

PROCESS BOOK

2023

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COURSE	GDVX 734 Typographic Voice & Visual Narrative
PROFESSOR	Sohee Kwon

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01 PERSONA PRESENTATION



Mark Rober

YouTuber | Engineer | Inventor

AGE

41

NATIONALITY

American

EARLY CAREER

- NASA Mechanical Engineer
- Apple Product Design Engineer

EDUCATION

Mechanical Engineering, Master's Degree
University of Southern California
2010 - 2014

Mechanical Engineering, Bachelor's Degree
Brigham Young University
1998 - 2004

BIO

He is known for his YouTube videos on popular science and do-it-yourself gadgets. During his time at NASA, Rober began making viral videos. His videos cover a wide variety of topics, sparking ideas for April Fools' Day pranks and teaching about tricks like beating an escape room and filming primates in zoos non-invasively. He advocates for science, making videos testing the ability for sharks to smell blood in water, fluidized sand and water purification. He really pays attention to chose the topic of his video and only makes 12 videos per year.

01 PERSONA PRESENTATION

EXPERIENCES

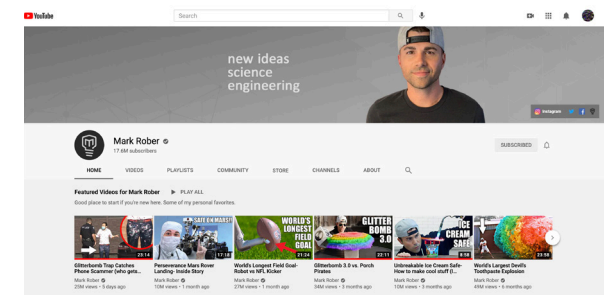
Before YouTube, Rober was an engineer with NASA for 9 years where he spent seven of those years working on the Curiosity rover at NASA's Jet Propulsion Laboratory. He later worked for four years at Apple Inc. as a product designer in their Special Projects Group, where he authored patents involving virtual reality in self-driving cars.

In an interview with WIRED back in 2013, Rober admitted that it was "a little bit scary" when he left his NASA career to create innovative Halloween costumes, but it was "such a cool opportunity" and one of the things in life that he just has to try and see how it unfolds.

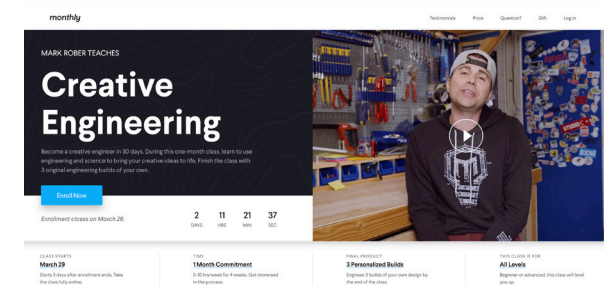


NOW

YouTube Channel (2011 - Now) 17.6M Subscribers



Online Engineering Courses



02 RESEARCH

2011



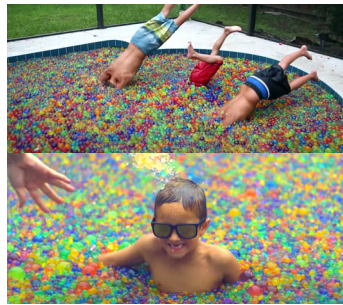
iPad2 Halloween costume

He went to a Halloween party and had tried out his costume idea of using 2 iPads with a FaceTime chat to make it look like he had a huge hole in his stomach.

2016



Water balloon + trampoline
<Slow motion>



25 million water gal beads in a pool
<sink or flow>



World's largest nerf gun



Survive a grenade blast

2017



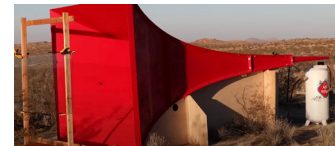
How to measure how much pee is in the pool



World's largest water gun



Liquid sand hot tub



World's largest horn



Glitter bomb with porch pirates

02 RESEARCH

2019



Swim in jello pool



World's largest elephant toothpaste experiment

2020



Car vs. world's strongest trampoline



Shark attack test- human blood vs. fish blood



Unbreakable ice cream safe

02 RESEARCH

MOTIVATIONS & PURPOSE

From the interview of ABC News, Mark Rober mentioned that he always interested in science, physics, and math. Most of his video is coming down to physic principals. He also tries to explain to people that “this world is magical, but in a way that if you understand how it works. So you can predict the future and make cooler things.”

He is passionate about getting people stoked about science and engineering. His video will suck people in with something big. For example, world’s largest nerf gun or world’s largest horn. It’s all about telling people the science of what is going on there.



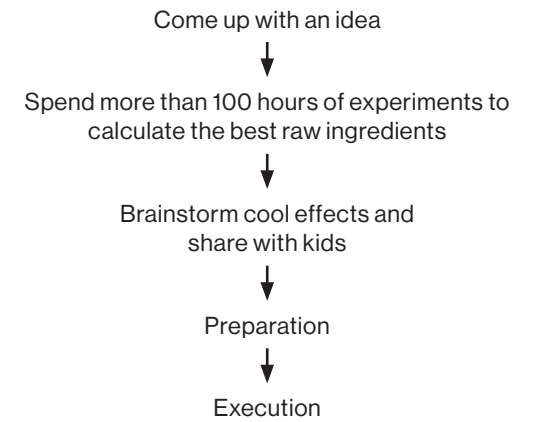
INTERESTING PROJECT

World’s Largest Elephant Toothpaste Experiment

If you mix yeast with hydrogen peroxide, the hydrogen peroxide will rapidly break down into water and oxygen gas. The oxygen gas forms bubbles. These bubbles would usually escape from the liquid and pop quickly. But adding a little dish soap provides additional surface tension, allowing the bubbles to get trapped and creating lots of foam. This foam looks like a giant squeeze of toothpaste—almost big enough for an elephant.



WORKING PROCESS



02 RESEARCH

HOW TO CREATE ELEPHANT TOOTHPASTE



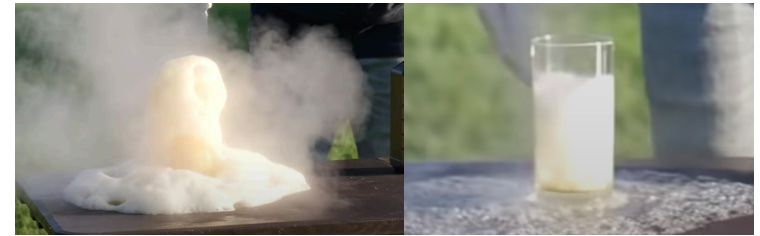
Hydrogen Peroxide 3% (6%)

+



Potassium Iodide

→



Chemical Reaction Happened Instantly



Hydrogen Peroxide 3%(6%)

+



Potassium Iodide

+



Dish Soap

→

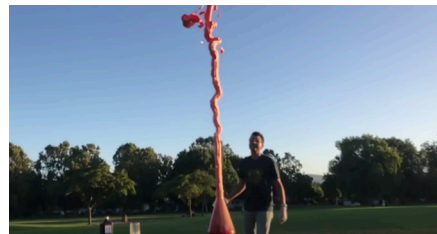


Bubbles and Foam

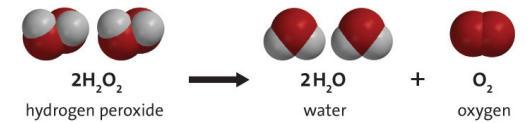


Food Color & Flask

→



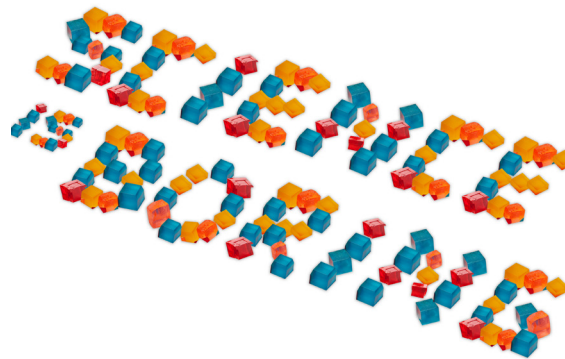
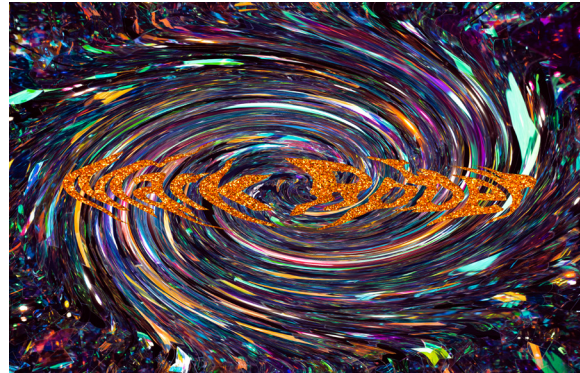
Success



03 IMAGE COLLECTING WITH TYPE

EXPERIMENT 01 - PHASE / WORD LIST

Things Get Wild
Mark Rober
Science is Boring
World's Dryest
World is No Longer True



03 IMAGE COLLECTING WITH TYPE

EXPERIMENT 02 - TYPOGRAPHY EXPLORATION

Things Get Wild

Mark Rober

Science is Boring

World's Dryest

World is No Longer True

Mark Rober

Mark Rober

Mark Rober

Mark Rober

Mark Rober

Mark Rober

Mark Rober

Mark Rober

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MARK ROBER

Mark Rober

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Mark Rober

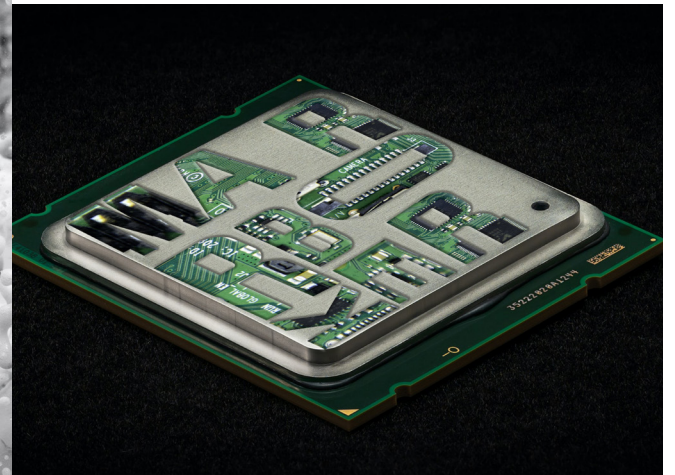
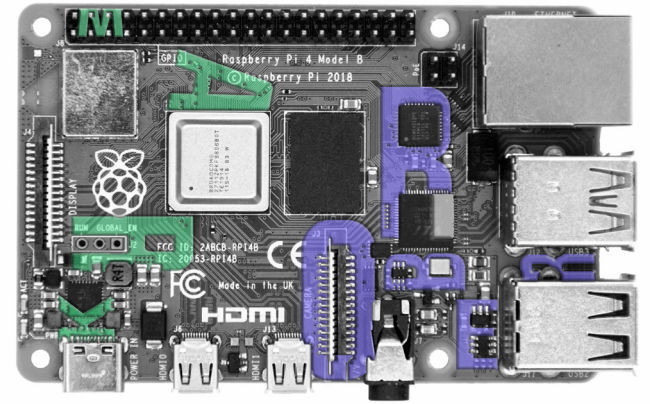
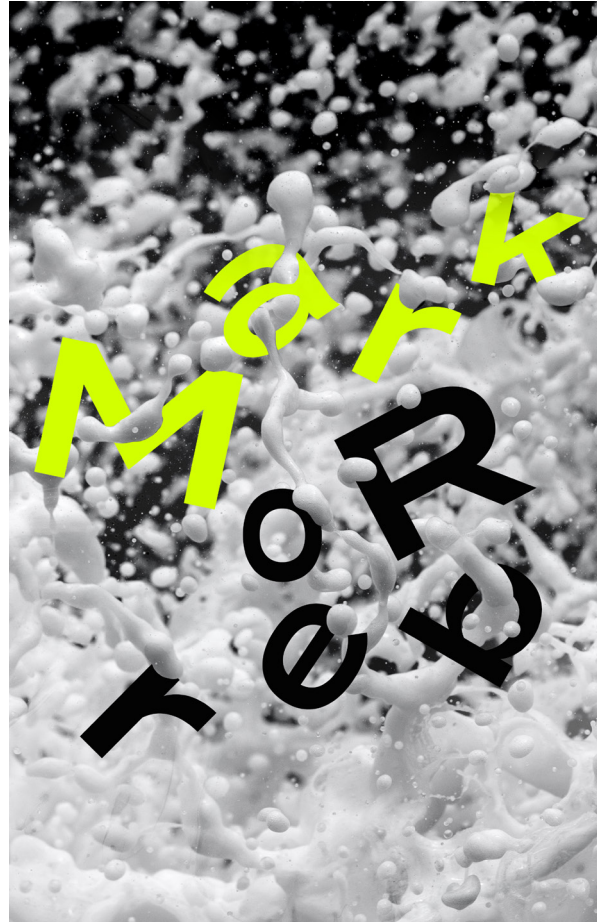
Mark Rober

Mark Rober

03 IMAGE COLLECTING WITH TYPE

EXPERIMENT 02 - TYPOGRAPHY EXPLORATION

Things Get Wild
Mark Rober
Science is Boring
World's Dryest
World is No Longer True



03 IMAGE COLLECTING WITH TYPE

EXPERIMENT 02 - TYPOGRAPHY EXPLORATION

Things Get Wild
 Mark Rober
 Science is Boring
 World's Dryest
 World is No Longer True

Science is Boring

Science is Boring

Science is Boring

Science is Boring

SCIENCE IS BORING

Science is Boring

Science is Boring

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Science is Boring

SCIENCE IS BORING

Science is Boring

Science is Boring

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Science is Boring

Science is Boring

03 IMAGE COLLECTING WITH TYPE

STAGE 1 | PRINT OUT LETTERS

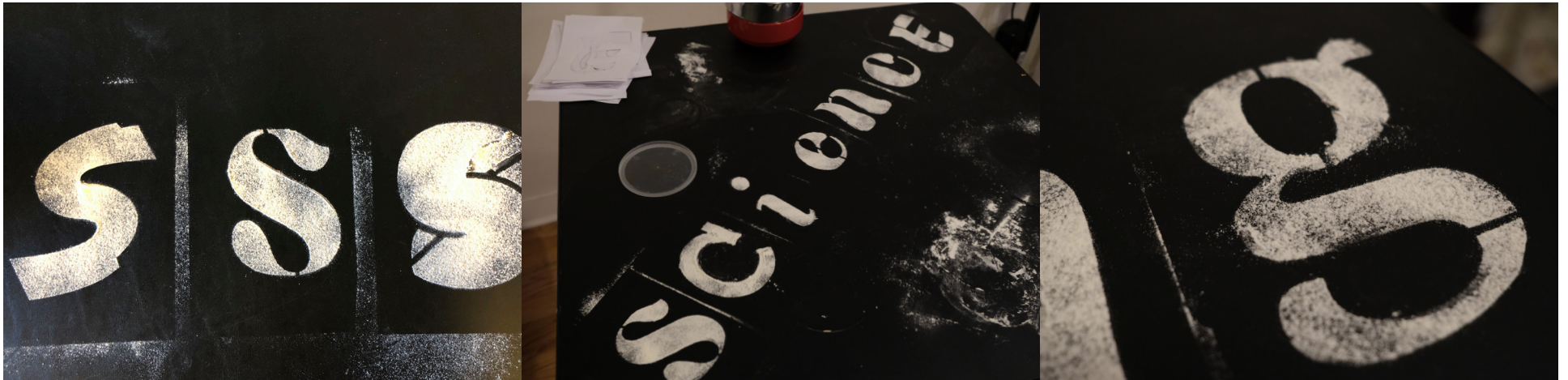


STAGE 2 | CUT OUT SHAPES



03 IMAGE COLLECTING WITH TYPE

STAGE 3 - RE-PRINT LETTERS BY USING FLOUR

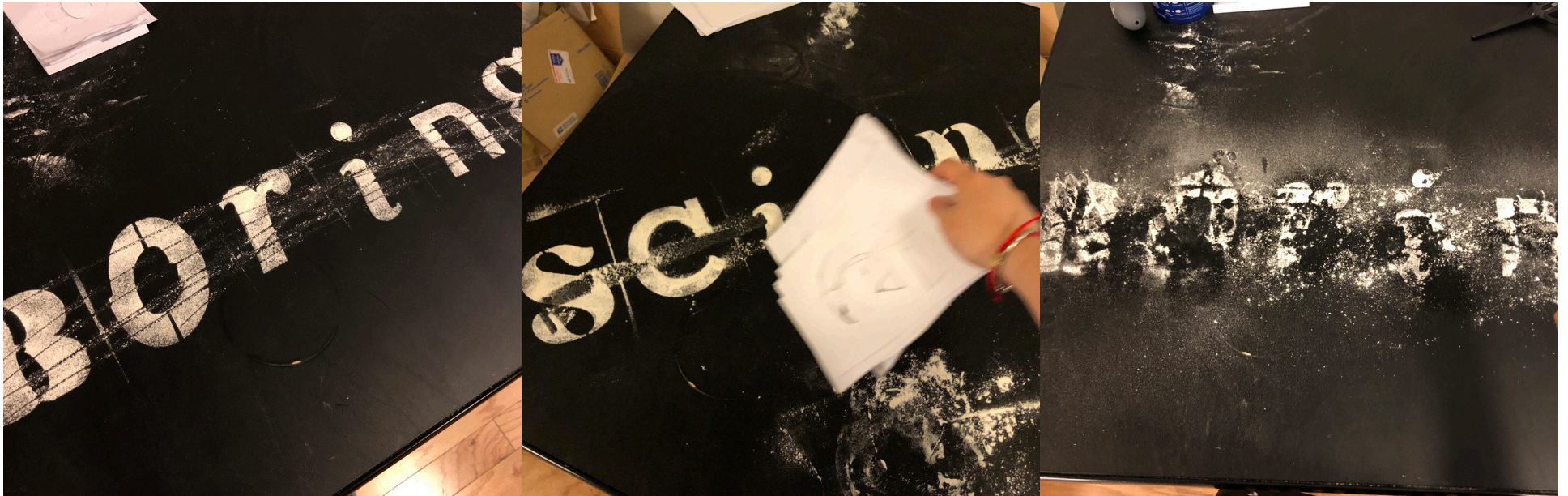


STAGE 4 | DESTROY



03 IMAGE COLLECTING WITH TYPE

STAGE 4 - DESTROY



03 IMAGE COLLECTING WITH TYPE

EXPERIMENT 02 - TYPOGRAPHY EXPLORATION

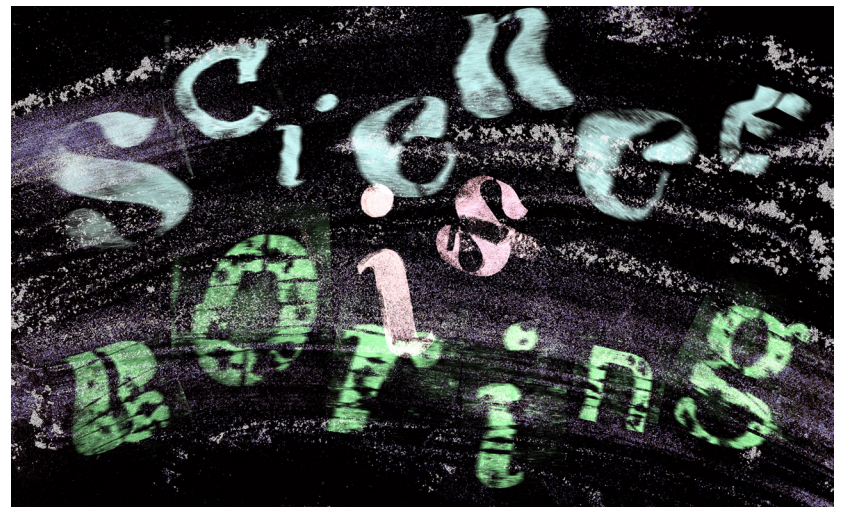
Things Get Wild

Mark Rober

Science is Boring

World's Dryest

World is No Longer True



03 IMAGE COLLECTING WITH TYPE

STAGE 1 | PREPARE JELLO



03 IMAGE COLLECTING WITH TYPE

STAGE 2 | PLAY WITH THEM



03 IMAGE COLLECTING WITH TYPE

EXPERIMENT 02 - TYPOGRAPHY EXPLORATION

Things Get Wild

Mark Rober

Science is Boring

World's Dryest

World is No Longer True

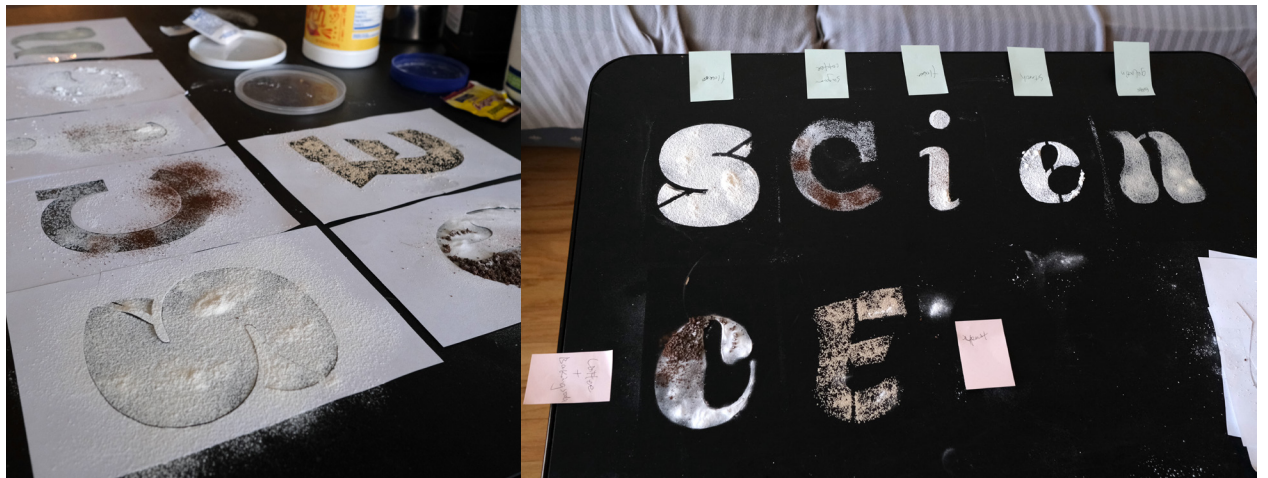


03 IMAGE COLLECTING WITH TYPE

EXPERIMENT 03 - FURTHER EXPLORATION

I used paper to recreate the mold of the letters that I am going to print. I also considered using different ingredients to create the letters and try to capture every chemical reaction which happens on them.

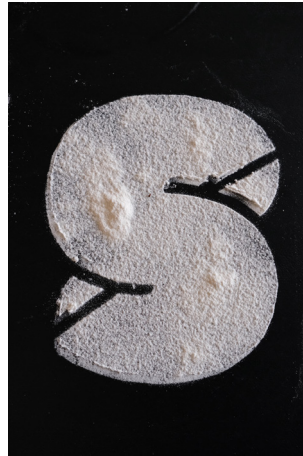
I labeled the ingredients of every letter with sticky notes.



03 IMAGE COLLECTING WITH TYPE

EXPERIMENT 03 - FURTHER EXPLORATION

This is the effect before I adding other materials and ingredients.



