

S T U D Y   A S S O C I A T I O N

G E W I S

E  
SUPREMUM

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THE  
HEROES  
ISSUE

# EDITORIAL

*Is it a bird? Is it a plane? No! It's SUPERemum!*

**EDITOR IN CHIEF** Stephan van den Berkmortel

And with that amazing pun I would like to welcome you to the final instalment of the Supremum's 49th volume, themed heroes. It is amazing to see how more and more people adapt to the theme to make each edition a much more coherent magazine, kudos to all authors!

The scary part of setting any theme is the risk of getting very similar articles. I think the diversity of our association made sure that this has not happened thus far. Even better, we noticed this edition that some articles even form a synergy with others and have gladly pointed those out.

I believe the Supremum has some superhero powers itself, and to justify I will dig back a bit to my not so old Japanese interests. You see, in contrast to the generally all-mighty depiction of western superheroes, the Japanese hero or protagonist characterises itself by being initially powerless or even hopeless. The true strength of the hero arises when subjected to great peril.

One of the most well-known ones is of course Goku achieving Super Saiyan 1 when Frieza explodes his buddy Krillin (30 year old spoilers!). Having finished one full cycle of newly designed Supremums, I think the magazine and we as a committee are a Japanese superhero in our own right. Beaten down and defeated by the hassles of the old Supremum we re-emerged with new powers that will help us face new and even greater problems, and save the world.



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# CHAIRMAN'S NOTE

*At the moment I am writing the last chairman's note of this academic year. I am really proud of this moment; looking back on the last chairman's notes of previous years, they state they were written after the board year had ended. Luckily this is not the case for me! The Supremum made a really good effort to improve in ways you could not imagine, and this is one of the many things that made this year great!*

**TEXT** Leroy Visser

Looking at the excitement of students for the Operation Research Conference and the Interviewing days give me good hope for the future. As a board we already see variance between younger and senior students on the topics of career orientation and personal development. Younger students are already more aware of the importance of these topics. This year we have made a few steps in the right way, but many more are needed.

An example is the pilot training which have been organized this quartile by our freshmen committee. The feedback was positive and next year we will incorporate more study oriented training for all our members. It's a big challenge, but I know the 36th Board will succeed in this.

Career and educational activities are fun, but sometimes you just want to relax and grab a beer and enjoy the evening. Well, grabbing a beer was not the problem this quartile, as the BA Committee had their lustrum week with lots of different drinks. They even had a drink where beers of all Trappist breweries were present.

In the last chairman's note of last year, Tim asked GEWIS some questions about the future and I hope some of these have been answered this year. I know not all have been answered, but the first steps have been made. Now it is up to the next board to face these challenges and make sure GEWIS can cope with it.

The first important task is to make sure every new student at the department of Mathematics and Computers Science knows what GEWIS is and what we have to offer them. This also includes the new master students and the students who do not attend the introduction week.

Now I have talked about just two challenges, but there are many more regarding awareness, career, internationalization and communication. These points are strategic areas where GEWIS will keep improving in. There are also two major event's which GEWIS is going to organize next years. The first is the Northwestern Europe Regional Contest, which is an international collegiate programming contest. Besides this, GEWIS will rebrand the National Mathematics Symposium which will take place in October 2017.

In collaboration with the 36th board we made plans to face these challenges, and I have complete confidence in the execution of it by the 36th board.

We, the 35th board, did everything we could to tackle most of the challenges. We did this with joy, and I would like to thank all of you for this wonderful opportunity. Now it time to make room for a new board, who are fresh and enthusiastic. I wish Laura, Nicky, Bram, Guido, Luuk, Ralph and Merel all the best of luck. May your year be as enjoyable and instructive as mine!



# EDUCATION FIRST!

## THE HEROES OF EDUCATION

**G**ood education is very important for all students, but education is always improvable. Who does this? Who makes sure all students are free to tell about their opinion on education? Who makes sure all comments and improvements are sent to the right persons? Of course this is a part of my tasks, but there are many people helping me. That is why I am going to tell about my heroes of education.

