open air on a beach under a palm tree. I have 12 mins with you. Unlimited possibilities can be a creators obstacle. My whole life i've dreamed of eternal life. I'm 318 yo. The average life span is 400. The longer we live the less we want to die. Who can blame us? You can take



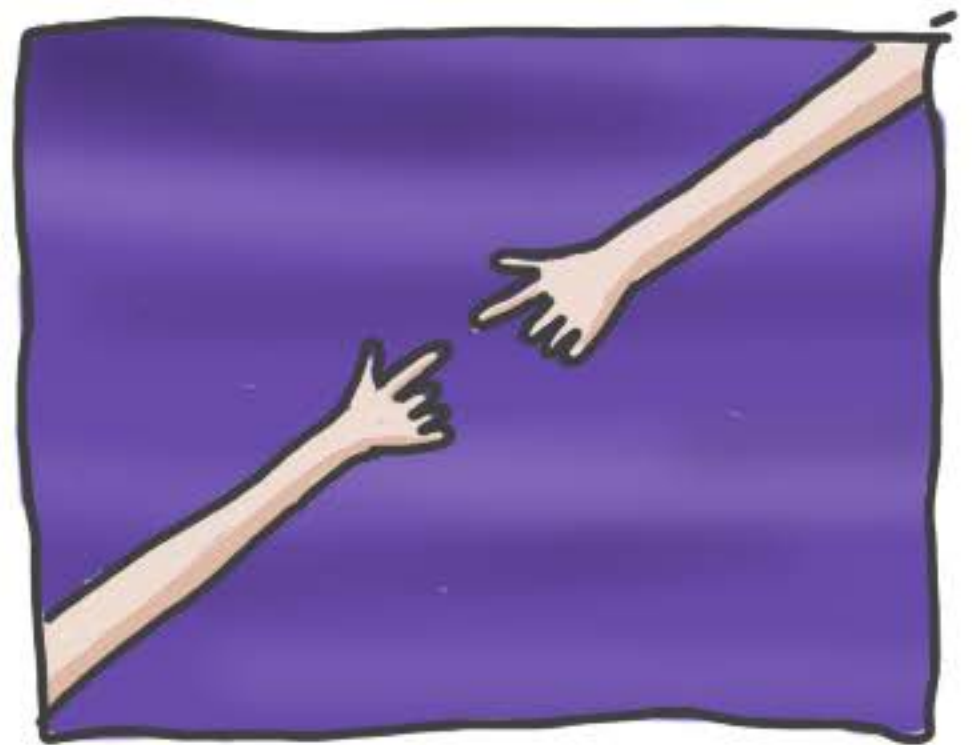
a boat & go island to island. You can touch sand touched by no others. the moon is rising. & I can see. New Tehran is where my wife Navid met. we bumped into each other I went to say sorry & she said why don't you think we passed through each other. Of course its bc elementary particles have mass. she chuckled & that is how our romance began. we never ever ran out of things to talk about. Our talk was like we were always making bread. Working the dough but

never baking it. If my lifes obsession was eternal life. here's is touch. she would ask pilar, why does this feel so good. I said its because the universe chose the constraints & these are ours. Its funny how people think about the



the future. In your time you thought earth was the only place people lived. In my time, earth is where people go to die. So when David showed the signs, I sent her to earth, but I came w/ her. My friends say I can't believe you think your love is so special that the rules don't apply to you. We are mass & all mass are subject to entropy.

I tried everything. And then I found a way to eternal life - the hologram. I ran to David to tell her & when I went to hug her I fell right through her. In saving her I had denied her what she valued most. touch!



perhaps we need death to value life. constraints don't constrain they provide freedom. I know the wind exists but I can't feel it. I have to find my way back to life.



"I know the wind exists, but I can't feel it."



## (12) WAKE UP

TSHERING TOBGAY

Prime Minister of Bhutan. This is our nat'l dress. My country is a small country is in the Himalayas. We've been called Shangri La



there are barely 700k of us positioned on China & India



CHINA



BHUTAN



INDIA

We are doing our best to survive. We are actually thriving bc we have been blessed with brilliant monarchs. Our holistic



approach is based not on GDP but GNI. Our entire GDP is \$2M. Our economy is small. but education is free. College free for those who work hard & Free health care. We focus on growth w/ values



High School

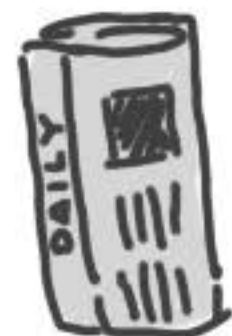


College



Health Care

Our culture is thriving. We celebrate our food, our architecture and our dress - which contains the world's largest pocket.





we govt mandates that 60% of Bhutan's land shall be maintained under forest cover at all times. This is written into our constitution. Our king imposed democracy on us. He also required that kings be impeachable. They must also retire at 65 yrs of age.

We are the only carbon neutral country in the world. Actually we are carbon negative. We are net carbon sink for 4B carbon. Today our clean energy exports to offset 20M tons of carbon dioxide.