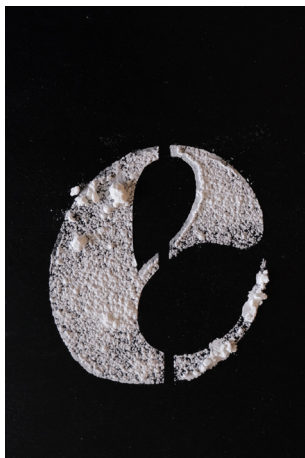
Flour



Sugar + Coffee Powder



Four + Coffee



Starch



Gelatin



Coffee + Baking Powder



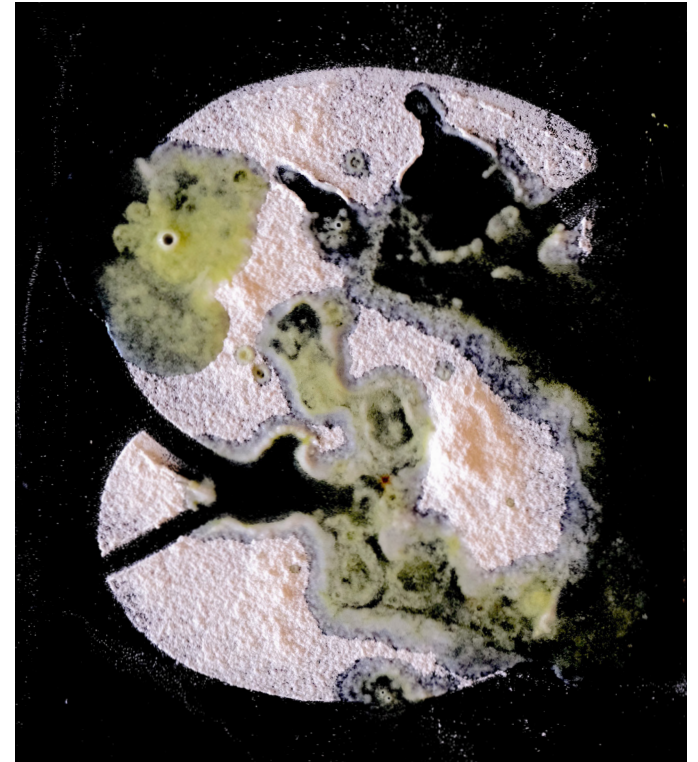
Yeast

03 IMAGE COLLECTING WITH TYPE

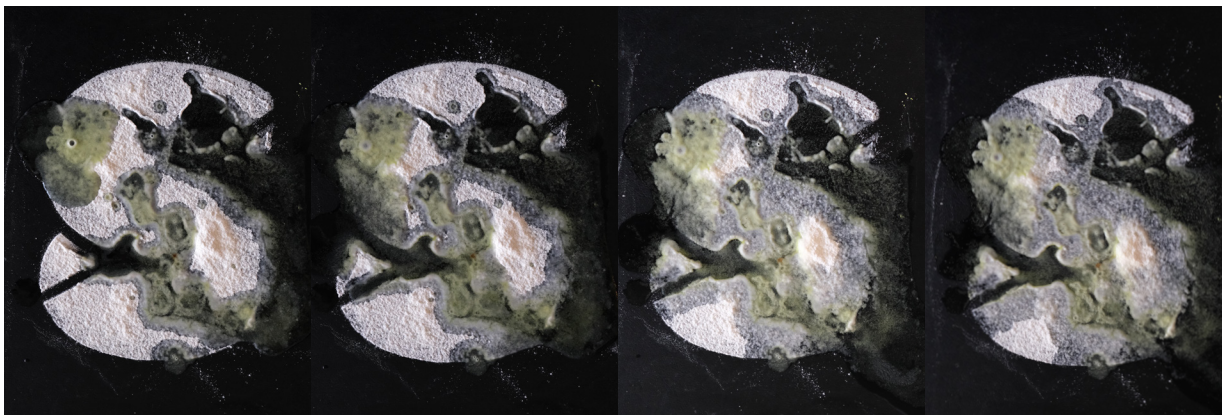
EXPERIMENT 03 - FURTHER EXPLORATION



Flour



Edit Contrast



+ Vinegar
+ Food Color

10 Minuets Later

30 Minuets Later

03 IMAGE COLLECTING WITH TYPE

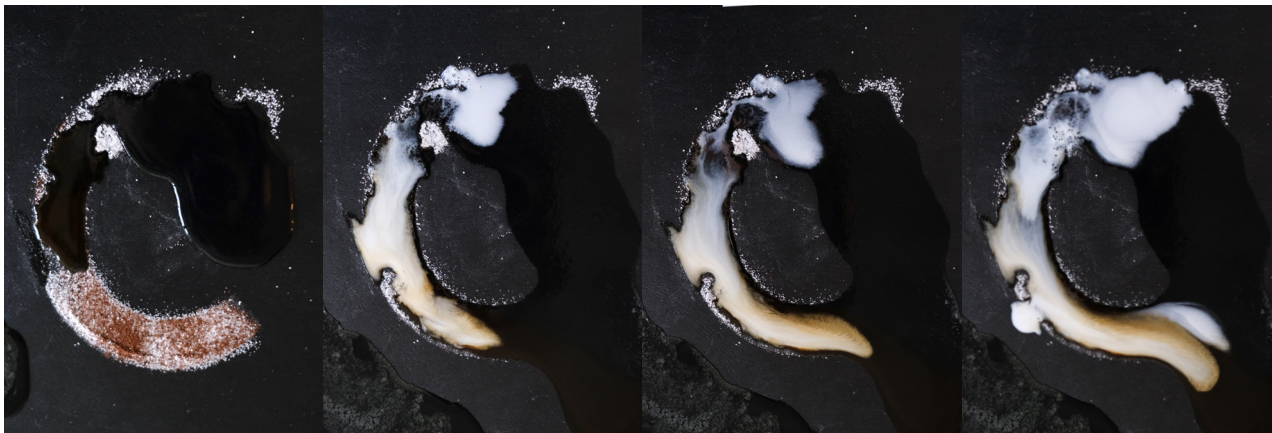
EXPERIMENT 03 - FURTHER EXPLORATION



Sugar + Coffee



Edit Contrast



+ Water

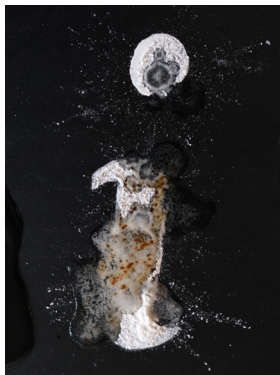
+ Creamer

03 IMAGE COLLECTING WITH TYPE

EXPERIMENT 03 - FURTHER EXPLORATION



Four + Coffee



+ Beer



Edit Contrast



Starch



Edit Contrast



+ Beer

03 IMAGE COLLECTING WITH TYPE

EXPERIMENT 03 - FURTHER EXPLORATION



Gelatin



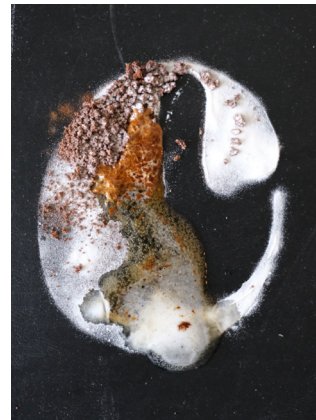
Edit Contrast



+ Water



Coffee + Baking Soda



+ Beer



+ Beer + Creamer



Edit Contrast

03 IMAGE COLLECTING WITH TYPE

EXPERIMENT 03 - FURTHER EXPLORATION



Yeast



+ Hydrogen Peroxide



Edit Contrast

03 IMAGE COLLECTING WITH TYPE

EXPERIMENT 03 - FURTHER EXPLORATION



Dry Gelatin



+ Food Color

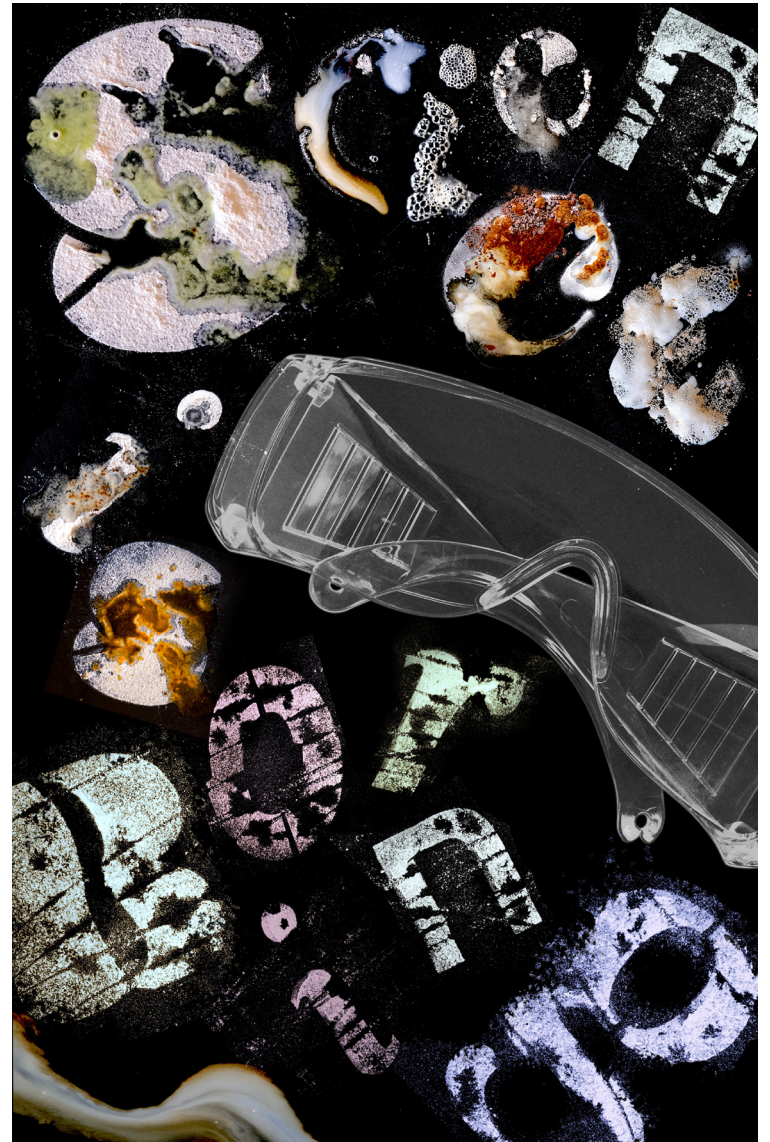


Edit Contrast

03 IMAGE COLLECTING WITH TYPE

EXPERIMENT 03 - FURTHER EXPLORATION

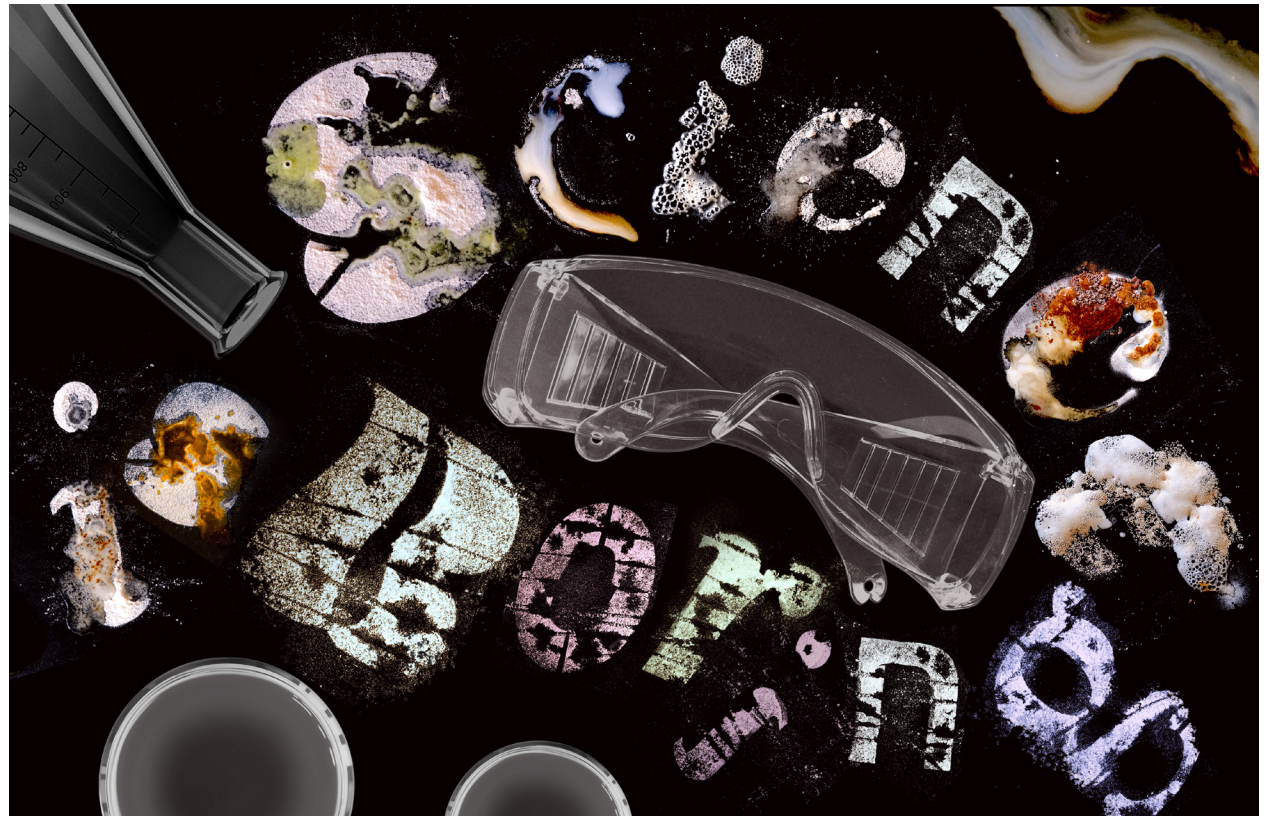
Science is Boring



03 IMAGE COLLECTING WITH TYPE

EXPERIMENT 03 - FURTHER EXPLORATION

Science is Boring



03 IMAGE COLLECTING WITH TYPE

EXPERIMENT 03 - FURTHER EXPLORATION

Big Kids

Big Kids

BIG KIDS

Big Kids

Big Kids

Big Kids

Big Kids

Big Kids

BIG KIDS

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03 IMAGE COLLECTING WITH TYPE

EXPERIMENT 03 - FURTHER EXPLORATION

Big Kids

Big Kids

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BIG kids

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BIG kids

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BIG kids

03 IMAGE COLLECTING WITH TYPE

EXPERIMENT 03 - FURTHER EXPLORATION

Big Kids



03 IMAGE COLLECTING WITH TYPE

FINAL OUTCOME

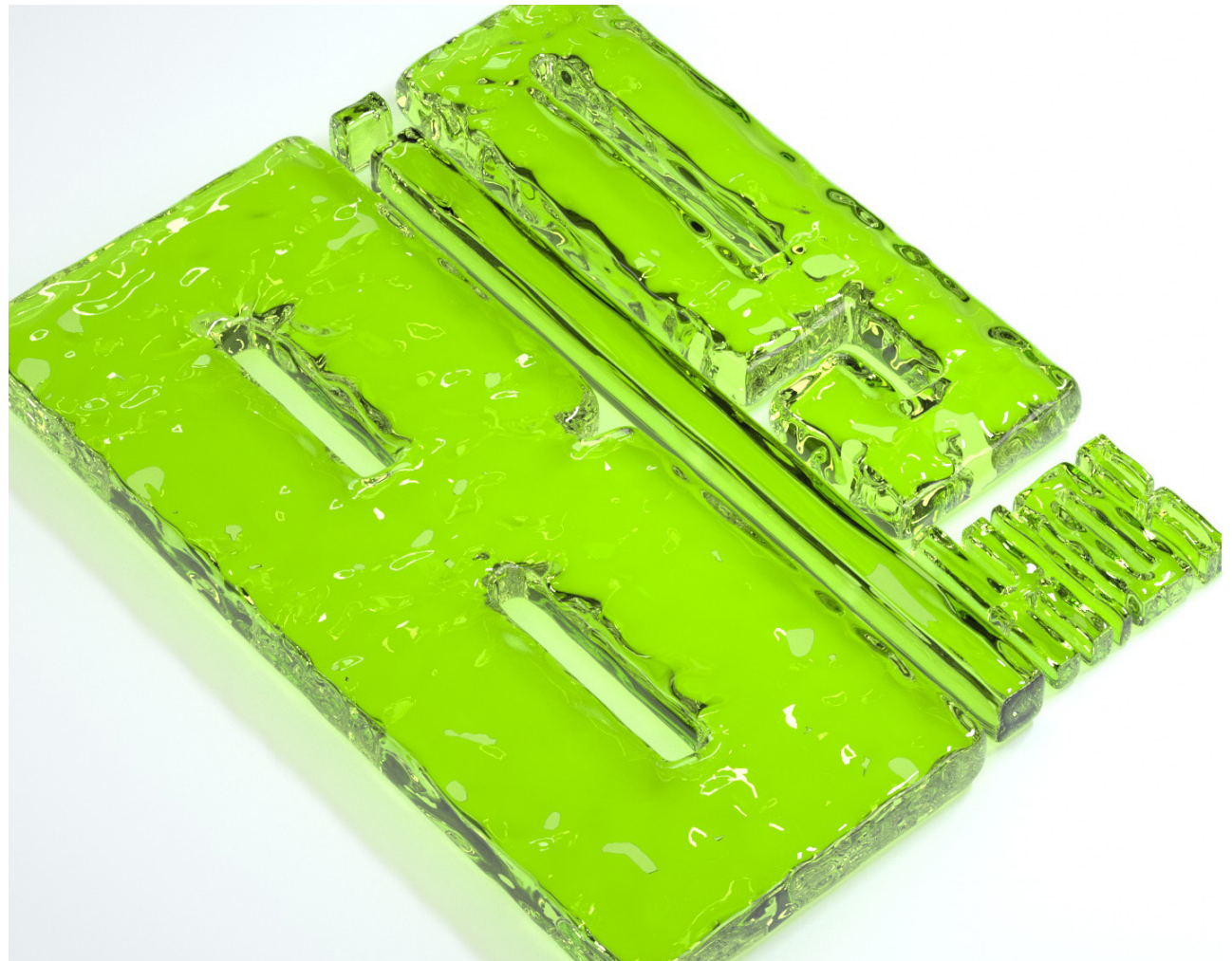
Science is Boring



03 IMAGE COLLECTING WITH TYPE

FINAL OUTCOME

Big Kids



03 IMAGE COLLECTING WITH TYPE

EXPERIMENT 01 - WORD LIST 02

Imagination
Suck You In
Hello
The Worlds is No longer True
Idea
Bait



03 IMAGE COLLECTING WITH TYPE

EXPERIMENT 01 - WORD LIST

Imagination

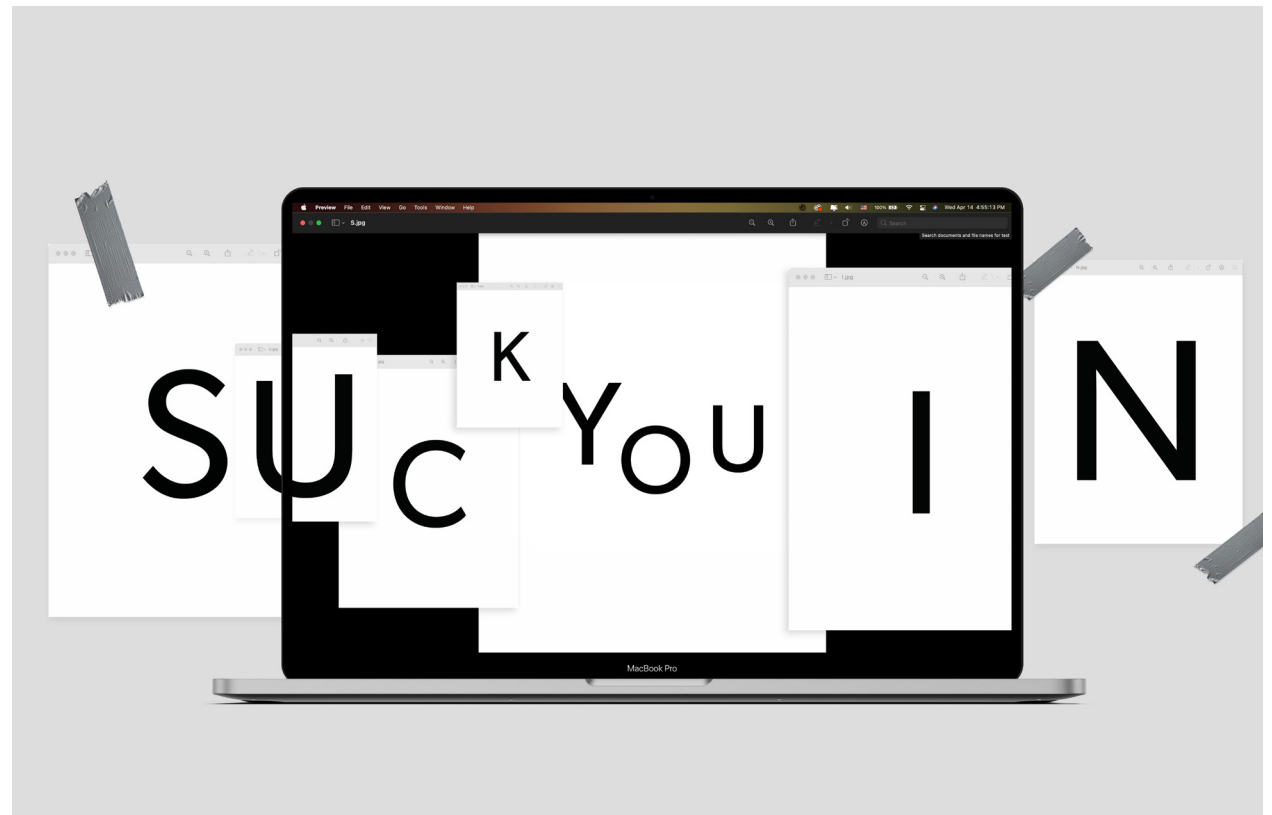
Suck You In

Hello

The Worlds is No longer True

Idea

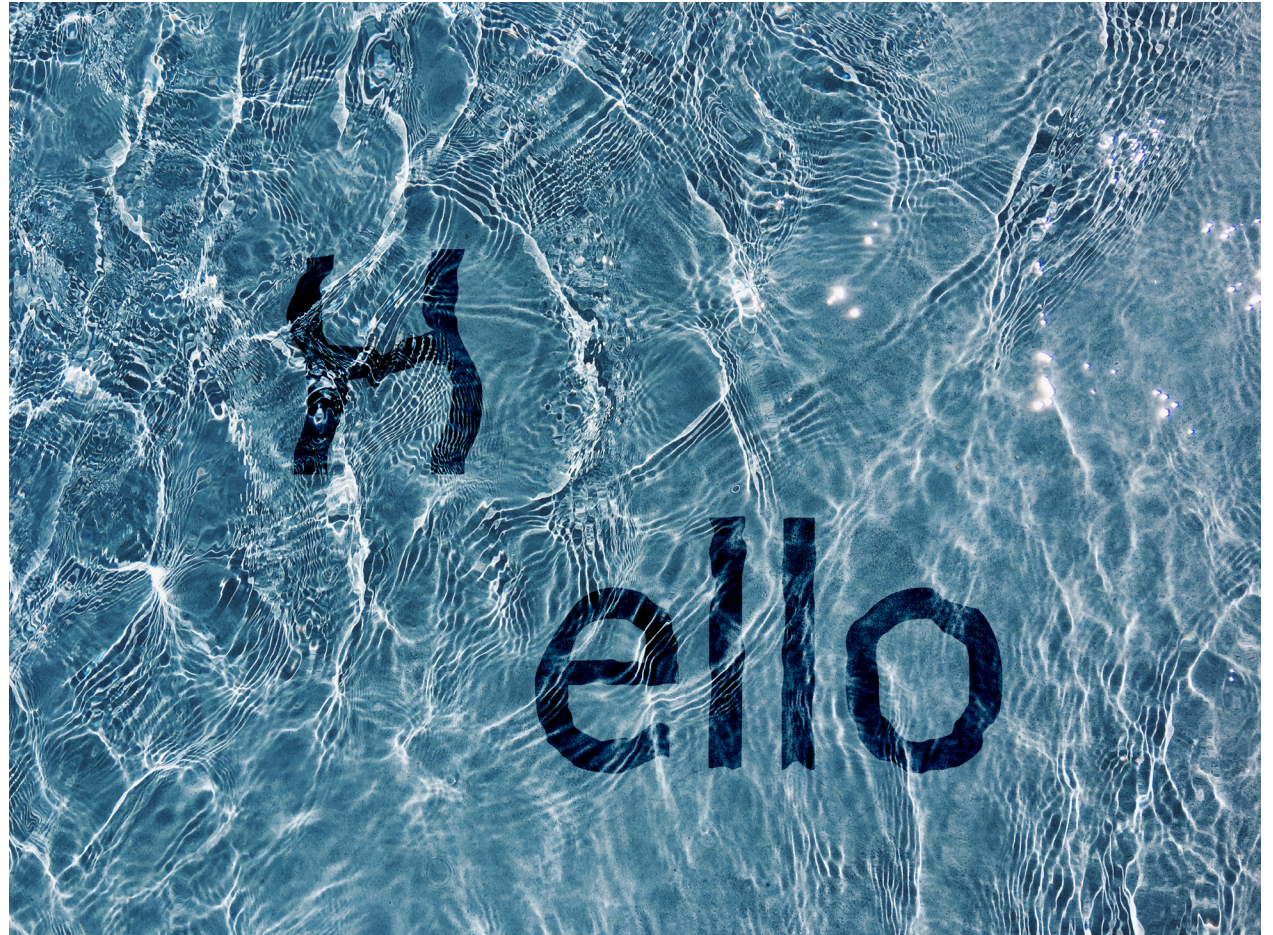
Bait



03 IMAGE COLLECTING WITH TYPE

EXPERIMENT 01 - WORD LIST

Imagination
Suck You In
Hello
The Worlds is No longer True
Idea
Bait



03 IMAGE COLLECTING WITH TYPE

EXPERIMENT 01 - WORD LIST

Imagination

Suck You In

Hello

The Worlds is No longer True

Idea

Bait



03 IMAGE COLLECTING WITH TYPE

EXPERIMENT 01 - WORD LIST

Imagination
Suck You In
Hello
The Worlds is No longer True
Idea
Bait



03 IMAGE COLLECTING WITH TYPE

EXPERIMENT 01 - WORD LIST

Imagination
Suck You In
Hello
The Worlds is No longer True
Idea
Bait



03 IMAGE COLLECTING WITH TYPE

EXPERIMENT 02 - TYPOGRAPHY EXPLORATION

Imagination

Imagination

Imagination

imagination

imagination

imagination

imagination

imagination

imagination

imagination

imagination

imagination

imagination

imagination

imagination

03 IMAGE COLLECTING WITH TYPE

EXPERIMENT 02 - TYPOGRAPHY EXPLORATION

Imagination



03 IMAGE COLLECTING WITH TYPE

EXPERIMENT 02 - TYPOGRAPHY EXPLORATION

Largest

Largest

Largest

Largest

Largest

Largest

Largest

Largest

Largest

Largest

Largest

Largest

Largest

Largest

Largest

03 IMAGE COLLECTING WITH TYPE

EXPERIMENT 02 - FURTHER EXPLORATION

Largest



03 IMAGE COLLECTING WITH TYPE

EXPERIMENT 02 - TYPOGRAPHY EXPLORATION

The World is No Longer True

TRUE

True

True

TRUE

TRUE

True

True

TRUE

True

TRUE

TRUE

TRUE

TRUE

TRUE

TRUE

03 IMAGE COLLECTING WITH TYPE

EXPERIMENT 02 - TYPOGRAPHY EXPLORATION

The World is No Longer True



03 IMAGE COLLECTING WITH TYPE

EXPERIMENT 03 - FURTHER EXPLORATION

I tried to capture the real texture of cotton candy and use it on the letter.

I let the light come through cotton candy, and I'd be able to capture the layers of the textures.



03 IMAGE COLLECTING WITH TYPE

EXPERIMENT 03 - FURTHER EXPLORATION

I also made the use of the printer. Use it to scan the texture of the cotton candy.