**TEXT** Patricia Vossen

First of all there are educational committees that collect all comments from students to discuss them during their meetings. They also review surveys to make sure all the concerning results are looked into and overview the improvement plans of teachers.

Next there is the faculty council that discusses everything with the faculty board. They check the faculty board on decisions they make and give advice on how they can do better. They try to make sure everything within the faculty goes well.

Sometimes there are also problems concerning the entire university. The university council keeps in touch with all educational officers and all faculty councils to receive updates about changes within all faculties and to find out where they might have to help.

Of course, we need our students to find out where the problems lie. That is why the students who attend the 'kringgesprekken' are very important. Without their cooperation, we do not know what is happening at lectures and instructions we should know about.

All these parties are gathered in the student council. Here everything is discussed once more and experiences are shared. During these meetings, many problems are shared and we decide which party will be responsible for solving it. We also review experiences of previous years to find out how things were solved in the past.

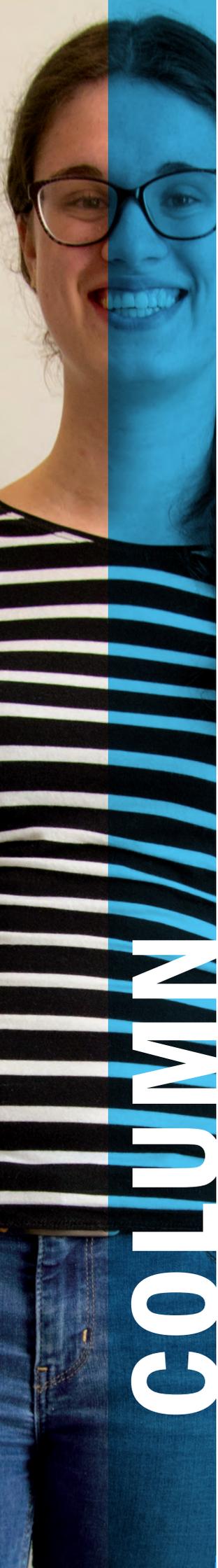
Of course, the teachers and employees play a big role in this as well. They try to improve their courses and the way of education as good as possible with the tips and improvements they receive from students. They do their best to improve their courses bit by bit.

One subject where all of these parties are talking about right now is the 12 hours schedule. Since the amount of students rows each year and we have a limited amount of big lecture rooms, it hardly fits in the 10 hours that we have now. The solution that they have in mind is to make the lectures a bit shorter and put two lectures together with a break of 10 minutes somewhere in the middle. They also want to start earlier in the morning. This way we spare time at the end of the day and it ends at a reasonable time. The overall opinion of most parties is that they do not know if it is already necessary, because the last two hours are hardly used. They also want to make sure that the lunch break stays in the schedule, so meetings can still take place during the lunchbreak.

*Without the cooperation with these groups I was not able to help all students. That is why I thank everyone who helped me making decisions or made time to have a brainstorm session with me. This was my final article for the supremum about my role as an educational officer, but I am sure that my successor, Luuk Meeuwis, will always try to keep you all updated about hot topics concerning education.*

GEWIS





# HEROES IN PONCHOS

*The past few years, the candidate boards made a so called 'kandi-tour' in the Netherlands. During this day, they visit a lot of their sister associations (other Mathematics and Computer Science study associations) to get to know them because they will work close with them during their board year. This year was no different. At Monday May 30th, it was due date. With hinds, they travel through the country searching for associations. At each location, they do activities to achieve their new clues.*

**TEXT** Nicky van den Berg

Our day began at 6:30am. At this time, we had to be present at Eindhoven Central Station, to receive instructions about the day, and receive the first hint about where we had to travel to. Furthermore, we got a trampoline (without legs to stand on), to carry with us all day, and of course, we had to make sure that this item would not be 'gebrast'. Our first hint led us to study association STORM, located at the VU in Amsterdam.

