

STUDY ASSOCIATION

GEOWIS

 **SUPREMUM**

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**THE
LIMITLESS
EDITION**



EDITORIAL

Starting the academic year, time seems to move faster than usual -- yet somehow, the end of the year always seems so far away. At the start, the year may seem... *limitless* infinite, but it is important that as the days pass by, we don't lose track of our goals.

EDITOR IN CHIEF Lotte Lakeman

This is my first time writing an editorial, and to gain some inspiration for it, I decided to look at previous editorials. During this process, I found that there was a period of time when editorials contained a quote. To bring this concept back, I looked up some "limitless" quotes and found a true gem:

"Business money is limitless." -- Muhammad Yunus

Personally, I am not very inspired by this quote, but I did find it quite funny. Likely when thinking of a "limitless" quote, you might expect a cheesy quote about breaking boundaries and living your life to the fullest. Because this quote is so different, it humored me and figured I would highlight it. As is with any topic, people may have different associations with it.

In this edition of the Supremum, you can learn more about what the topic of "Limitless" means to the members of GEWIS and also the faculty. We will celebrate the lustrum of Défi together and watch as they face their fears and break through their limits. With this being the first edition of the year, one of the first courses everyone experienced will be looked at: Calculus. The new GEWIS board will reveal more about what their tasting evening was like, and our internal writers have also been busy!

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Supremum opt-in list!

Starting this academic year, the Supremum has an opt-in list. If you wish to receive the second and third editions of this academic year, you can sign up over at gew.is/supremum



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CHAIR'S NOTE

“ Next time you will get fined for your negative SudoSOS balance”. If you are often at GEWIS, then you have most likely received this email before. At GEWIS we can order drinks or snacks and pay for them using SudoSOS. In particular, all our members can get a SudoSOS account. But as GEWIS is quite a big association, you might wonder how many accounts we can support, is there a maximum? Or is it limitless?;)”

TEXT Tessa Verheul

I do not have much knowledge about software as a mathematics student, nor am I part of the ABC, so I needed to ask them for help. Luckily the committee was enthusiastic to share the information they had. Soon it became clear, that to answer this question, I needed more background information. So we will first take a look at the predecessors of SudoSOS.

It all started with paper lists to keep track of the drinks bought at GEWIS outside of social drinks. This list was called “De Schandpaal”. Here you could write down your name and your consumptions, so it was clear how much money you owed GEWIS. During a social drink you could buy so called “Borrelkaarten” to pay of your debts.

“ Just for reference, a 0.33L beer costed only 50 cents. And you could buy a borrelkaart with 10,50 of credit for just 10 euros! ”

In 2005, a system was created to keep track of the open debts of people. This system was called the “Schandpaal Onderhoud Systeem” or in short SOS. It was nothing more than a SQL database with a few additional scripts, but it did the job!

Later the need arose for a more complex system. One that would simplify the process of managing all the small transactions. Thus in the year of 2011-2012, the application: “super schandpaal onderhoud systeem” was developed. It is better known as SuSOS and it made it possible for users to input their own transactions using the screens in the room rather than via paper lists. When SuSOS was made, the login screen had 4 digits for membership numbers. During this time, the idea of having more than 10 000 members seemed unrealistic for the near future, so the 4 digits were more than enough for all members to log in at that time.

However, in my first year, SuSOS was still deployed and GEWIS got her 10000th member. While that is a great milestone, I still remember the stress in the association as this reached the SuSOS limit. Now my first thought was to just add a box to the log in screen and call the problem solved. But sadly this was not as easy as it seems. Because a few years before, the source code of SuSOS was lost. At the moment GEWIS only had the compiled binary, making it a lot harder to implement big changes to the code.

Luckily a workaround was quickly formed. My membership number is 10160 and I still managed to buy drinks using SuSOS in my first year. The way it worked was as follows, I filled in 0160 instead of 10160, and then I also filled in my password. The system checked if my password was correct for user 160 and for user 10160. There is only a match at 10160, so it logged me in as member 10160. This would be a problem if both users used the same password. While those chances are small, it shows that this was not a sustainable solution.

So GEWIS needed a new point-of-sale system to be built from the ground up. And in 2022 the first version of SudoSOS deployed with 5 boxes in the log in screen. This time it was not an abbreviation, although Sudo might have a relation to the ‘Super user do’ prompt from Linux. SudoSOS brought many advantages, and now the source code of our point-of-sale system is available again. Making the code more maintainable and suitable for changes. This time the source code is hosted open source on GitHub, so the saying ‘You can never take something off the internet’ actually works in our favour.

Now that we have all the information we need, we can finally answer our question. In its current state SudoSOS has 5 boxes at the log in page, meaning that it can handle membership numbers < 100000. However this time, the source code will most likely be available in the future. So assuming GEWIS will continue her existence for many more years, and we will still have enthusiastic students to update our systems, in theory the possibilities are in fact limitless. On the other side, membership numbers > 100000 might also be very impracticable, so perhaps a smarter solution can be found. But that I will leave to the smart people working in the ABC.

“ Thus in the year of 2011-2012, the application: “super schandpaal onderhoud systeem” was developed ”



A remnant of the past: SuSOS



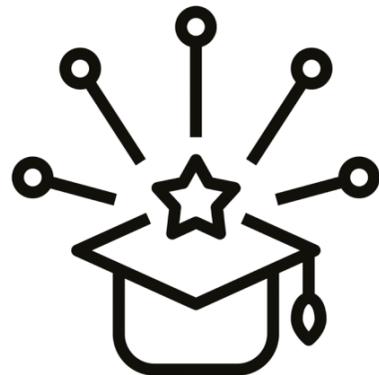
EDUCATION FIRST

Three years ago, I came here to Eindhoven to start my study of Applied Mathematics. It was a big change from what I was used to in my small town all the way back in Zeeland. All of a sudden, there was a grocery store nearby, and buildings higher than 2 stories. And after my first impression of the introduction week, I finally arrived at my very first lectures: Linear Algebra, Set Theory and Calculus.

TEXT Jelte de Kock

Because it was still COVID-times, the lectures were in hybrid mode, so you had to subscribe if you wanted to join the real-life lecture in lecture halls. I remember that university felt like a very big step, going from high-school level mathematics to doing things like set theory, analysis or programming and modelling. Luckily, most people had this feeling, and the lecturers made sure that everyone was on the same page after week one.

The first quartile was still smooth sailing for me, but after that came the course Analysis 1, for which a lot of people had warned me. It was supposed to be the most difficult course in your first year, and I completely agree. It was difficult, not necessarily in the sense of the topics that were tough, but it was the first course where you learned how to do proper mathematical proofs. Fortunately, I passed it on my first try, but this did go at the cost of another course, which I then had to resit. This started the trend of me doing three courses with one resit each quartile. While this was still doable, I would do it differently if I had to do it again and would focus on spreading the workload of the courses more evenly.



In Q3 came the course programming and modelling, for which I was quite excited at first, as I had never done anything like that before. However, it quickly became apparent that programming was not my strong suit. Sadly, since this quartile was quite programming oriented, I found it to be the most difficult quartile of the year. Thankfully, I managed to get through it, and it taught me a valuable lesson: even if some courses are not going as well as you would like, it is not the end of the world, and you will always get another opportunity.

And then, after a tumultuous third exam period (something with someone sending the exam questions before the exam even started...) the fourth and final quartile of my first year had already started. Even though it was a very busy period, I again really liked the courses I was taking. However, because it was so busy, I had to once again prioritize the 3 courses and 2 resits I was doing. This did not completely go to plan and I failed one of my resits which resulted in me not getting my p-certificate. At first, I found this a shame, but then I realized it was not that big of a deal and all would be fine. After all that, and another exciting introduction week, this time as a parent, I was ready for the start of my second year!

CALCULUS, A BASIC COURSE

It is that time of the year again. When I write this anyway, not when you read it. The first quartile of the new academic year brings Calculus to over 3,000 students. One course, three variants. When you come to TU/e for your bachelor program, it is the first subject you are confronted with. In the study guide, it is under the heading "basic courses." This seems to imply that it is a nice warm up for the real difficult stuff. The study guide gives a similar vibe: "The course is partly a repeat of what you learned at secondary school. We then build on this and teach you how to apply the knowledge." That seems doable. And the topics have a familiar ring to them, at least when you had your pre-university education in the Netherlands: limits, differentiation, integration, (first order) differential equations, and simple vector calculation of planes and space. What could possibly go wrong?

TEXT Dr. Robert van der Drift - Managing Director

Well... A few years back, a student from my region in the country, North Holland, made headlines in the local news. He was dubbed Retake Legend and a special website was created entitled "did he pass calculus yet." Nine times, the answer was 'no.' But four years and 10 times is the charm. And he does not seem to be the only one. Many students apparently struggle with limits, as the overall pass rate is consistently just above 60%. Some students put their fate in the hands of the "man under the stairs," hoping a different approach may let them see the light.

From the teachers' perspective, Calculus is a massive undertaking, too. It pushes for the limits of what TU/e can handle. Since this course is given for over 25 years, it became a well-oiled machine. The 3,000 students are divided into groups of hundreds of students each. TU/e does not have enough lecture halls where the groups comfortably fit, but somehow it works (with a nice opportunity for improvement). The exams are a challenge in themselves, but with the help of automation, it became doable for the teachers.

Speaking of automation, would it not be nice to have a tailor-made course for each and every student? Specifically tuned to the topics they have yet to master and skipping what they already know? No human teacher could accomplish this, unless all 3,000 staff

members each take one. However, digital learning allows students to access more knowledge and ensures that the content is customizable and tailored to their specific requirements. The ability to assist each student in studying at their speed and on their route is the most crucial advantage of digital learning.

For some teachers this future is their nightmare. What would remain of their role if computers take over? For others it is their dream. They can devote their time to research while AI is bringing the students to the right level of knowledge and skills. Probably, the best approach is somewhere in the middle, at least for the foreseeable future. Some digital parts combined with on-campus group assignments and interactions. The one-size-fits-all of the large one-way lectures may be partially replaced by short videos in combination with teachers acting as coaches for the students with questions.

One thing is for sure, if you follow the news on AI and robotics, or if you become a co-creator of the future by studying or working in our department, the sky is the limit.





MEMBER

A JOURNEY INTO THEATRE



Getting into a role and completely surrendering yourself to it, is an incredible feeling. The beauty of it? It's something that anyone and everyone can be a part of, no matter their background or experience!

TEXT Daan Sauer

For me, it all started at the age of 11, when we had the end-of-year musical (which is a tradition for most Dutch kids in their last year of primary school). This was a musical that the whole class had to play in and it was kind of a closure of the first stage of our lives. I had this role in the musical where I played the villain, but then, in a true cliché, would fall in love with the main character.

As a little kid, I really put my time into learning all my lines and practicing. Afterwards, I liked it so much that I continued playing in musicals and I still do to this day. I'm now playing in a musical called 'The Three Musketeers.' It was eye-opening for me how a (bigger) production operates. The work different groups within a production put in is amazing. Not only the cast, but also the decor or clothes groups are focusing on making the best possible play and that delivers an incredible feeling of cohesion.

Theatre is all about imagination. It's truly "Limitless." It can be about fairytales, or real-life situations, or something completely else. Theatre also has all different kind of forms: musicals, dance shows or even cabaret. One time, I even went to a show where they sacrificed a car (and yes, that was really fun!). Whether you're performing or watching, to see what other people came up with and how they visualized it is really cool. It brings life to the stage.

Another thing I love about theatre is the atmosphere – where it is totally accepted that people embrace their fantasy or inner child. The things people have come up with in the theatre world is fantastic. I have never seen so many adults and kids smiling at the same time, either on stage or watching the performance of different theatre groups. It's one of the most magical parts of the experience.

If you have never been involved with theatre, consider this your wake-up call! You can join a theatre group (there's even an association in Eindhoven) or you can go watch some incredible shows in the area. It is perfect for going out with friends or even a unique date. Hopefully, you will be as amazed as I am!



ALL KINDS OF LIMITLESS

As a student, you may not be limitless, but as a math teacher, I notice that students sometimes limit themselves a little bit, since they think too low about themselves, for instance about their math skills. They have more (math) talents than they think. Try to get the very best out of yourself; we're here to encourage and help you!

TEXT Dr. Michiel Hochstenbach

In line with the theme, let's review some limitless items! First, from Calculus, you may know that $\lim_{x \rightarrow 0} 1/x$ does not exist, hence is limitless! For $1/x^2$, this is trickier, as some say the limit is ∞ , and some say the limit doesn't exist. (Other well-known M&CS topics where there is no general consensus: does 0 belong to the natural numbers or not? Do arrays start from index 0 or 1? Are positive definite matrices automatically symmetric?) Did you know that the function $1/x$ is actually continuous, in spite of the fact that you can't draw it in 1 penstroke?

Limits are actually very important in math, already in high school: dy/dx is related to a limit of the type $0/0$. Every math student knows the " $\forall \epsilon > 0 \exists \delta > 0$ " expression for a limit. You may know the shortest math joke: "let $\epsilon < 0$ ". Some other types of challenging limits are: $\infty - \infty$, ∞/∞ , $0 \cdot \infty$, 1^∞ ; do you (still) know how to solve them?

I have several hobbies; as a Christian my big passion is Bible study. There are several limitless items in the Bible; the one that appeals most to me is love, especially God's love for us: sky-high (limitless in place and quantity) and eternal (limitless in time: past and future). Our wedding text was "3 things will remain: faith, hope, and love." This implies that everything that you do out of love for someone else, will remain forever; has eternal value. I have a fridge magnet with the text "lesgeven is liefdeswerk" (teaching is an act of love). Maybe it is a nice thought that when you help a fellow student, or explain someone a tricky math question, then this may actually be viewed as a limitless act of love. Quite encouraging!

Very recently I visited a home for elderly people, and I spoke to a 96-year-old lady, and a gentleman of the same age. I asked the lady what the most beautiful moment of her life had been. Her answer surprised me a lot: "my whole life has been beautiful, there have been so many beautiful moments". Quite a grateful attitude! The man said: "getting children, and seeing them grow up". This is also a very nice aspect for us as teachers; to see students grow in so many aspects, of which mathematics is merely one. Although our natural life is not limitless, I found the wisdom of these mature people inspiring.

With a big wink (knipoog): another almost limitless item is the many disappointments and sad moments that one has as a Feyenoord supporter. As actor Gerard Cox likes to say: "Feyenoord supporter, dat ben je niet voor je lol" (one isn't Feyenoord supporter for fun). But PSV can also clearly use some extra success and points in Europe (let's go PSV!).

In my current Industrial Engineering Calculus and Math 1 classes, there are so many (ca. 70!) students from Istanbul, that I decided to take Fenerbahce as example in Logic. Maybe you can guess what this means in this context: $\neg (\forall x: T(x) \rightarrow F(x))$. In this class alone we have almost 40 nationalities, very impressive, which holds for TU/e more in general. So, let's have "limitless" fun together!



DEPARTMENT



LIMITLESS PROCESSES

This is not the first time I am writing for Supremum, but it is the first time I am aware of it. I made it to Infima on several occasions and even onto the Supremum Calendar (not sure which year) on Tuesday, May 2nd. My name is Boudewijn van Dongen, professor in Process Analytics, columnist for Cursor and part of the history of this institute.