03 IMAGE COLLECTING WITH TYPE

EXPERIMENT 03 - FURTHER EXPLORATION

Imagination



03 IMAGE COLLECTING WITH TYPE

EXPERIMENT 03 - FURTHER EXPLORATION

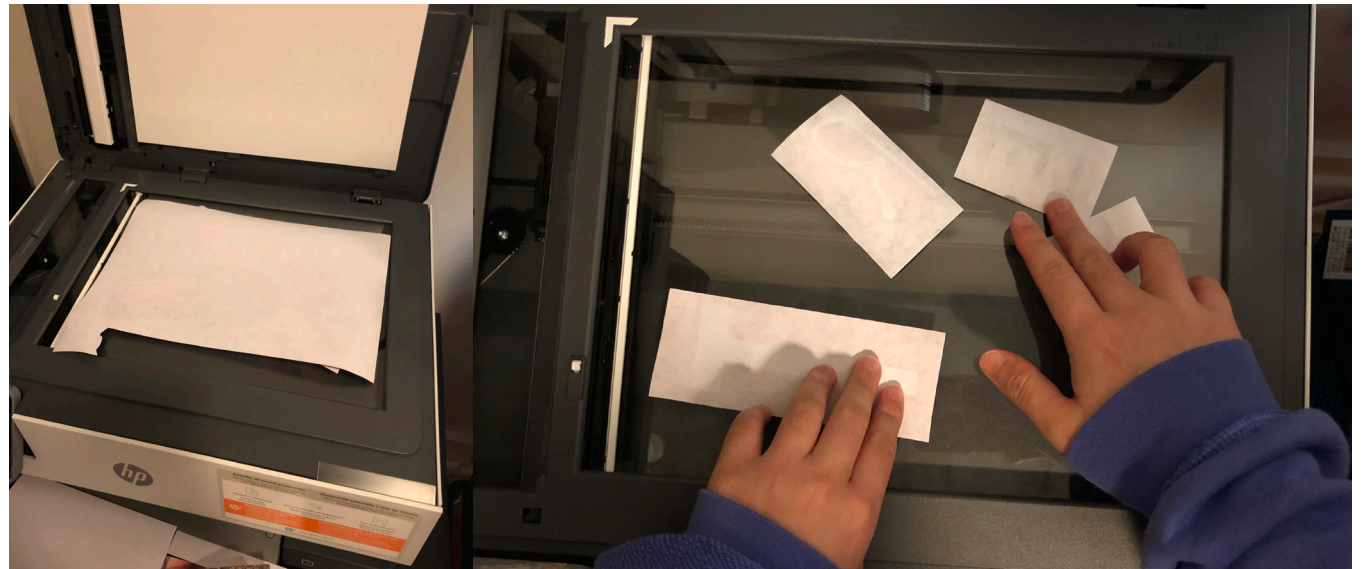
Imagination



03 IMAGE COLLECTING WITH TYPE

EXPERIMENT 03 - FURTHER EXPLORATION

The World is No Longer True



03 IMAGE COLLECTING WITH TYPE

EXPERIMENT 03 - FURTHER EXPLORATION

The World is No Longer True



03 IMAGE COLLECTING WITH TYPE

FINAL OUTCOMES

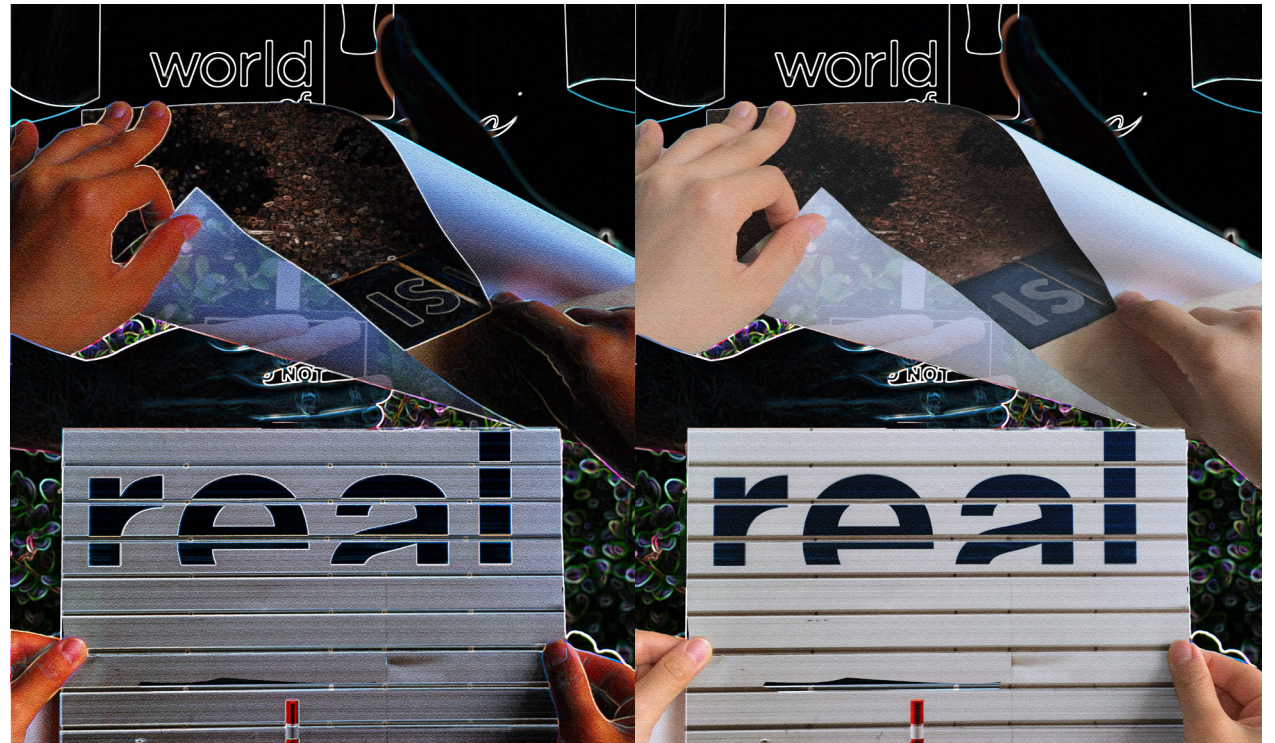
Imagine



03 IMAGE COLLECTING WITH TYPE

FINAL OUTCOMES

World is Not Real



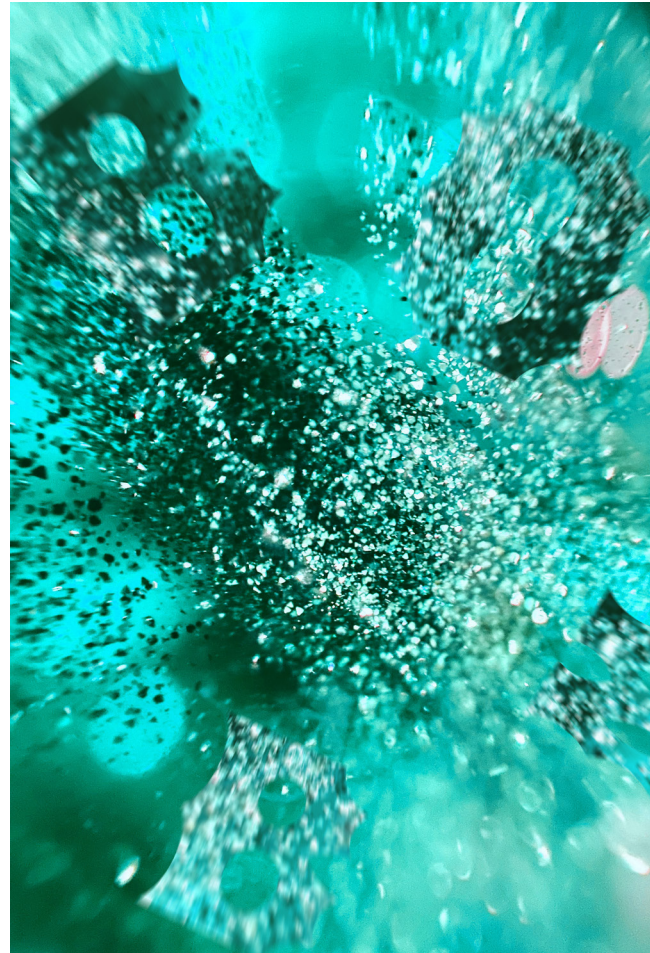
03 IMAGE COLLECTING WITH TYPE

EXPERIMENT 01 - MATERIAL EXPLORATION

Bomb



For the people who steal the package from his front door, glitter bomb will explode and glitters will spread all over the place when they open the package.



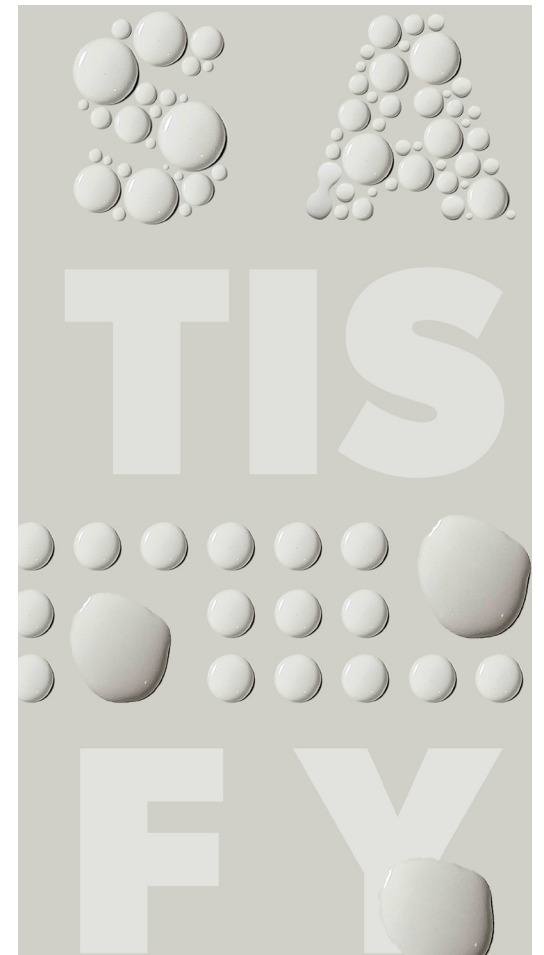
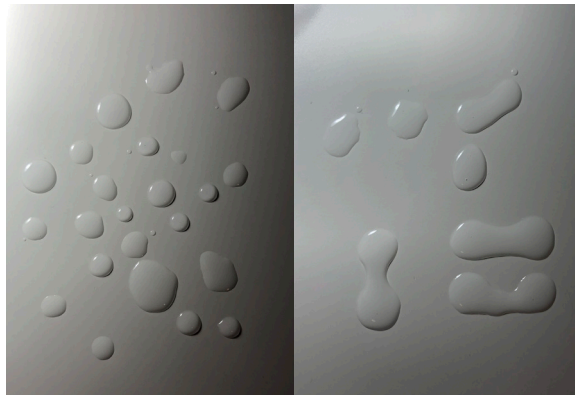
03 IMAGE COLLECTING WITH TYPE

EXPERIMENT 01 - MATERIAL EXPLORATION

Satisfy



Mark Rober does not only perform science experiments. He also creates things that are visually satisfying and aesthetically pleasing.



03 IMAGE COLLECTING WITH TYPE

EXPERIMENT 01 - MATERIAL EXPLORATION

Understandable



Science can be abstruse and sophisticated in normal people's eyes. Mark Rober can translate such complex science knowledge in a much simpler and more understandable way.



03 IMAGE COLLECTING WITH TYPE

EXPERIMENT 01 - MATERIAL EXPLORATION

Bait



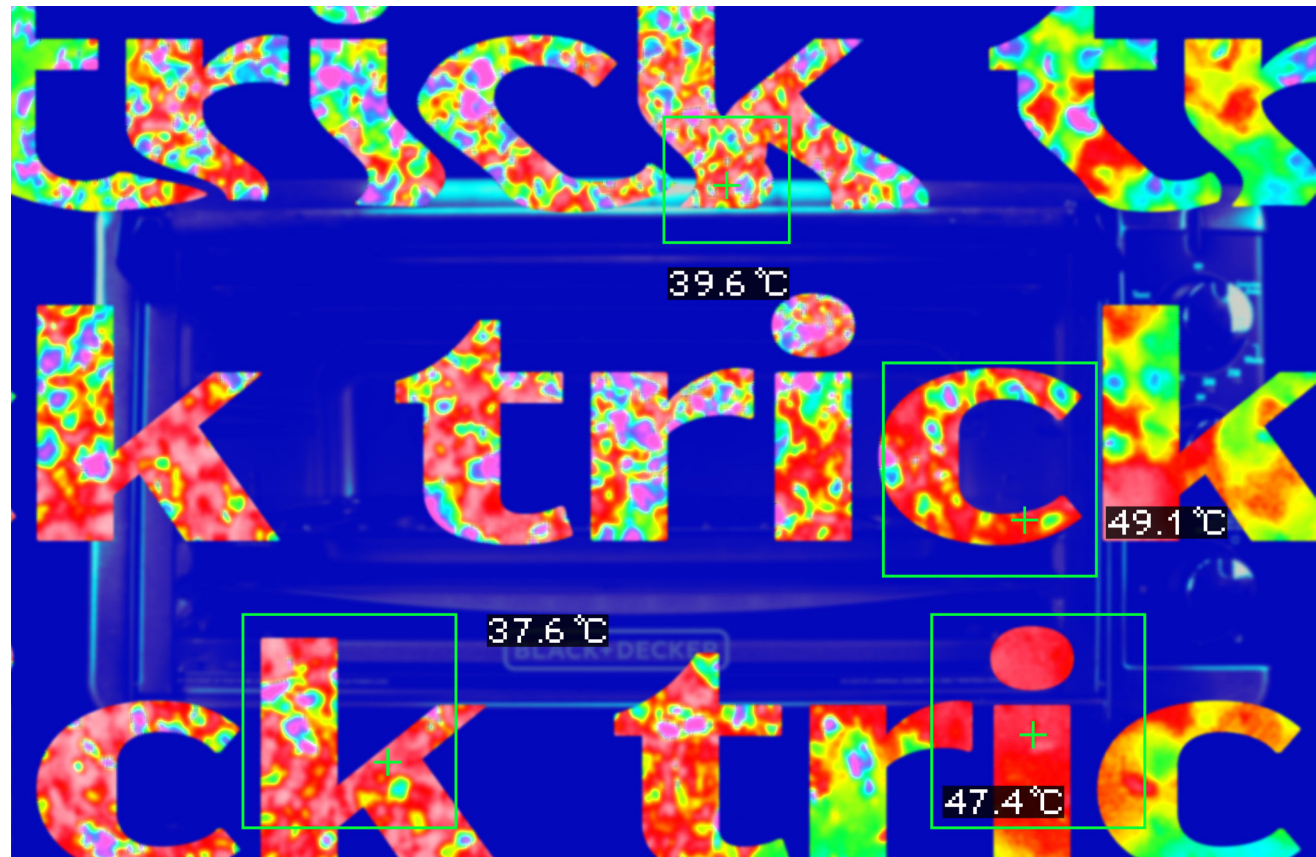
03 IMAGE COLLECTING WITH TYPE

EXPERIMENT 01 - MATERIAL EXPLORATION

Trick



Mark Rober is good at finding problems in real life and applying science tricks to solve them.



03 IMAGE COLLECTING WITH TYPE

EXPERIMENT 01 - MATERIAL EXPLORATION

Magical



In many of his videos, Mark Rober performs experiments and successfully achieves effects that may be thought to be impossible. His experiments are often quite magical.

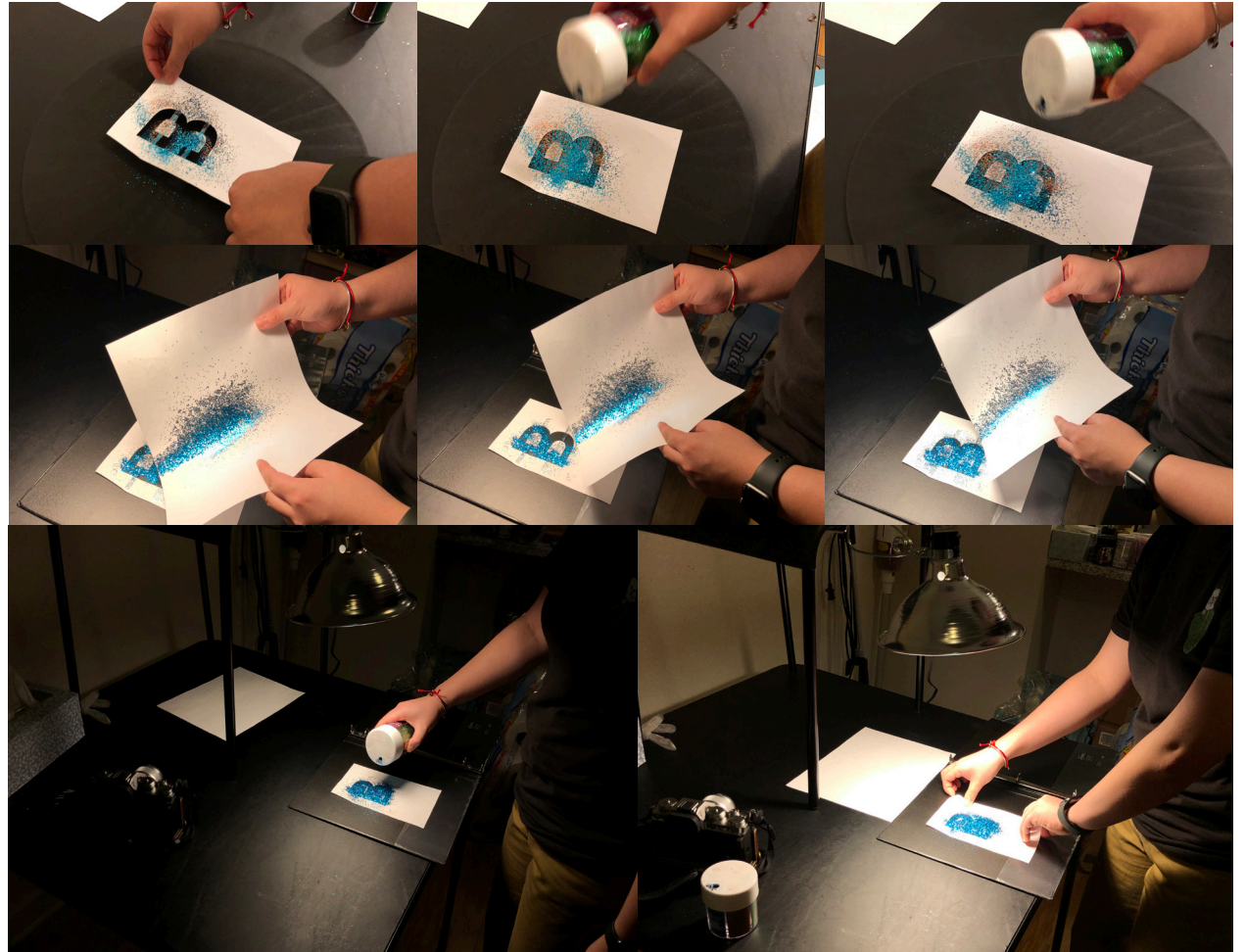


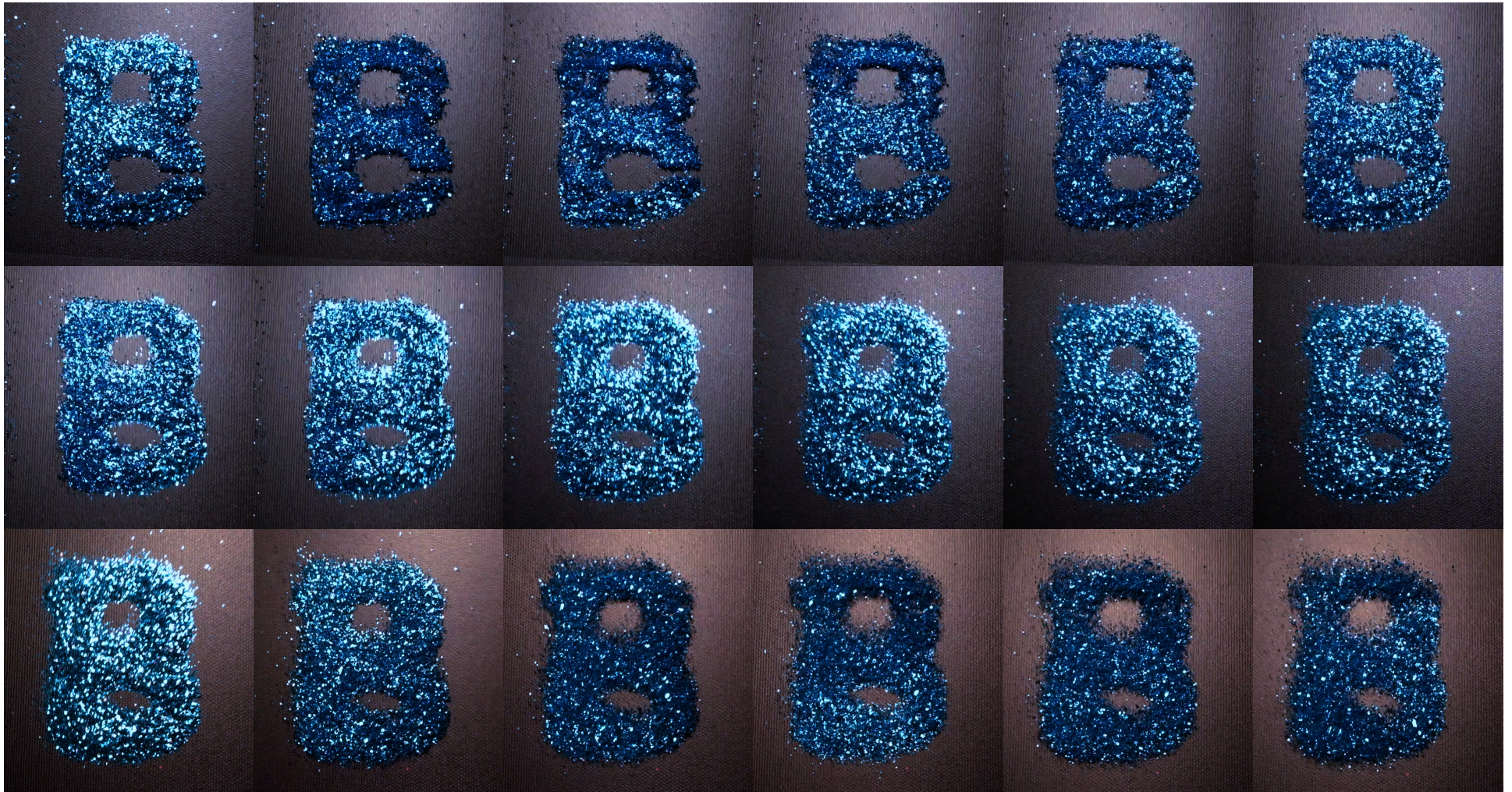
03 IMAGE COLLECTING WITH TYPE

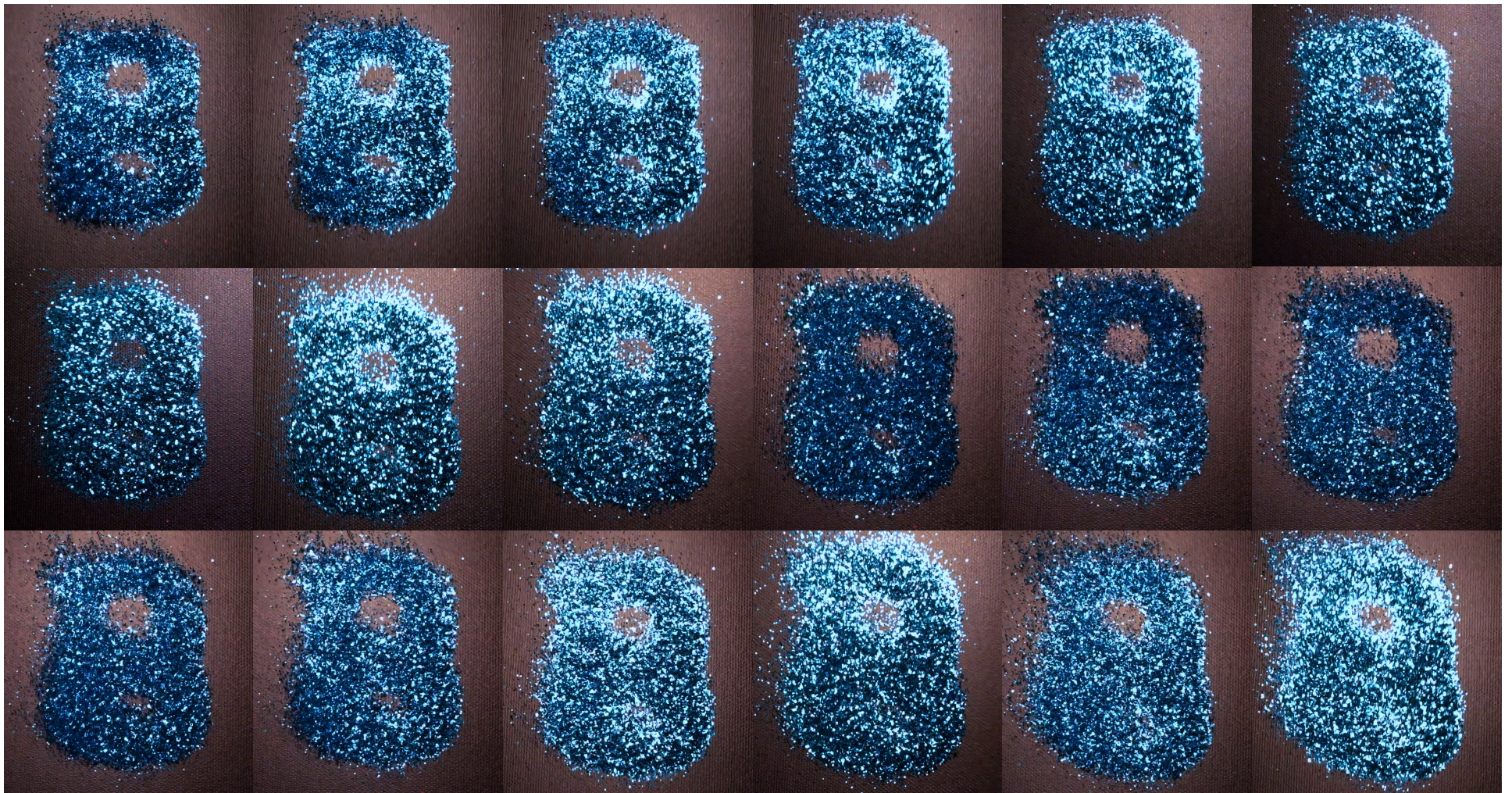
EXPERIMENT 02 - FURTHER EXPLORATION

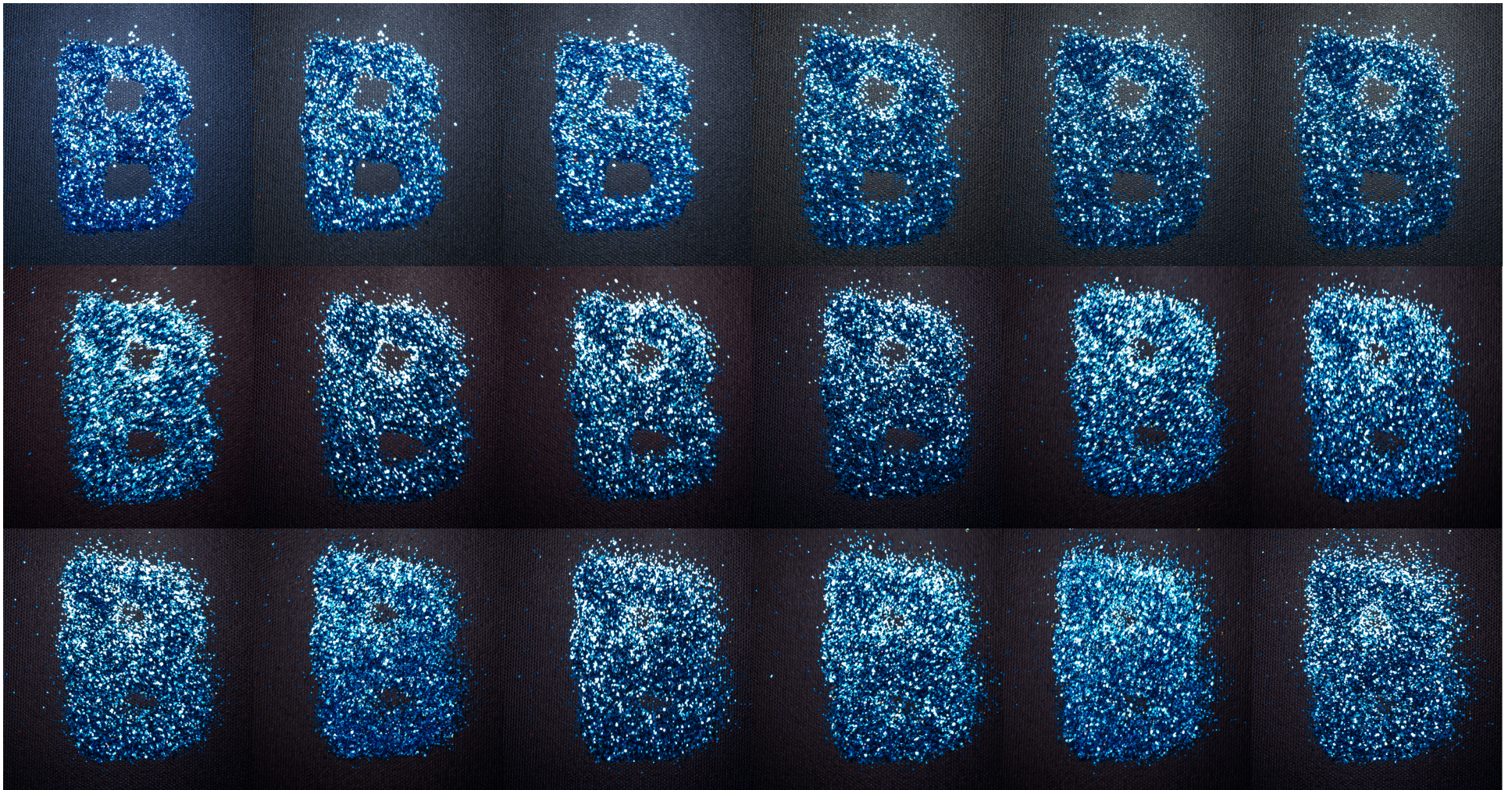
I used paper to cut the letter mold and put different color glitters in it.