“ ... while drinking a boiling-hot bottle of rosé wine. ”

Arriving at the VU, we sat down to drink a cup of coffee. The board of STORM told us that our assignment was to play their favourite two games with them: foosball and 'De Grote Dalmuti'. Luckily, since Ralph and Luuk have trained a lot, they were able to beat the board in foosball, and we were even able to win The Grote Dalmuti twice! After this, we had our first 'leermoment' ('learning moment') and received our second hint, which let us to study association via. (But first, Laura and Merel had a little chat with a friendly employee of the public transport of Amsterdam via the info pillar!)

In Amsterdam, we immediately received a 'leermoment', as well as the assignment to solve a crossword puzzle.

We also found a number of bottles of Smirnoff Ice, which we chugged with honour. Their neighbours, study association NSA, noticed that we had arrived at via, and even though they wouldn't be present at this day, we had the chance to meet these people. They were nice enough to give us a bottle of water, which we gratefully drank. After receiving the hint from via, we headed to Utrecht.

In Utrecht, study associations A-Eskwadraat and Sticky are settled. We were welcomed in the room of A-Eskwadraat by their mean-looking board members. We sat on a tiny couch with all seven of us, and answered questions about each other (questions like: who is the most mysterious, who would pass out because of alcohol the first, etc.), while drinking a boiling-hot bottle of rosé wine. Luckily for ourselves, we know each other quite well, and managed to answer the questions adequately, and almost finished the wine in time. Something even the board of A-Eskwadraat did not expect! After this game, while drinking a cup of coffee, we found out that these mean-looking board members were not that mean at all. And we had a good chat before we went to Sticky.

When we arrived at Sticky, we were told to head up to the 7th floor of the building, by stairs. As you all undoubtedly know, we are all very sporty, so this was no problem, and the trip back down (of course, the activity was in the basement, and not on the 7th floor...) was just as easy to survive. In this basement we learned

a lot: meaning that we had to ride on a trolley without touching the floor, and drinking a 'leermoment' at the end of this trail, which was very fun to do!

After Utrecht, our next stop was Enschede, meaning that we had some time to rest in the train, because this train trip takes about 2 hours.

“ After this we had to do a race on 'skippykoe'... ”

After this very long travel we arrived in Enschede. We first went to Inter-Actief. Here we had to answer questions about GEWIS, like what is the phone number? And who are your predecessors? One of us had to hold a bucket in his hands with stretched arms. Every time a question was answered wrong one bottle of water was poured into the bucket. Luckily we knew a lot about our own association, but some of the questions were extremely difficult (like the fax number of GEWIS :o). The bucket became heavier and heavier and we were all glad when we answered the final question correctly. After this we had to do a race on 'skippykoe', which is a very small cow-like skippyball that it was so low it was nearly impossible to skippy on it. After a lot of falling got to the finish and we could go to Abacus. We managed to bras one of the skippykoes, however in their opinion, kandies could not bras items and they stole it back improperly.

At Abacus we had to sort iron beads on color. There were very much beads and a lot of different colors, like two different dark greens, two different light greens and three sorts of pink. When we were finished they put everything in a glass, so you could see the different layers of colors. After all this work we got a well-deserved pizza before leaving to Nijmegen. On our way to the station one of the board members of Abacus brought us to the super market so we could get some fresh beer, because it was extremely hot (about 36 degrees). This heat also caused the train to get overheated in Zutphen, which meant that we had

to wait half an hour before we could continue our journey.

In Nijmegen we found the board and some candidates for their next board from the associations DESDA and Thalia sitting together. First everyone introduced themselves and after that we got a very delicious exercise. A candidate of DESDA showed us how to run some circuit. He wasn't very fast, so we thought we could do it better. Only then all of a sudden some board members gave us 36 pancakes. We needed to eat a pancake (drowned in beer), run the circuit, eat a pancake, and so on, until we finished all the pancakes together. Luckily for us we have some good eaters in our midst: men. Merel and Laura tried their very best, but when they finished two pancakes and two rounds while Luuk, Bram, Guido and Ralph already started on their fifth pancake. Nicky needed to keep running around with Truus Tjeerd the trampoline (as we named our trampoline), which actually looked pretty funny. It started to become dark, and even the last pancake was finished so we could go on to our next exercise. The next exercise we formed a team against 7 (candidate) board members from DESDA and Thalia. The game was called flunkyballen. The teams need to face each other and in the middle was a beer tin. Everyone had a beer tin for himself too. We needed to throw a beer tin as a ball towards the beer tin in the middle and when it fell, we were allowed to drink from our own beer. It looked a little bit like an activity from I.V.V; 'spel met ballen'. Bram and Luuk smashed the tin several times and so we won the game to great annoyance of our opponents.