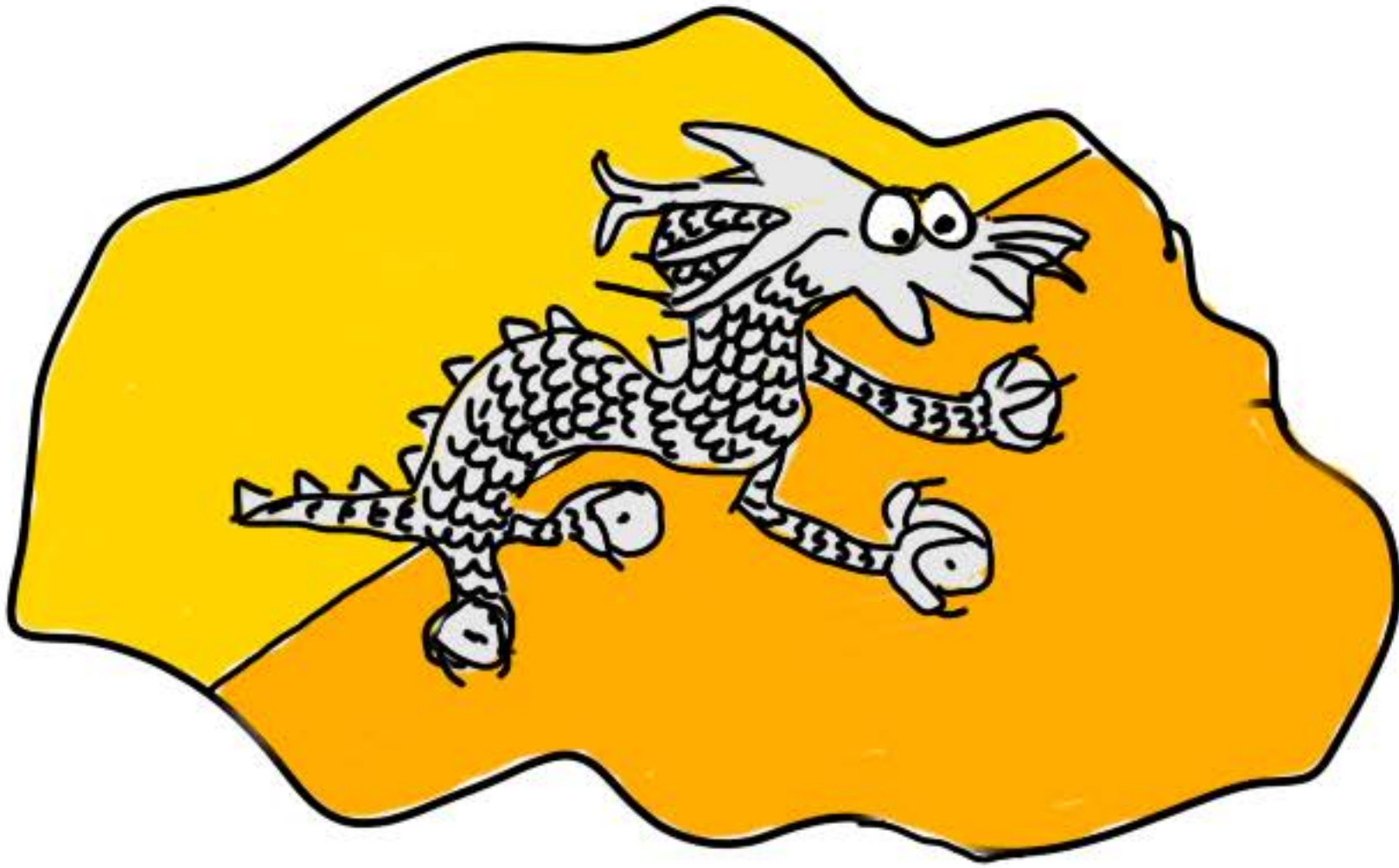
the world is getting warmed & climate chg is causing wide spread destruction. 20 yrs ago we had a solid glacier, today it is a lake. The glacier leaks have destroyed our towns.



We have done nothing to create this situation yet we suffer the brunt of others carbon emissions. We announced our desire to be carbon neutral in Copenhagen & no one cared. Recently we reiterated this claim in Paris & everyone cared. By keeping our commitment it can reduce the temp by 2° F.



We provide free electricity to our rural farmers. So they don't have to use firewood. Govt wants to go paperless. & our fleet of vehicles are clean. We've connected our green space w/ corridors that are green. It means our wildlife can freely roam