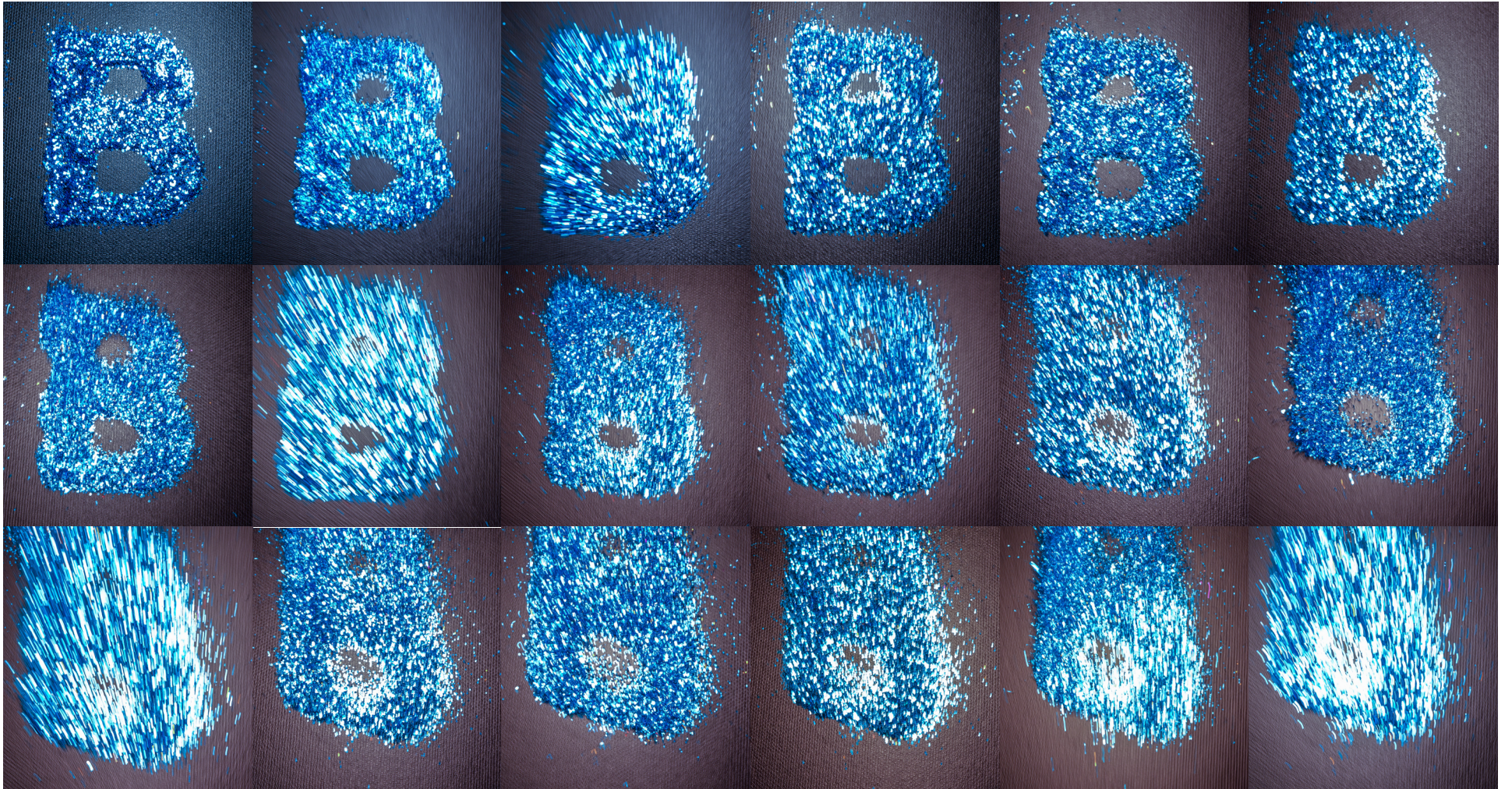
To get better shooting quality, I build a small workspace with light and black background.



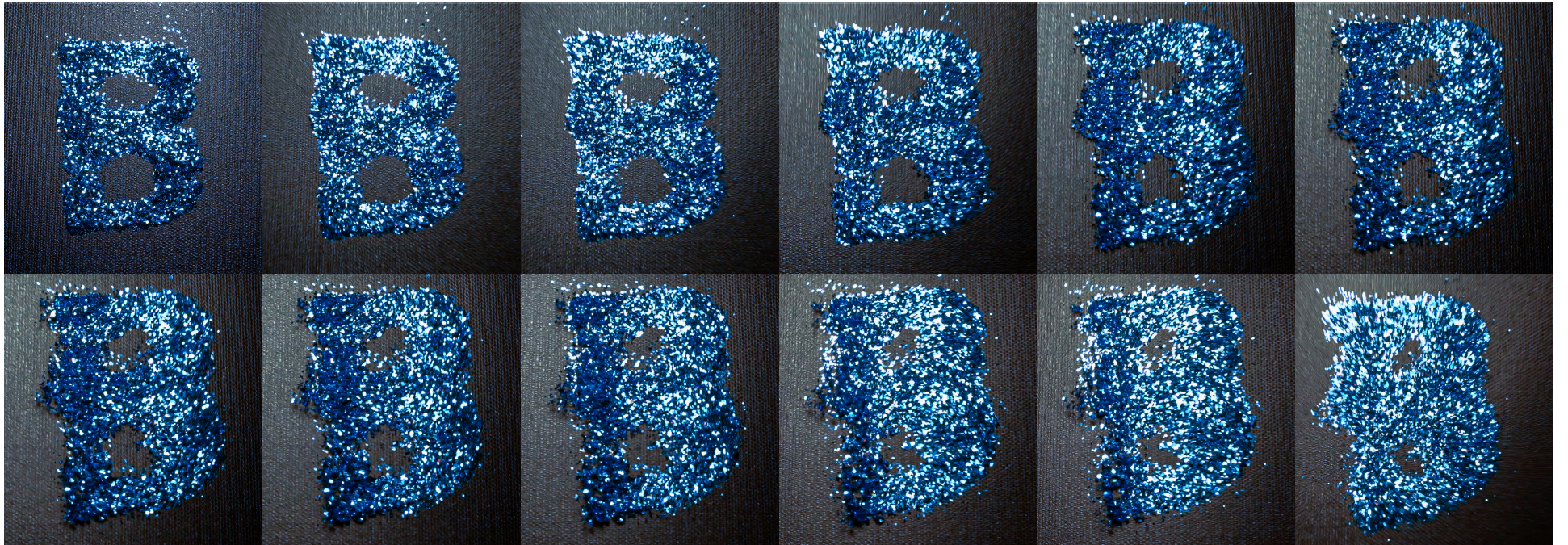


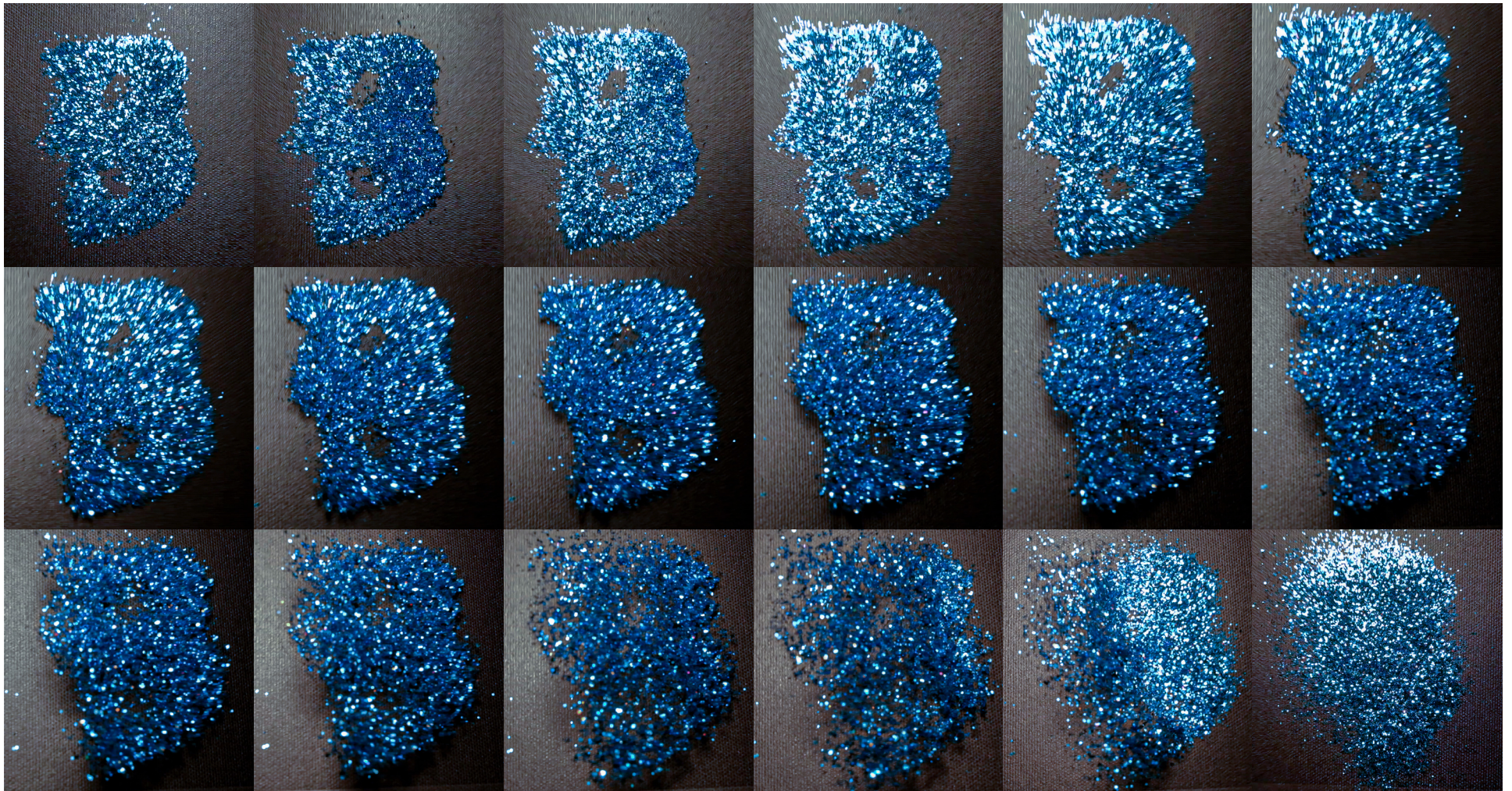












03 IMAGE COLLECTING WITH TYPE

EXPERIMENT 02 - FURTHER EXPLORATION

Bomb



03 IMAGE COLLECTING WITH TYPE

EXPERIMENT 02 - FURTHER EXPLORATION

Because I didn't find water proof paper, I decided to create by me own. I used the water proof spray, which uses on clothes, shoes, and tent. I spray it on the normal paper.

I set up my small shooting studio and start to play with water drops and take pictures.

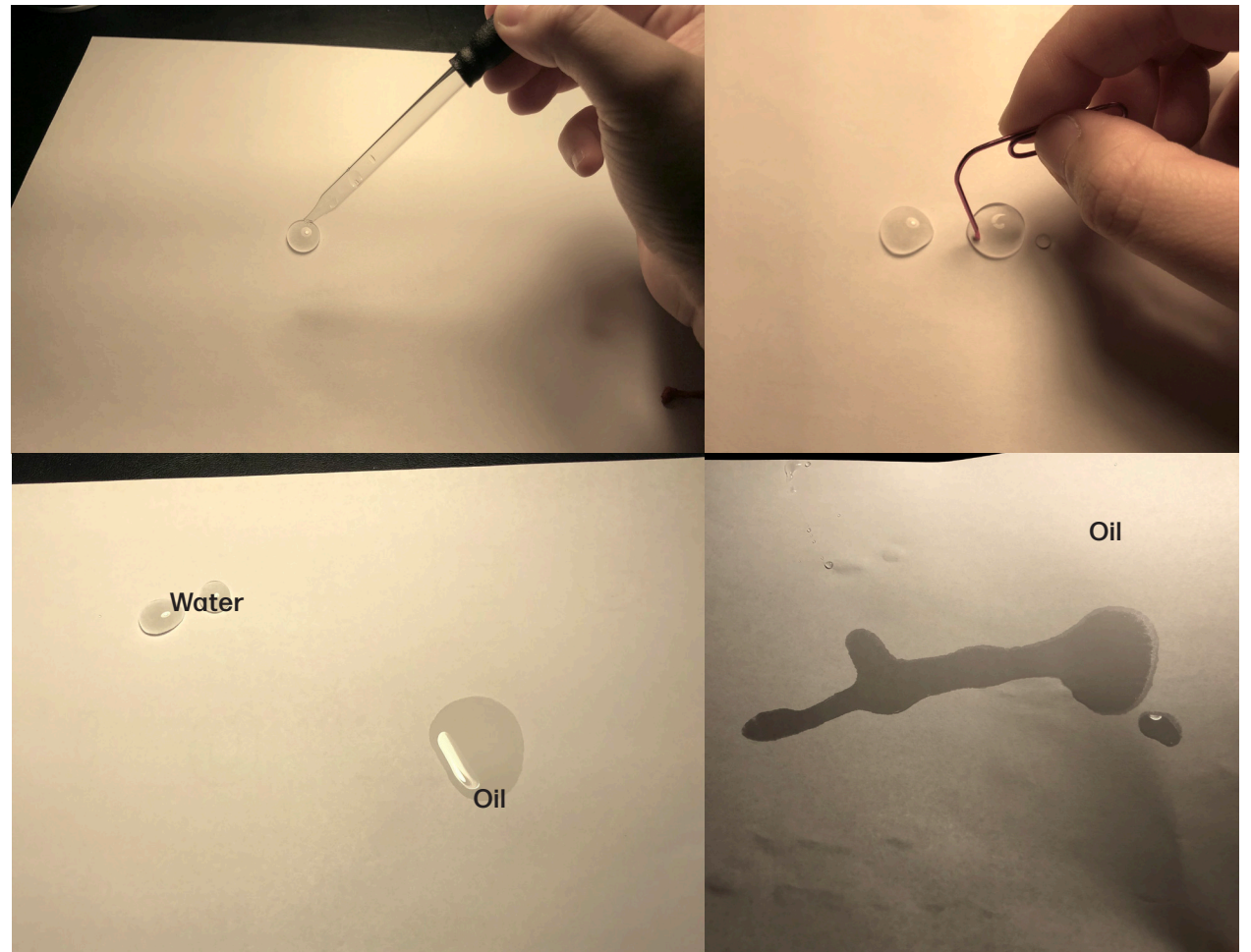


03 IMAGE COLLECTING WITH TYPE

EXPERIMENT 02 - FURTHER EXPLORATION

I tried to use paper clip to connect those two drops, but I failed. Water is way harder to control than I think.

I also think about using other materials - oil. However, it was sucked by the paper immediately. Water works better than oil.

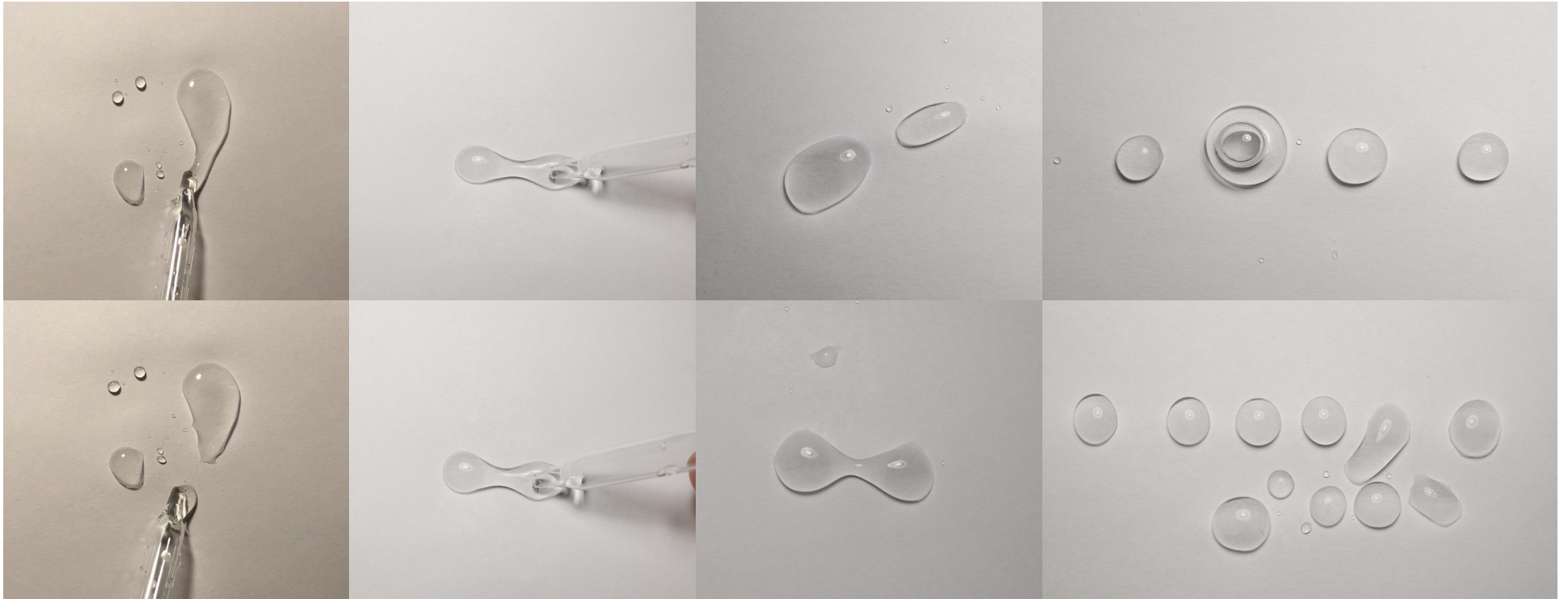


03 IMAGE COLLECTING WITH TYPE

EXPERIMENT 02 - FURTHER EXPLORATION

I started to form the water drop into different shapes.

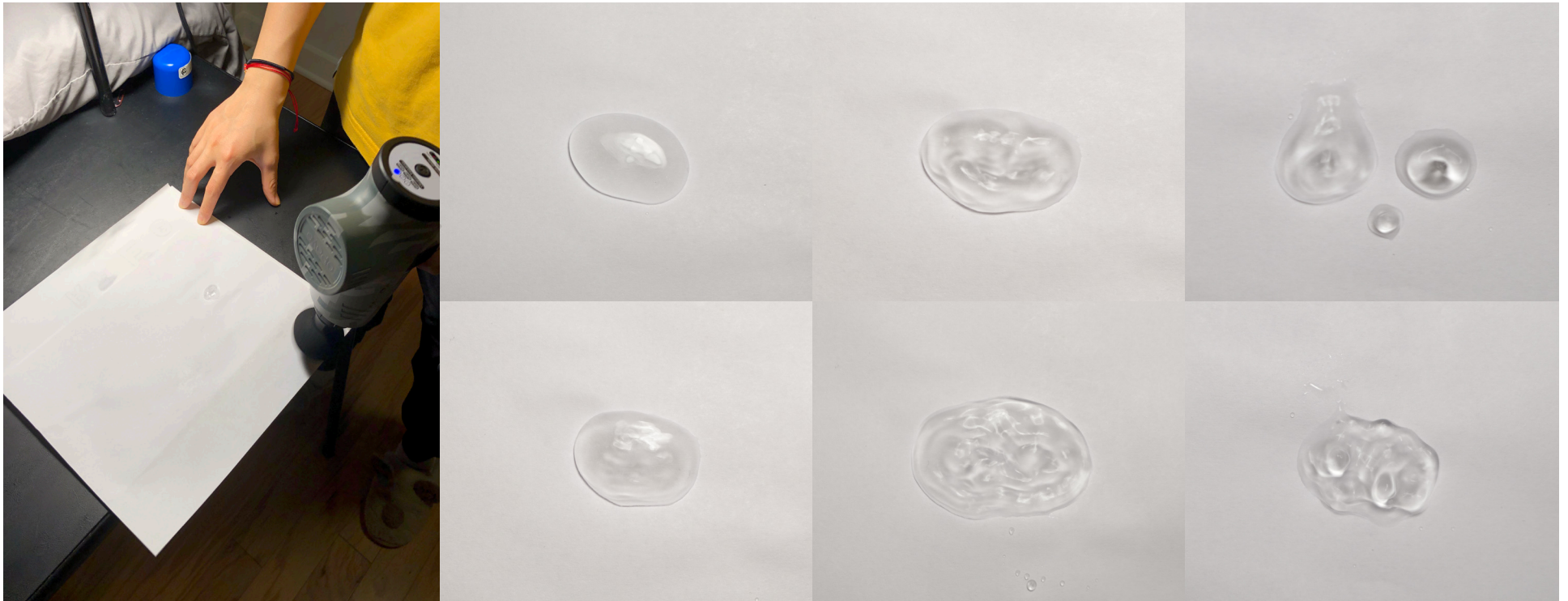
I also tried to add bubble in the water drop to create different visuals and textures.



03 IMAGE COLLECTING WITH TYPE

EXPERIMENT 02 - FURTHER EXPLORATION

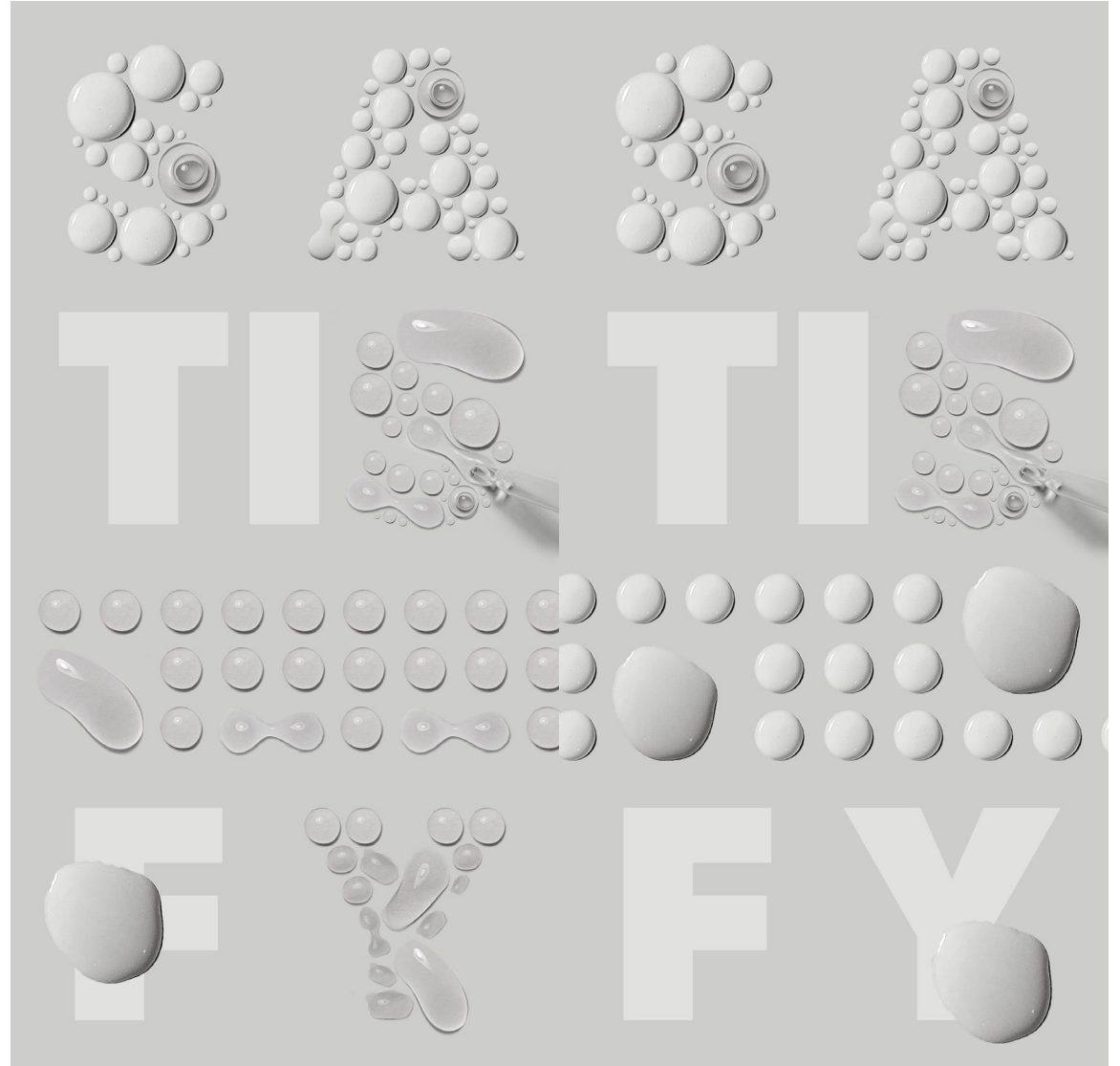
The vibration from massage gun on the paper will give water drops different textures.