After this nice day, we headed back home. Happy and tired. It was a great experience and we are looking forward to next year!





# GEWISSENSCHAFT: MAILMEN, THE HEROES WE NEED AND DESERVE.

*"Neither snow nor rain nor heat nor gloom of night stays these couriers from the swift completion of their appointed rounds", so reads the crest on the main post office building in New York City. Although the United States Postal Service occasionally cancels the delivery services when the weather conditions are unsafe, the motto is a good indication of how serious the United States take their postal service.*

TEXT Bor de Kock

Do you know which US Government Official receives the highest salary, after President Trump? It's not the Vice President, nor is it a member of Cabinet. It's someone you've probably never heard of before: her name is Megan Brennan, and as United States Postmaster General she is responsible for the operation of the US Postal Service. The office of Postmaster General exists since 1775, making it older than the US Declaration of Independence, the US Constitution and the Flag. When Benjamin Franklin was appointed as the first Postmaster General, he operated a small post office in Philadelphia that still exists and is the only post office in the US that does not fly the American Flag: it did not exist yet, at the time of opening. Speaking as a Dutch person, this seems to be a weird tradition: the flag evidently exists now, so why wouldn't you simply add it? To Americans, however, this is a very important historical detail in need of protection and preservation. Similarly, that office predates the existence of rubber stamps and therefore postage stamps are still invalidated using the signature of Franklin himself.

The pride the American people take in their postal system is quite extraordinary, and the fact that they - despite their love of government contracting - did not privatize it should be noticed. Compare it to the way we have handled our postal services: the former

PTT (which stood for Staatsbedrijf der Posterijen, Telegrafie en Telefonie, or the State agency for mail, telegraph and telephone services) has been split up and sold off by the government in the '90s. Like many postal services the PTT operated its own bank, which is now known as ING, the Telephone division became KPN and the Postage Division has since then changed name three times and has now deteriorated so much that it was almost bought by the Belgian State postal agency BPost in 2016. The deal didn't go through: not because of financial reasons, but purely because the Dutch government wanted to avoid a situation in which the main Dutch postal system would now be owned and operated by the Belgians, a level of irony I would have loved to have seen. It is probably just a matter of time until a new buyer will be found.

The difference between the way the Dutch handle PostNL and the Americans handle the USPS poses an interesting question: why do the US - that one country where everything is privatized - keep the state monopoly on the postal system intact? Not only is the USPS still state-owned, there are also strong laws in place to keep other companies from competing with the system. It's fine to deliver packages in the US like FedEx and UPS do but delivering normal mail is punishable with a \$500 fine and a prison sentence of six months - not including the fact that opening a



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*A view on the U.S. General Post Office located in New York City*

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*The letter carrier memorial honoring three different types of letter carriers from across U.S. history*

mailbox you do not own is considered a felony, leading to imprisonment of at least a year.

The main answer lies in the size of the US, and the many rural communities. Currently, the price of sending a letter to a nearby address or to an easy-to-deliver address makes up for the large cost of shipping a letter out to a small village in the middle of nowhere and having a postman drive out to a farm that's even more remote than that. If a private company were to compete freely with the USPS, this advantage would disappear and it would be very expensive to send mail to people living far away. There is of course discussion about whether this is a good thing, and interestingly enough both arguments are based on the fact that all Americans are equal according to their Constitution.

Those who are in favor of the state monopoly state that all Americans are equal, and therefore they should all have the same right to receive letters and stamps quickly and cheaply. The monopoly is thus needed, because a private company would not keep the prices the same. The other group poses that everyone in the US has the freedom to choose where they live, and therefore they can factor in the larger costs of receiving and sending mail in a rural place. Of course, whether everyone actually has that freedom is left out of the debate. The discussion about the status of the USPS is a very interesting one, because it is one of the many discussions in the US where both sides use the same document – The Constitution – as their main argument.