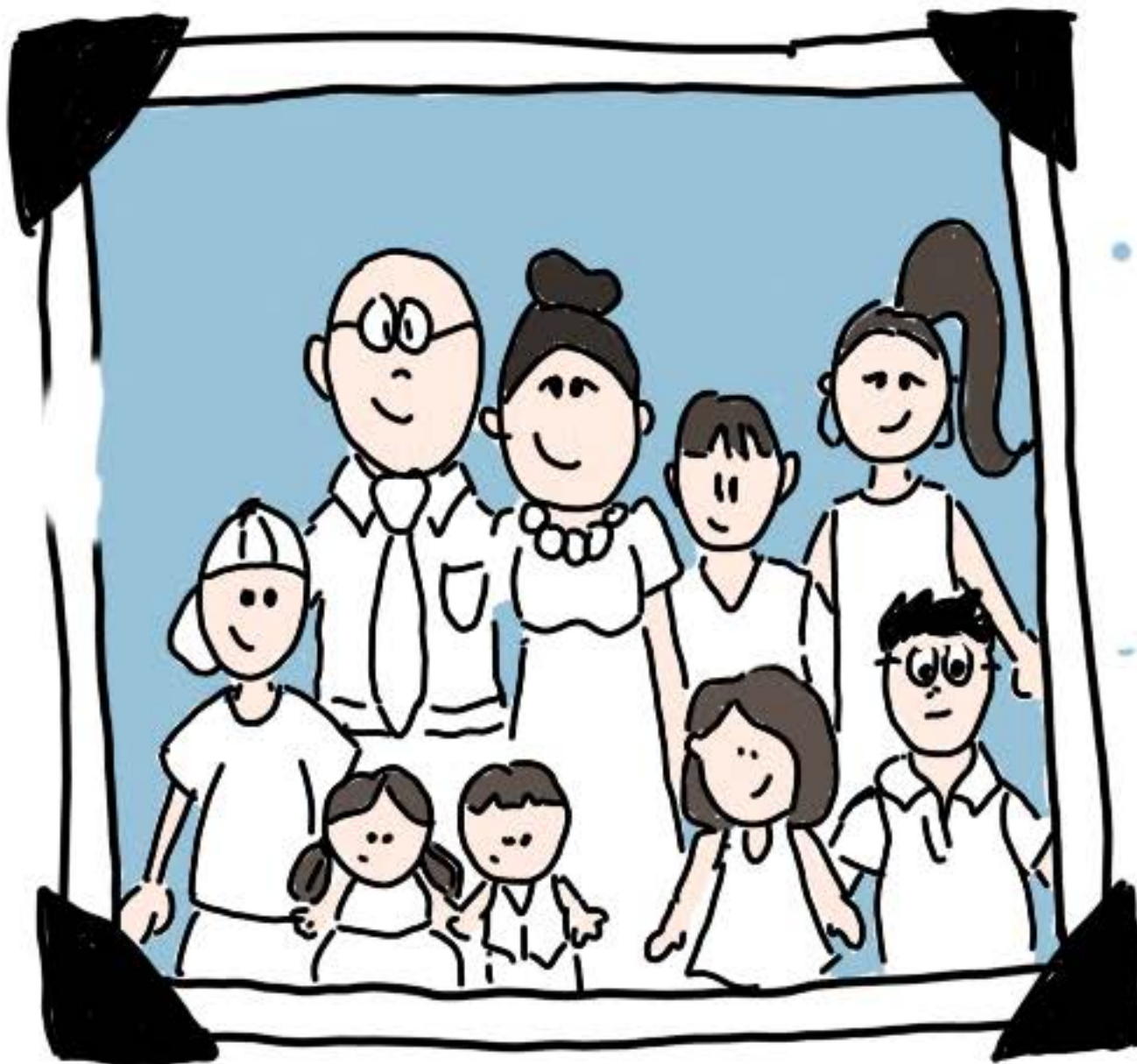


We dedicate resources to live in harmony w/ mother nature. But this is quite expensive. We know it will take 15 yrs to achieve our financial goals, but Bhutan and the world cannot wait. So we have started a \$45M donor transition fund. It is our 15 yr kickstarter project. Beyond that the gov't will fund \$35M. thereafter, it will be self sustaining.

This is our story... of how we R keeping our country clean for our children & yours. We are here to dream, so I dream of others duplicating our story.



SUE DESMOND-HELLMAN



I loved growing up in a big family. & I loved picking names. When the 7th child came along we went w/ jennifer, bridget,

But its not like that everywhere. Some parents delay naming their child for a month or more — for fear the baby will die.

Not daring to dream of a future. 2.6M babies die within their 1st month. WHY? We don't know.



2.6 Million babies die within the first month of life.



Neonatal means we have no idea. We can't fix what you can't define. There is a new approach that might help explain it & fundamentally chg healthcare.

precision  
medicine

precision  
health care

precision  
public health

As an oncologist I wanted to help people. but on the war on cancer was such that we made our patients feel worse. Hair loss, nausea. infection vulnerability. All because we couldn't target the bad from the good. Herceptin can target just the bad cells. It allows us to deliver medicine at the right time. This chgd everything.

This made me wonder if we could use this methodology to tackle public health w/ precision.

before cancer, I studied HIV/AIDS. 17M women live w/ HIV today. when they get pregnant, 1/2 w/ pass to the baby. 50% of these babies won't make it to age 2. We know in sub-Saharan Africa has a high density of women at risk. This can be treated. In fact, it has cut the incidence of passing HIV to babies, in those areas, in 1/2.



PRECISION MEDICINE



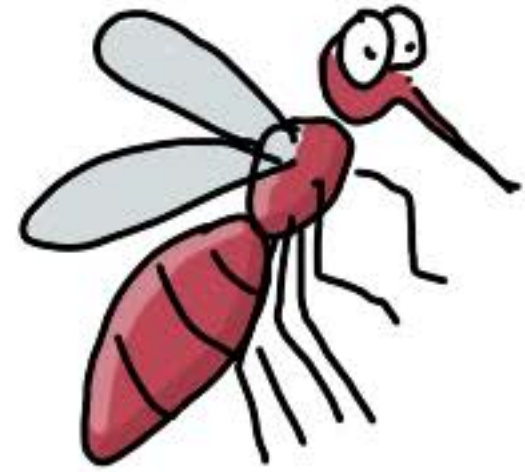
Group B Streptococcus may be the cause of an infant's death. If this is the case, that woman's next baby is 7x more likely to die. This can be prevented w/ penicillin. w/ use on precise public health. It work work on:



malnourish



cervical cancer

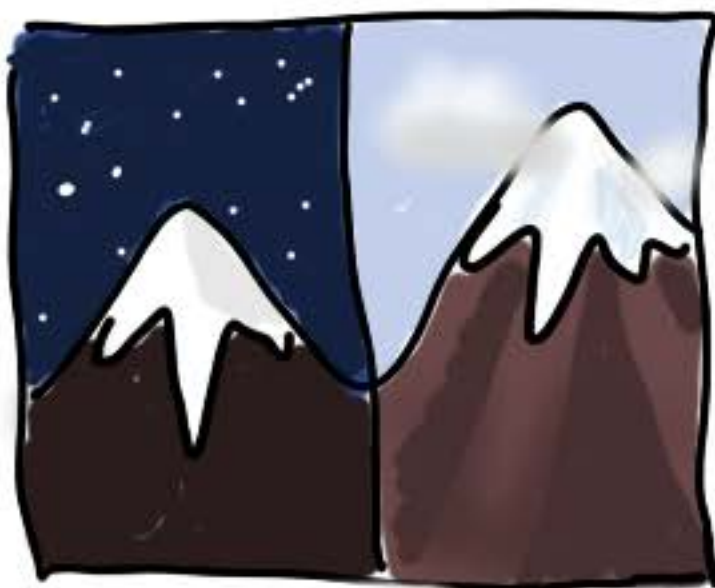


malaria

Everyday, the rich world has talent & tools to treat the wealthy. Surely we can use that resource to save babies in the poor world. Allow parent to dare to dream of their child's future in terms of decades, not days.