03 IMAGE COLLECTING WITH TYPE

EXPERIMENT 02 - FURTHER EXPLORATION

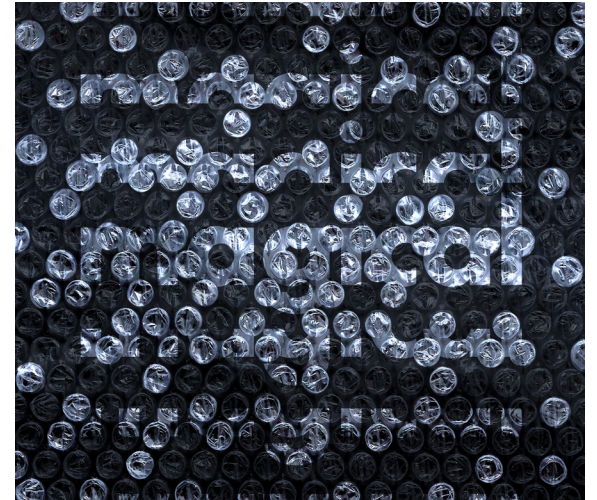
Satisfy



03 IMAGE COLLECTING WITH TYPE

EXPERIMENT 02 - FURTHER EXPLORATION

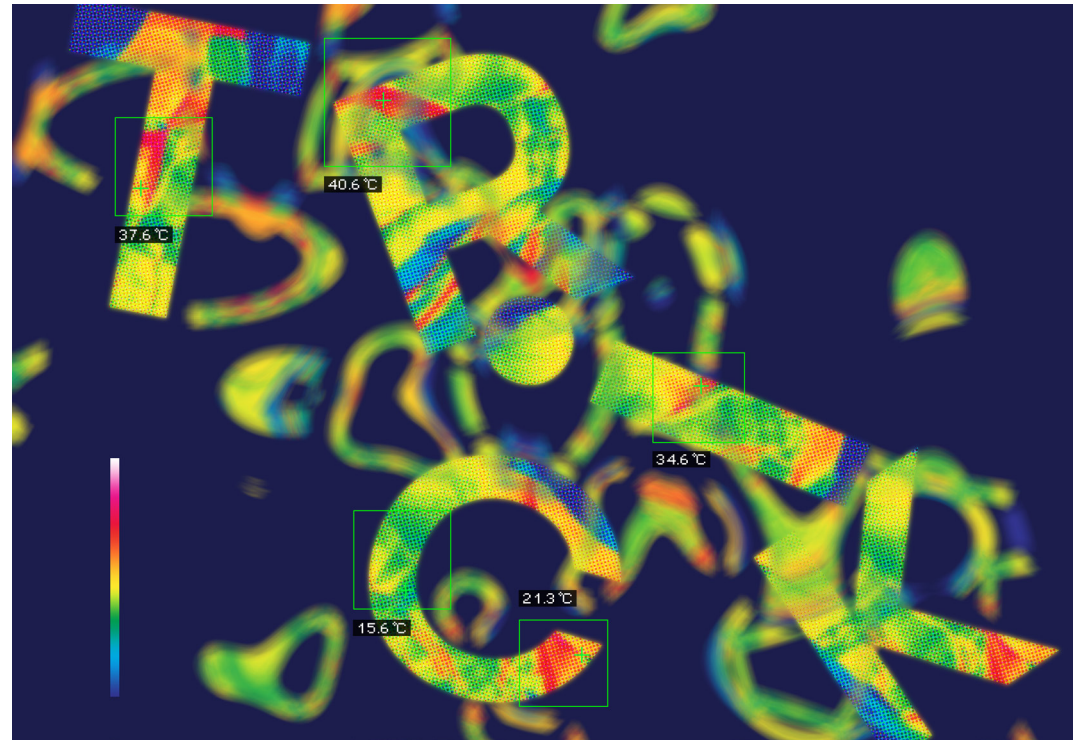
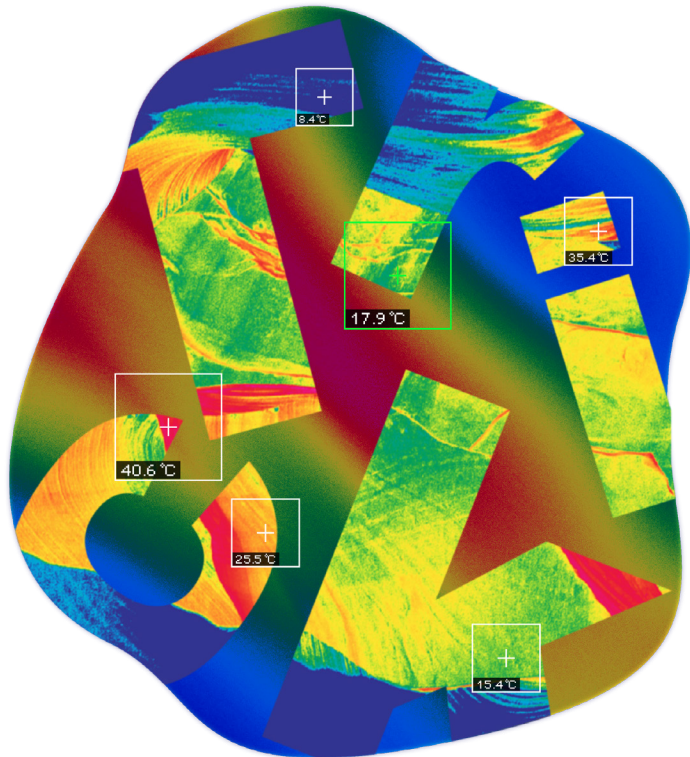
Magical



03 IMAGE COLLECTING WITH TYPE

EXPERIMENT 02 - FURTHER EXPLORATION

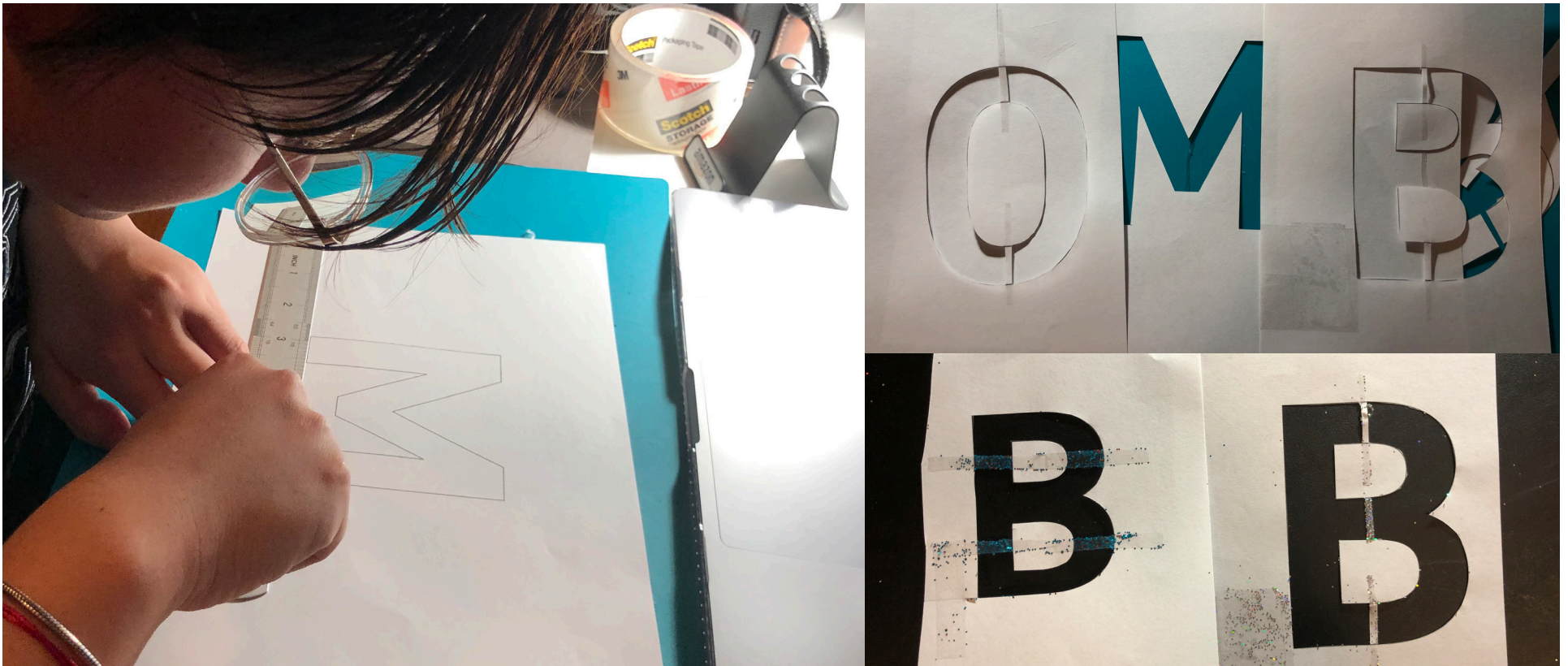
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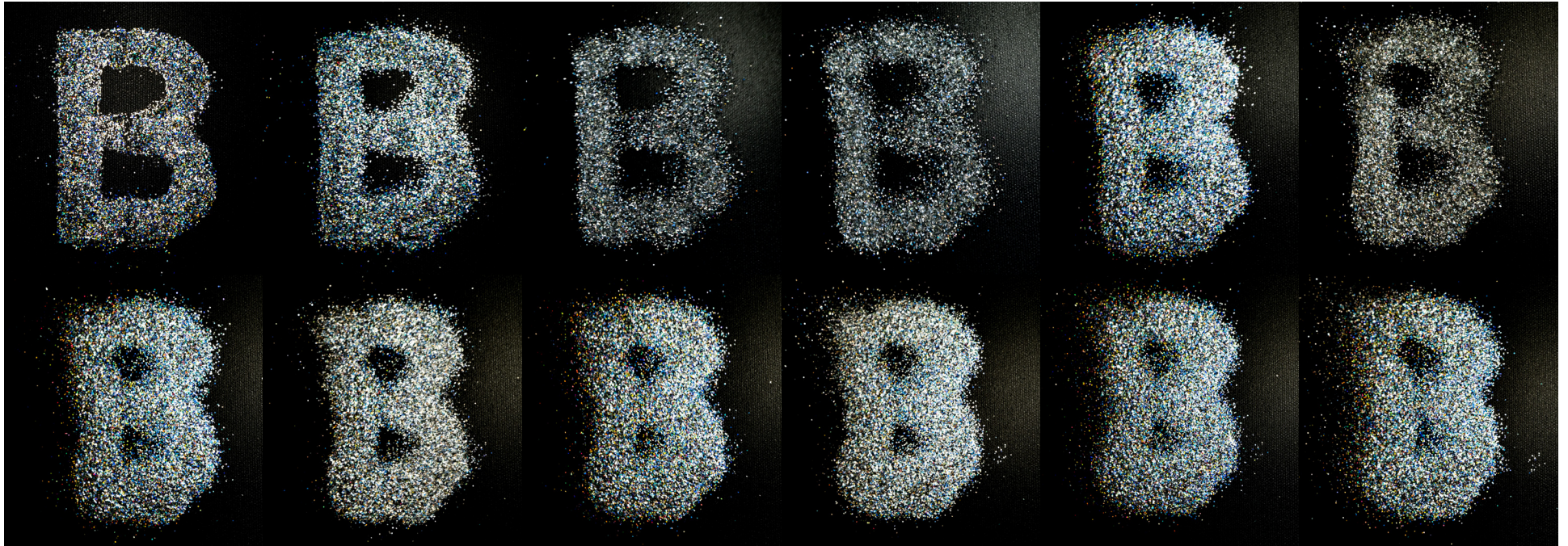


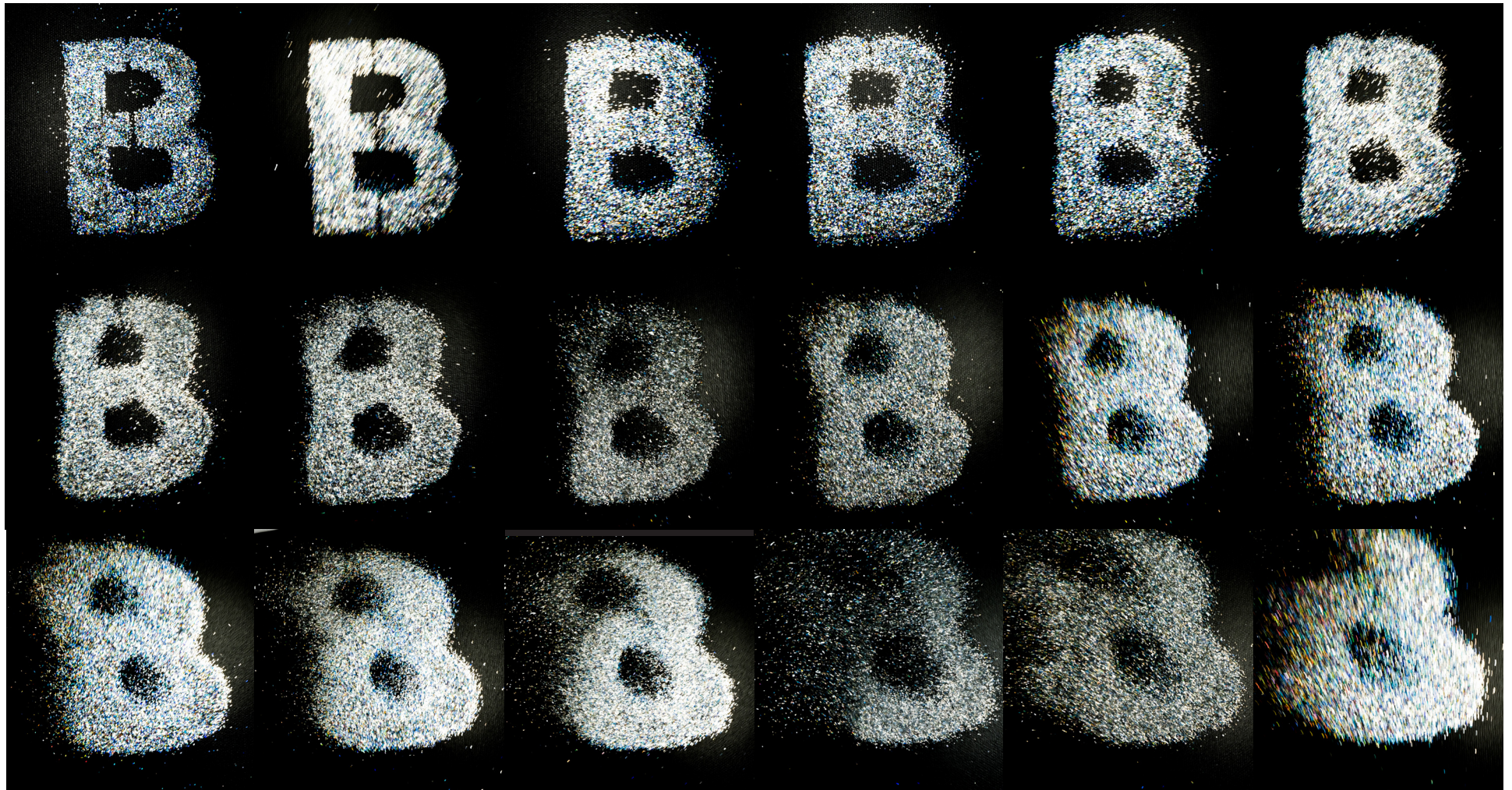
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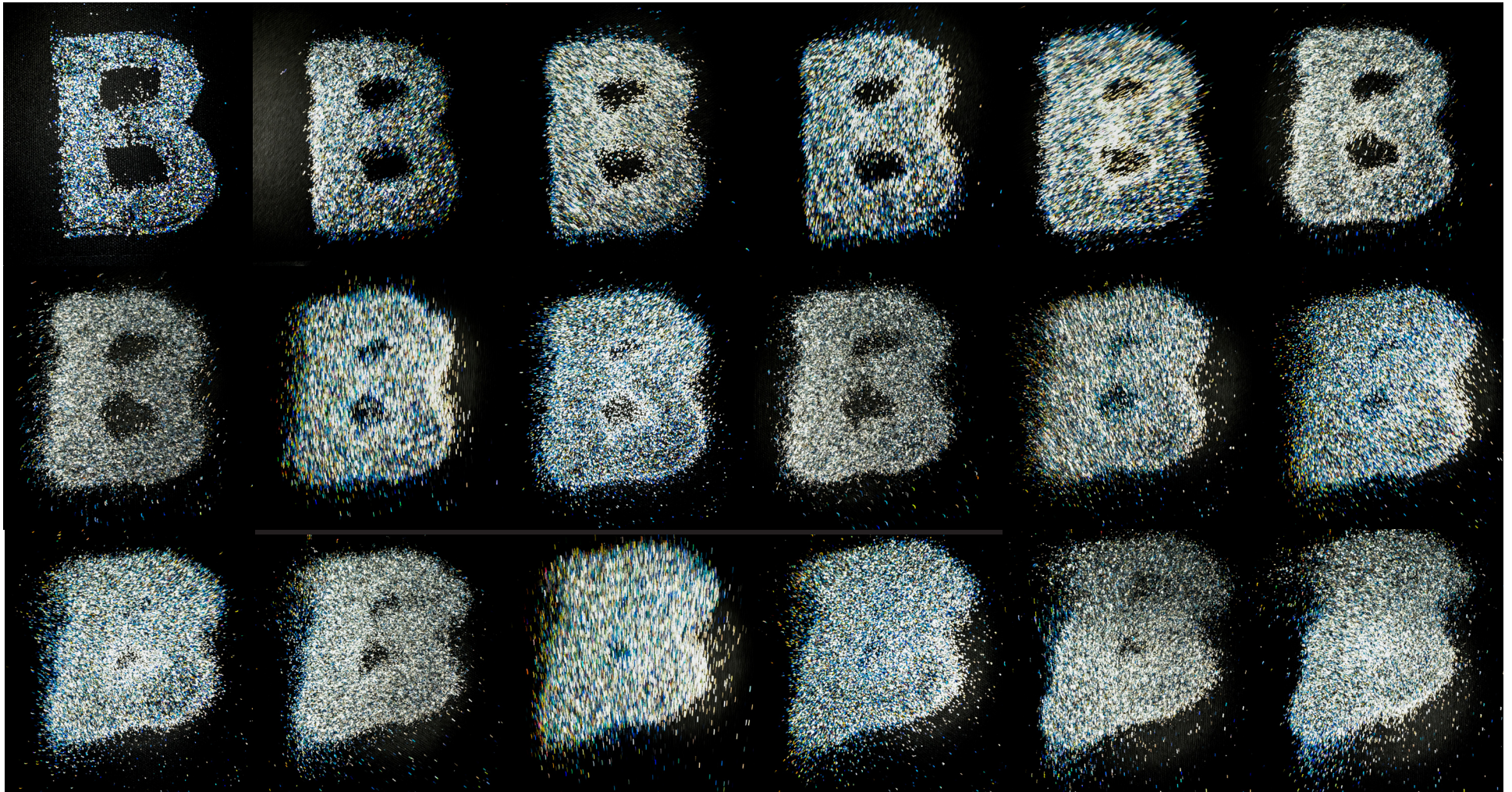
EXPERIMENT 02 - FURTHER EXPLORATION

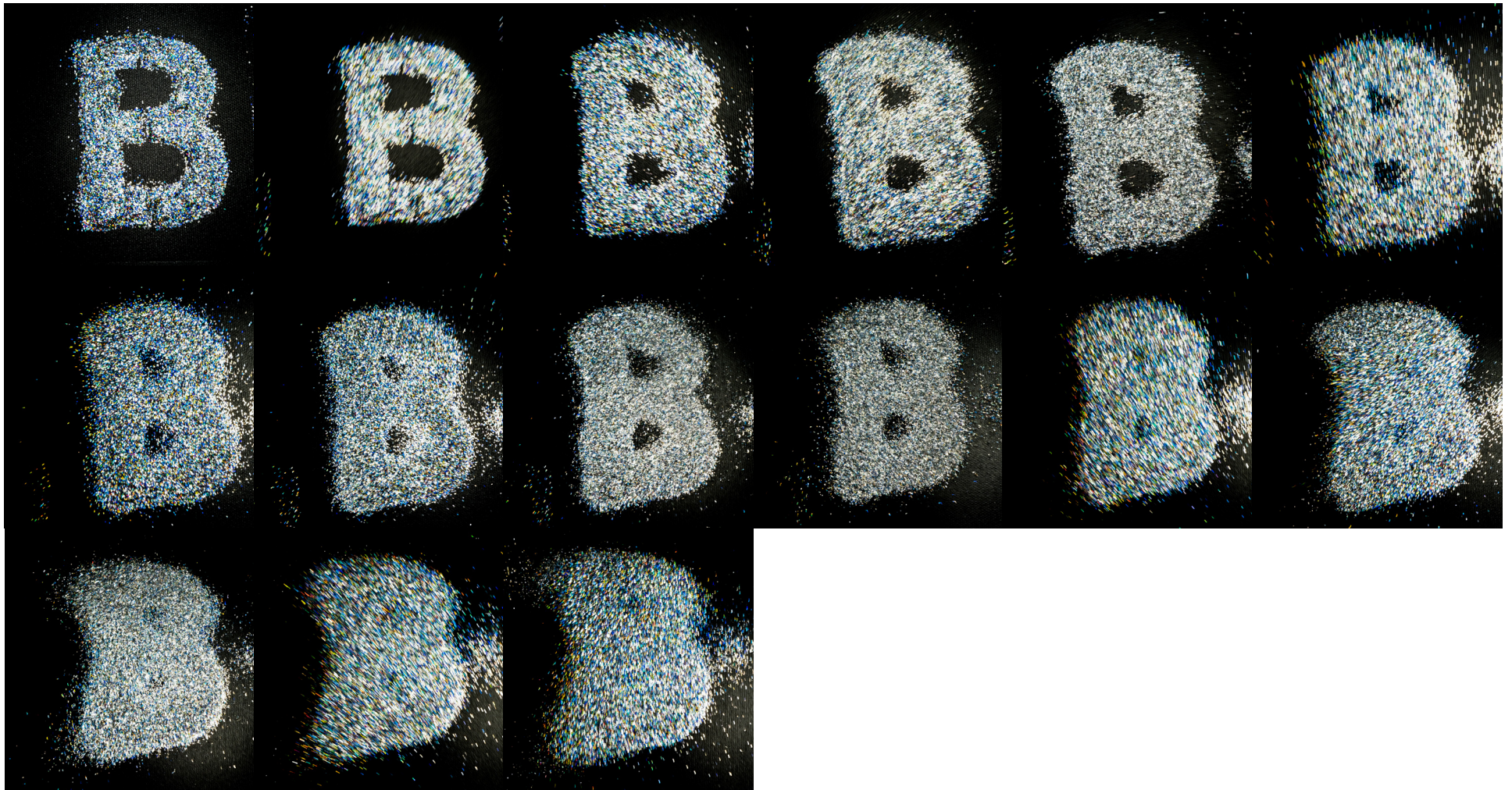
To have more glitters in the letter, I cut out bigger molds for the further experiments. It allows me to capture more specific details of the glitter.