Regardless of the debate, the US still has a functioning postal system that will continue to operate in the coming years, while PostNL is trying to get rid of delivery days, increasing the cost of letters and reducing the number of orange mailboxes on the streets. Although you would expect it the other way around, maybe we should learn from the US here: not every privatization is a good idea.



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# AN INVESTIGATION OF THE HERO

*At some point during your GEWIS-career you will hear the illustrious phrase “Oh! Je bent een held!”, which roughly translates to “Oh! You are a hero!”. It symbolizes, albeit with tremendous hyperbole, appreciation of the deeds just performed. It makes one wonder, what does being a hero entail? And by extension, how could one truly become a hero?*

**TEXT** Yoram Meijaard

The noun “hero” is defined by the Oxford Dictionary as: “a person who is admired for their courage, outstanding achievements, or noble qualities”. Assuming the overarching dominance over the English language by the Dictionary is justified, we can conclude that there are three aspects of heroism that need considering: courage, outstanding achievements and nobility.

What does it take to be courageous? Handing in a final report without spell checking? “Vozen in the soos” whilst the BAC is looking? Conquering great heights? An easy answer to these questions seems non-existent, but what else can be learned from our abundance of superhero movies, other than courage? When Batman fights Bane, is it really the fighting itself that shows great courage? Much rather, it is the act of facing an enemy that has already, in this case literally, broke him. It was a fight Batman knew he could lose, but he faced his enemy nonetheless. Batman does not just face Bane, by extension, he faces his former self and all his failures, which is a true act of courage.

Standing out is fairly simple, nowadays everyone is their unique special snowflake. Achievements are not snowflakes, they are measurable qualitative objectives. An example of a true achievement can be found in the story of the Lord of the Rings. Frodo, a celebrity hobbit with no specific training, marches from the little green hills of the Shire, to the desolate wastelands of Mordor

into an active volcano whilst being tracked by indestructible ghosts on monstrous beasts, all the while carrying a part of a fallen Angel. The achievement is unique, difficult and took the greatest effort that Frodo has done in his life. To me this is the central part of an outstanding achievement, going to the boundaries of yourself and go past it.

Finally, we come to nobility. There is a noble family that is close to the hearts of many of our members and can be found in the “Most Ancient and Noble House of Black” from the Harry Potter franchise, especially with their last descendant: Sirius Black. Aside from his deep voice, his kindness, or his superior spellcasting and resources, Black has an encouraging effect on everyone around him. His presence does not reek of disdain for the lower class, but of the desire to bring forth the best in himself and in his fellow men. Black shows us the core of nobility, to be encouraging and inspiring.

Facing yourself, going beyond your boundaries and encouraging those around you. A recipe for a true hero. It is thus that I call upon all of you, to find a way to challenge yourself, to go beyond your own boundaries and help others to go beyond theirs. Take a second, right now, to think of something that you always wanted to do and just start to boldly go where you have not gone before!

# NIEUWE TIJDEN, ANDERS WERKEN

**T**echnologische innovaties volgen elkaar in een moordend tempo op en zijn steeds vaker direct van invloed op ons dagelijks leven. Contactloos pinnen en elektrisch autorijden zijn tegenwoordig de normaalste zaak van de wereld. Maar ook de vooraf ingevulde belastingaangifte is een goed voorbeeld van waar we dankzij technologie allemaal toe in staat zijn. Bij de Belastingdienst worden innovatieve oplossingen gezocht om het voor burgers en bedrijven gemakkelijker te maken. Het bijhouden van nieuwe technische mogelijkheden is nodig om ook in de toekomst te kunnen anticiperen op wat de maatschappij verlangt.

TEXT Belastingdienst

## METERS MAKEN

Werner van Rees werkt voor het Center of Excellence (CoE) Gegevensontsluiting binnen IV Accent, en is verantwoordelijk voor het ontsluiten van talloze brongegevens uit systemen waar de Belastingdienst mee werkt. Deze gegevens levert hij op aan data analisten die er vervolgens verder mee aan de slag gaan. Hun analyses leiden weer tot een betere risicoselectie voor belastingaangiften.