My passion is to create photographs that tell stories about a moment in time. But what if photographs can capture extended moments?



mountain



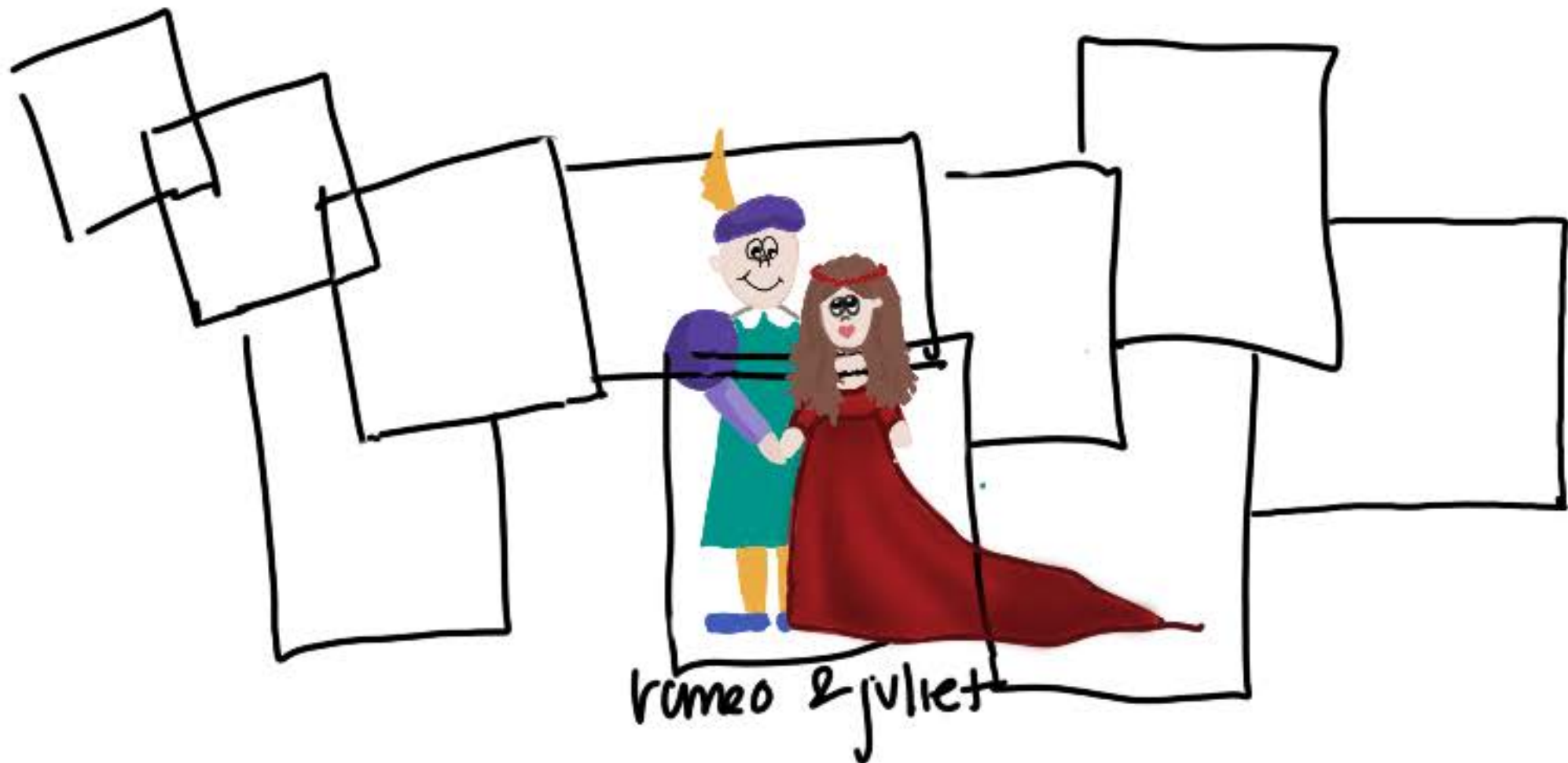
city



coast



Day to Night is a global project with a focus on history. My photo is not time lapse. I am a collector of incredible moments & I do not want to miss a single one.



To create these photographs. I have to decide where day begins & night ends.