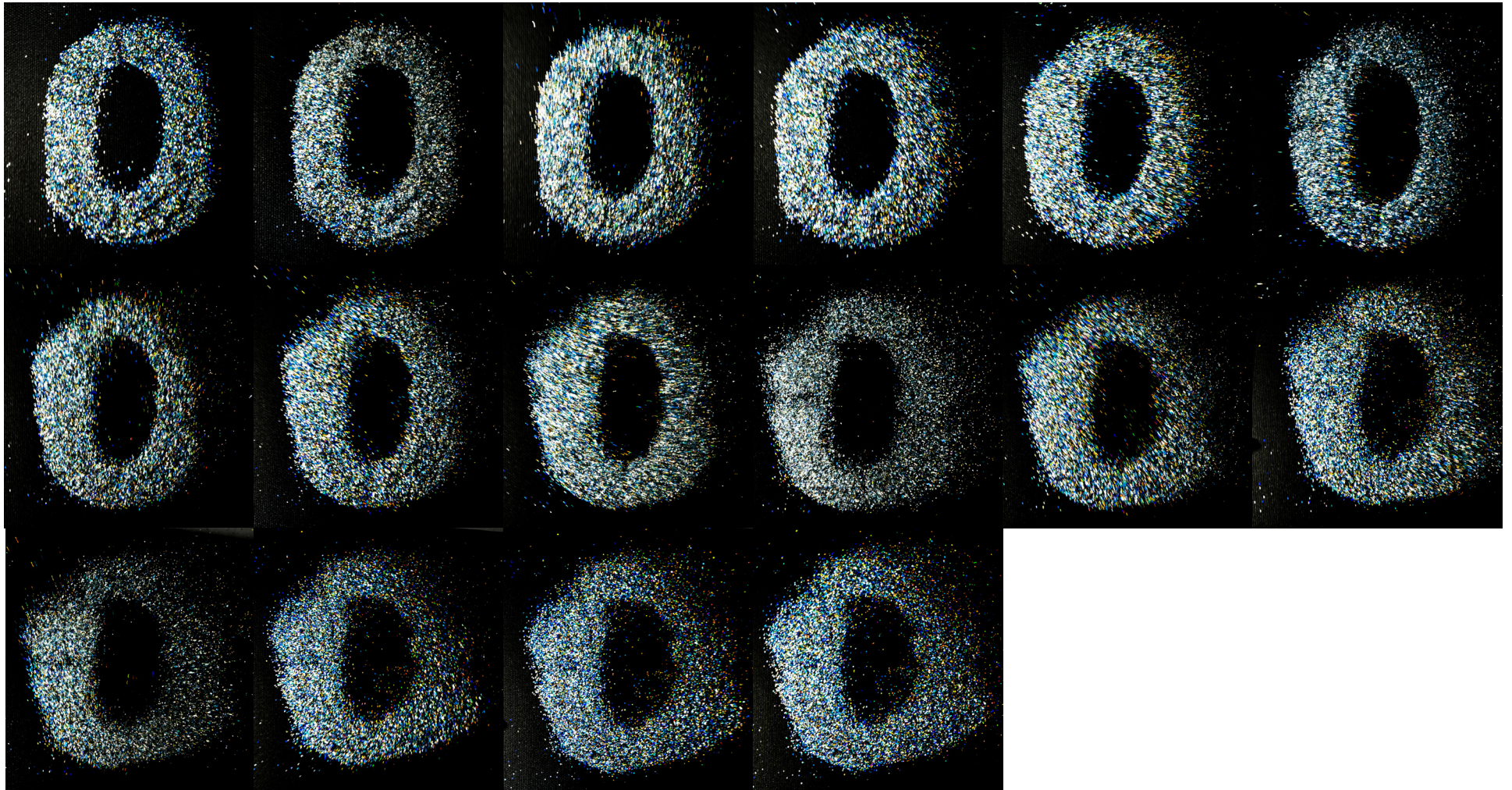








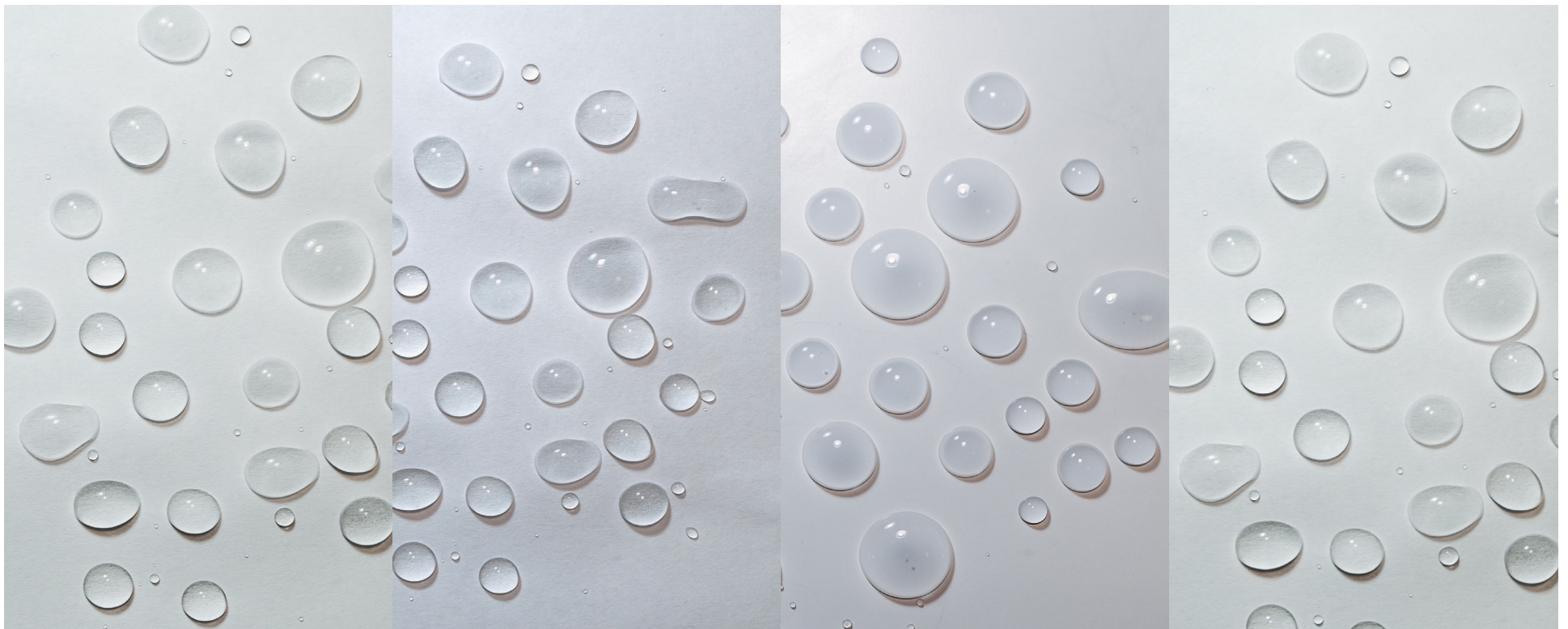






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EXPERIMENT 02 - FURTHER EXPLORATION



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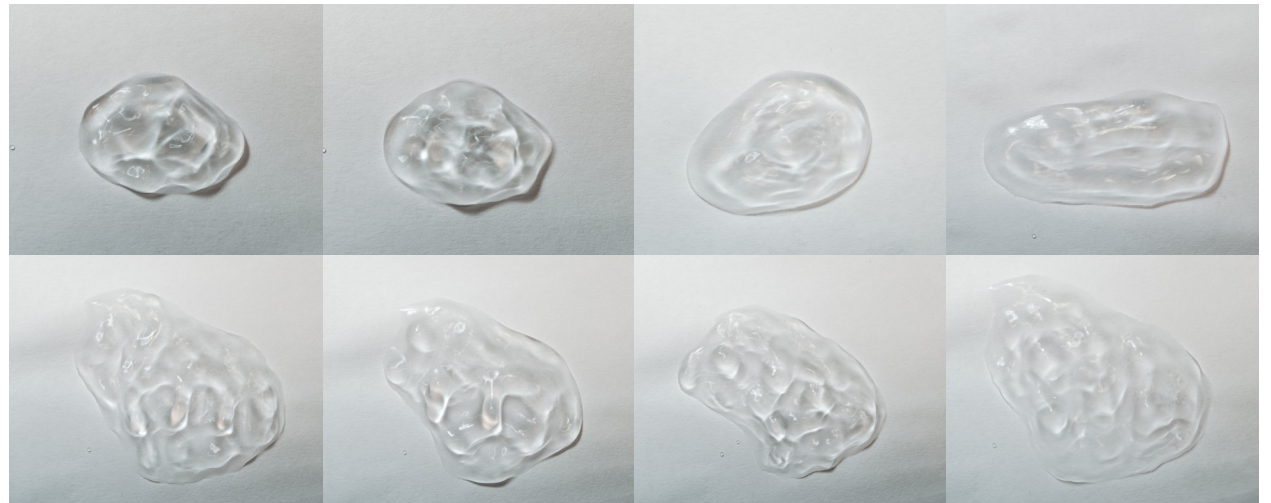
Satisfy



03 IMAGE COLLECTING WITH TYPE

EXPERIMENT 02 - FURTHER EXPLORATION

I tried to have stronger vibration on the paper and created different visual textures.



03 IMAGE COLLECTING WITH TYPE

EXPERIMENT 02 - FURTHER EXPLORATION

Satisfy



03 IMAGE COLLECTING WITH TYPE

EXPERIMENT 02 - FURTHER EXPLORATION

Trick



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EXPERIMENT 02 - FURTHER EXPLORATION

Magical



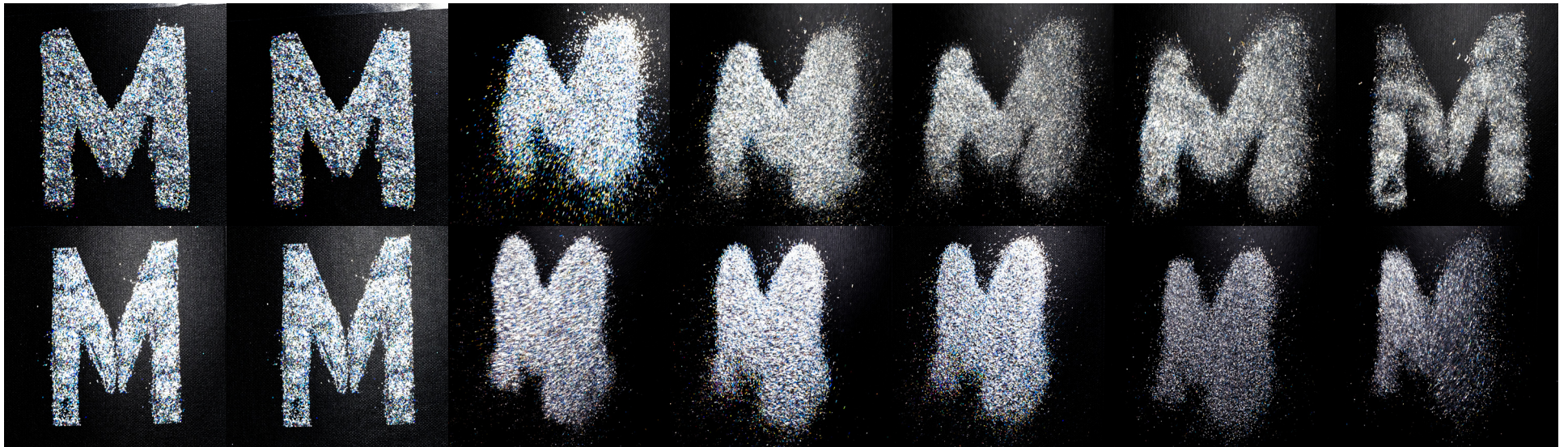
03 IMAGE COLLECTING WITH TYPE

EXPERIMENT 02 - FINAL EXPERIMENT



03 IMAGE COLLECTING WITH TYPE

EXPERIMENT 02 - FINAL EXPERIMENT



03 IMAGE COLLECTING WITH TYPE

FINAL OUTCOME

Bomb



03 IMAGE COLLECTING WITH TYPE

FINAL OUTCOME

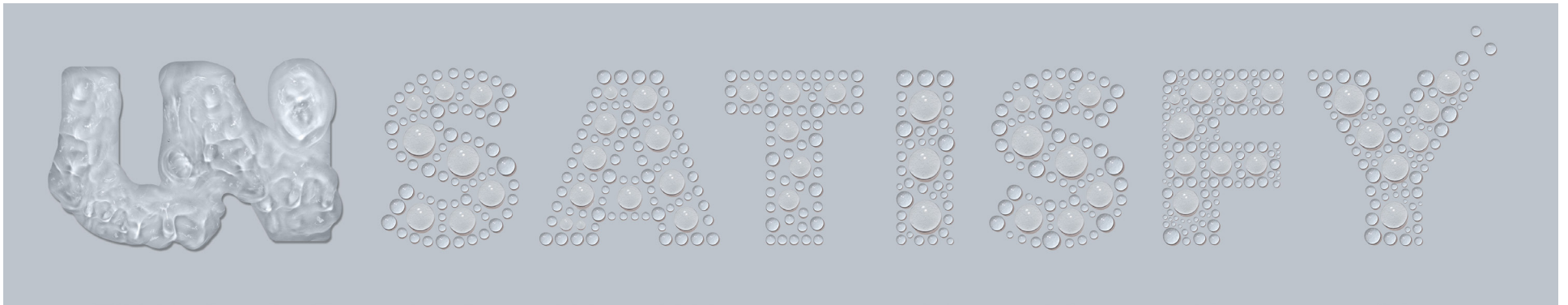
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03 IMAGE COLLECTING WITH TYPE

FINAL OUTCOME

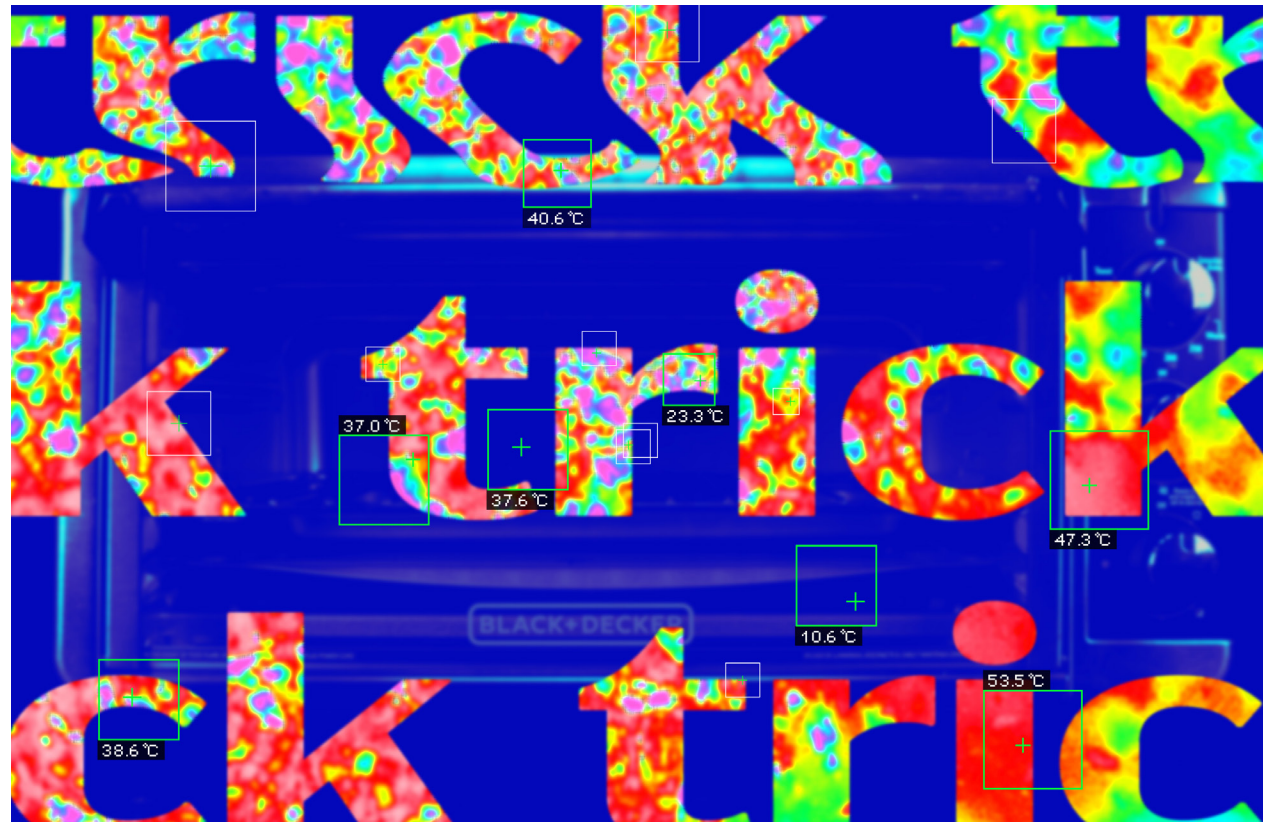
Unsatisfy



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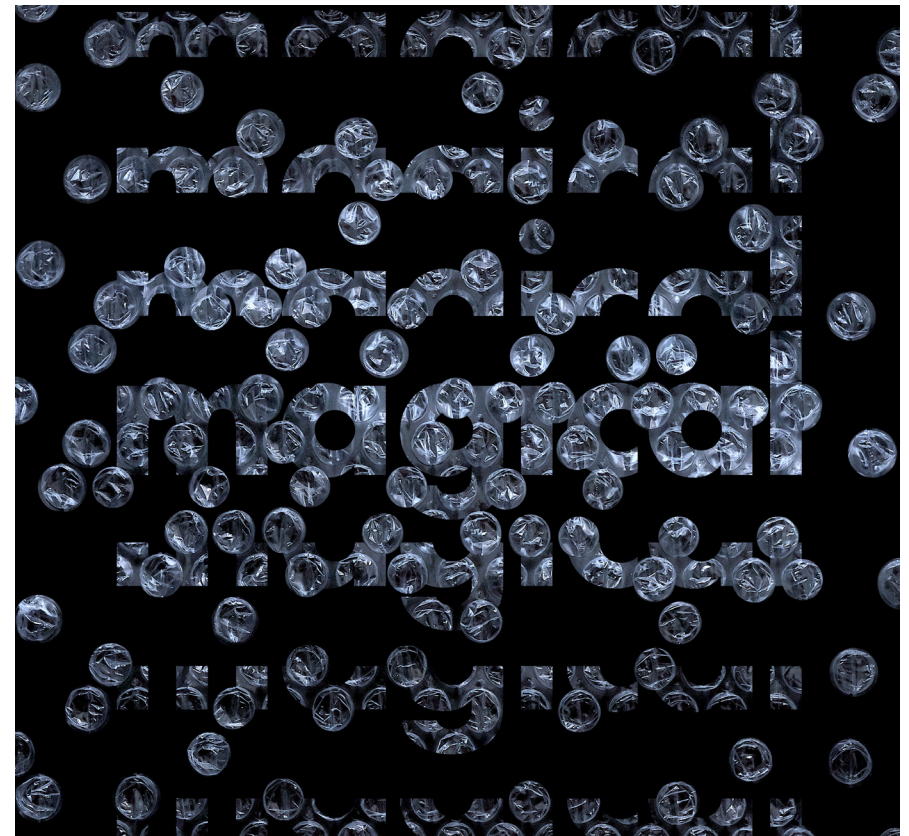
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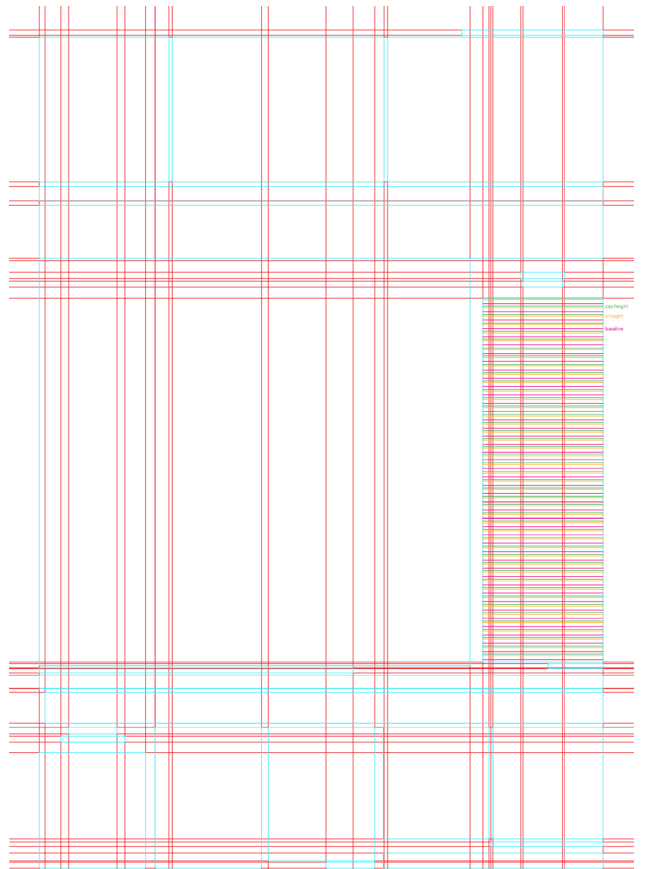
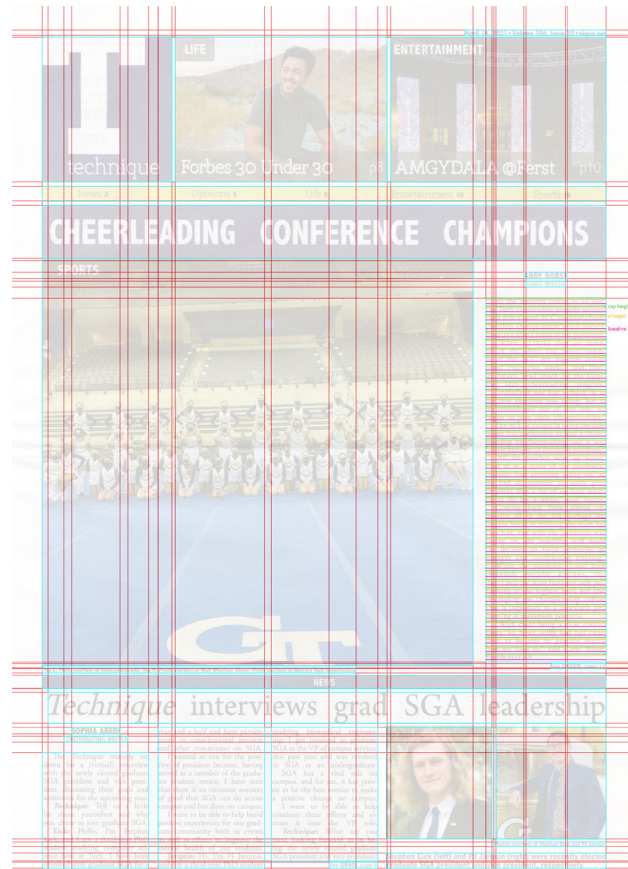
FINAL OUTCOME

Magical



04 NEWSPAPER DESIGN

NEWSPAPER GRID SYSTEM 01



04 NEWSPAPER DESIGN

NEWSPAPER GRID SYSTEM 02

Sports

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Cheer win national title
Tech's cheer team comes out on top at national competition

technique
16
Friday,
April 16, 2021

Nicole Fegans rewrites Tech record books

KATHRYN HIGNOTHAM
CONTRIBUTING WRITER

The past weekend at the Common 15th Invitational, Nicole Fegans lost her shoe after being tripped with two left in the 1500m. Fegans finished the race, placed second, and broke Tech's 19-year-old school record for the women's 1500 with a time of 4:18.95.

That leads repetition: Nicole Fegans' shoe fell off partway through her race, and she didn't just keep running and finish, she placed second and broke a school record.

Fegans said that even continuing that race was a split-second decision, one that certainly paid off. "I was coming around the curve by the 600m mark, got tripped up and realized my shoe was half hanging off and had to kick it off. I had a split-second thought of whether or not I wanted to drop out, because I knew I had a pretty good race. If I did, but I knew I'd rather run a bad race with one shoe than drop out because I didn't want to push through a race that didn't go planned."

At this point in her athletic career though, Fegans' performance last weekend is almost par for the course. It was the fourth time this year alone that she set a school record and it only a single example of her enormous contributions to the women's track and cross country team.

Fegans, a fourth-year business administration major, holds a total of six school records for tracks: the indoor 5k (16:06.50), indoor mile (4:41.33), indoor 5k (16:06.50), outdoor 1500m (4:18.95), outdoor 5k (15:57.61) and outdoor 4x2000 relay (18:15.33), along with three others: the 5k, the indoor mile, the indoor 1500m, and the outdoor 5k — within the past academic year. Her most recent indoor mile represents her third time breaking that particular school record.

Fegans said that the support of her family and her own internal motivation are among the biggest driving forces for her will to continue competing and achieving as an athlete. "One of the things that drives me as my parents, they have done so much to get me where I am today and I make me want to keep pushing to be the best I can be — both on and off the track. The other thing that drives me as an athlete is the desire to keep getting better and better. Coming in as Georgia Tech, I remember thinking about the chance of getting a school record and thinking — and never be possible. It still shocks me at how much I have improved over the years and how the goals I set, or thought, I could achieve. I've surpassed by far."

This past fall, Fegans led the women's cross country team to second place at ACC Championship, an all-time best finish for the team. She placed 20th overall and earned All-ACC honors for her performance. Then the women's team achieved their best finish in school history at NCAA Nationals when they placed 20th, with Fegans placing 12th overall, the second-best individual performance at NCAA's in Tech history.

She was honored as a first-team All-American for her effort, making her the third women's distance runner named All-American in Tech.

In addition to her on-track success, Fegans has also been acknowledged with second-team All-American honors this year for her writing and her leadership on the Tech team.

Fegans, setting Tech's women's outdoor 5k record here, has been setting records since last year. She has reset the indoor mile record alone three times during her time at the institute.

Plenty of talent to be displayed at spring game

RISH DESAI
STAFF WRITER

For fans, spring football is the first glimpse into the strides the team has made since the end of the season. It also serves as a sneak peek into the potential for the upcoming season. Spring football is the time when some questions may be answered, and new questions begin to form. Although this year's game taking place on April 2nd will not be widely attended, it will provide a closer look into three main areas: growth from returning players, outlook for the new transfers, and scheme for the new players.

Tech's bringing back several key players on both sides of the ball. Last season on the offensive side, the true freshman tandem of Jeff Sims and Javon Gibbs demonstrated great promise for what the offense can become. There is much anticipation for the level of improvement they have made through the offseason. After having one season under his belt and the offseason, one area to watch will be how Sims and Gibbs have evolved. Additionally, the offensive line's leader Ryan Johnson will be returning. He will be the anchor for the offense and will look to be an integral part of a strong offensive line.

On the defensive side, defensive back Terry Carpenter headlines the list of returnees. One of the biggest areas where the Jackets are looking to improve from a defensive standpoint is the second

Geoff Collins is entering his third season as Tech's head football coach. He has brought in strong recruiting classes, the newest of which will start to showcase their talent at the spring game.

opposed to go for it on fourth down in many instances because of their level of instability at the position. The impact of Cunningham is immediate impact and a consistent receiver for Sims.

Defensively, Tech added a couple of the top defensive ends from the transfer portal, including Makhi Stone and Kean White. Last season, Tech struggled to stop the run, but they have greatly improved this area by bringing in some top defensive ends. Fans have more to be excited for as they will see plenty of new talent making up for the Jackets for the first time after a busy offseason.