TEXT Prof. dr. ir. Boudewijn van Dongen

My TU/e journey began in the mid-nineties. Through my high school, close to Tilburg, I signed up to join the “informatica-olympiade” held at TU/e. I came to Eindhoven by train and the 16-year-old me worked in a small team of kids who had to make software to solve mathematical puzzles. Note that this was in a time that I had never seen a laptop and at home, we had a desktop computer with 486SX CPU (not the much faster DX).

It was that day that I decided to study computer science. I visited the open-days of TU/e, Delft and Twente, but in 1998, I started as a student here in the joint program Computer Science and Mathematics and I never left. I chose for the joint program because I was afraid that Computer Science would be nerdy. While the latter was for sure the case, the small group of joint-degree students was not less nerdy and I fitted in perfectly. Yes, if you google my name, you do get a picture of Sheldon and yes, if you look hard enough, you can find pictures of me wearing socks in sandals.

I finished my Computer Science degree with a graduation project at Vodafone Maastricht supervised by Onno Boxma, who wanted me to look at differential equations, but instead I programmed a fixed-point estimation technique, as I studied computer science, not mathematics. I then continued as a PhD student in Industrial Engineering, after which I became a post-doc, assistant professor, associate professor and full professor in, what is now called, Data Science, specifically Process Analytics or the data-driven study of processes.

So, my research revolves around processes. Not chemical processes, but mainly administrative processes. Processes in which actors perform coherent tasks to jointly reach a common goal. Think of the process of registering for an exam (the student and the administration perform actions in Osiris to reach the goal of registering for the exam), but also the treatment process of a patient in a hospital (with many human actors trying to cure the patient), or checking in a bag at an airport (where many actors are machines getting the bag scanned and delivered to your flight on time).

These processes leave data everywhere. Logs of who did what, when and why are called event logs and this is the data we study in my group to fully understand the inner workings of a process and to do so, we use a specific language to model processes, called Petri nets. It really is a shame that there is no more space in the department’s Bachelor programs to teach the finesses of Petri nets to students, but I guess CBL is also important.

“ I was afraid that Computer Science would be nerdy ”

When I teach students about processes, I always paint the picture of the movie “The Matrix”, where Neo starts seeing the world he lives in as green characters dropping from the screen, which is the Hollywood interpretation of computer code. This is how I want students to see the processes around them too. See through the brochures, facades and happy-flow descriptions and actually see the ugly details of processes. And if you have been in the same organization as long as I have, you truly see that organizations’ processes in that way.

I can of course go on forever on processes, but that would be education and that’s not what Supremum is for. We teach courses for that, so please join our courses in the Master, or, if you are not a student, join the professional training in EAISI. Instead, I want to say a few words about one of the most successful things I did, but that has become harder and harder to do. What frustrates me is that this is for the wrong reasons.

When I started working on process mining around 2001, my supervisor, Wil van der Aalst and his colleagues had a large network of companies they worked with. These companies were, at the time, implementing process aware technology (workflow systems) and they shared lots of data with us for analysis. We often published about the studies we did on this data.

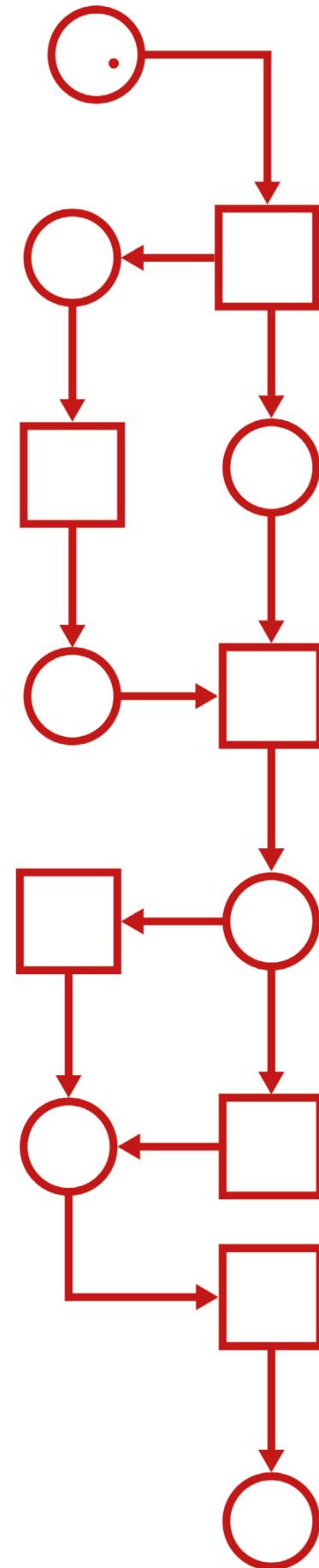
Over time, our international colleagues started asking us to share the data with them and once we did, they would complain that the data was wrong (read: their ideas did not work on the real-life data). So, in 2011, I organized the first International Business Process Intelligence Challenge. I obtained a dataset about 1100 patients in a Dutch Academic Hospital and got approval to publish this data (of course fully anonymized). I then challenged researchers and practitioners worldwide to show what they could do with this data.

After this first year, I published data from a Dutch bank (2012 and 2017), Volvo IT (2013), Rabobank ICT (2014), five Dutch municipalities (2015), UWV website (2016), the EU Agricultural Guarantee Fund (2018), a Dutch multinational in coatings and paints (2019) and TU/e’s travel administration (2020). The possibilities for sharing data seemed limitless and my datasets are consistently amongst the top downloaded datasets of the 4TU Center for Research Data, where they are kept.

Unfortunately, in 2020 Covid-19 hit the world and this had a negative side effect for me. People were forced to stay home and use all kinds of online technology that they had never seen before and suddenly, the entire society became privacy-aware. People started looking at where and how they shared their data more carefully and companies started protecting their data against attacks, hacks or leaks. Even at TU/e, the data storage and protection policies have become far stricter since then.

As such, it has become impossible for me to make real-life data publicly available. I have not managed to convince a single company to publicly share data since 2020. At the same time, publishers in our field are becoming more and more demanding when it comes to open science and reproducibility. In data science, you are expected to publish scientific results, data and source code all as one package in the context of open science. As TU/e, we also strongly support this with Openness and Responsibility being two of our CORE values.

I would like to therefore call out to all readers. If you are reading this and you are willing to share a real-life dataset about one of your processes with the world (in anonymized form of course), please, contact us! I can promise that worldwide dozens of students, researchers and even professionals will look at this data and tell you how to improve your process. Who knows, maybe your data becomes their matrix.



*Infimum: A strange or funny quotation from a teacher, a student or faculty member.
Here you can find infima sent to the Supremum committee via inf.gewis.nl.*

Sunny: "En toen moest ik de zwarte erin doen!"

Pieter W.: "This system is potentially just uniformly fucked."

Leon en Ollie als proost: "Op sjaarzen doen!"

Leon V.: "Ik mag Sven niet meer aan raken als hij geen kleren aan heeft"

Elwin: "Bestuuurrrr, repareer me"

Leon: "Fix me?"

Elwin: "Bestuur, ik ben stuk"

Sven: "Hoi stuk, ik ben bestuur"

Tessa about a risky infimum: "Send it in after the first of July!"

Bartjan H.: "Ik lag ook te voosen met Lieke in bed, maar ik ben wel efficiënt."

Bartjan tegen Ollie: "Vreemdgaan is ook gaan"

Hiske: "Wil er iemand bittergarnituur?"

Pim: "Nee dat kan niet, de vaatwasser staat nog aan."

Elwin als sjaars: "als sjaars moet je vooral toekijken, dat is het advies wat ik geef aan sjaarzen"

Pim: "Je bent zelf sjaars"

Leon V. over de BEP van Bartjan H.

Leon V.: "Polyomino is wanneer je sex hebt met een heleboel mensen maar tegelijkertijd dominos speelt."

Leon V.: "Ik ken ook geen Limburgse dorpsnamen, dat is mijn tweede zwakte na voetbal."

Tessa: "Wat als je je been verliest tijdens de cobo, dan kan je niet meer autorijden en komen we niet thuis"

Ciska: "Ligt eraan, is het een automaat?"

Leon V., in het aquarium: "Dit is best wel hip, al die Fibonacci-dingen enzo."

Maiko C.: "Wat?"

Ruben W.: "Aardbei"

Bartjan H.: "Common L, he just said strawberry, L bozo"

Bartjan H.: "Ik heb twee favoriete besluiten"

Ruben W.: "Bartjan H. wordt per 1 juli 2022 Commissaris Onderwijs der studievereniging GEWIS?"

Bartjan H.: "Nee dat was echt een kut idee, wie heeft dat besloten?"

Roy: "Juuul, als ik nou m'n eigen accu heb vervangen van m'n laptop, heb ik dan mezelf ge-CBC'd of geBCF't?"

Wietske: "Gebef!"

Bartjan H.: "Mag ik ook de euforie van het intern inwerk moment ervaren?"

Lucas M.: "Je mag de cuck zijn."

Mitchel: "Volgens mijn moeder ben ik af sinds dat ik 18 ben."

Lucas: "Nee, mijn moeder is echt een bittere vrouw."

Lora S.: "Don't sell yourself"

Sven M.: "I have a good body, I can sell myself"

Ece E.: "Me in depression like Turkish economy"

Tobin: "De meeste zangeressen zijn vrouwelijk."

Sayra: "I was in Nijmegen yesterday."

Ivo vd L.: "I ate baklava on wednesday."

Matthijs S.: "If B.O.O.M. plays board games, then why does GEPWNAGE exist?"

Ece to Aimee: "At first I thought you were a first year"

Leniek: "Het enige waar hij mee druk is, is doen alsof ie druk is."

Maiko C.: "Noël, wil jij bij de AViCo?"

Noël van de V.: "Ik zit al bij AViCo, jij kut sjaars"

Jens: "Is dit chatgpt? Aimee: 'Nee, het is doppio denk ik."

Robin the first day he is board: "Kut, nee, ik ben bestuur, fuck."

Jens: "Ik wil niet yappa yappa ik wil happa happa"

Samuel O.: "MAC adres? Ik ken er twee in de stad."

Robin v D.: "I don't have a drinking problem, I have a drinking opportunity."

Daan V.: "Iemand anders nog iets van de Spar?"

Max O.: "Wil om te leven"

Noël tijdens de lunch: "hé Wouter, kom jij zo ook alcohol drinken?"

Leon V.: "Ik heb echt zin in jullie moeders donderdag."

Ciska: "Ben je aangeschoten, word je zo langzaam nuchter."

Noël: "Ja dat moet je echt niet willen, ik zou doordrinken."

Wouter v d H.: "Liever een kater dan kamertemperatuur IQ."

Elwin H.: "Stijn, hoeveel kinderen ga je later nemen?"

Hannah v E.: "Wanneer is het feestje? Het is mijn Kasco Lustrum!"

Robin v. D. over MultiVers: "Moet ik mezelf als persoon aanmaken dan?"

Jelte d. K.: "Dat hebben je ouders toch al voor je gedaan?"

Samuel die zich net snijdt aan een exactemes: "Er zit zo'n scherp randje daar"

Sjaars Dana, deurman tijdens de CoBo tegen het Wervingsdagen bestuur: "Is dat een pan of een cadeautje? want pannen mogen in de garderobe."

Willem S.: "Dat was sowieso bij die hippe toko met de krokodil!"

Arend R.: "Wat, de spar?"

Jelmer: "Ik vind mensen zonder ruggengraat wel fijn altijd."

Ysa: "Wel in het Engeles want anders krijg ik error."

Aimee: "Aaaaaaaaahaaaaaa..."

Ollie: "Beeeeeheeeee"

Sven M. die aan z'n pols voelt: "Wat is dit"

Maiko C.: "Dat is dat stukje ruggengraat dat je kwijt was"

Sven M.: "Je zou maar moeten vluchten voor oorlog en dan in België belanden"

Hiske: "Ik heb dus gezegd dat Frankrijk wint van Portugal maar Portugal wereldkampioen wordt."

Robin v D.: "Dat is best raar voor een Europees kampioenschap."

Jort v D.: "De bij achtervolgt me"

Lucas M.: "Dat is hoe water werkt"



INTRO AND FLUP

The introduction week is the best way to start your studies. Besides seeing lots of Eindhoven and the fun you can have during your education, it's also a time of getting to know the friends that are now my best friends. I wouldn't have changed it for the world. It's crazy how people you have known for a maximum of four days can become such a big part of your life already. It also made me realize how much fun it would be to join GEWIS.

TEXT Lucas van Zuijdarn

THE VERY START OF MY STUDIES

Normally the intro would have a very structured beginning. However, if you are as stupid as I was, the intro start is very chaotic. Though given very clear instructions, I managed to arrive too late with my sleeping bag still under my arm.

Anyways, after a long time of searching I got to the group I'd be spending the next few days with. This year's theme was "The Hunger Games". We had to earn valuta to buy ourselves to victory. We could earn these coins by doing Crazy88 challenges. This was a great and most importantly a very fun way to get to know your fellow students. After getting to know Eindhoven and the campus through riddles and fun activities, we chose the Tranquilo Track over the parties, where my friends and I played boardgames every night at the Knights.

The fraternities of GEWIS had arranged some very fun activities around the campus throughout the whole week. It was during the campus market that I decided to also go to the FLUP.

During our intro week our parents had a fun game called 'whose triangle is it?'. The idea of the game was to figure out what was going on and then play along laughing at the people that were still trying to figure it out. It was a great way to bond with my fellow groupmates.

On Wednesday there was a pub-crawl instead of one party. After playing some boardgames me and my friends wanted to get something to eat and, on our way there, we went by Stratumseind to look for our parents. It was a lot of fun to see this side of our parents as well. They embraced our visit with hugs and enthusiasm because they were very drunk. We then continued our walk to the McDonald's and then went back to play some more boardgames.

Then the day we had all been told would happen from the start: 'Doorhaal Donderdag'. We pulled an all-nighter with people we had only just met. My friends and I stayed up all night at the Knights. It was then time for breakfast provided by GEWIS and the final game where we were introduced to the 'Kassa Remix' for the first time.



A WEEKEND AWAY WITH GEWIS

We had to drop our camping equipment at GEWIS and then proceeded on bike through the different towns next to Eindhoven visiting all kinds of pubs on the way. This was one of the best times where we just sat down and talked under the pleasure of a drink.

After all the pubs we had to leave our bikes in a van and continue on foot for the 'dropping.' We first walked to the somewhat older students where we had to find a bottle of Apfelkorn. We found it quite quickly and emptied it even quicker.

Our next stop was at the board. Here we talked about some VERY important stuff in the middle of the night in the middle of the woods. Doesn't sound like a cult at all. After a lot of opinion polls we started our journey to the last post, the very secret and not at all reused location of the campsite.

When we'd had our toasties at around 3am we slowly went to bed only to wake up a few hours later. Again, we could make our own toasties as breakfast. The Saturday was filled with fun activities organised by the fraternities of GEWIS to get to know them as well. I, for example, participated in the baseball game of B.O.O.M. where they used swimming pools as bases.