Night

Day

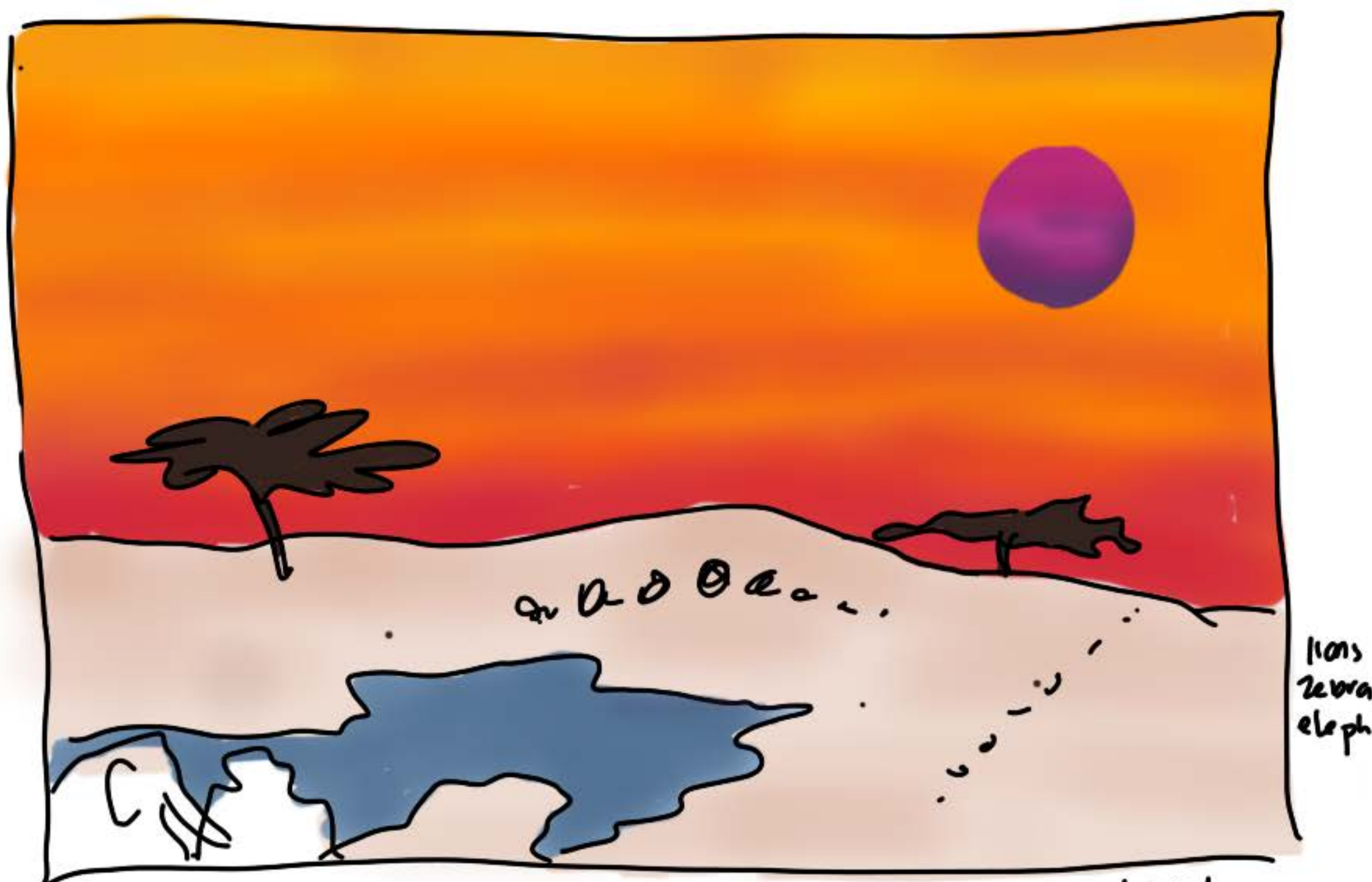


The act of sharing has become more important than the experience itself



"THE SELFIE AGE"





a broad spectrum of animals, many of which are natural enemies still found a way to share a singular and scarce source of water who even as much as a grunt to one another.

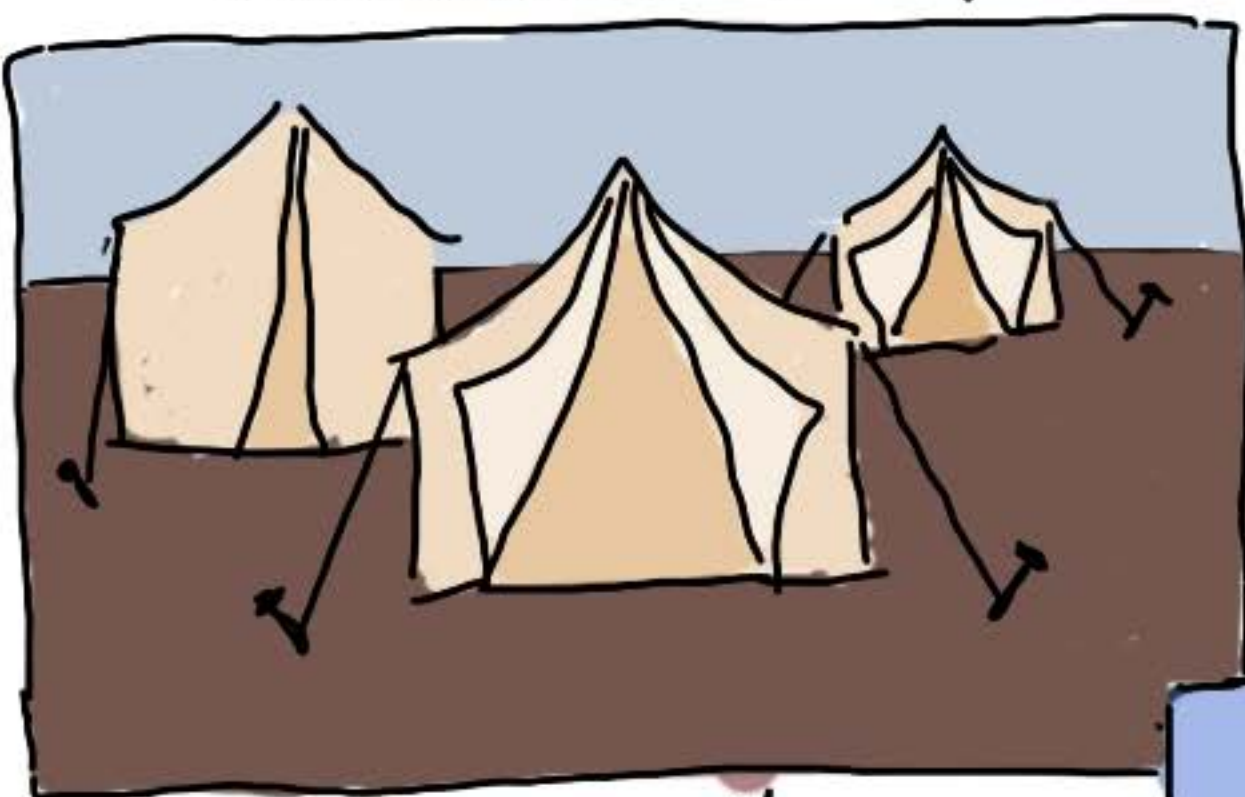
ALEXANDER BETTS

there 2 times I am ashamed to be European. More than a million came to us for help & our response has been pathetic. the world mourned the loss of a syrian refugee boy in the water yet 200 more have died since then. How has the situation come to this? Its not that people don't care. It is



our politicians don't have the vision to fix it. the modern refugee pgm was established after WWII. it is ideally suited for the syrian refugees. they have a right to seek asylum, integration or return where they came from. But in practice we have barriers to prevent this.