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04 NEWSPAPER DESIGN

NEWSPAPER GRID SYSTEM 03

Life

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Vaccine requirements

Students discuss the possibility of requiring a COVID-19 vaccine for all students and faculty for a return to campus in fall ➔ 9

technique

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April 16, 2021

Forbes 30 Under 30 features alumni, students

SOPHIA TORNE
STAFF WRITER

This year, eight people associated with the Institute were featured in Forbes Magazine's annual 30 Under 30 list. The compilation highlights 600 young entrepreneurs, activists, scientists and creatives. According to Forbes, collectively the "trailblazers" have raised over \$1 billion in venture funding and are proof positive their ambition and innovation can't be guaranteed.

Among the featured innovators is Duy Yang, 29, an assistant professor in the School of Interactive Computing.

She is also affiliated with the Machine Learning Center and is recognized by Forbes for her work combining linguistics, social sciences and machine learning. Through this intersection, she has found ways to use computers to better social problems, such as autism harassment.

She leads Tech's Social and Language Technologies lab, where her team researches human language to improve communication between humans and machines. Yang got her Ph.D. at Carnegie Mellon and her bachelor's degree at Shanghai Jiao Tong University.

According to her interview with Forbes, one app she created without a dollar and her dream mentor is former first lady Michelle Obama.

Second among the Institute's community to be featured is Naita Butler-Craig, a 23-year-old aerospace engineering Ph.D. candidate. She is also a NASA Space Technology Graduate Research fellow in the High-Power Propulsion Lab and a speaker for diverse STEM.

In addition, Butler-Craig advised underrepresented students on research where she hosts an open forum.

"There is a great lack of informational resources available to underrepresented students," said Butler-Craig about the hardships of academic academia in an interview with AE.

This semester, she is working on a stand-alone course on the lab. "I wouldn't be able to do what I do if I thought failure defined me. I think of failure as trying to rise to success," said Butler-Craig when asked about the possibility of failure and how she gets around this fear.

She can't live without Outlook. As someone Tech students know perhaps well and would love to be mentored by, Dr. Mark Johnson, who was the first Black woman to be named a speaker.

"I'm proud to be on the Forbes 30 Under 30 list," said Butler-Craig about the recognition of her work.

"This semester, I'm looking to be a stand-alone course on the lab. I wouldn't be able to do what I do if I thought failure defined me. I think of failure as trying to rise to success," said Butler-Craig when asked about the possibility of failure and how she gets around this fear.

Another budding poster is Jaiya Johnson, CS 14 and Younder who is listed under the Consumer Technology category. Johnson worked as a software engineer at Yelp and Patagonia before becoming a professional YouTuber.

Johnson first found YouTube at 14 and now has 1.4 million subscribers who watch his vlogs about entrepreneurship, consumer technology and the internet.

He has covered everything from misinformation to Disney movies. He also has a pocket-sized health app named "Real Body".

He can't go without the Norel app on the iPhone and would like Donald Glover to one day be his mentor.

To read the full Forbes 30 Under 30 list and learn more about the additional three Tech alumni featured (Mia Jordan Nguyen, Tabia, Leonard Robinson and Emily Farnish), visit forbes.com.

Buty to CoC about his inspiration for his career.

"He credits Tech's talented community for his drive to take Immersed to new heights. Buty shared that Immersed wants to fundamentally change the way society goes to work, which the company will likely be able to do as remote workers become more commonplace. Currently living in Austin, Buty shared that he can't live without Google Calendar and that his dream mentor is Elon Musk.

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research career is informed by my experience working with a variety of people while I was at Georgia Tech," Gas said in CoC. "The next thing I'd like to accomplish is to continue to make the world more accessible."

At the Human-AI lab at the University of Colorado, Gas is trying to use innovative workspaces to improve accessibility of visual information.

Two such innovations are watch screens overlays for the visually impaired and an AI-based camera that interprets the surrounding environment.

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Naita Butler-Craig, pictured above, is an aerospace engineering Ph.D. student who was featured, along with seven other Tech community members, in the Forbes 30 Under 30 list.

Making the most out of your summer plans

NATA TORRES
ASSISTANT LIFE EDITOR

So maybe you did not land the perfect summer internship or perhaps you are burnt out from taking life credits hours this semester. While all of your friends will be living it up at CU, Laramie, you may be stuck at home, almost wishing for a full week just to have something to do.

Just because you are not interning or taking classes this summer does not mean you can't have a fun, productive or even career-advancing summer.

Get up for your guide on making the most of your time off.

GET YOUR FEET

NLR and Google are not the only places to find summer jobs. You, having really cool work experience to add to your resume would be ideal. But here's the secret: internships are typically low-paying. Maybe working at a restaurant is not something you'd add to your LinkedIn, but tips add up and you can make up to several hundred dollars in a day just

through your fakes, freelance work.

Retail jobs, such as Target, can pay around \$13 a day. The chance of you working your way up the management chain in three months or less, but you'll be able to earn enough to supplement your summer shopping addiction.

GIVE BACK

Another thing to add to your resume is volunteer work. More importantly, your heart will be full from supporting your community. Find an organization or a cause you actually care about — your work will not be fulfilling unless it speaks to you. Then, email finding out how you can get involved.

Maybe you love puppies and want to work at a local shelter. Or the outside in your jam, find an opportunity to clean up your favorite trail. Very few people will turn away free work, so the volunteering opportunities are endless.

FIND A NEW HOBBY

Talk into your favorite arts and crafts store, find a friendly face in uniform and simply ask

"What is a fun new hobby for me to start?" Tell them a little about your interests, creativity and skills, and let them guide you towards a new beginning.

Crafting and DYING can be a blast to take up time and make a few fun projects for you and your friends.

This same process can apply to a music store, where you can find a new instrument to learn or even the closest fitness studio, where you can start taking classes, and let them guide you towards a new beginning.

The summer of concerts and beaches may still be just out of reach, but once you have been welcomed, travel to a new city and safely explore. Perhaps even create a summer bucket list of fun adventures to check off the week you go by.

Whatever you do, just do not sit around and let your time away from Tech pass you by.



This summer, take advantage of time off of school to find a new hobby, work a service job or volunteer in your community for a cause you care about.

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Making the most out of your summer plans

NATA TORRES
ASSISTANT LIFE EDITOR

So maybe you did not land the perfect summer internship or perhaps you are burnt out from taking life credits hours this semester. While all of your friends will be living it up at CU, Laramie, you may be stuck at home, almost wishing for a full week just to have something to do.

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Another thing to add to your resume is volunteer work. More importantly, your heart will be full from supporting your community. Find an organization or a cause you actually care about — your work will not be fulfilling unless it speaks to you. Then, email finding out how you can get involved.

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"What is a fun new hobby for me to start?" Tell them a little about your interests, creativity and skills, and let them guide you towards a new beginning.

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This summer, take advantage of time off of school to find a new hobby, work a service job or volunteer in your community for a cause you care about.

Life

LIFE EDITOR:
Hope Williams

ASSISTANT LIFE EDITOR:
Maya Torres

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Vaccine requirements

Students discuss the possibility of requiring a COVID-19 vaccine for all students and faculty for a return to campus in fall ➔ 9

technique

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Friday,
April 16, 2021

Forbes 30 Under 30 features alumni, students

SOPHIA TORNE
STAFF WRITER

This year, eight people associated with the Institute were featured in Forbes Magazine's annual 30 Under 30 list. The compilation highlights 600 young entrepreneurs, activists, scientists and creatives. According to Forbes, collectively the "trailblazers" have raised over \$1 billion in venture funding and are proof positive their ambition and innovation can't be guaranteed.

Among the featured innovators is Duy Yang, 29, an assistant professor in the School of Interactive Computing.

She is also affiliated with the Machine Learning Center and is recognized by Forbes for her work combining linguistics, social sciences and machine learning. Through this intersection, she has found ways to use computers to better social problems, such as autism harassment.

She leads Tech's Social and Language Technologies lab, where her team researches human language to improve communication between humans and machines. Yang got her Ph.D. at Carnegie Mellon and her bachelor's degree at Shanghai Jiao Tong University.

According to her interview with Forbes, one app she created without a dollar and her dream mentor is former first lady Michelle Obama.

Second among the Institute's community to be featured is Naita Butler-Craig, a 23-year-old aerospace engineering Ph.D. candidate. She is also a NASA Space Technology Graduate Research fellow in the High-Power Propulsion Lab and a speaker for diverse STEM.

In addition, Butler-Craig advised underrepresented students on research where she hosts an open forum.

"There is a great lack of informational resources available to underrepresented students," said Butler-Craig about the hardships of academic academia in an interview with AE.

This semester, she is working on a stand-alone course on the lab. "I wouldn't be able to do what I do if I thought failure defined me. I think of failure as trying to rise to success," said Butler-Craig when asked about the possibility of failure and how she gets around this fear.

She can't live without Outlook. As someone Tech students know perhaps well and would love to be mentored by, Dr. Mark Johnson, who was the first Black woman to be named a speaker.

"I'm proud to be on the Forbes 30 Under 30 list," said Butler-Craig about the recognition of her work.

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Buty to CoC about his inspiration for his career.

"He credits Tech's talented community for his drive to take Immersed to new heights. Buty shared that Immersed wants to fundamentally change the way society goes to work, which the company will likely be able to do as remote workers become more commonplace. Currently living in Austin, Buty shared that he can't live without Google Calendar and that his dream mentor is Elon Musk.

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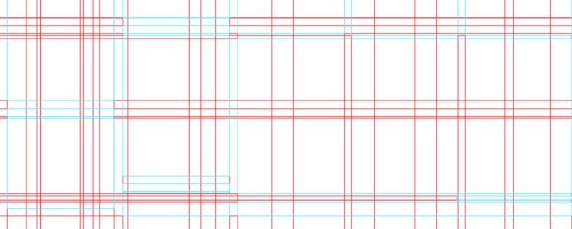
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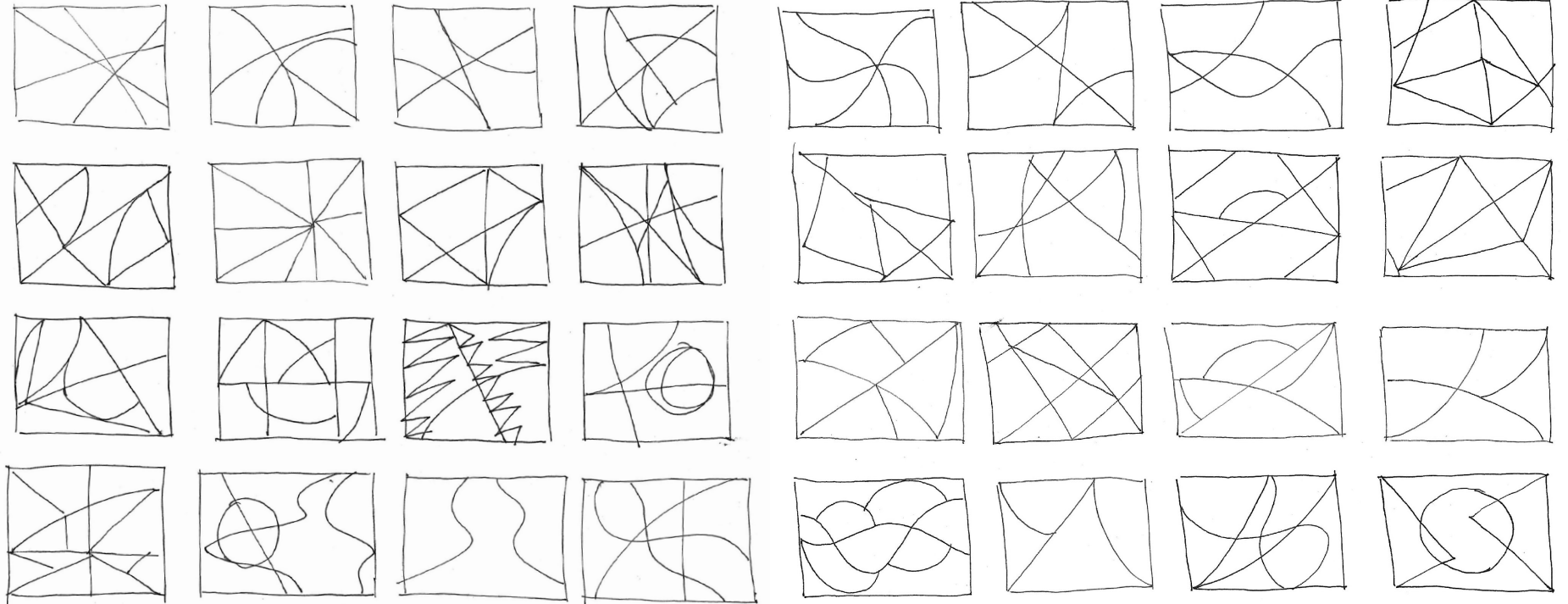
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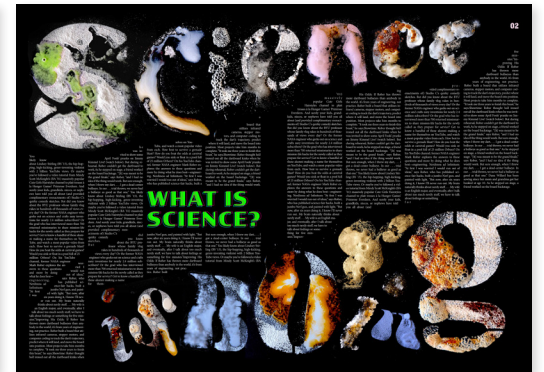
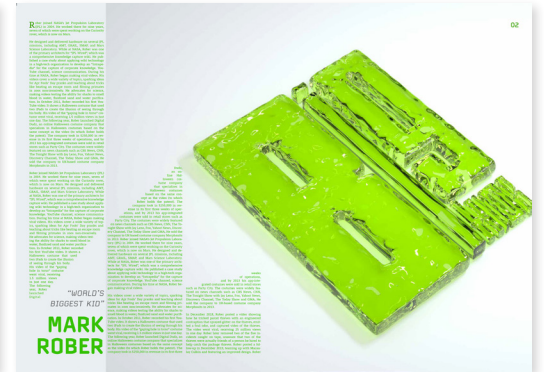
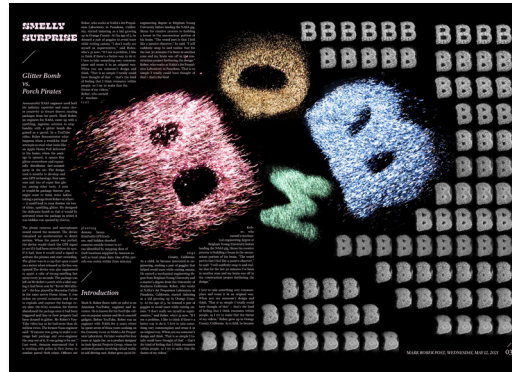
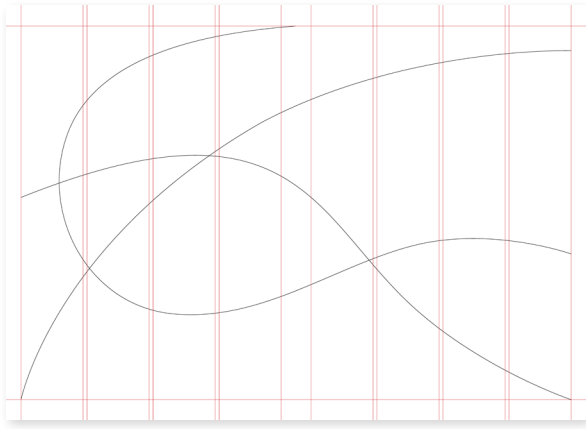
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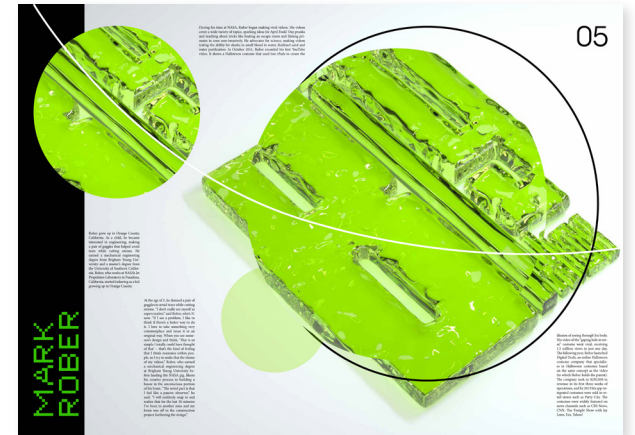
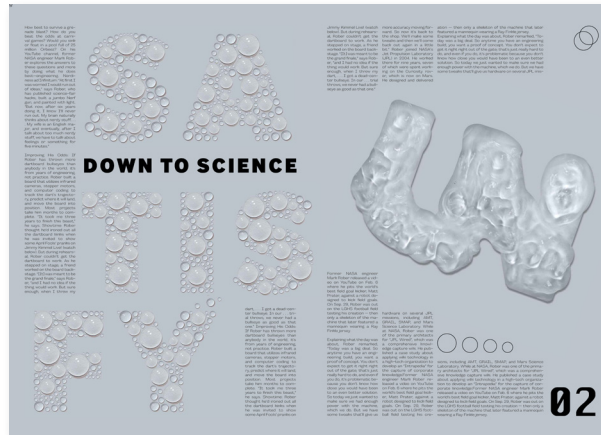
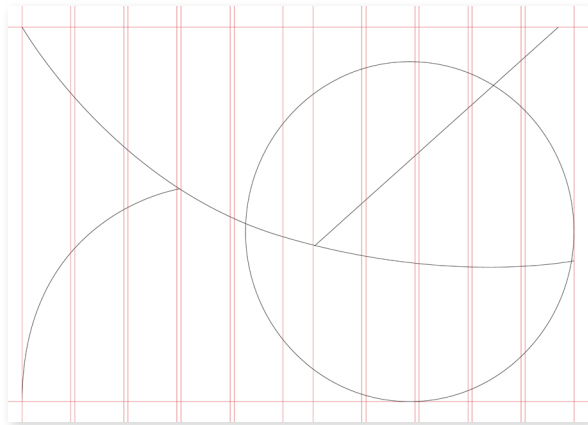
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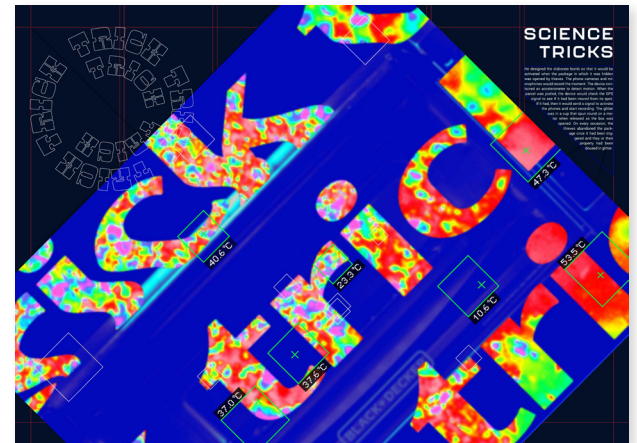
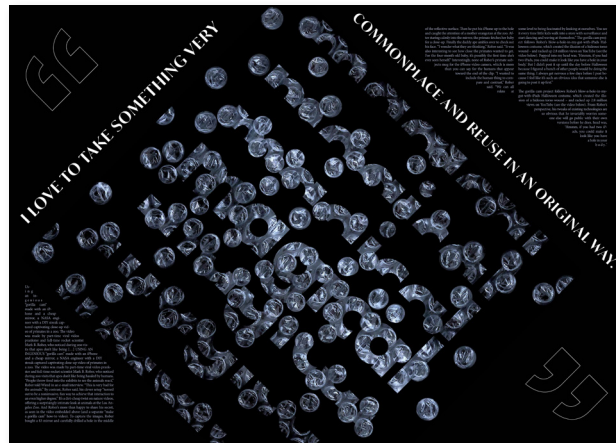
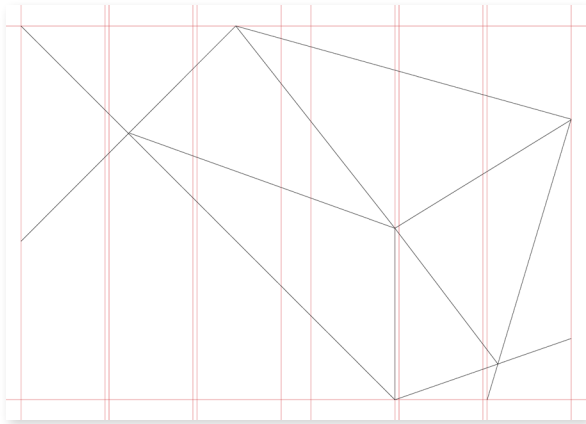
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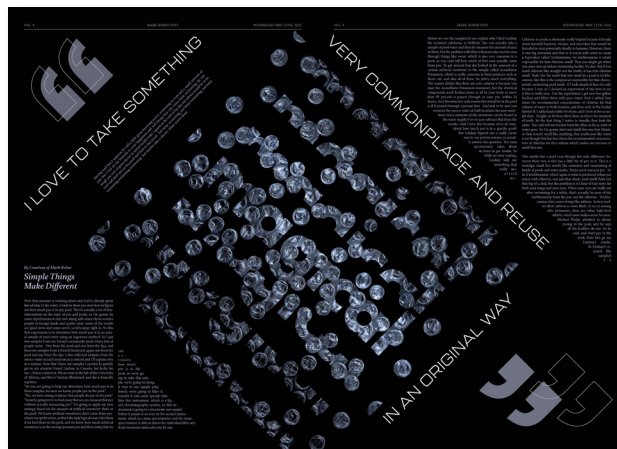
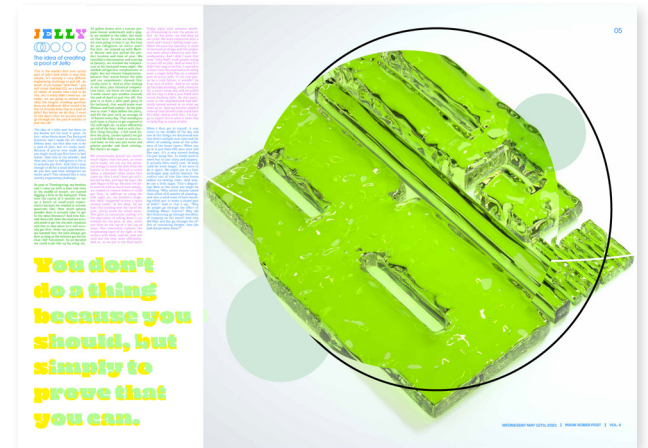
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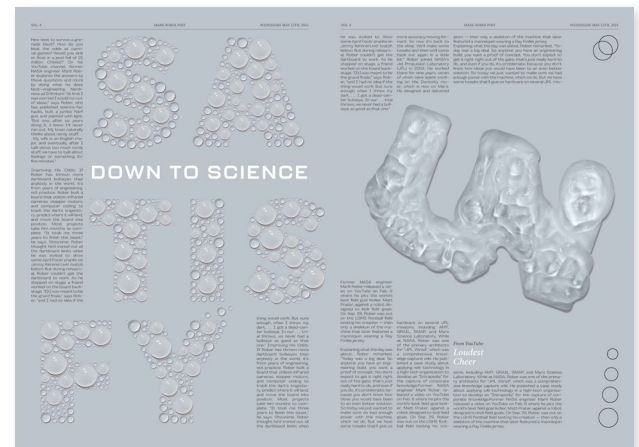
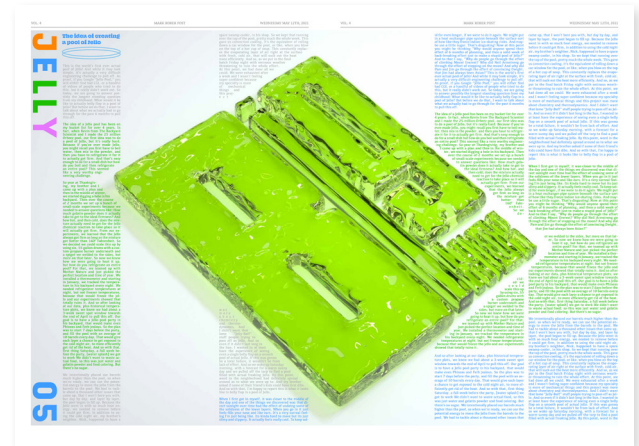
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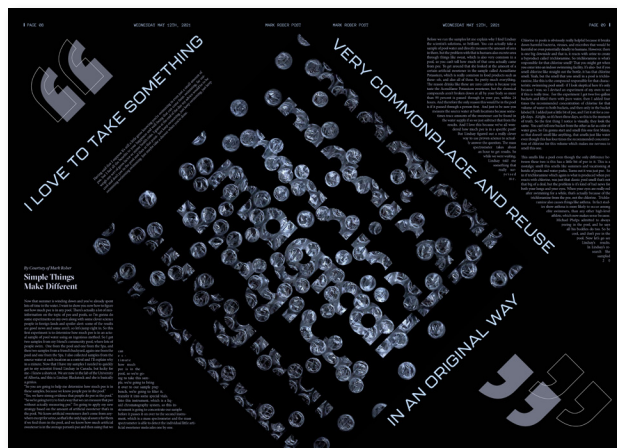
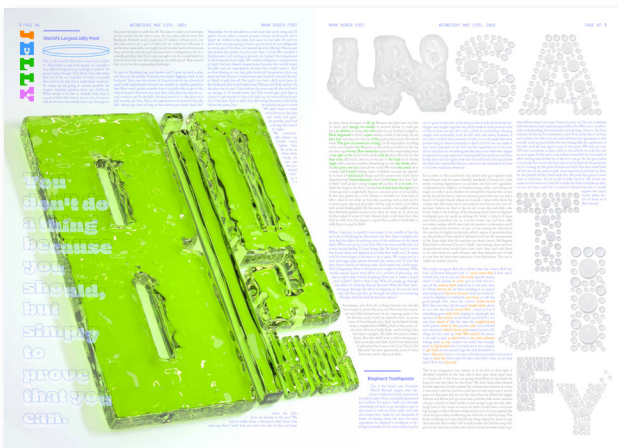
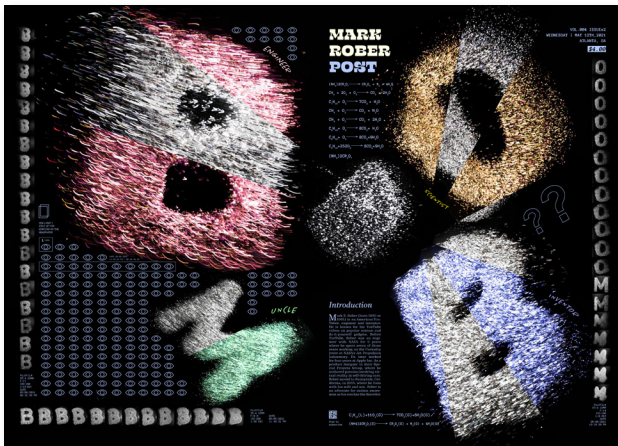
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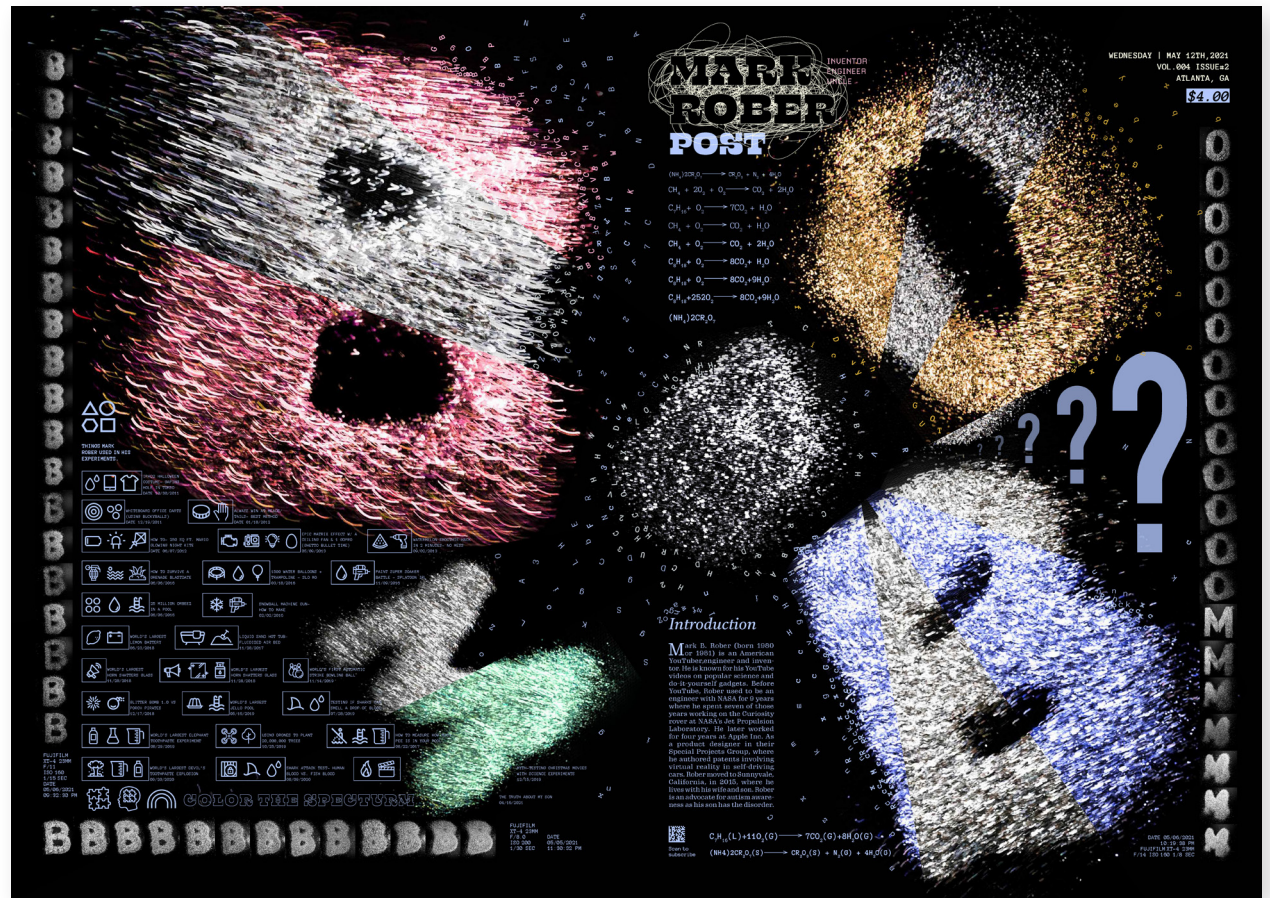
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I PAGE 04 WEDNESDAY MAY 12TH, 2021 MARK ROBER POST