Then we were just chilling in and around the hot tub that was not only filled with water, but also with cans of Viper, since the water was still cold. People came around with cooked eggs or buns with 'knakworst.' It was a day full of laughter and games, and I think we've already established that I like games.

“ ... we found it quite quickly and emptied it even quicker ”

After the barbecue the much-awaited beer cantus started. We all had a blast, some a little more than others, and this was also my first cantus. I was seated at a table with somewhat more experience people who told me everything I had to say or do in certain situations. For instance, when we had to stand on our bench and lift our table. I was dreading the cantus for a long time, but it turned out to be so much fun! We sang and we drank and we created memories that will last a lifetime.

When the cantus was done, I went to my tent to try and get some sleep, but unfortunately my tentmates had a little too much fun at the cantus and vomited more than once in the tent. So, I got zero sleep and was very tired the next day. I got up early, cleaned out my stuff, helped cleaning up the campsite and then went home just in time to see the Formula 1 race.

All in all, I've had a great time thanks to GEWIS. Meeting people when you first start studying can be rough, however GEWIS does everything in their power to help you loosen up and make friends with your fellow students. This made me realize how much fun studying here can be, even if you don't like going to all kinds of parties!





HA'VO

When I started high school, I joined a havo-vwo class as my school did not have just vwo classes (and my CITO score would have been too low, but that is merely a detail). After having finished my first year, it was rather clear that havo would be a better fit and thus for the upcoming 5 years I enjoyed my time doing havo.

TEXT Lotte Lakeman

In year 3, I had to choose a “profile” and decided that E&M (Economics and Society) would be a nice fit, with mathematics B and physics as my electives. For a E&M profile this was definitely not the standard choice, but as it seemed to match my interests best, I went with it.

Year 4 started, and it all did not go as smoothly as I had hoped. I was rather unmotivated and did not keep up with my homework. The course history started at the very beginning of human history and I was already starting to regret my choice. Still, I figured that it would get better and eventually we would reach the more “fun” parts of history. Meanwhile, I found it difficult that I was constantly seeing new faces at each class. Because my profile was not a standard one, it was just me and two other people taking it. Looking back at it now, this should not have mattered, but at the time I found it frustrating.

It must have been around the carnival break when I realized that I really was not enjoying my profile and I wanted to switch to something completely different. There were some talks about maybe taking two additional courses to make up for the courses I wanted to drop, but it seemed like too much of a hassle and I decided to redo a year.



Deciding to redo a year and switching profiles meant that it was now or never, I had to pass the year or otherwise I would be kicked out off school. I went with a N&G profile (Nature and Health) keeping mathematics B. Classes were more fun again and I started to take my homework very seriously, more serious than I had ever before in my entire school career. At some point my dad recommended I should also take mathematics D in case I wanted to do vwo after havo. Although I insisted I would never want to do vwo after havo, I took his advice anyway because I was a pushover (... maybe because I *am* a pushover).

Now doing both mathematics B and D, I was really starting to enjoy school again with those two courses being my clear favorite. I successfully passed year 4 and was allowed to continue to my final year of havo, year 5.

In year 5, my mathematics teacher mentioned somewhere along the way that a step he was doing was more complex than he made it seem. Curious by the remark, I asked about it. He explained to us that if we were to do vwo, we would go over this topic called “limits”. Sadly, I was doing havo, it would not be taught to me. Despite the fact that certain topics were kept hidden from me in the havo, it turned out that the havo had always been limit-less.

MYFUTURE FOR YOUR FUTURE

After finishing my board year, I was invited to join the MyFuture team at our university. I will be telling you about what that means, entails and how it is to have a student job on our campus. If you can keep your attention span high, I will also give you some tips and tricks for having a student job during your study!

TEXT Maiko Cheng

MYFUTURE

MyFuture is the collective of organizations that organize and facilitate career development at our university. GEWIS is also part of this collective and helps through organizing lunch lectures, company visits, and famed symposia with famous speakers like James Grime. By attending these activities, you also obtain the 7 MyFuture Activities (MFA) points that you need to obtain to receive your diploma.

This collective is managed and supported by the MyFuture team which consists of students from different backgrounds; such as promotion, policy-making within the university, quality assurance, ICT, and communication. MyFuture also organizes the MyFuture week and hosts multiple stunts over the year where you can find us in our beautiful pink polos or sweaters.

Within our team, I work on the portfolios ICT, quality assurance, communication and review committee. I make sure the website works and that everything on the backend works fine. For quality assurance, I find ways to evaluate the MyFuture system and ensure that we are truly working to increase your confidence to find your next career. For communication, I ensure that our vision and message are clear and transparent. Lastly, I’m part of the review committee with multiple higher-ups at our university. Here, I make sure you get the right amount of MFA points for your activities, and decide upon better ways to obtain those MFA points.

We have recently opened up the career desk, in MetaForum next to ESA, together with Career Academy & Skillslab which is open every Monday-Thursday during the break. You can find me there on most Tuesdays. You can come by for any career-related questions, whether it be checking your CV, LinkedIn, or any problems you are facing with Academy Attendance systems, you are free to come by and ask your question, the options are limitless.

STUDENT JOBS DURING YOUR STUDY

Being a MyFuture team member is not my first student job at our university. I have always worked ever since I was 15, so I am quite used to it. In 2022, I started working at EuFlex Technificent, working on the website, and creating designs. I also started working for the ESoE (Eindhoven School of Education) in the same period, and updated their study guide and created some promotion materials including posters, flyers and videos. More recently, I have changed my position to 4TU, the research institute created by the technical universities in the Netherlands. Personally, I mostly do administrative tasks and organize events.

MyFuture.tue.nl



Currently, I work 3 student jobs at the same time, spending about 12 hours per week for EuFlex, 5 hours per week for the ESoE and 6 hours per week for MyFuture. Basically, this feels like working part-time next to my study. The workload is quite high, especially balancing the different responsibilities and deadlines, but it has been a great learning experience to work so much (also, I don't mind the money). You might not believe it, but I actually never work during the weekends, so I condense everything into my week. Before rushing to find your student job, I'd like to offer you some tips and tricks that you can use to get some hard-earned cash during your study.

“ Currently, I work 3 students jobs at the same time... ”

1. BECOME GREAT AT TASK MANAGEMENT

When you have three courses, hobbies, committees at GEWIS, and a job, there are infinite deadlines and tasks being thrown at you. Find a way to write these tasks and deadlines down. I use Trello and Microsoft To Do religiously. It's important that whatever method you choose works for you.

2. SAY "NO" MORE OFTEN

Sometimes you just have actually reached your mental or physical limit. Critically evaluate what matters most to you and don't be afraid to say no sometimes. It clearly shows confidence and ability. In my experience, people prefer to know my design won't be done, instead of having it be low quality or late.

3. FOCUS ON YOUR STUDY

Always remember that your study is the first reason why you came here. It will be very tempting to work more and more to get more money. However, after you graduate, especially in your sectors, the big money will come in. Make sure that your job does not impede your study progression (too much).

4. CASH IS GREAT, FUN IS GREATER

While the EuFlex salary is great (16.49 euro per hour gross, around 19 euro per hour net in 2024), you should strive to find a job that suits you, and you will get a lot out of it. Do you get energy from doing your job or are you struggling to meet your deadlines? Evaluate this every so often to check on yourself.

5. LEARN BASIC DUTCH

This is probably the hardest point, and certainly not necessary for all jobs. In my experience of working for EuFlex for 2 years and being External Affairs Officer of the 42nd board of GEWIS, I have seen that there are many jobs that may fit you very well, but often mention "Dutch only." In practice, these companies often allow people that are "learning Dutch." As long as you're open to learn Dutch, they will be very open and eager to hire you.

To conclude, I highly recommend you to find a student job if you have the time and mental space for it. You should keep an eye out at euflex.nl/student and have a look at the weekly newsletter sent out every Sunday.

In the meantime, feel free to ask me any questions about it at m.cheng@student.tue.nl or come by the Career Desk during any break except Friday. Good luck!



FACING FEARS WITH DÉFI

Imagine: you are leaping of the building, just about to abseil. And just before you let go of the rope to move, there is a moment of hesitation. A moment when your mind is a little empty, unable to tell you whether you are brave and excited, or perhaps scared to death and unable to move. Which is it? What is the next step?

TEXT Lora Šimić

This is an experience I had during the Abseiling with Défi on Monday 7 October. It was a moment in which I did not know what my action of moving my foot to the right would result in, and in which I tried to gather more information to help me make a decision. Decision making is an essential part of our daily lives. We do it when we decide what to wear for the day or when we decide whether to have a thick or thin slice of bread for breakfast. Some decisions are easier than others, and some have more consequences than others. And often we encounter that moment when we are just floating in our head, wondering what to do - a moment of decisional hesitation. Decisional hesitation is the process of delaying or avoiding making a decision. Some of the most common causes of decisional hesitation are fear of failure, lack of information and uncertainty about the future. In addition to these causes, there are other factors that can contribute to procrastination. These include lack of time, lack of resources and lack of support from others. All of these things determine our motivation and strength to move out of our comfort zone.

So how can we overcome these hesitations? To do that, especially when faced with fear, start by looking at what you're feeling. Fear and uncertainty are perfectly normal emotions, and sometimes it helps to remind yourself of that. But the key is to face these feelings and not let them paralyze you. Think about why you're hesitating. Maybe it's the fear of failure, the worry that things won't go as planned or that you'll embarrass yourself. But what if, instead of focusing on what could go wrong, you focused on what could go right? Imagine yourself succeeding. What would that feel like?

Imagine the pride and satisfaction of having done something that once seemed impossible. This mindset shift can help you see that every decision to move forward, no matter how scary, brings with it the possibility of growth and success. Another powerful way to combat procrastination is to break down the challenge into smaller, more manageable steps. Instead of staring at the whole mountain you have to climb, focus on the next step. For example, if you're terrified of public speaking, don't think about giving a whole speech. Start by practicing in front of a friend, then a small group, and work your way up. If you're afraid to try something new, like a sport, start by just watching or practicing in private before committing to a full session. Little by little, you'll find that the steps you take will build your confidence.

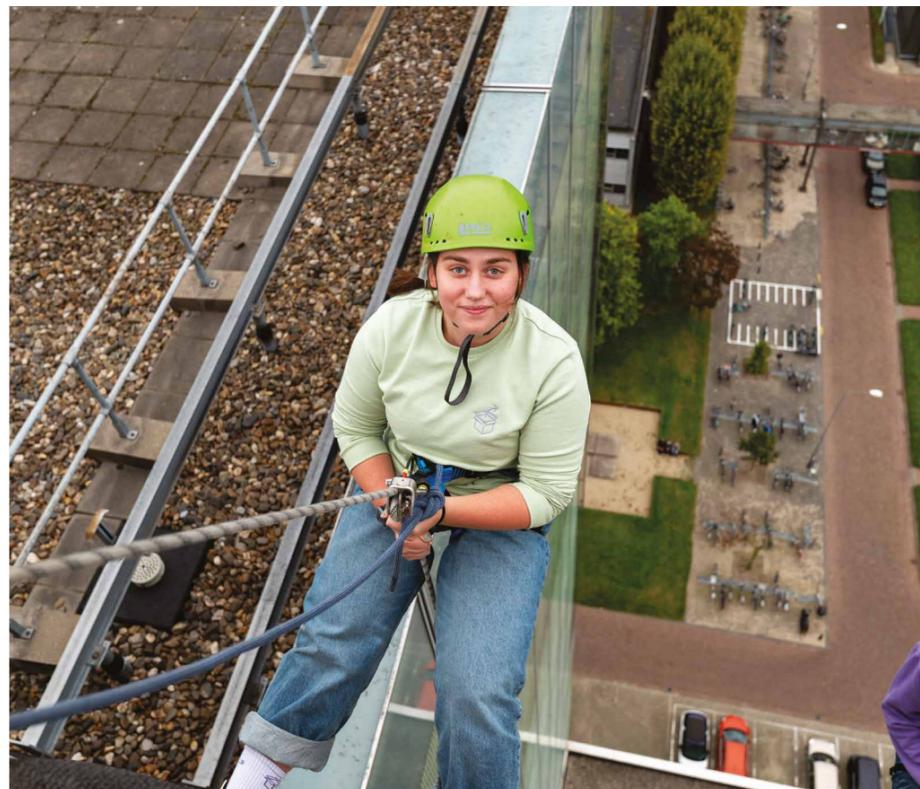
It's also helpful to think of hesitation as a sign that something important is happening. When you feel hesitant, it usually means you're about to do something that's important to you - that has the potential to move you forward in life. The more nervous you feel, the more likely it is that this is an opportunity for growth. Surrounding yourself with positive support is another crucial factor. Sometimes we hesitate because we feel alone in facing a challenge, but the truth is that having someone by your side can make all the difference. If you have someone who believes in you - whether it's a friend, family member or even a stranger you met today - they can help you see past your fears and encourage you to take the leap. You may still be nervous, but knowing that someone is there with you makes it feel a little less scary.



Remember that it's OK not to have all the answers or to be perfect at everything. A lot of hesitation comes from the fear of not being 'good enough' or not knowing how things will turn out. But part of adventure is the unknown. Imagine if we never tried anything new, we'd never discover our hidden talents, meet new people or create unforgettable memories. So allow yourself to be imperfect.

Why is stepping out of our comfort zone good for us? Firstly, it helps build resilience. Every time you push your limits, you realize that you're capable of more than you thought. This builds confidence and helps you deal with future challenges more easily. Secondly, it opens doors to new opportunities and experiences that you wouldn't have if you stayed in your safe bubble. Life becomes richer when you're open to change and growth. Finally, it helps us learn about ourselves - what we really want, what we're capable of, and how we react to new situations.

So what does stepping out of your comfort zone look like for someone? It could mean abseiling off a cliff, returning food in a restaurant because you got the wrong order, emailing a professor to complain about an exam mark, changing in a communal changing room or going to the swimming pool. It could also be something more personal, like signing up for a dance class, starting a conversation with your crush, or even setting boundaries in a relationship. These actions may seem small to others, but they can feel huge when you're facing your own fears and doubts. However, it's important to recognize that everyone's comfort zone is different. It's important to respect others' boundaries and understand that comfort zones are subjective, not objective. Encouraging others to step outside their comfort zone should come from a place of support and understanding, not pressure or judgement. We should motivate and encourage each other, because by walking the journey together, we can both become stronger, more confident and more resilient.



TEXT Lucas Muller

DELVING INTO A WORLD OF MAGIC AND WHIMSY

Twice a year people from all over the country put on their armor, dig out their elf ears, and get ready to be transported to a different reality. One where dragons are real, and wearing jeans is unheard of. A reality I recommend everyone to experience at least once.

Once we entered the fairgrounds of Elfia, we left the mundane reality of lectures, work, homework; the monotonicity of everyday life, behind. For one afternoon, we were all just silly fantasy creatures, all with our own backstory. This day we weren't people with jobs, or students with deadlines. Instead, we were goblins, elves, wizards, and yes, some people were furies.

But should you go to a fantasy fair? Well, I have some reasons written down for you, and maybe they can make you consider it.

First of all, it is a celebration of creativity. You can see it everywhere; from the outfits people spent months making, to the characters people have become for the day, to all the unique items you can buy in the different stalls. The whole atmosphere is inspiring and engaging.