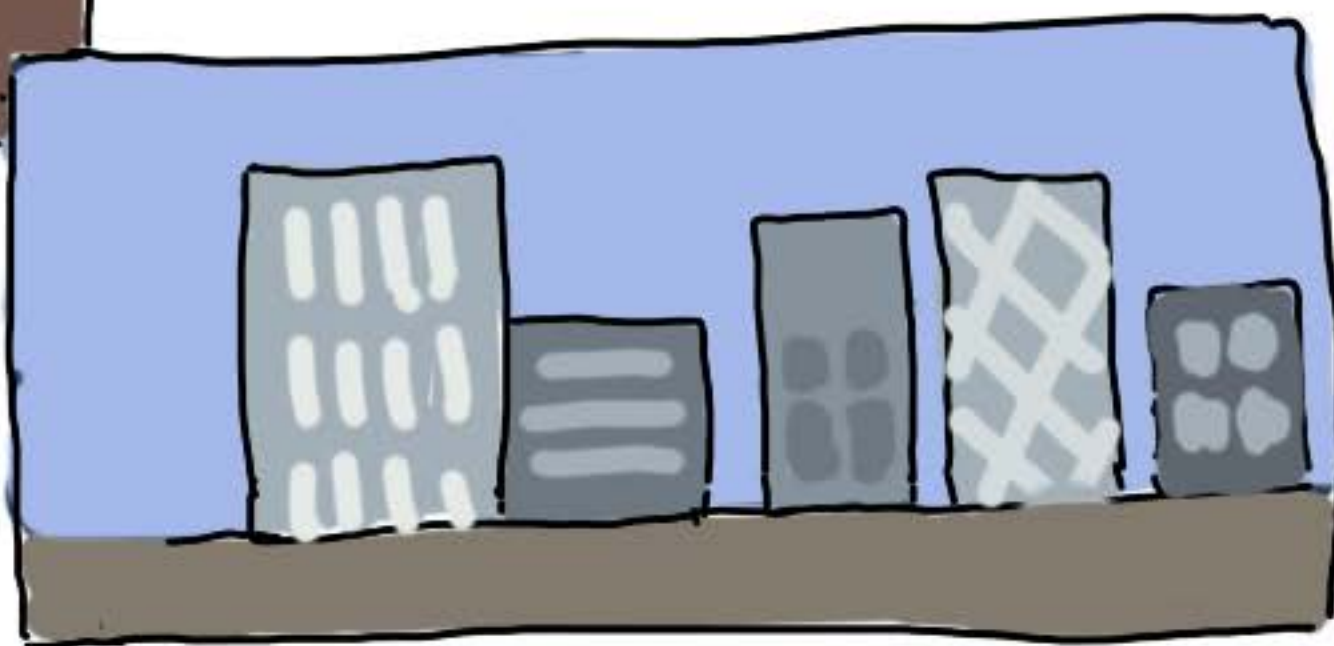
imagine smeera, a syrian woman w/ children. she cannot go home bc it's been destroyed. she has no hope of resettlement. Her options are:



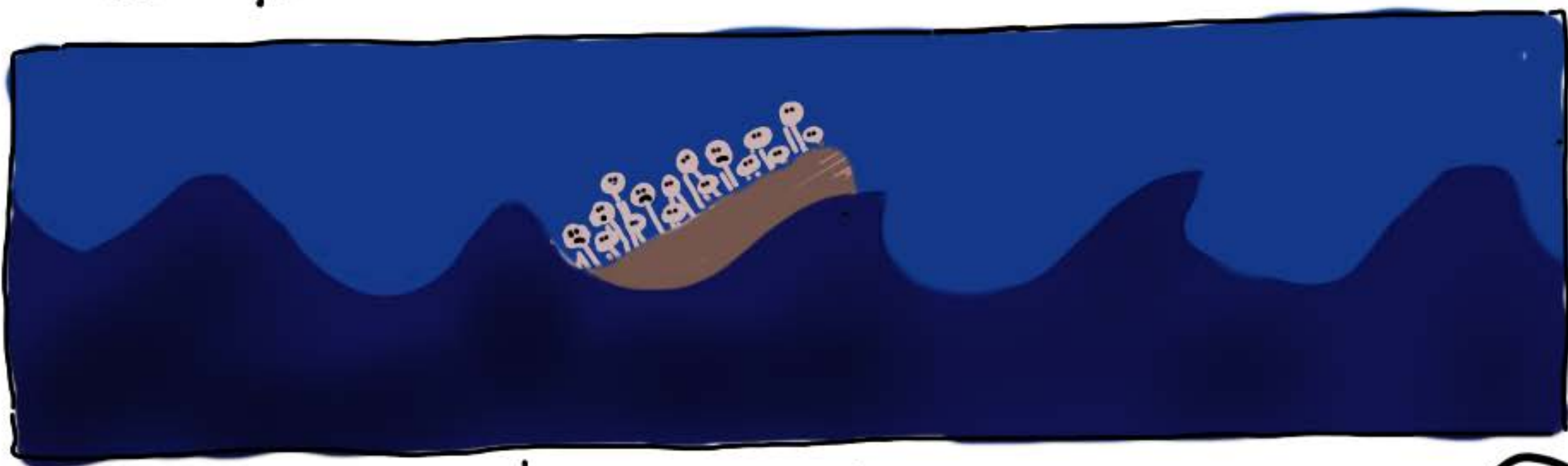
encampment.

Encampments r bleak, education is poor. 80% of those there must stay for 5 yrs. This is why only 9% choose this option.

Most choose this (80%+) but they cannot work there & economic strife is inevitable. testituta their fate.