DON'T FALL ASLEEP IF THE SCIENCE IS BORING

SCIENCE

How to measure how much pee is in your pool
By Mark Rober YouTube Channel

Mark Rober Post

WEDNESDAY MAY 12TH, 2021

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I PAGE 06

WORLD'S LARGEST JELLY POOL

This is the world's first ever actual pool of jelly. And while it may look simple, it's actually a very difficult engineering challenge to pull off. As proof, it was George 'The Boss' Hill, one of the most experienced engineers at Google, who will allow that he... or a handful of others...

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not to do this, but it really didn't work out. So today, we are going to show you the biggest challenge that we've had. What would be like to actually build this in a pool of jelly? But before we do that, I want to talk about how we actually built it. It's going to take about 6 months to pull this off. The idea of a jelly pool has been an on and off for over 5 years. In fact, when Kevin Fine, The Boss's brother-in-law, and I made the 25 million Twitter post, our first idea was to do a pool of jelly. It's really hard. Because if you've ever made jelly, you might want to first have to boil water, then mix it in the pot, and then you have to refrigerate it for 6 to 8 hours. And that's not enough to do for a world. But how do you boil and then refrigerate in one pot? This turned into a very complex engineering challenge. So our plan was to make the water boil and then freeze it. The water was in the middle of 2 inches we set up a block of multi-side expansion, because we needed to cover questions like: How much gelatin powder does it actually take up to the ideal amount? And how hot, and...

...which was why we were so on the potential energy to make the jelly from the bottom to the top. We had to make sure it wasn't done when they came out, that I would have you work, but they did, so with it and a lot of other things. I was able to make it work in a pool of jelly. I was able to make it work in a pool of jelly. I was able to make it work in a pool of jelly. I was able to make it work in a pool of jelly.

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I LOVE TO TAKE SOMETHING

Having a hot day? You're not alone. The weather is hot, and the sun is shining. It's a perfect day to take a dip in the pool. But what if you're not sure if the water is safe? Well, you can always take a sample and test it. It's a simple process, and it can save you a lot of trouble. So, next time you're at the pool, take a sample and test it. You'll be glad you did.

VERY COMMONPLACE AND REUSE

IN AN ORIGINAL WAY

U

By Courtesy of Mark Rober

Simple Things Make Different

Now that summer is winding down and you've already spent lots of time in the water, I want to show you how to figure out how much pee is in your pool. It's actually a lot of misadventure on the topic of pee and pools, so I'm gonna do some experiments on my own along with some clever scientist people in foreign lands and spoiler alert some of the results are good news and some aren't, so let's jump right in and let's see how we can determine how much pee is in an actual sample of pool water using an ingenious method. So I got two samples from my friend's community pool, where lots of people swim. One from the pool and one from the Spa, and then two samples from a friend's backyard, one from the pool and one from the Spa. I also collected samples from the source water at each location in a control and I'll explain why in a minute. Now that I have my samples I needed to quickly get to my scientist friend Lindsay in Canada, but lucky for me I have a shortcut. We are now in the lab of the University of Alberta, and this is Lindsay Haddock and she is basically a genius. One from the pool and one from the Spa. So we're going to help me determine how much pee is in these samples, because we know people pee in the pool. I don't have any evidence that people do pee in the pool. That's tricky. So we're going to try to find a way that we can measure that pee without actually measuring pee. I'm going to apply my new strategy based on the amount of artificial sweetener that's in the pool. We know artificial sweeteners don't come from anywhere except for urine, so that's the only logical source for them if we find them in the pool, and we know how much artificial sweetener is in the average person pee and then

filled them with pure water. Then I added four times the recommended concentration of chlorine for that volume of water to both buckets, and from only in the bucket labeled 1 I added just a little bit of pee, and I let it sit for a couple days. Alright, so it's been three days, so this is the content of truth. So the first thing I notice is visually, they look the same. You can't tell one bucket from the other as far as color of water goes. So I'm gonna start and smell this one first Megan, so that doesn't smell like anything, that smells just like water even though this has four times the recommended concentration of chlorine for this volume which makes me nervous to smell it. This smells like a pool even though the only difference between these two is this has a little bit of pee in it. This is a poolside, smell this smelly, like ammonia and you're sitting at borders of pools and water parks. Turns out it was just pee. So in if it's chlorine which again is what is produced when pee reacts with chlorine, was just that classic pool smell that's not that big of a deal, but the problem is if a kind of it does for both your lungs and your eyes. When your eyes are really red after swimming for a while, that's actually because of the disinfection from the pee, not the chlorine. Trichloramine also causes things like asthma. In fact studies show asthma is more likely to occur among elite swimmers than any other high level athletes, which now makes sense because Michael Phelps admitted to always peeing in the pool, and he got his buddies to do too. So he cough, and don't pee in the pool. Now let's go over Lindsay's results. Lindsay tested the samples, 20 pools, swimming pools and 10 public hot tubs. The average concentration of trichloramine for the pools was 470 nanograms per liter and for the hot tubs was 215. So after testing all of my samples we found that here in my friend's backyard pool, they had a concentration of artificial sweetener of 69 nanograms per liter which equates to just under a gallon of pee. Which is actually much lower than the average, but that makes sense because this would be much less than a public pool. These spas had a higher concentration in the pool at 103 but since the spa contains much less volume. That equates to about this much pee. So let me back and then in this public community pool, they had 22 nanograms per liter of artificial sweetener concentration which for this volume is quite a little bit less than a gallon and the spa is higher at a concentration of 103 which is about this much for the volume of spa so the concentration of artificial sweetener in this pool and spa is much much lower than the averages Lindsay saw in the 50 samples she collected, which leads me to believe that the water has been completely replaced recently which happens from time to

swimwear, but the chemical compounds aren't broken down at all by your body so more than 99 percent is passed through to your pee, within 24 hours. And therefore the only reason this would be in the pool is if it passed through a person first. And just to be sure you measure the source water at both locations because sometimes trace amounts of the sweetener can be found in the water supply if we just adhere that from the results. And I love this because we've all wondered how much pee is in a specific pool but Lindsay figured out a really clever way to use physics science to actually answer the question. The mass spectrometer takes about an hour to get results. So while we were waiting, Lindsay told me something that really surprised me. Chlorine in pools is obviously really helpful because it breaks down harmful bacteria, viruses, and rashes that would be harmful or even potentially deadly to humans. However, there is one downside and that is, it reacts with urine to create a byproduct called trichloramine, so trichloramine is what's responsible for that chlorine smell. That you might get when you enter into an outdoor swimming facility. It's also bad if you smell chlorine smell. Well, for the record that you smell in a pool is trichloramine, like this is the compound responsible for that characteristic swimming pool smell. I look skeptical here it's only because I was so skeptical in my own experiment of my own so if that is really true for the experiment I got twelve gallon buckets and

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Conversation with Mark Rober

BY HOWARD HUBBARD AND TRISTAN BARTLETT
 Former NASA engineer Mark Rober released a video on YouTube on Feb. 4 where he pits the world's best field goal kicker, Matt Frazier, against a robot designed to kick field goals. On Sep. 28, Rober was out on the LGHS football field being his usual self — "the only a selection of the machines that later featured a mannequin wearing a Ray-Dunk jersey."

Question #1
HOW HAS THE PANDEMIC AFFECTED THE WAY YOU DO YOUR PROJECTS?
 A: In general, I've had fewer people. I would have come this back in March, except for the pandemic, so this got pushed back quite a bit. But, you know, you just have to be creative about what you do. Right things and we do tests a bunch and it's that stuff. Rober has retained a sense of how you do things over the summer that focused on teaching basic physics concepts.

Question #2
SO ARE YOU STILL THINKING YOU EVENTUALLY WANT TO BECOME A TEACHER?
 A: Potentially. A big part of that was like as you know how bad this system would be, and I didn't want to be since every two months I'd have to see a new person be bad. I kind of wanted to be a presence in people's lives who was looking for some sort of stability, who just got kicked out of school. It was just a really awesome opportunity for you guys in high school. So now that that's established a bit. I feel like I'm going to just kind of wanted to practice and see if I really wanted to teach high school physics, which I do eventually. And I really liked it, so it kind of kicked those boxes, so I may go back and do some but I'm pretty busy now back with a monthly grid, that it's like, maybe now, well see.

Question #3
SO ARE YOU STILL THINKING YOU EVENTUALLY WANT TO BECOME A TEACHER?
 A: Well, the one reason I'm not doing the live streams I really liked it. It's just so hard to get it done because the chance to see it being on all cylinders and there's a lot of things. For good, I would do that I have to come through on, but I'm still in the process of getting my teaching credentials. So I did get a pass on that, but I think I'm two classes in or something.

Temperature Callouts:
 40.6 °C
 37.0 °C
 23.3 °C
 37.6 °C
 47.3 °C
 10.6 °C
 38.6 °C
 53.5 °C

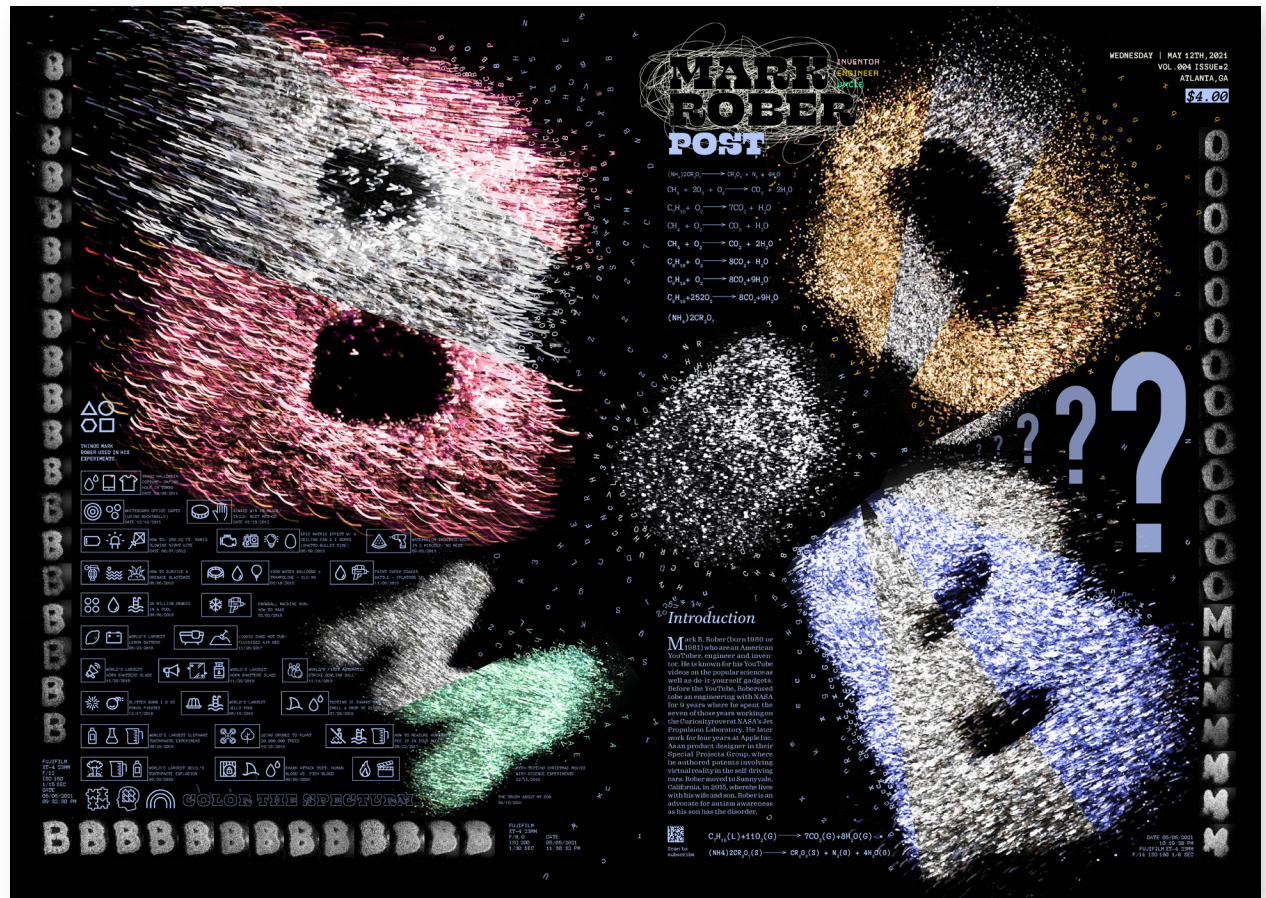
Text Snippets:
 You don't expect to get it right right out of the gate; that's just really hard to do, and even if you do, it's problematic because you don't know how close you would have been to an even better solution. So now it's back to the shop. We'll make some tweaks and then we'll come back out again in a bit. The following is a transcript of an interview with Mark Rober by Howard Hubbard and Tristan Bartlett. The device contained an accelerometer to detect motion. When the parcel was tested, the device would check the GPS signal to see if it had been moved from its spot. If it had then it would send a signal to activate the phone and start recording. The glitter was in a cup that spun around on a motor when released in the test was opened. The device was also equipped to emit a tube of strong smelling fart spray every 30 seconds. The package was left on Mr. Rober's porch with a label saying it had been sent by "Kevin McCannan", the best player by Minnesota Gophers in the 1990s movie Home Alone. It was stolen on 11/11/21.

The device was set to explode and capture the footage every time. On every occasion, the device abandoned the package once it had been triggered and they or their property had been deemed in danger. Mr. Rober's YouTube video has so far had more than six million views.

New engineer said: "If anyone was going to make a average size package and over engineer the crap out of it, it was going to be me." Last week, Amazon announced that it is working with police in New Jersey to install panels that scan. Officers are planting dummy boxes filled with GPS trackers, and hidden down-dwell cameras outside boxes in areas identified by mapping data of their locations supplied by Amazon as well as local crime data. One of the periods you start seeing how interesting segments are worth 10 hours totally worth it. This is the most expensive glass of lemonade you will ever have. You, that actually is a fact. It's a way to get back to your truck. This one so we let the lemonade trickle charge for a couple days. And after that the total power was harvested for the Volkswagen. They have used this ridiculous 48 kilowatt hour battery that can drive itself maybe this is true.

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I PAGE 04 WEDNESDAY MAY 12TH, 2021 MARK ROBER POST

DON'T FALL ASLEEP IF THE SCIENCE IS BORING

How to measure how much pee is in your pool
By Mark Rober YouTube Channel

New that summer is winding down and you're already getting a head start on winter, it's time to take a look at how much pee is in your pool. There's actually a lot of math involved in the amount of pee and poop in a pool, and I'm going to share experiments we've been doing with some other people to figure out how much pee and poop are in your pool. We've been doing this for a while now, and we've been doing it in a way that's a little bit more scientific than just guessing. We've been using a lot of math to figure out how much pee is in your pool, and we've been doing it in a way that's a little bit more scientific than just guessing. We've been using a lot of math to figure out how much pee is in your pool, and we've been doing it in a way that's a little bit more scientific than just guessing.

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WEDNESDAY MAY 12TH, 2021

MARK ROBERT POST

World's Largest Jelly Pool

This is the world's first ever actual pool of Jello. And while many think it's a simple feat, it's actually the most difficult engineering challenge to pull off. As a pool of Jello, it's not a simple feat, it's actually the most difficult engineering challenge to pull off. As a pool of Jello, it's not a simple feat, it's actually the most difficult engineering challenge to pull off.



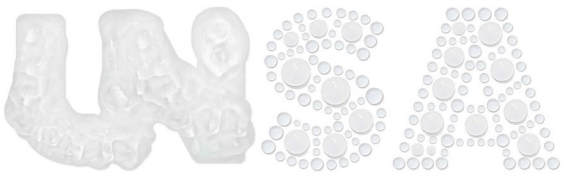
who tried to do this, but it really didn't work out. So today we're going to answer possibly the biggest standing question from our childhood: What would it be like to actually build a pool of Jello? But before we do that, I want to think about what we actually did to get things for the pool. It took us 4 months to pull this off. The idea of a Jello pool has been around for decades, but it's never been done before. The Blueprint Scientist and I made for 25 million Oxford pool, our first idea was to do a pool of Jello, but it's really hard. Because if you ever made Jello, you might recall you first have to boil water, then mix in the powder, and then you have to refrigerate it for a while to get it to set. And that's not enough to do for a small dish like how do you boil and then refrigerate an entire pool? This turned like a very lengthy engineering challenge. So the course of 2 months we set a track of multi-step experiments because we needed to answer questions like: How much gelatin powder does it really take up to the ideal fraction? And how much, and then we had to...

then cold, does the mixture actually need to get for the Jello chemical reaction to take place or will it actually get firm. From our experiments, we learned that the Jello shown gets firm as long as the mixture got below 100°F Fahrenheit. So, that's what we could do: we could get things to be more going to heat it up, but how do you refrigerate an entire pool? For that, we needed to work with Mark Robert Post. Mark Robert Post is a mechanical engineer and inventor. We needed refrigeration equipment, so we got a refrigeration system in January. We needed the temperature to be locked over the entire pool. We needed refrigeration equipment, so we got a refrigeration system in January. We needed the temperature to be locked over the entire pool. We needed refrigeration equipment, so we got a refrigeration system in January.

MARK ROBERT POST

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higher than the pool, so that when we're ready we can use the potential energy to move the Jello from the handle to the pool. We had to make about a thousand other items that cover up that I wish I had more time to do. Because that Jello was in a tank to make that energy was needed to move before we got firm. In addition to using the cold night air, we used another technique. Nick happened to have a space cooling coils in his shop. So we kept that running over the top of the pool. This was a cooling coil, it's the evaporator of a refrigeration system. The coil was in the tank where you have on the top of a hot cup of soup. This completely stopped the evaporator from doing anything. It was not effective. And as we put in the hot coil, it was not effective. And as we put in the hot coil, it was not effective. And as we put in the hot coil, it was not effective.

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to use on Thanksgiving, but I was up with the plant and then in the middle of winter, we moved during a lockdown. The pool was the cause of 2 months of... we were going to heat it up, but how do you refrigerate an entire pool? For that, we needed to work with Mark Robert Post. Mark Robert Post is a mechanical engineer and inventor. We needed refrigeration equipment, so we got a refrigeration system in January.

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Elephant Toothpaste

This is the best of Guinness World Records... we were going to heat it up, but how do you refrigerate an entire pool? For that, we needed to work with Mark Robert Post. Mark Robert Post is a mechanical engineer and inventor. We needed refrigeration equipment, so we got a refrigeration system in January.

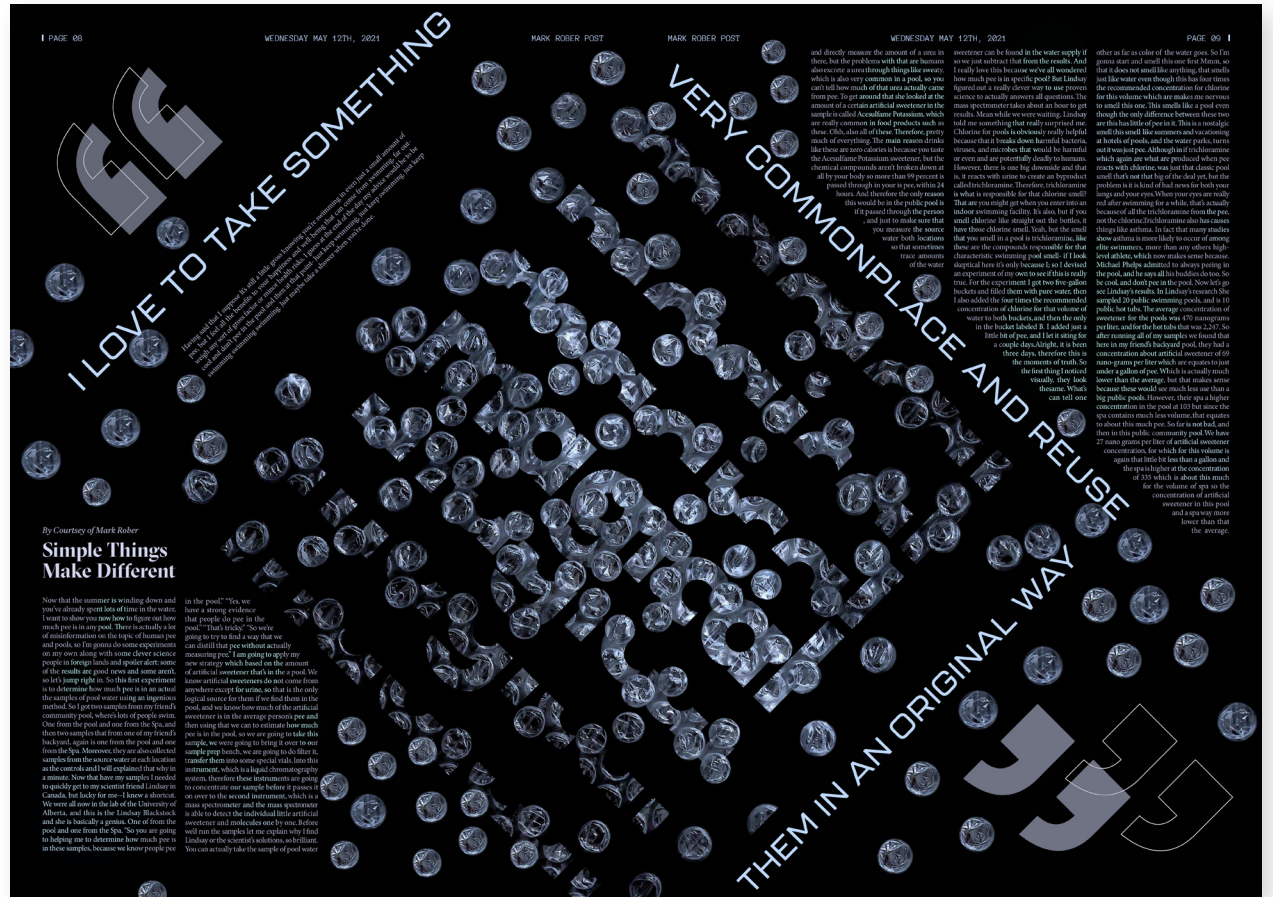
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