Secondly, the day is packed with activities to entertain you. There are live bands performing – even performing anime theme songs when we were there, workshops on dancing Balfolk, a costume parade,

DnD one-shots, and probably much more that I have missed. These activities cover a wide range of fantasy interests, so for whichever niche, you can probably find something you like.

Most importantly, in my opinion, going to such an event is a great way to let go of expectations. There is no “cringe” at the fair; you can simply be, without worrying if who you are is weird to others. We are so used to boxing ourselves in to fit “the norm,” and to conform to societal standards, because if we don't, we are made fun of. We limit ourselves, from dressing more interestingly, from trying out new hobbies, from existing how we want to exist. Any event that challenges that, and challenges you to break from these limits, makes the world a more interesting place.

So, whether you like fantasy or not, I encourage everyone to do something that takes you out of your comfort zone. Take the active steps to stop limiting yourself, in whichever way you want. Be cringe, but be free.

STUDYING ABROAD

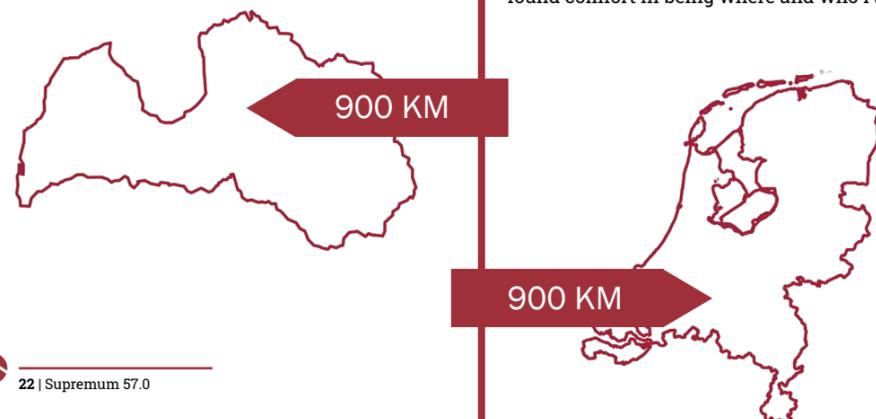
Two years ago I decided to start a new life after finishing high school. This outrageous plan included the step of moving to another country, as it was expected from me in order to get a better education. It took me only one evening of research and 100 opened tabs on my laptop to decide which country I would spend at least 3 years of my life in. As you might have already guessed, this country turned out to be the Netherlands, as it had a big selection of programs taught in English compared to other countries, and a good level of education overall. Now around 1800 km are separating me from my home country.

TEXT Darja Savčenko

I was not stressing about moving until a month before going, which was the longest month of my life. I was trying to capture every single moment in my head: keeping the landscapes of Latvian forests in memory, the shapes of old center buildings, and faces of my friends and family members. Even though after a week of moving my whole brain memory was occupied by plans of surviving all the bureaucratic steps of getting a single SIM card, I was still pretty nostalgic about my last weeks spent at home. As for most international students, the first months were chaotic and eventful. The combination of learning about Dutch culture, my first time living on my own, experiencing university education, and socializing in the same timeframe felt like a fun psychotic episode. As time passed, I started to get used to the new environment and participate in university life by joining the choir and spending more time at GEWIS. Even though it required going out of my comfort zone a lot, I am very grateful to my 19-year-old self that I met so many people and started to pursue my hobbies.

The process of getting to know Dutch culture went pretty smoothly for me in comparison to some of my friends. Since my first day I fell in love with nature, the city and the way people live here. And despite the fact that I believe in the theory that it is impossible to assimilate into another culture completely, even after spending many years in a different environment, I still believe I can try my best. Being ethnically Russian-Ukrainian but born a third-generation Latvian, the thoughts of not being associated with any country or culture are known to me very well, but I like to look at it from the perspective of being a person of the world: collecting all the cultural experiences around me and recycling them into new behavior and ideas.

Reflecting on my first-year experience, I can say without any doubt that these hard challenges made me heal and develop as a better person. Right now I am in the best place I could ever imagine being, surrounded by wonderful people. And even though these 1800 km sometimes feel limitless to me, I finally found comfort in being where and who I am now.



Infimum: A strange or funny quotation from a teacher, a student or faculty member. Here you can find infima sent to the Supremum committee via inf.gewis.nl.

Sven M.: "Twee op de zwembadrand is één achter de tand."

Bartjan: "ze heeft het initiatief van een natte vaatdoek"

Robin v D.: "Ik heb ook een speciaal boek voor als ik thuiskom."

Noël: "Een 'Hoi-boek?'"

Noël: "laat maar zitten, ik ga wel gewoon drinken."

Ruben W.: "Noël, ben je nog dronken?"

Noël v.d. V.: "Ik mag denk ik nog niet rijden, nee. Mag ik sowieso niet want ik heb geen rijbewijs, maar hè."

Aimee: "Wat ging ik nou doen?"

Elwin: "Bier halen!"

Aimee: "Misschien"

Elwin H.: "Ruben is ouder"

Jelte d. K.: "Maar Ruben is ook bijna klaar met z'n studie"

Robin v. d.: "We gaan broeken kopen, gast"

Jens K.: "Geld geld, broeken, broeken"

Tessa: "Ik ben echt al de hele dag bezig met cybersecurity, maar het naait me alleen"

Jelte: "I wish"

Lotte L.: "Ik ben gewoon aangekomen!"

Stijn S.: "Hoeveel?"

Lotte L.: "Kilotje... Wel echt twee jaar geleden."

Ruben W.: "Ik ga even de rolbar aanzetten voor straks, en de koelkast bijvullen."

Stilte

Rink P.: "Ooooh, hij is BAC feut!"

Martijn van D.: "Is een bitterbalk niet gewoon een kroket?"

Verkade: "Plus een jaar"

Ruben W.: "Op wat?" Verkade: "Z'n leven!"

Bartjan H.: "Hij [z'n dispuutstrui] zit echt heel fijn! Ik voel me nu een zomerse prominente lul!"

Bartjan H.: "Sunny heeft een vreemde betaalreference"

Ruben W.: "Omdat hij Vlaams is"

Tessa V.: "For a few weeks now, my phone's touch screen stops working after a while. I'm not sure why."

...

Tessa V.: "Recently, I got my screen replaced for a very good price; could that be related?"

Tom U.: "Goed nieuws, ze zijn allemaal dood!"

Sako: "Ik moet zeiken maar het is nog te licht buiten."

Tessa V.: "Wat is 'harken harken' in het Tsjechisch?"

Robin v. D.: "Harku harku' gast!"

Hiske: "De Rijn stroomt door Limburg toch?"

Ysabelle tegen Ivar: "Ik krijg echt een tia van jou!"

Jasper: "Ik heb nu al zin in mijn komkommer!"

Jens K.: "Ik mag dat, ik ben bestuur en jij bent af."

Tom haalt de hele database offline

Tom: "Het is vrijdag in de vakantie, het hoeft ook niet te werken"

Victor: "Wat heb je allemaal offline gehaald?"

Tom: "_o_/"



THE SUN

Recently my grandpa passed. Now this day stands in my memory as one of the darker days of my life, but there was one moment that got me thinking. I am not a man of religion, but he is, so before his passing we had a small Catholic ritual. A woman guided us through it, and it was a beautiful experience and way to say goodbye. But that is not what this is about, this is about something she said: "Light, a candle, grows as you pass it on, and light more candles. Light is the only thing that keeps on growing as it passes more people."

TEXT Arend Roijackers

The whole ritual was about light, and this quote kept me thinking. A box of cookies slowly shrinks in amount as it passes, a glass of wine and bread does as well, but light keeps growing. Light, energy, love, hope.

4.6 BILLION YEARS AGO

It is 4.6 billion years ago; our solar system is nothing but a cloud of particles floating in space. Then, many of these particles collapse under their own gravity, forming the sun. The rest became a giant disc around the sun, in which planets slowly started to grow. Comparable to a snowball, the dust-sized planets clumped up with other particles, slowly growing and growing for millions of years. The terrestrial planets formed only close to the sun, there where it was too hot for water and methane, so the planets could only form from compounds with high melting points. Further from the sun, where water and methane could remain solid, the gas planets formed. These planets could grow far larger than the terrestrials, since the elements they consisted of were much more abundant in the universe.

4.3 BILLION YEARS AGO

It is now 4.3 billion years ago, and the sun spends its days fusing its hydrogen core into helium, during which massive amounts of energy are released. Even though the sun is effectively a deadly laser, due to the atmosphere of the earth, a stable temperature was held.

This energy of the sun, combined with the special chemistry of carbon and water, and some other factors, seemed to be the perfect recipe for life. Micro-organisms live in hydrothermal vents, deep in the ocean.

1.5 BILLION YEARS AGO

It is now 1.5 billion years ago, and these single celled organisms have found how to cooperate. In a process called endosymbiosis, cells engulf each other and work together, evolving together. From this formed for example the powerhouses of modern-day cells, mitochondria.

50 MILLION YEARS AGO

It is now around 500 million years ago, and we are in the middle of an event called the Cambrian Explosion. The first multi-celled organisms appeared recently, and suddenly there is a great diversification of complex life. New creatures such as cnidarians, trilobites and crustaceans started to roam the Earth.

Also, plants and fungi start to take root and colonise the land of Earth, after which others also soon followed. Most notably, insects, which still rule the land to this day.

10 MILLION YEARS AGO

It is now around 10 million years ago, and the first humanoids walk the Earth. It has only been about 250 million years since the first amphibians, 110 million since the first mammals, and it will only be about 9 million more years for the first modern humans.

2024

It is now, 2024. There are computers and rockets, there is global warming and ideology, there have been many species, over 5 billion of them, of which 99% are extinct. And there is us, there is you reading this and there is me writing this. And there is the sun, and it gives light, limitless energy. Not limitless enough to sustain all life forever, so it seems.

5 BILLION YEARS FROM NOW

It is 5 billion years in the future. The seemingly limitless energy from the sun has faded, as the hydrogen core is depleted. The core collapses, having no internal pressure to hold it back. Density increases, gravitational potential energy is released and the sun expands. The sun is about 1000 times as bright as it once was. It has engulfed Mercury and Venus, with Earth's orbit ever closing in.

8 BILLION YEARS FROM NOW

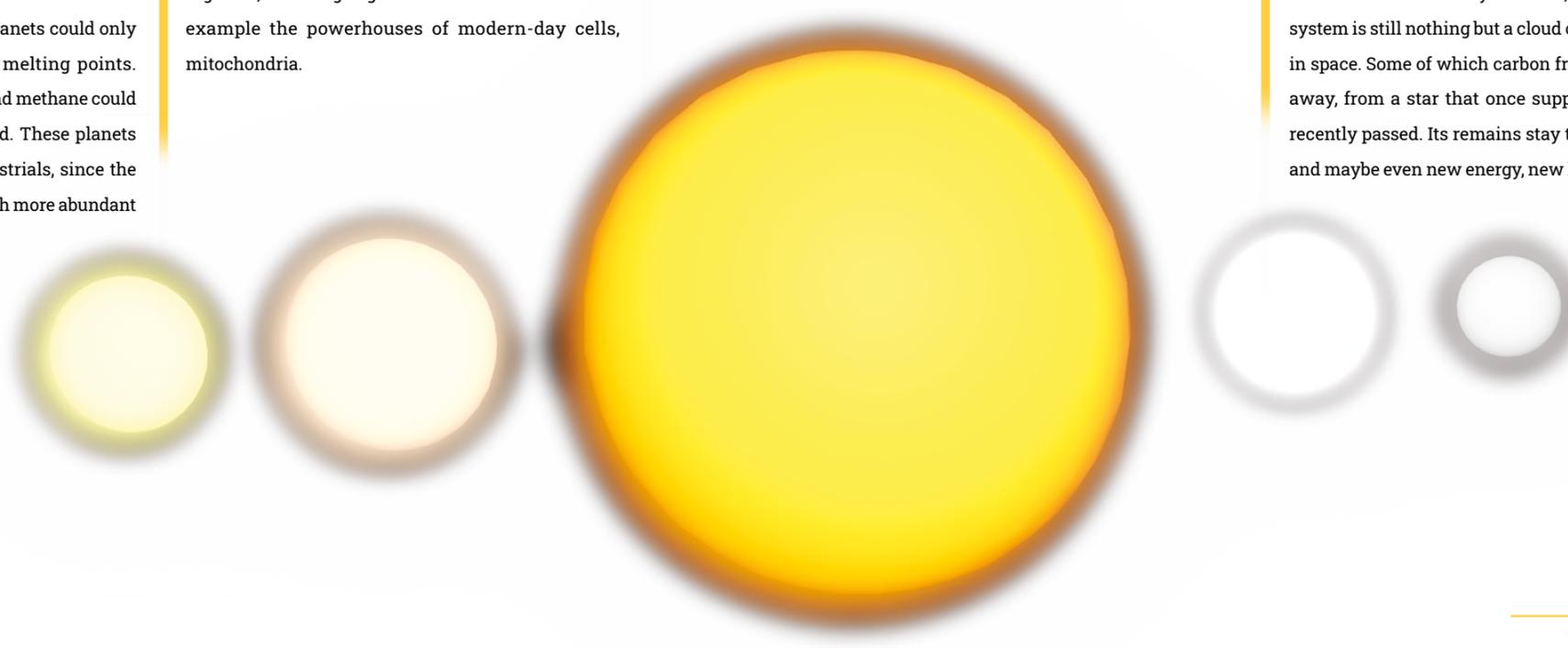
It is 8 billion years in the future. All life is long gone, and the sun now also engulfs the Earth, where it can join its lost planetary brothers. As the sun keeps getting gradually denser and warmer, eventually the density and heat will be so intense that the sun will start fusing its helium into carbon. The sun shrinks again, gets dimmer and colder. It is stable once again, burning helium as it once did hydrogen.

30 MILLION YEARS LATER

It is 30 million years later, and the outer layers of the sun are starting to collapse. Much of the generated helium and carbon is ejected into the universe. The sun is dead, turned into a planetary nebula, it remains on an unknown path through time and space.

? BILLION YEARS FROM NOW

It is an unknown billion years later, and a distant solar system is still nothing but a cloud of particles floating in space. Some of which carbon from a galaxy far far away, from a star that once supported life, but has recently passed. Its remains stay to support new life, and maybe even new energy, new love and new hope.





TAKE ME OUT!...

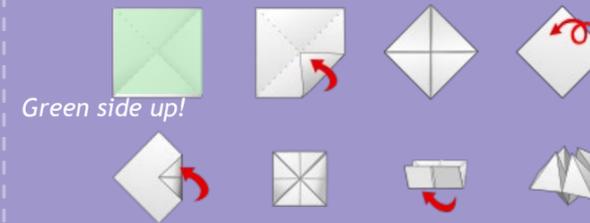
Défi has prepared origami for you! Carefully rip out the centerfold... Then, cut out the two squares below and follow the instructions.

The Box

- Step 1: Scan the QR code and start with lilac side up
- Step 2: At 3:28, fold up the "Défi" corner (top right)
- Step 3: This means the "est 2019" corner is finished at 7:20
- Step 4: Finish the video and be proud!