Urban destination



dangerous journeys



we have a mistaken assumption that refugees are an economic burden. There are four ways for us to change this:

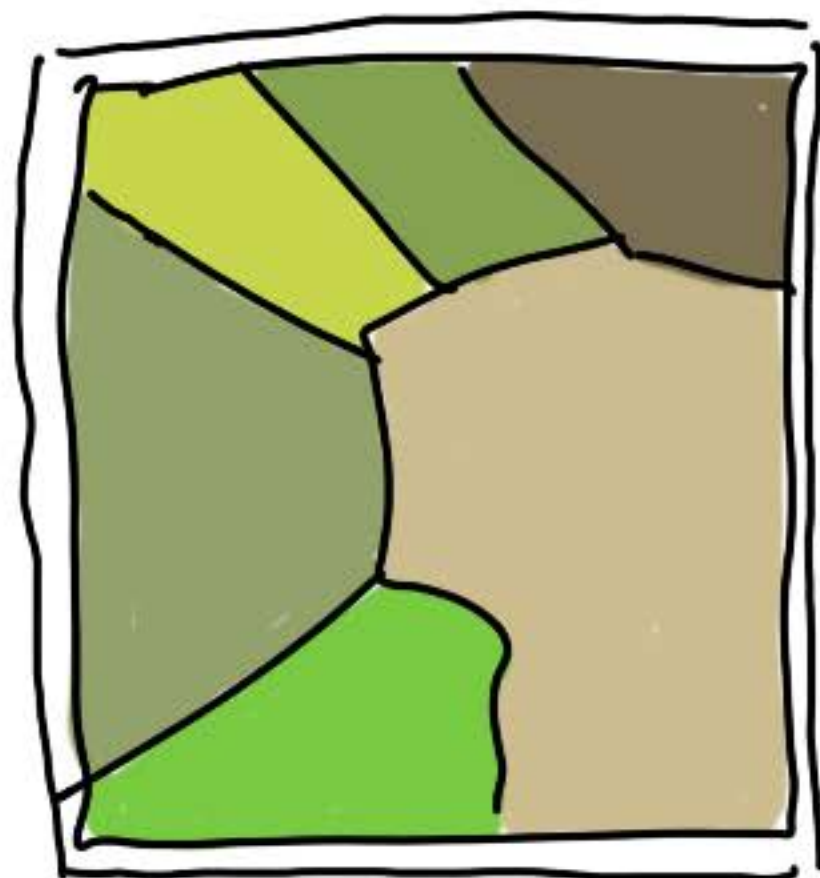
### 1) enabling environments



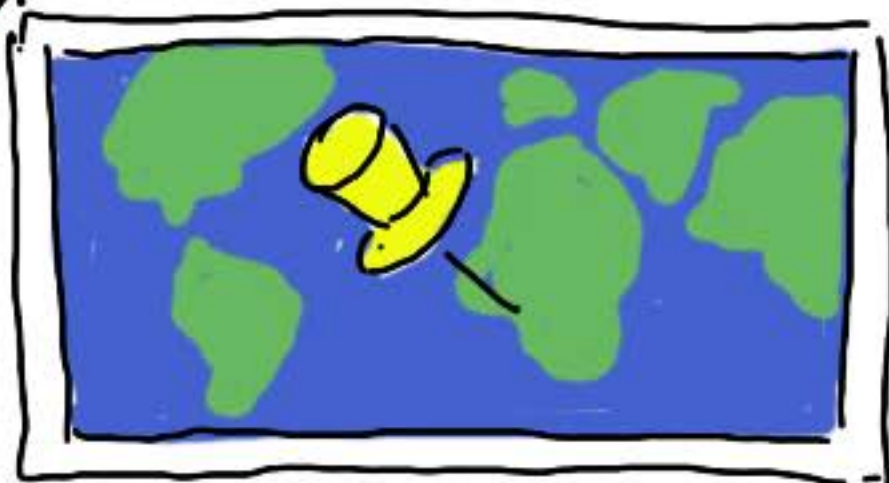
In Uganda we studied refugees where they were given economic opportunity & freedom of movement. 25% owned businesses, 40% of which employed people from the host country. Against the odds of extreme financial constraint, they are showing ingenuity.

### 2. Economic Zones

Most hosts don't open up their economies like Uganda. I traveled to Jordan where we integrated employment opportunities for hosts & refugees in dedicated economic zones. These refugees will go home w/ a skill.



### 3. preference matching.



Ask the refugee what is their preferred destination. & Hosts would identify their preferred skills, talents or profiles. It's like a dating site algorithm.



④ Humanitarian Visas . to seek asylum in Europe you must arrive spontaneously. if they were allowed to travel directly and avoid the otherwise risky & dangerous journey it cost \$1500 to smuggle a refugee, but they could secure inexpensive flights as low as \$300.



migration is not going away. we must wake up and find solutions.

AMANDA PALMER

& Al Gore

this is ground control  
to major Tom...



"10, 9, 8, ..... 1"



I'm not a prophet or a stone aged man

— david bowie



ERIN MCKEAN

If words could dream they would dream of being used in TED talks

procrastinate

chordstick

magnetar  
badass star

indigenomics  
-investigating economies  
of indigenous people

idiogenic  
motivated by  
✓ needed to  
accomplishments

lo-fab  
locally sourced  
made & used.

roustabout  
one who works  
in a circus

no-nothingism  
synonym for nihilism

hum  
900 yr old word

What other words did you hear at TED that is missing from the traditional dictionary?



I'm a journalist who looks for untold stories. The last few yrs I wondered what constitutes the 21st good life. We live in tenuous times - majority of parents do not think their kids lives will be better than their own. Of course this is counter to the American dream. But what does

# 4.7

AVE. JOB TENURE  
BY 2020

better off mean. Median income has been flat for many yrs. Home ownership is at lowest since 1995. The average job tenure is 4.7. By 2020, 1/2 of the workforce will be freeagents. By these stds, I get it. But are these the right standard

The art of living well is often practiced more successful w/ those most financially vulnerable. If invention is the mother of necessity. Then we are now in a period of consideration. My g: grandpa & gma had 21 kids. My dad removed his own braces when his parents said

How should we work? Like our mothers. - creating patchwork of need & money, "making it work", or portfolio employment. Labor is a way of knowing. What we work on is what we understand. By prioritizing childcare, they excess at the human cond's. Don't ask what do u want 2 be when u grow up, rather how do u want to be.



we need health care, reinvent labor organizing, overhaul the notion of bringing home bacon.