*“Wat ik persoonlijk erg fijn vind is dat we in kleine teams werken aan een product met collega’s van verschillende disciplines. Zo werk ik samen met een bouwer, een tester en iemand van operations die alles doet om dat wat we hebben gemaakt, in productie te krijgen. We maken in korte tijd veel meters, omdat juist al deze expertises bij elkaar zitten. Zo zijn we in staat om binnen een paar weken iets in productie te brengen. Stap voor stap werken we naar een eindresultaat waar iedereen blij van wordt én waar we, mocht het nodig zijn, tijdig bij kunnen sturen. Dat is toch veel beter dan pas na maanden ontdekken dan het eindproduct niet is geworden zoals je in eerste instantie had bedacht?”*

## PUTTEN UIT EEN ENORME DATABRON

*“Dankzij ons worden er risicomodellen en dashboards gebouwd waarmee aangiftes gefilterd worden. Aangiftes met het meeste risico worden er als eerste uitgefilterd. Daarmee staan we aan de basis van het*

*data gedreven werken van de Belastingdienst. Uiteindelijk is het de bedoeling dat we de hele Belastingdienst ontsluiten, zodat we een grote laag met gegevens krijgen. Geordend en wel. Het is dan vrij eenvoudig om vervolgens systemen aan elkaar te koppelen, zodat een data analist over meerdere systemen heen analyses kan maken. Dat is écht van toegevoegde waarde.”*

Als ETL-bouwer is Werner onder andere bezig met het ontsluiten van het meest omvangrijke systeem binnen de Belastingdienst; het Aanslag Belastingen Systeem. In deze applicatie zitten alle belastingaanslagen van miljoenen burgers. En niet alleen van het afgelopen jaar, maar ook van een aantal jaar eerder. Met maar liefst 16 terabyte aan gegevens is het een enorme databron waaruit geput wordt.

*“Het is echt niet eenvoudig om zoveel gegevens te ontsluiten, maar we zijn goed op weg. We zijn met zijn allen volop in beweging en zien steeds weer nieuwe technieken die we in kunnen zetten. Dan bekijken we in eerste instantie of ze een meerwaarde kunnen zijn voor de Belastingdienst. Goed samenwerken om tot betere producten te komen en betere prestaties te leveren, daar gaan we voor.”*



# HEROES OF MIGHT AND MAGIC II

**W**ij speelden vroeger in de straat allemaal *Heroes of Might & Magic II*. In het Duits. Want degene van wie we het spel hadden, kwam uit Duitsland. Ja, we hadden allemaal de gebrande versie, want we waren kindjes en we hadden geen geld en geen internet. Het zou mooi zijn geweest als ik daardoor nu heel goed was in Duits, maar helaas. Ik ken alleen maar woorden waar je niks aan hebt, zoals *Totenbeschwörer* en *Knochendrachen*. Nou ja, heel misschien dat er ergens een metalcafé is ofzo waar je cocktails hebt die zo heten. Maar ik kom niet zo vaak in metalcafés in Duitsland, en ik bestel ook niet zo vaak cocktails.

**TEXT** Frederique Gerritsen - GEPWNAGE

Ik dwaal af. Dus elke keer als er dan iemand jarig was, gingen we *Heroes of Might & Magic* spelen met z'n allen. We waren meestal met vijf. En in die tijd had je nog niet dat je gewoon allemaal even je laptop mee nam. Nee, het was hot seat. Oh wacht, sorry, "heißer Stuhl". Ja, zo heette dat echt. En dan moest je maar wachten tot je an der Reihe was. Alleen ja, we waren kindjes, en we waren niet allemaal even ervaren gamers, dus bij sommigen duurde een beurt echt EEN JAAR ofzo. En dan werd Roel (de buurjongen) helemaal boos enzo, want je had al je stappen al gezet en je had al iets gekocht in je kasteel, dus je kon toch niks meer doen in je beurt.