The Fortune Teller



Or..

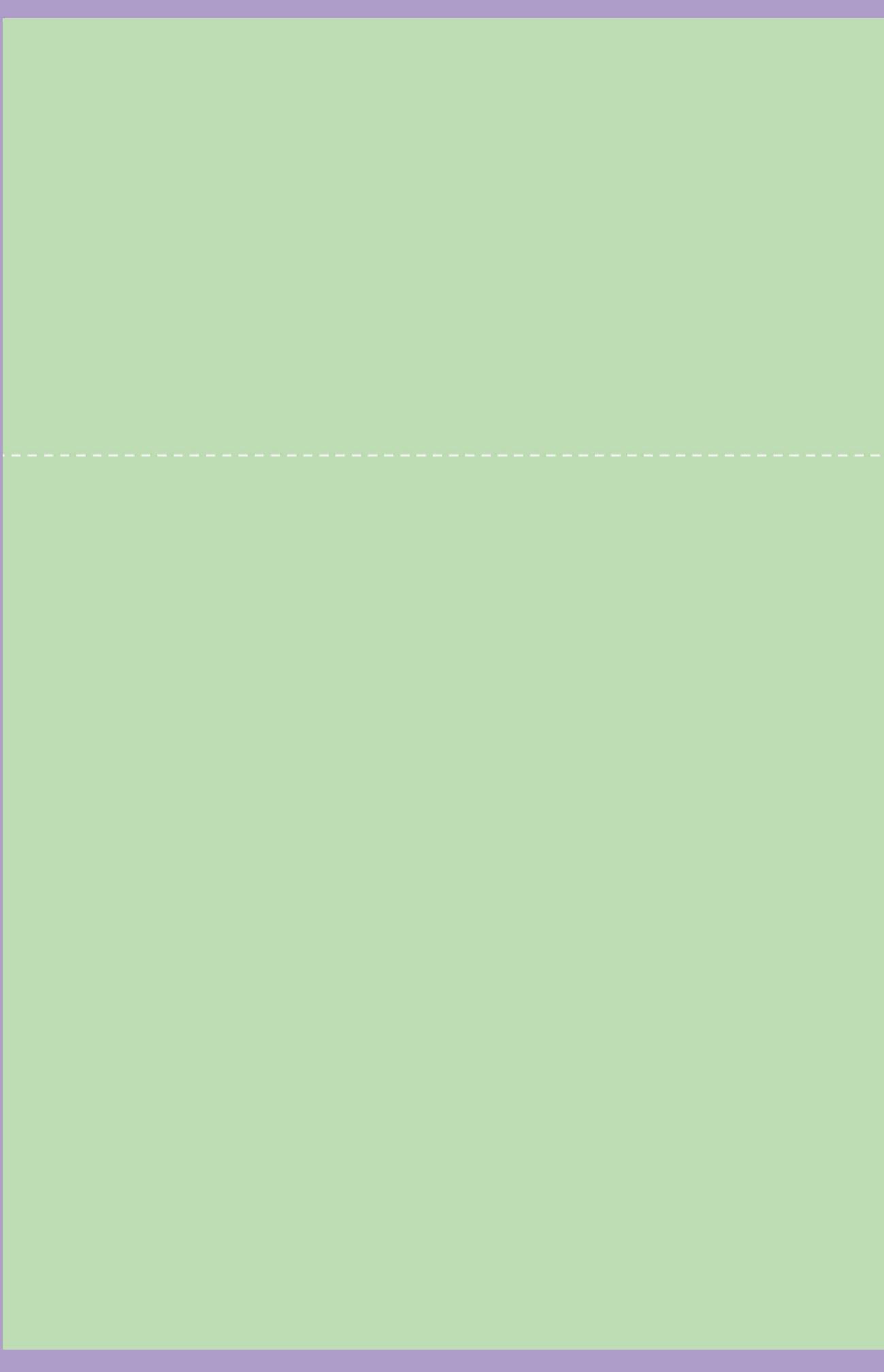


...How does a fortune teller work again?

- Step 1: Ask a friend (or enemy) to choose a number between 1 and 10, say x
 - Step 2: Alternate between opening horizontally and vertically, a total of x times
 - Step 3: Let the player pick a symbol
 - Step 4: Look under that symbol and let the player perform the task!
- Enjoy!



<p>Show your party trick</p>	<p>Drink from something out of the box</p>
<p>Play "back 2 back" with the person executing the happertje</p>	<p>Drink with your left neighbour</p>
<p>Play "Vergeten Groenten" (ask Défi if you do not know what it is)</p>	<p>Play "who is most likely to"</p>
<p>Play "Chickens, aaaree youuu ... readyyyyyy"</p>	<p>Play "Wodka or Water"</p>





MEMBER

RESTAURANT ÉPHÉMÈRE

Have you ever longed to dive into a world of pure imagination—a dining experience where every combination of flavors, no matter how bold or unusual, becomes an enticing possibility?

TEXT Michiel Koster

About five years ago, my best friend Caspar and I embarked on an adventure we could never have imagined would demand so much of us. We envisioned, designed, and served an 11-course menu to our closest friends and family—24 guests over three unforgettable nights. In the early days, we began with classics like ratatouille and duck à l’orange. Fast forward five years and five editions later, and our culinary creations have taken on a life of their own. Last summer, for instance, we presented a Baba au Mangué, served with a pineapple compote, long pepper, and Ricard Pastis, alongside elderflower meringues, citrus ganache, and a mint-lime sorbet. Over five magical nights, we welcomed 120 guests to experience our vision.

Our first edition was largely improvised, but since then, we’ve honed and refined our approach. Caspar and I share a love for fine dining, but we believe it doesn’t have to be glamorous or expensive to deliver a truly eye-opening and socially engaging experience. Our guests should feel like they are at our house, we don’t take any profits. This realization led to the birth of Restaurant Éphémère—a pop-up restaurant set in an overgrown garden. After a day spent clearing nettles and thorny shrubs, we set up folding chairs and tables, offer unlimited drinks, mix creative cocktails, and then... it begins. Another one of our latest creations: salmon marinated in licorice, served with vanilla mayonnaise, green asparagus, grapefruit, balsamic, and fennel seeds.

Putting on an event like this can certainly test our friendship at times, but we have learned to manage the stress: prepare better and be kinder to ourselves and each other. Without the support of more than 20 friends over the past five years, Restaurant Éphémère wouldn’t be where it is today.

We won’t be sharing our secret recipes—those are for you to experience in person. But we will share one treat: a cocktail recipe from last summer at Restaurant Éphémère.



BACON THE PEKUN

LIST OF INGREDIENTS

- » 50ml homemade bacon-infused bourbon
- » 2ml homemade Lapsang Souchong bitters
- » 10ml Espadín mezcal
- » 5ml maple syrup

HOW TO MAKE - HOMEMADE BACON-INFUSED BOURBON

Add 30ml of bacon grease to a 700ml bottle of bourbon and let it infuse for 24 hours. Then, place the mixture in the freezer for another day. Once the fat solidifies, strain it out to leave a smooth bacon-flavored bourbon.

HOW TO MAKE - HOMEMADE LAPSANG SOUCHONG BITTERS

Mix 250ml of 96% drinkable alcohol with 10g of Lapsang Souchong tea. Heat to about 60°C, then let it infuse for 24 hours. Strain out the tea and dilute the mixture with 250ml of water (for safety).

INSTRUCTIONS

STEP 1

Combine all ingredients in a mixing glass.

STEP 2

Stir vigorously with ice for about 30 seconds.

STEP 3

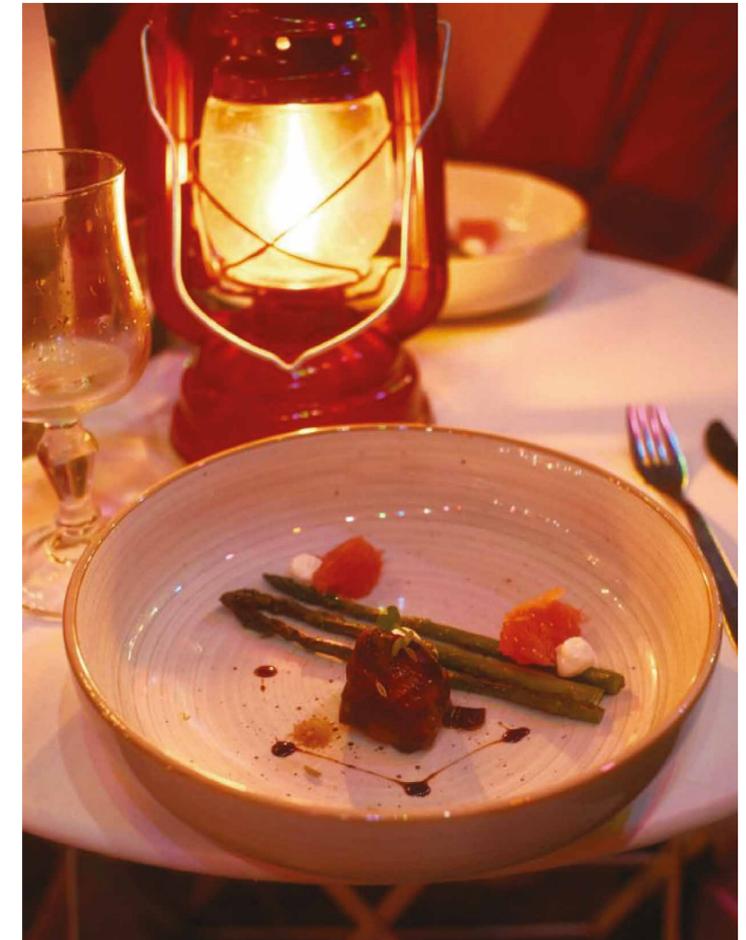
Strain into a rocks glass filled with fresh ice cubes.

STEP 4

Garnish with a twist of orange zest.

This cocktail brings together smoky, savory, and subtly sweet flavors in every sip. A true treat for the adventurous palate—perfect for unwinding or impressing guests with something extraordinary. Cheers!

Instagram: @restaurant.ephemere.popup





STUDENT TEAM

For this edition, we reached out to Kacper to talk about what it's like to be a part of a student team next to your studies. Kacper started his CS bachelors here last year, and is now part of the SensUs Organization, organizing big events in the field of biosensors.

TEXT Kacper Golik

HOW DID A STUDENT TEAM APPEAR THERE?

Honestly, the idea of student teams seemed a bit unreachable to me in the beginning of the first year. I knew there are plenty of groups making incredible things (it's just hard to miss a car by Team Solar in Atlas or team IGNITE at Glow), but I just assumed that in my first year I wouldn't have enough time for it as I would need to get my BSR, so I hadn't even done proper research on what teams there are at the TU/e. I wouldn't consider this a bad choice, but one maybe just a bit too cautious. Although, in a slightly different way, the topic came back after half a year, when I started reading about Honors tracks at TU/e. Among many interesting tracks, there was one that caught my attention; it was not just an Honors track, but a fully-fledged student team – the SensUs Organization.

BIOENGINEERING AND CHEMISTRY FOR A COMPUTER SCIENCE STUDENT? ABSOLUTELY!

I started researching a bit. It turned out that SensUs is not just an Honors track, but also a student team. Rather than developing something such as cars, drones, or rockets to compete in competitions, SensUs organizes these competitions that other student teams compete in. This immediately caught my attention; it sounded so different, so interesting, and also reminded me of my high school times when I was volunteering in organizing numerous sport events, which was a very enjoyable experience. Although when I continued reading, it turned out that this competition is not really connected to my major and even not to my interests, but for sure not at all to my knowledge. The competition was not on computer science, but biosensors.

This might feel strange, but it is exactly what convinced me, well one of two things; the fact that it's completely unrelated to my study or work. I guess that I've just needed something different from computer science to give my mind a rest in these topics, even though this is definitely my hobby, and I am still very much into it.

So, to state it officially, SensUs is an annual international competition on sensors for health. Which brings me to the other reason why I found this team fascinating - people. SensUs sounded a bit similar to the volunteer work I had done in high school, but in a much more professional fashion. From experience I knew that this kind of environment brings together a specific kind of people; very sociable, funny and helpful. People that are just nice to be with.

This just seemed like the way to go; a project that I would like to spend my time on and be satisfied with. So here it goes, I applied for the track, and early in May I was admitted! And what's more, this also turned out to be exceptional compared to other honors tracks that start in September.

ORGANIZING AN INTERNATIONAL EVENT

The team back then had 15 members, and actually half of them were from computer science. The members were spread across 5 departments. I was attending weekly meetings of combined Events and Chairs&Co departments. The first weeks were a bit overwhelming, getting the general idea of the organization, the details of the event and even a ton of abbreviations (we just love abbreviations), but quite soon I started getting my first tasks, towards the final competition days.

The Innovation Days, as we call them, happen in the last week of August, just after Intro. Over 200 people from all over the world (China, Canada, Spain, Switzerland, USA, just to name a few) come to Eindhoven to test their biosensors that they have been working on the whole year. They present their technological and business ideas, network, and of course have fun.

My role for the remaining time until the start of the competition was to generally help the Events department, so one actually the closest to my high school memories. As the event approached, I was slowly realizing how huge this project is, and I don't even mean theoretically the biggest parts of it like the Testing Event, Meet the Partners (trip to High Tech Campus to network teams with companies that support SensUs) or Award ceremony.

I mean so many smaller, but such crucial things. Where will the teams be sleeping? What, when and where will they be eating? How will they get to different places? In what rooms will they be giving pitches? What will they do in their free time? And these are just a few things that Events department is responsible for.

As I joined the team mid-year most of these things were already prepared, but as mentioned I also got some tasks. Tasks that varied from spending at least 6 hours in MetaForum's Reproshop to print all the name cards, posters, signs etc. to developing a digital voting system, to designing a fun evening activity for the teams. For the last one it actually turned out quite funny, as the idea was to make toothpick creations. You can imagine 200 biomedical/chemistry students, stressed before the final test of their sensors, building castles from toothpicks and styrofoam balls.

The event week itself was an extremely busy time, but everything went well, and now I am a full member of the Events department for the next year.

Of course, SensUs is not just about event organization; there is much more to it. We have 4 other departments (Public Relations, External Relations, Technology, Chairs&Co) with their own tasks, challenges and goals.

After half a year in SensUs, I definitely see why it's an Honors track. This is really the place to develop yourself in so many useful skills like presenting, organization, management, communication etc., but of course also to meet very nice people, have fun together and work towards extremely rewarding moment; seeing a year worth of effort in its full glory during the week of Innovation Days. I know that from the first glance it might not seem as fascinating as building cars or rockets, and probably for some it will stay like this no matter what I say. Though, if you feel that this is also something for you, or maybe you would like to just read a bit more about it all, check out our website (sensus.org) and don't hesitate to reach out, and maybe we will meet in SensUs!



YO MAMA

When we were requested to write something about you, Leon, the first thought that crossed our mind was how you would react. We hope you will be pleasantly surprised. So here we go.

TEXT Hilna Hulleman and Paul Vreling (Leon's parents)

It all started 24 years ago, with you being our firstborn. You took your time to enter the world, but after that, you were always on. Even at night you kept us on our toes. Like clockwork you had your wake-up calls, three times a night, every night for a couple of years.