2. How should we live? Like immigrants, making do for the many. Self possession, the white picket fence, & isolated is outdate. Intertwined, in 5M living in intergenerational hh. 2/3rds say its improved their Q & L. Co-abode has 50k users, particularly popular w/ those over 50. Solitude is giving way to solidarity.

I've been living in a co-op. there are 9 units. 25 tenants, we shr a kitchen & have common meals 2x/wk. We r committed to radical hospitality. Every single person is worthy of kindness.

We shr physical & emotional labor. Teens seek out advice from adults not their parents. It is proven to be healthier for teens & adults



The New Better Off - sets new stds of success. A mediocre earning but a fabulous father. I am not attribute to my grandmother if I think you can buy your way out of suffering. Our insecurity can make us brittle or supple. the danger is achieving a dream you don't actually believe in.



# CASEY GERALD

dreamer. Doer. Texan.

We were packed into a TX church on the last night of our lives. There was suspense, hope for salvation.

This was 12.31.99, the night of the 2nd coming, the end of the world. I was 12 yrs old. I went to church as often as I could. If I was not taken in the

rupture there was a second chance - to fight the anti christ. At 11:50 we took our places in prayer. The baptist

bourgeoisie took place of prominence at the altar. Behind them were the elderly. They waited. My grandmother was among them. I was confident my gma was going to heaven & I tightly held her hand w/ hopes she'd take me with her. Then someone said Amen! It was

over. The elders were disapp'td. they had been duped. Now

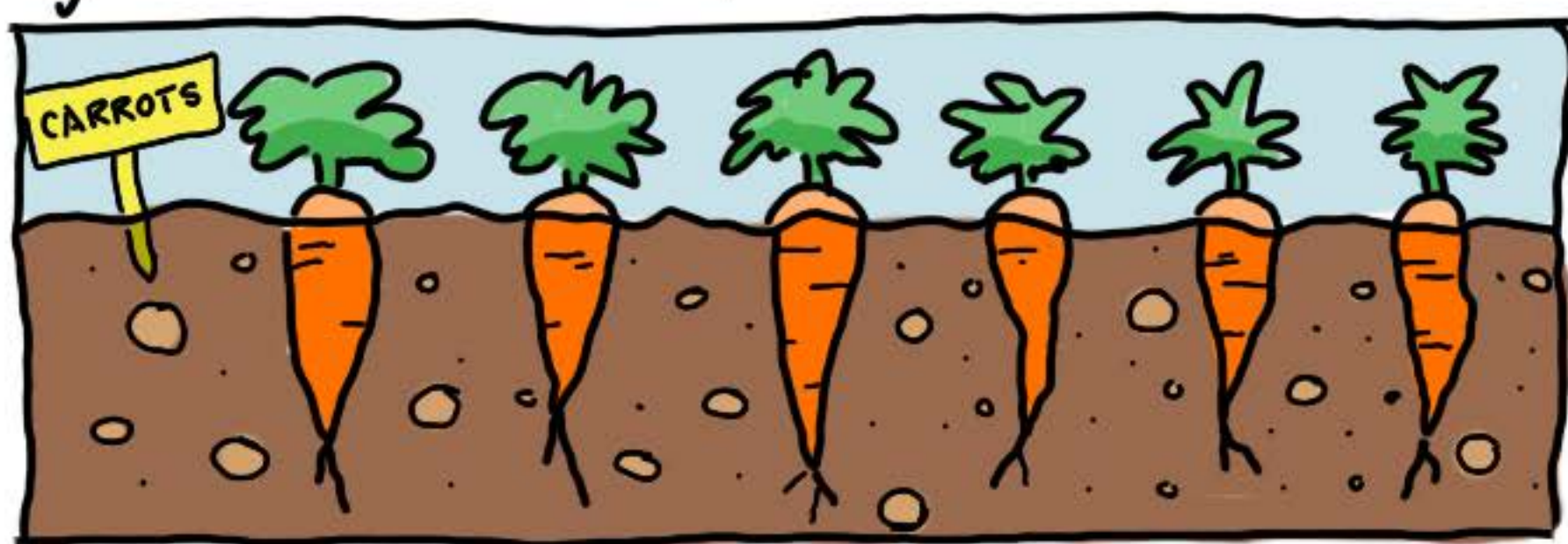
what? I got home in time to see the ball drop & it struck me it would have been ridiculous for Jesus to come back again & again w/ each time zone. I did not stop believing, but a spring of doubt had begun. My mother had left, my father refused to

care & my God had not come for me. Years later, I held





hope even when I was robbed at gunpoint at Harvard,  
I held out when I started working at Lehman brothers  
in 2008. I had hope when politics brought a wave of  
Chg as a promise, yet again my hope stayed. As I walked  
on my MBA, we felt the call of a road trip in the summer of  
08. we made 8K miles. Along the way we stumbled across an  
idea called MBAs across America. It gave me my purpose & I  
eagerly spread the word. Two days after a Harvard reunion  
I ran across an urban farm in Harlem - it was the only  
source of food for many in the area. Tony the man who  
ran the place said 100 people pitched in. For some children  
it might be their only meal.



I realized my story stood in for all those who needed  
to pick themselves up by the bootstraps w/o any boots.  
Ghame washed over me. I had been duped. I followed a  
false savior. I'd come so far yet ended right where we  
started. We need to believe. We see suffering as a  
necessarily evil. We fail to question one brick for fear  
that it will shake our entire foundation. I'm here to  
spread the gospel of doubt. - It is possible we are  
wrong. W/ all the power we have, why do people still suffer.

“THERE MUST BE ANOTHER WAY.”