You were (or better: you *are*) an adventurous type. Always exploring and interested in your environment and other people. At primary school you kept this up and soon you made a lot of friends and your social character revealed itself. You were invited to almost all the birthday parties of your classmates.



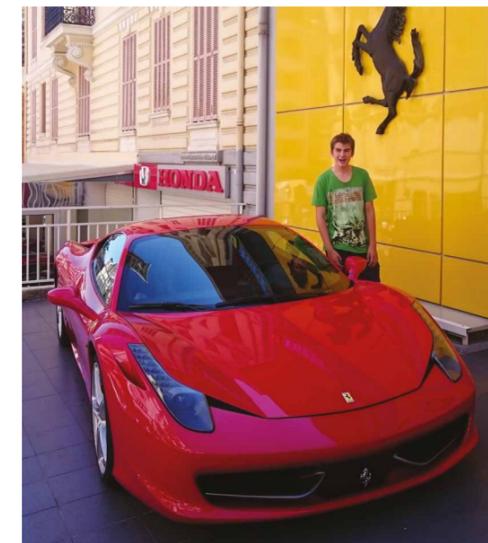
You joined the local scouting group and participated in sports. At scouting trips everyone knew they could rely on your ability to know the right direction, you were a true human compass. Not asking your opinion meant a lot of extra miles and tired feet at the end. On scouting vacation, they often relied on your exploring skills. You always prepared a list of points of interest, a time schedule of the local buses, possible hiking trails and the telephone number of the local taxi service. You tried several years of Judo and Aiki-jujutsu, but sports are nowadays reduced to the shortest distance at the yearly Batavierenrace.



After primary school you went to Het Stedelijk Gymnasium Breda, a school which fit you like a glove. During your time here, you of course made lots of new friends. Here you continued your travels, ending with a rail trip through Europe with your best friends. At that same time, music entered your life. Several lessons on the piano made you popular as a companion for singers at the yearly performance night at school. You even accompanied some of your friends in gaining their B-certificate on their instruments.



And then there was university. Your true nature emerged...party, party, party!!! You didn't miss a single one. Whether it was the borrel on Thursday at GEWIS, a wine tasting/drinking with I.V.V, a trip with AEGEE, a party with B.O.O.M., or any other opportunity, you were there. Besides this, again you embraced every chance you got to participate and challenge yourself. As a freshman you and others started FYC BEERcode and from your second year on you were an intro parent. You joined GETAART and Supremum and found your calling at AEGEE. As we speak, you are the president of AEGEE Europe and currently living in the AEGEE House in Brussels. Traveling is in your blood and we are curious to see where your travels will take you.



As parents we are proud of what you have achieved over the past years and we are sure that, with your social and organizational skills, you have an amazing future ahead of you. We look forward to driving your red Ferrari, visiting you in your loft in New York or just having dinner in Eindhoven. Wherever you may go, we wish you all the happiness in the world.



Infimum: A strange or funny quotation from a teacher, a student or faculty member. Here you can find infima sent to the Supremum committee via inf.gewis.nl.

Thomas: "Toen pakte ik gewoon de duitse worst, dat was gewoon mn avondeten."

Tessa V. Comissaris Externe Betrekken der sv

GEWIS: "Oh, Anago is een slang."

Jens K.: "Anago is een bedrijf, Tessa..."

Ciska: "Je bent zelf een kaal, sneu font"

Robin v. D.: "Jij bent geen idee, wat is die pride flag?"

Tessa V.: "Die pride flag is een middel vinger!"

Ciska d. G.: "Een beetje microplastics heeft nooit iemand kwaad gedaan."

Max laat zien hoe de CBC de GEZWEM website stuk gemaakt zou hebben, maar hij bleek het zelf

Max: "Ik had een oplossing gevraagd aan ChatGPT..."

Tessa V.: "Weet je nog die ene keer dat we bij jou aan het borrelen waren, en er iemand heel irritant aan het zingen was?"

Robin v. D.: "Dat was jij!"

Tessa V. over een mixdrankje met 43: "Ik wil hiervan in mathematische palen klimmen."

Jelte de K.: "Ik ga steeds weer terug naar dat zwarte..."

Robin v. D.: "Ik vind een middelvinger toch een stuk minder intimiderend met witte nagellak op."

Ivar: "IK HOU VAN MIJN WERK."

Filo: "Waarom stop je dan?"

Ivar: "IK HAAT MIJN WERK."

Filo: "Ik dacht dat jij een junkie was, op een goede manier"

Tessa V.: "Ik vind haar sowieso wel een interessante toevoeging"

Alexa: "Wat doe jij met mijn baguette?!"

Verkade verward over Gorgonzola en Calzone: "De spelling klinkt hetzelfde!"

Gesprek over wanneer de laatste olympische locatie in Amerika was

Pim v. L.: "Londen is Amerika"

Noel v.d.V.: "Tom, je kent Clash of Clans wel, toch?"

Tom U.: "... Nee!"

Lieke bij het zien van een vrijgezellenfeest: "waarom zijn hier zoveel vrijwilligersfeesten?"

BJ: "Maybe is Stockholm Syndrome but I really liked probability"

Robin v D.: "Ohhhh MV00300, Demonstratie bedrijf"

Victor K.: "Is dat van Extinction Rebellion ofzo?"

Ciska: "Waarom hebben mensen namen?"

Robin v. D.: "Ik kan niet in internetbankieren."

ABN Amro: "U heeft geen toegang want u moet elkaar nog machtigen in internetbankieren."

Robin v. D.: "Maar hij geeft dat ik met deze pas geen toegang heb tot internetbankieren"

ABN Amro: "U moet eerst elkaar toegang geven tot internetbankieren via internetbankieren voordat u toegang heeft tot internetbankieren."

Jens: "I am board."

Robin: "Hi board, I am Jens!"

Jelte: "Ik voel me als een baarmoeder"

Noa: "Ja het balkon is op de begane grond."

Rink: "Het is een tuin?"

Bartjan H.: "Ben jij ook allergisch voor Jägermeister?"

Koen vertelt een verhaal over palingen die paren

Alexandra: "Je zou maar zin hebben in seks en dan helemaal naar de Saragossozee moeten zwemmen"

Lucy d. G.: "Heb jij nog herkansingen gehad?"

Elwin H.: "Ja, allemaal"

ABN Amro: "Ik zie dat u bent ingelogd. Daardoor kan ik direct uw gegevens erbij pakken."

ABN Amro: "Wat is uw naam en het adres van uw onderneming?"

Alexa: "Ik snap je confusion, maar ik ben niet de roze kist!"

Dylan: "Dat had je niet gewist... geweten"

Alexa (uit Limburg): "Oh ja ik voel me echt héél pressured om vlaai te eten"

Dylan: "Het is geen bi-equivalence relation! Jammer!"

Thomas: "De veur gaat even sociaal doen bij andere mensen."

Ysa: "Ja dat is zijn probleem!"

Roy K.: "Waarom zijn de talen op een blik Viper zo random? Je hebt Nederlands, CZ,... Is dat Pools?"

Jelte: "Het probleem is dat intens lang een beetje subjectief is."

Thomas: "Leeeeren!!!"

Mitchell: "Hou je bek!!!"

Jens K.: "Kan iemand mijn kater brassen?"

Lora: "there's going outside of your comfort zone and there's just being plain stupid."

Ciska: "Sorry Lora won't happen again!"

Ciska 2 days later: "Sorry Lora it happened again! :("

Jasper: "Ik ben van de gemiddelde leeftijd dat ik ga bellen omdat ik de website niet wil gebruiken"

Jelte de K.: "These kids do everything for valuta nowadays."

Aimee: "Wie heeft er gescoord bij PSV?"

Robin v D.: "Lucy volgensmij."

Victor: "How I met your mother gaat over Ted Bundy"

Tobin: "Robin jouw naam is nog steeds 80% perfect."

Samuel: "Jullie zijn echt voor elkaar gemaakt, net als een rolstoel die gemaakt is voor de trap"

Robin v. D.: "Wanneer begint de advent of code weer?"

Tessa: "Henk is een onafhankelijk dispuut? Waarvan dan?"

Tessa: "Die presentatrice van reis programma's enzo!"

Victor: "Ooh Floortje Dressing!"

Sunny: "Kroketten zijn ook frieten!"

Ollie: "Ik zat laatst dus weer naar die foto's te kijken."

Noa: "Welke degene waar je eruit ziet als een animal crossing karakter?"

Lucas M. to Lora S.: "Since when do you apologize?"

Noël: "Het voelt een beetje als een printer die koelkast"

Bartjan H.: "Ik ben de Mark Rutte van onderwijspolitiek."

Sunny: "Waarom krijg ik het gevoel dat we bronies zijn?"

UNLIMITED POWER

The most important aspect of Défi is of course going outside your comfort zone and challenging yourself to go above and beyond— pushing the boundaries of what is possible. In that spirit, like many others, I have daydreamed quite a lot about what it would be like to have superpowers. But trying to define what the best superpower is, can be quite challenging. This debate has been ongoing for as long as comic books about superheroes have existed, so, as I am Undefined myself, I wanted to take a shot at defining what truly makes a superpower the best.

TEXT Elwin Huiden - Défi

The most important aspect of Défi is of course going outside your comfort zone and challenging yourself to go above and beyond— pushing the boundaries of what is possible. In that spirit, like many others, I have daydreamed quite a lot about what it would be like to have superpowers. But trying to define what the best superpower is, can be quite challenging. This debate has been ongoing for as long as comic books about superheroes have existed, so, as I am Undefined myself, I wanted to take a shot at defining what truly makes a superpower the best.

I started my journey by trying to define the meaning of a superpower. I didn't want to include something like "Superman's powers", since I would argue he has multiple powers. No, a superpower would be a single power, like flying or heat vision. To find out what the best superpower is, I started by crossing off all powers that we could mimic easily by using current technology. The 2 examples I named, flying and heat vision, can both be acquired by already existing equipment. If I were to choose a superpower and I could only get one, it would be quite a waste to choose something I could do without said superpower. This reduction already sent me on the right track for this challenge.

Some people might say that having superintelligence is the best power. They would argue that with unlimited thinking prowess allows one to always be many steps ahead of anyone else and that you can somehow make yourself obtain more superpowers. Obviously, this

would be very strong, but arguing that superintelligence is the strongest because it is a gateway to getting different stronger powers, makes superintelligence itself not the strongest on its own.

My next course of action was to check the more mainstream and popular superheroes. Your Superman, your Spiderman, your Thor, your Batman. Though it was rather obvious why being filthy rich isn't really a superpower, the problems with the powers of Thor, Superman and Spiderman also arose rather quickly. While these heroes are often seen as some of the strongest in comic books, movies and tv shows, their strength comes from a multitude of powers. While laser eyes are cool, it won't qualify as the most powerful by itself.

Of course, many superheroes that are widely considered as the greatest have invincibility. The power of being able to take any or most punches thrown their way. This, together with the Spidey Sense, is definitely a very strong *defensive* superpower. Being able to endure all hits or being able to sense any hit coming your way and instinctively dodging them are, in my opinion, of equal strength. However, I believe a strong superpower should have offensive qualities as well.

My next step was to eliminate mind control as a top contender. While you would think that a lot of people's morals and ethics would get in the way of fully utilizing such power, we are part of a mathematics and computer

science association, and I wouldn't be surprised to find some sociopaths who wouldn't mind. Jokes aside, the biggest issue with mind control as a power is that it is limited to living creatures. If for some reason a boulder where to fall on your head and there was no living creature you could manipulate in destroying the boulder or saving you, the boulder would crush you and your power.

“ While in one episode The Flash could basically stop time, the next episode some dude with a freeze gun could catch him off guard and beat him ”

I also could not resist checking out what our beloved bot ChatGPT had to say on the topic. After explaining my requirements, it came up with some interesting ideas of which 2 stuck out to me. The first one that the bot kept on bringing up in multiple different conversations is reality manipulation. While this would be the strongest power by far, I decided that this did not constitute as a singular power. Reality manipulation consists of, at the very least, mind control, shapeshifting and telekinesis. Therefore, according to the set criteria, the bot was wrong on this occasion.

The other ability that ChatGPT came up with was, as hinted at before, shapeshifting. Without limits, shapeshifting could get you anywhere, to become anyone or to survive anything. Let's take the example of the boulder. If this boulder were to fall on top of you, you could turn yourself into an inflatable and let the boulder bounce away or become a mole and quickly bury yourself in the ground or even turn yourself into liquid or gas until the boulder hits. If you were to enter a room filled with poisonous gas, all you would have

to do is to transform into a being that can breathe it without dying. Shapeshifting also has some powerful offensive capabilities. Turning into a strong beast or poisonous gas yourself would surely defeat most enemies. However, this ability also quickly turns into actually being multiple powers, if you could give yourself invincibility or superstrength by simply shapeshifting into beings with these powers.

Lastly, I wanted to cover superspeed. If we assume there are no limits, then this power is incredibly broken. This would include effectively teleportation, almost stopping time and, like the Spidey Sense, being able to dodge any attack coming your way. After watching *The Flash*, two things became apparent to me. First of all, when the writers ran out of ideas, they just made up some serious nonsense and hoped the viewers wouldn't notice. Secondly, and more relevantly, is that the only way for his villains to stand a slimmer of a chance was by nerfing his superspeed into the ground. While in one episode The Flash could basically stop time, the next episode some dude with a freeze gun could catch him off guard and beat him.

As you can probably tell by now, I never quite found my definitive answer. The problem with finding the strongest superpower is that any superpower is limited by how that specific power is defined. In comic books, movies or tv shows, most superpowers could beat most other superpowers if the writers willed it that way. For many people, the best ability is going to be different. Some might want a more defensive superpower and would love invincibility, while others just want to be able to hide and would choose invisibility. So, while the always changing definitions in media result in plot armor being the strongest power in storytelling, in real life the lines are much blurrier.



FRATERNITY



HOW DÉFI PREDICTED YOUR HANGOVER

Thursday afternoon, October 10, 2024. Greeted by an ominous fortune cookie and seduced by spiked slushies, you meet a member of Défi. They insist they can read into your future. You agree to pay the price of one shot to have your future read. The yapping that follows barely makes sense, but you are told you won two shots. You drink with a friend, bet again, and before you know it, it's Friday morning and you are hungover.

TEXT Koen van den Berk¹

Thursday afternoon, October 10, 2024. Greeted by an ominous fortune cookie and seduced by spiked slushies, you meet a member of Défi. They insist they can read into your future. You agree to pay the price of one shot to have your future read. The yapping that follows barely makes sense, but you are told you won two shots. You drink with a friend, bet again, and before you know it, it's Friday morning and you are hungover.

During our Destiny Dies Drink, we hosted a fortunetelling rendition of a fortune wheel ("radje"). Would you like to relive the night *and* learn about the mathematics of the game? This is your chance! All you need to do is agree to pay €\$1,20 for me to do a reading...

THE READING

You want to do a reading? Amazing! Before we begin, a little bit of background; this is our mystical fortune wheel based on a card reading that we hope meets the following criteria:

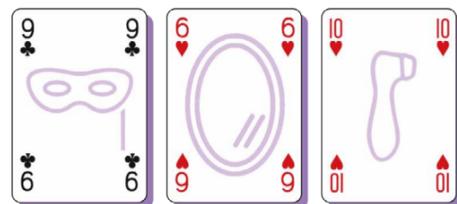
- » It's easy for a drunk Défi member to perform
- » It has simple logic that you may want to crack. We hope you'll be as invested in it as Moon in the Spoon, the Triangle, or the Land of No Idea. We hope people you'll get hooked on figuring out the logic.
- » The winning/losing probability is approximately Fifty-Fifty™. You either win nothing or you win two shots, so in the long run you break even!

I've shuffled the cards, let's see what they have to say!



I see that the universe has brought you to GEWIS... to drink beer with your friends... until after midnight. But you will not be drinking shots, because you lost.

You lost. I'm going to be honest, the Tarot symbols play no role, it's the regular card deck numbers/figures. I take back these three cards and shuffle the complete deck. Next reading is on me...



I see that you find it hard to be yourself. But if you learn to love yourself, you will find the true satisfaction. I take back the cards and congratulate you: you win!

¹Special thanks to Mike van Santvoort for his support and guidance.

Do you know why? Perhaps it helps to know the system behind it: given is a deck of n cards, of which k are winning cards. Draw three cards.¹ If at least one is a winning card, you win. Otherwise, you lose. What is the winning probability? I invite you to calculate it.

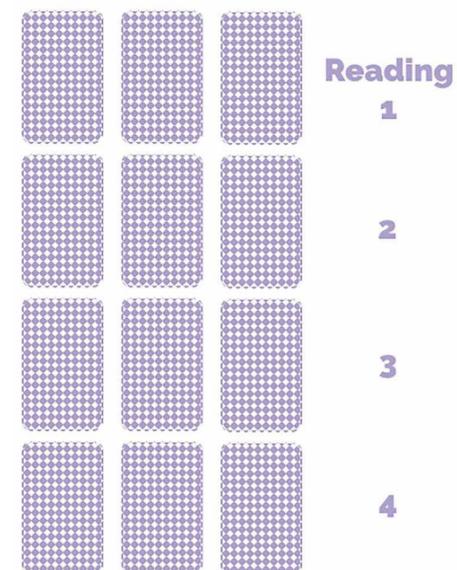
Here's how I would do it: to lose, you must draw a losing card three times in a row. At first, you draw a losing card with probability $(n-k)/n$. Then you need to draw one of $n-k-1$ non-winning cards out of a remaining $n-1$. This pattern continues. It follows that the winning probability is

$$\mathbb{P}(\text{win}) = 1 - \mathbb{P}(\text{lose}) = 1 - \left(\frac{n-k}{n}\right) \left(\frac{n-k-1}{n-1}\right) \left(\frac{n-k-2}{n-2}\right)$$

Wiping the dust off your TI-84 calculator, you can find that for $n = 54$, $k = 12$, $\mathbb{P}(\text{win}) \approx 0.537$. The casino always wins, but in this case a "win" means that you drink two shots at the bar. We consider more shots to be a win for everyone, so we work with $k = 12$.

READ ME MORE!

How are you feeling?... You just solved the exercise you were stuck on for days? *And* you secured a date with your library crush? Sounds like the cards are in your favor today. Would you like to go big, or go home?... Four readings it is, I've laid the cards out for you, but I haven't revealed them yet:



Question for you; if I flip all cards, how often do you expect to win? Is it different from doing four separate readings? Four separate readings means that, after each reading, the fortuneteller takes back all cards and shuffles. Pause and think for a minute, if you will. Let us have a look. Define the *events*

$$\mathcal{W}_i = \text{the } i\text{-th reading is a win, } i = 1, 2, 3, 4,$$

and define the total number of wins

$$W = \mathbb{1}_{\{\mathcal{W}_1\}} + \mathbb{1}_{\{\mathcal{W}_2\}} + \mathbb{1}_{\{\mathcal{W}_3\}} + \mathbb{1}_{\{\mathcal{W}_4\}} \quad (1)$$

where $\mathbb{1}_{\{\cdot\}}$ is the indicator function, meaning in our case that

$$\mathbb{1}_{\{\mathcal{W}_i\}} = \begin{cases} 1 & \text{if } i\text{-th reading is a win} \\ 0 & \text{if } i\text{-th reading is a loss} \end{cases}, \quad i = 1, 2, 3, 4.$$

An avid probability theory student may then recognize that the expected number of wins is given by

$$\mathbb{E}[W] = \mathbb{E}[\mathbb{1}_{\{\mathcal{W}_1\}}] + \mathbb{E}[\mathbb{1}_{\{\mathcal{W}_2\}}] + \mathbb{E}[\mathbb{1}_{\{\mathcal{W}_3\}}] + \mathbb{E}[\mathbb{1}_{\{\mathcal{W}_4\}}] \quad (2)$$

$$= \mathbb{P}(\mathcal{W}_1) + \mathbb{P}(\mathcal{W}_2) + \mathbb{P}(\mathcal{W}_3) + \mathbb{P}(\mathcal{W}_4)$$

What are these probabilities? If I flip the cards of the first reading, the winning probability is as we calculated before. Why? When we drew those three cards, we were drawing from the original n cards.

What if I flip the three cards of reading 2? A key insight is as follows: because we assume the deck is perfectly shuffled, the order in which the readings are put on the table does not matter. If I first flip over the cards of reading 2, the winning probability can be calculated with the same exact argument we saw before. It follows that

$$\mathbb{P}(\mathcal{W}_1) = \mathbb{P}(\mathcal{W}_2) = \mathbb{P}(\mathcal{W}_3) = \mathbb{P}(\mathcal{W}_4) = \mathbb{P}(\text{win}). \quad (3)$$

We deduce from this that the *winning rate is*

$$\frac{1}{4} \mathbb{E}[T] = \frac{1}{4} (\mathbb{P}(\mathcal{W}_1) + \mathbb{P}(\mathcal{W}_2) + \mathbb{P}(\mathcal{W}_3) + \mathbb{P}(\mathcal{W}_4)) \quad (4)$$

$$= \frac{1}{4} \cdot 4 \mathbb{P}(\text{win}) = \mathbb{P}(\text{win})$$

which is the same as before, when we did one reading at a time!

1

We chose to draw three cards, but the computations that follow easily extend to other number of cards. We challenge you to do this generalization!

For the interested mathematicians: the variable T is hypergeometrically distributed. If you've never heard of this distribution before, neither had I before writing this! You just had your first introduction to this known distribution.

THE GAMBLER'S VERITY

Today is not your lucky day. You humbly order one reading. You get the first reading that we saw earlier in the article. Sadly, it's a loss. You just wasted €1,20. I promise to leave these three cards on the table. Do you want another reading?

You just saw that the *winning rate* does not change when doing multiple readings. You took a course in probability theory and think about the *gambler's fallacy*: just because you lost now doesn't make you more likely to win in the future. Yet I ask you again: if I leave the cards on the table, do you want another reading?

Your answer should be yes! If you lost and those cards remain on the table (and thus out of the deck) your winning probability rises! After your loss, there are k winning cards left, but only $n - 3$ cards in total. The next reading has winning probability

$$\mathbb{P}(W_2|W_1) = 1 - \left(\frac{n-3-k}{n-3}\right)\left(\frac{n-3-k-1}{n-3-1}\right)\left(\frac{n-3-k-2}{n-3-2}\right) \approx 0.561. \quad (5)$$

In this fortune wheel the gambler's fallacy is not a fallacy! If you see a loss and the cards stay (!), the next reading is more likely to be a win! It may appear that equations (3) are wrong, but that is because $\mathbb{P}(W_2), \mathbb{P}(W_3), \mathbb{P}(W_4)$ assume no knowledge on previous readings.

Imagine that Défi runs the fortune wheel as follows: you do one reading at a time. After a reading, you can pick one of three options:

- » quit,
- » leave whatever cards are on the table and do another reading,
- » force the fortune teller to take back all cards, shuffle and do another reading.

Can you improve your long term winning rate? It appears you can do so by using knowledge about previous readings. What is an optimal strategy?

I will leave this question to you, as Défi needs to finish preparing the Lustrum week! Another question remains: what cards were winning cards during our Dies Drink? The card reading table said: *"Défi, founded by queens, celebrating five years, dreaming of ten."* Can you guess the winning cards?

IN THE SPOTLIGHT

Hello I'm Jarmo, I am 19 years old and I have only been active at GEWIS for the last half year. I'm in my third year of my bachelor's degree, but I will probably still be around for a while. I am at a lot of activities nowadays but for those who have not met me yet, allow me to introduce myself.

TEXT Jarmo Boer

I was born in Utrecht, but raised in the small town of Houten. I went to primary school there but I really did not like the middle school, so I went to Culemborg for that. After my parents got divorced, I also started living in Scheveningen, Vleuterweide and finally Den Haag. This made me realize that I prefer living in a big city since Houten is quite boring in my opinion.

Growing up, I really enjoyed playing video games, and I also played football for around ten years. I am honestly really bad at football and my best position was probably the bench, but I still had a lot of fun and made some great friends. We decided to start a friend team at a really small club which was very fun, but then Covid came and ruined it all. After quitting football, I did no sports for a few years, the effects of which I have now started to notice. I now do 100 pushups every day, but I am planning to go to the gym soon.

When I started going to university, I really enjoyed my intro week (thanks to my great parents), and thought that I would be doing a lot at GEWIS during my first year. I was unsure if I would enjoy living away from home, so I stayed in Houten during my first year and I was also too shy to join an FYC. These are both things that I regret now. Fortunately, this did allow me to pass all of my courses!

At the start of my second year, I joined GETAART, which officially made me an active member. Still, I was not at 't Dakterras often at all. I did end up going to more social drinks and then one random Thursday I decided to start getting some glasses for the BAC. Later that evening (which I do not remember that well anymore) I got lucky and ended up getting a room in Eindhoven.

After I got a room, I started going to a lot more activities and I also became a BAC feut. I met a lot of great people and also learned a lot of things about the association and myself. During this time, I ended up doing some stupid things and I discovered my talent for falling. I also really enjoyed being an intro parent, and it is great to see my kiddos at GEWIS activities and social drinks.

This year I want to start doing even more at GEWIS and I also hope to work on my alcohol tolerance. You are most likely to see me working on this every Thursday, but I am also at GEWIS at other times, so if you ever see me there don't be afraid to talk to me, as I cannot bite anymore.

" I now do 100 pushups every day "



MEMBER



CISKA AND HISKE AND THE MYSTERY OF THE 2ND FLOOR

Based on the first part¹ you might have a lot of lingering questions. For example, you might be wondering why this story is called 'Ciska and Hiske and the mystery of the second floor', but Hiske was not a character in the previous edition. Well, this has a simple explanation (it was a joke on Suske and Wiske that literally nobody got): I will tell this part from Hiske's perspective.

TEXT Ciska de Greef

Please note that this story is fully fictional and the characters in it should not be related to real people.

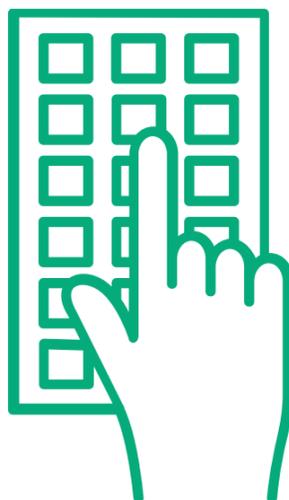
While I was busy that morning with what the symbols on the floorplan meant, Hiske was already at the university, as we were supposed to study together. I was running late so I sent her a text telling her of my delay. With nothing to do, Hiske started messing around with the buttons of the elevator (such a coincidence, I know!). Accidentally, she must have pressed the correct buttons because suddenly the LED light showed the same bright 2 that would appear 15 minutes later for me. Confused, but curious she stepped out of the elevator on the second floor.

She entered a brightly lit, wide hall with floors covered in plastic, like it was still under construction. The layer of plastic was hardly visible underneath the thick layer of dust on top. Looking around did not make it clearer what she was seeing. The left and right sides of the hall were plain white walls, but on the opposite side, there seemed to be something attached to the wall. Because of the sheer size of the hall, it took a while

¹This is part 2 of the story started in edition 56.2, if you want to read this part go to supremum.gewis.nl for the previous edition!

before she was close enough to see what it was: a button! The curiosity got the better of her and with a few quick steps on the crinkling plastic, she was close enough and pressed the button at the exact same moment the elevator dinged.

This button was sadly not as interesting as Hiske had previously thought, because she had simply turned off the lights. Everything had gone dark, Hiske let out a sigh and pressed the button again to turn on the lights again. That is when she saw me, on the other side of the room, terrified by the sudden darkness.



We walked towards each other, both of us rambling about everything that had happened. When we reached the same point in the hall we calmed down and started looking around. Suddenly, the elevator dinged again. We looked at each other confused: who else would know how to get here? In the slowest seconds of my life the elevator door opened and out came a man with the scar on his face, the one I had seen at the municipality.

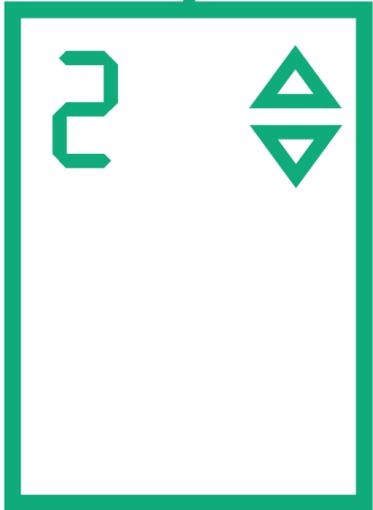
He was built like a bear and dressed in all black, which gave him a terrifying look. Worried that he was going to attack us, I sneakily grabbed my keys from my bag. Then he did something even more terrifying: he started smiling.

"You found it!"

I looked at Hiske, but she was just as confused as I was. Before I could even ask one of the millions of questions crossing my mind, he started explaining. He was the mechanic of the elevators inside MetaForum. During the design of the building, the architect had forgotten to add stairs going to the second floor. This was only discovered during construction, which meant any fixes would cost tons of money.

Instead of admitting his mistake and risking his job, the architect decided to cover it up. He had everyone that took part in the construction sign an NDA and pretended there never was a second floor. The elevator mechanic did not agree with this, but he could not convince the architect. Instead, he built a cheat code into the elevator, such that the second floor could still be reached by elevator. He coincidentally saw me at the municipality with the floorplans and started wondering if after so many years, the second floor might finally be discovered...

You must be wondering what happens next: do we open the floor up for everyone? Well, not exactly. For now, Hiske and me will keep the real way to access the floor a secret (you did not think I would share the real button sequence, right?) and I have burned the floor plans with the code, so no one can prove whether this story is true or false. This will keep the architect's story safe and gives us a nice place to go and be alone. But do not worry, if you are really curious, maybe you too can reach the second floor of MetaForum.



Infimum: A strange or funny quotation from a teacher, a student or faculty member. Here you can find infima sent to the Supremum committee via inf.gewis.nl.

Thomas: "Op t I.V.V weekend waren ze nog nat"

Thomas: Ze heeft drie keer zo veel haat in haar ogen als ik."

Ysa: "Ben ik trots op"

Lieke J.: "Ik kon dus niet zo goed mijn bier adten en toen maakte een sjaars me belachelijk. (...) Maar ik kan wel *the moon in the spoon* zien, bitch!"

Juul: "Ik maak die beer van Disney Channel, Mickey Mouse!"

Saelia H. v. P.: "It's my first time!!"

Verkade: "I am not mad..."

Phoebe: "I do shit quite a lot."

Alexa (Limburgs): "Ik geloof niet in de kerk."

Tessa: "Wat een positiviteit"

Ruben: "Hoe laat is het?!"

Tessa & Jelte: "16:43 oohhhh"

Ruben: "Kut"

Tessa V.: "Ohhh die ga ik insturen! Ik ga hem wel een beetje verdraaien."

Alex v.d.P.: "Bier is gewoon frisdrank met broodsmaak, en soms zit er alcohol in."

Ciska: "Ik heb echt nergens zin in, ik zit zoooo vol!"

Ook Ciska: "Doe maar de tiramisu"

Noel: "Gezelligheid kent geen tijd."

Ruben: "Notulen ook niet blijikbaar."

Samuel O.: "Zeg niet het N-woord in de GEWIS ruimte."

Jens K.: "Nieuwsbrief!"

Ece, making noises: "O-ho! O-ho!"

Max: "You are a ... a what?"

Hiske: "Wat staat het water bij de dommel laag."

Pim: "Jazeker, en vgm stroomt die normaal de andere kant op,"

Robin: "Wil je m'n file structure zien?"

Ruben: "Nee, boeit me echt geen klap."

Ruben: "Ece you are from turkey right?"

Ece: "Yes."

Ruben: "Do you know stuff about dictatorships?"

Noël v.d.V.: "Hoe heet dat spul waar je hout mee opschuurt ook al weer?"

Aimee: "Een sauna is altijd trekken."

Filomijn: "Pizza hoort plat te zijn"

Victor K.: "Hoe minder mensen je aanrijdt, hoe minder geld het kost."

Ciska de G.: "Als jullie het doen is het fout, maar ik ben gewoon jarig."

Inge: "This did not happen, also we did not do this."

Jens K.: "Vruuuuuuuger, toen de kratjes nog van hout waren en je door moest pilsen om de openhaard aan te houden!"

Noa B.: "Vo voor bier!"

Jens K.: "Noa B.:"Vo voor bier!""

Noa B.: "Nee ik was Noël!"

Ciska: "It looks like someone came on my shoe."

43 TASTE TEST EVENING

After we, the 43rd board, were established, we needed to start working on our board branding. The first goal was to have our own shot. Being the 43rd board means that there is a very obvious shot choice, namely Licor 43. However, the amount of combinations you can make using licor 43 are limitless. Therefore, we bravely decided to try as many combinations as possible. During the evening we took notes of our findings. In this article these notes will be shared with you. But be aware, the further the evening went, the less reliable the notes became.

TEXT Jens Knapen, Tessa Verheul, Robin van Dijke, Jelte de Kock



43

We started with a palate cleanser. A solid base, to which all other combinations can be compared. When looking at the shot, we appreciate how pretty the color looks. Some even mention the similarity to pancake syrup. A heroic bronze, inviting us to drink. The taste of vanilla and caramel is welcoming us as we take the shot. The taste of victory.

- » **Tessa:** Liquor vo <13
- » **Jens:** Licor 'Vo
- » **Robin:** Licor 'vo </3>
- » **Jelte:** Likeur vo

43 + APEROL

Then we went on our first adventure. We combined licor 43 with Aperol. While we seemed skeptical at the start, our concerns vanished when we looked at the result. A deep bronze color emerged, reminding us of summer joy. When we looked closer, we even saw a hint of GEWIS red. After tasting the shot, we realized that the bitterness of the aperol complimented the sweetness of the licor 43. The result was a tongue-tingling taste sensation.

- » **Tessa:** 'vo spritz
- » **Jens:** 'vo + Aperol (Aper'vol)
- » **Robin:** Aperol 43
- » **Jelte:** Aperol voor winnaars



43 + TROPICAL ROCKETSHOT

Next, we mixed Licor 43 with tropical rocketshot. The color could be described as "Geel met een zachte G" and it reminded us of our kandie period, where we prepared for our functions as minions. Back then all we wanted, was to steal the moon. However, the intergalactic collaboration between most of the board, already started years before in the first year committee GeEuclid. Their shot was also rocketshot. So you can imagine the nostalgia this shot brought us. But sometimes it is better to leave things in the past and the taste of this shot is an example of that. If we wanted to taste chemicals we would have studied chemical engineering and chemistry.

- » **Tessa:** Stealing the moon
- » **Jens:** Anti 'vo 'vo
- » **Robin:** Antivvvo
- » **Jelte:** Dubbel 'Vo

43 + APFELKORN

Another yellow combination, was our mixture of Licor 43 and Apfelkorn, which hopefully had not passed its expiration date yet. Sadly the color of the Apfelkorn did not change, no matter how much 43 we added. Which is not just a disappointment, but also a safety concern. How would the association react if they thought we were merely shooting apfelkorn. We are not Protagoras. Hence for our own safety, we decided this is the last time we would drink this shot in public.

- » **Tessa:** Paardenkots
- » **Jens:** Hèt Protshot
- » **Robin:** De kotsemmer
- » **Jelte:** GEProtagoWIS



43 + MALIBU

When mixing 43 with Malibu, the first thing we noticed was the color, instead of bronze, the shot looked golden. This showed us once more why bronze is superior to gold. Bronze is never mistaken for piss. Then like the good sommeliers we are, we also went for a smell. This could be described as coconut scented cleaning supplies. For the first time in years, the board felt like cleaning the GEWIS room. The shot was not off to a great start, but we still needed to taste it. The taste was very familiar, and reminded us of the cinnamon challenge. Which is strange, as both liquors don't contain cinnamon.

- » **Tessa:** Op 43 onbewoonde eilanden
- » **Jens:** Maligoeeee
- » **Robin:** Malibah
- » **Jelte:** Tropische anticlimax

43 + BACARDI MANGO

Once again we were evaluating a golden shot, namely licor 43 in combination with Bacardi mango. However this time the color was more like keta (ketel appelsap), which reminded the board of their close connection with the other technical universities. The laughter of the memory of one of our members walking in a ditch, made the shot appear more bronze like. The smell ensured us that the shot was not expired, as we could smell each individual E-number. After we tasted the shot, we were also certain it contained alcohol, as Rico Verhoeven can't hit as hard as this shot did. Next to alcohol, we could also taste a hint of peach candies.

- » **Tessa:** 43GO
- » **Jens:** Mang'vo
- » **Robin:** Bahcardi 43
- » **Jelte:** Tropische climax!



43 + BLUE CURAÇAO

Our chair shows us that doing a double board year with S.P.V. Blue is a great idea. Perhaps combining the shots of both associations is equally good. The color contrast gives the possibility to create a gradient effect. But it reminded us more of an oil spillage than a tasty shot. Considering that we did not yet have a sustainability responsible in the board, we could ignore the matter. The taste was average, but the vibe added bonus points. Since the board started to discuss climbing in mathematical poles, I think we can conclude the alcohol did its job.

- » **Tessa:** S.P.V. GEWIS
- » **Jens:** CENSORED
- » **Robin:** De 'vo
- » **Jelte:** Swamp thing mixie

43 CREME BRÛLÉE

We needed another palate cleanser. This time we chose licor 43 with a twist. Namely the crème brulee version. It looked like a creamy bronze liquid with a holy vibe. The taste reminded them of a nice caramel dessert, we felt like good girls.

- » **Tessa:**
- » **Jens:** Zui'vol
- » **Robin:** Creampie Vo 43
- » **Jelte:** Creampie 43

43 + DROPSHOT

Jelte poured the combination of Licor 43 and dropshot in the shotglasses. While Tessa requested hers to be only a quarter full, it was poured more than half full. Because Jelte prefers his quarters like that. When he was done, we looked at the color. We agreed that the dropshot was very dominant, and that there was no longer a hint of 43 visible. Next up was the smell, there was hint of anise and darkness, it scared us. But bravely we went for a taste, which left us undecided. It was not the worst so far, but also not the best.

- » **Tessa:** Ik drop deze shot
- » **Jens:** CENSORED
- » **Robin:** De dropkick
- » **Jelte:** Robin's ziel

DÉFI LUSTRUM SONG

For thinking outside of the box, you need to be creative. Therefore, it must come as no surprise to you that Défi consists of very creative students. Whether it is painting, crocheting or singing. We are never scared to try something new. As a result, we have a lot of Défi covers on known hits, you can find all of them on our website. Of course, we also wanted to write a song for the celebration of our lustrum week. Anne, Koen, Lora & Merel got together and wrote one of our favorite covers so far, on the song "Shut Up and Dance" from Walk the Moon. In this article you can find the lyrics so you can sing along, enjoy! You better be scared

TEXT Défi

[Chorus]

Go out your comfort zone,
Come face your fears with me,
You said, "I'm holding back"
We said, "Shut up, go with Défi"
This lifestyle is our destiny
We said, ooh-ooh, "Shut up, go with Défi"

[Verse 1]

They were twaarsjes breaking free
Adventurous, mystical student dream
Finding a courageous identity
Oh, they were bound to get together
Bound to get together

[Pre-Chorus]

Try something new
Go out and challenge yourself
Throw out your box and be scared

[Chorus]

[Verse 2]

Felt like myself when I joined the pride
Went abseiling just to face [my] fear of heights
New things will come our way, you should join the ride
I knew we were bound to break the standards
Bound to break the standards

[Pre-Chorus]

[Chorus]

[Break]

Defi 5evah!!!!
Buiten de doos
D É F I
(laughter)

[Bridge]

Look where we are
I think I see our future
The years to come will be the best yet [Jet :D]
Try something new
Go out and challenge yourself
Throw out your box and be scared

[Chorus]

Come face your fears with me,
You said, "I'm holding back"
We said, "Shut up, go with Défi"
This lifestyle is our destiny
We said, ooh-ooh, "Shut up, go with Défi"

[Post-Chorus]

Ooh-ooh, shut up go with Défi
Ooh-ooh, five years of Défi!!

Shut the f*ck up



It was time for the final verdict. Throughout the night we were both surprised and disappointed. Licor 43 + aperol was our favorite combination (aside from the palate cleansers) and Licor 43, prosecco and sparkling water was the worst combination we had. Furthermore we managed to learn, laugh and cry during the evening. But most of all we bonded. Together we concluded that we can not dilute our lovely licor 43. As we want the most 43 as possible. Therefore, to our surprise, we have decided that our board shot will be Licor 43.

43 + KETEL

We were excited to learn a lot this evening, reminding us of the WISO. We got so excited that we took the shot before evaluating the looks and smell. We even got emotional of the good taste, it made us wonder if we had more of this. Luckily this was the case. Tessa even managed to taste the shot twice, once in the garden, and once in the bathroom.

- » **Tessa:** Leren huilen
- » **Jens:** WIS'VO
- » **Robin:** De Tessa Special
- » **Jelte:** Vo voor de 43ste CO

43 + PUSCHKIN WATERMELOEN

The combination of licor 43 and Puschkin watermelon made us drool. Not only was the color of the shot bronze, it also shimmered. The smell brought us back to our childhood, as it reminded us of all the sweet candy we ate before. Once again this was deceiving, the taste left us unsatisfied yet again. It was so sweet that we started worrying about cavities.

- » **Tessa:** (VO voor de) Post (water)Malone
- » **Jens:** Fernandes geel
- » **Jelte:** WaterVomolone

43 + PROSECCO + SPARKLING WATER

Then we went for our final tasting. This time not a shot, but a full glass. The combination sounded promising, namely Licor 43, prosecco and sparkling water. It looked a bit like flat beer, but that did not stop us. We immediately took a big sip. Only to find out, this was the worst combination of the evening. The taste was described as: piss, puke, bile and bah. The full board agreed immediately that this was an abomination. If only board meetings went this quickly. Sadly the full glasses needed to be emptied and Jelte stood up as the true warrior and saved us.

- » **Tessa:**
- » **Jens:** Bubbeltjes 'vo
- » **Jelte:** 43 spritz



COMMITTEES & FRATERNITIES

GEWIS is built on top of committees. Besides, Study Association GEWIS has several fraternities which contribute to the atmosphere and organize activities.

Find out more at: www.gewis.nl/association.

FRATERNITIES

ATHENA
ATHENA



B.O.O.M.

Buitenplezier Op Onze Manier



Défi
Défi



GEPWNGE

GEWIS Plant Weer Nerdige
Activiteiten en Geeky
Evenementen



I.V.V

In Vino Veritas



COMMITTEES

ABC

ApplicatieBeheer Commissie

AC

Activiteiten Commissie

AVICO

Audio- en VideoCommissie

BAC

BAr Commissie

C4

Corporate Communication and
Contact Committee

CBC

Computer Beheer Commissie

CC

CarnavalsCommissie

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First Year Committee

FYC25-2 Icebug ★

First Year Committee

FYC25-3 Barbi/e ★

First Year Committee

FYC25-4 Drunkhoven ★

First Year Committee

FYC25-5 S.O.S. ★

First Year Committee

GEBALLMERPIEK

GEWIS'sers Ervaren BALLen
MEt Rigoreuze Precisie In
Excentrieke Kups

GEBEP

GEWIS Borrows Euler's Proofs

GEDWAAL

GEWIS'ers Dwalen Waar
Anderen Anders Lopen

GEFLITST

GEWIS Fotografeert Leden In
Toffe Situaties, Toch?

GEHACK

GEWIS Ervaart Het
Algoritmisch Code Kloppen

GELIFT

GEWIS'ers Liften Ieder

Fantastisch Traject

GESPORT

GEWIS sport

GETAART

GEWIS'sers Eten TAART

GEWISKI

GEWIS'sers Ervaren Wintersport

In Super Koele Ijstijden

GEZWEM

GEWIS Zeilt Weer Een Meter

GSM

GEWIS Social Media

INTRO24

Introduction Committee 2024

ODC

Ouderdagcommissie

RRC ★

Room Responsible Committee

SR

StudentenRaad

SUPREMUM

Supremumcommissie

TRAIN

Training

YBC23

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YBC24 ★

YearBook Committee 2024

SUPREMUM COLOPHON

SUPREMUM

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EDITOR IN CHIEF

Lotte Lakeman

FINAL EDITOR

Pim van Leeuwen

MAIL

Aimee Smarius (Chief)

Lotte Lakeman

Wessel de Jongh

WRITING

Lucas Muller (Chief)

Lotte Lakeman

Arend Roijakkers

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Willem Schinck

Koen Deen

DESIGN

Pim van Leeuwen (Chief)

Ciska de Greef

Lotte Lakeman

Arend Roijakkers

Darja Savčenko

Wessel de Jongh

POSTAL ADDRESS

Study association GEWIS

Attn. Supremum

MF 3.155 Postbus 513

5600 MB Eindhoven

Tel: 040 - 247 2815

supremum@gewis.nl

<https://supremum.gewis.nl>



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