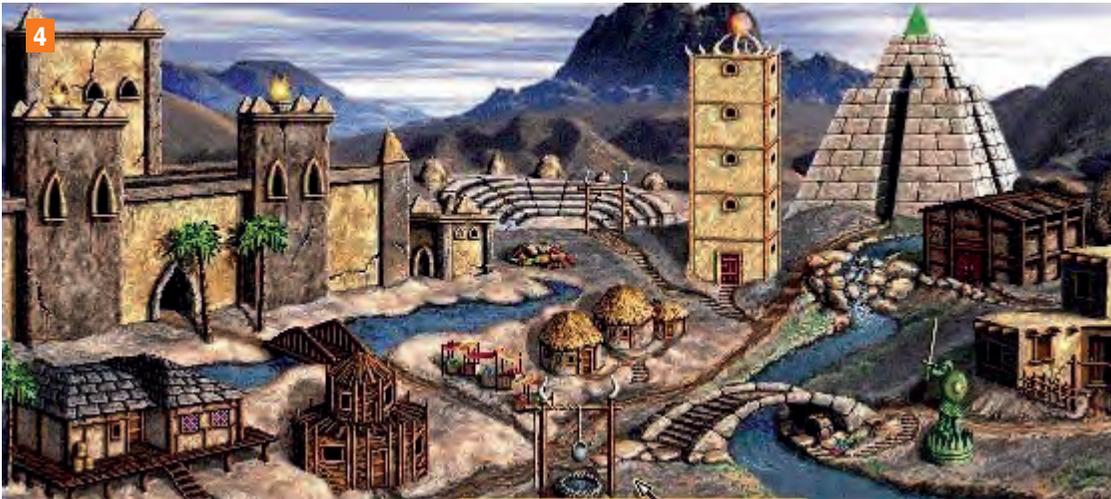
Volgens mij hebben we nooit echt een potje helemaal afgemaakt.

Maar ja, ik was altijd de *Totenbeschwörer* dus. Want dan kon je skeletten rekruteren, en die waren best wel schattig. Kijk maar. **0** En als je *Necromancing* level 1 had, dan kreeg je na elk gevecht allemaal gratis skeletten. De mutierter *Zombie* was ook leuk. Kijk maar. **1** De gewone niet zo. Kijk maar. **2** En die kon je rekruteren als je een *Friedhof* had. En dat was leuk, want friet was mijn lievelingseten, en dan was het net alsof je een *frietkraam* had. Alleen zag het er niet echt zo uit. Kijk maar. **3**



Alle classes hadden ook een ander kasteel enzo. Ik vond de *Barbar* altijd stom, want die had het lelijkste kasteel. Vanbinnen dan. Kijk maar. **4** Maar van buiten was die wel leuk, want hij had palmbomen enzo. Dat zou wel fraai zijn voor dat metalcafé, als het er van buiten uitzag als zo'n kasteel. **5** En binnen heb je dan allemaal leuke cycloopjes die cocktails rondbrengen. **6** Met een prikker met zo'n glanzende pluim erop die je ook in ijscoupes hebt. In de cocktails dan, niet in de cycloopjes, want dat is zielig.

Er was ook een level editor. Dat was leuk, dan kon je dus bestaande levels aanpassen en jezelf allemaal supergoeie units geven, en de computer helemaal inmaken. In een weckpotje. Goed voor je vitamine B12. En die ingemaakte computers kan je dan als bar food bestellen in dat metalcafé, mjammmie. Wacht nee, helemaal niet mjammmie, computers zijn niet vegan. Macs komen wel aardig in de buurt, dus misschien moeten we die dan maar inmaken. Ik dwaal weer af. Maar de computer gaf zichzelf ook allemaal bonussen (boni? bona?), dus wij vonden dat wij dat ook mochten. Je had overigens ook gewoon cheats. Als je bijvoorbeeld 32167 typte, kreeg je 5 gratis *Schwarzer Drachen*. Maar dat was niet leuk, want als je dan de game won, stond er in de high score list dat je vals had gespeeld. En als je in de editor dingen aanpaste kreeg je dat niet. Ha.



Misschien moet ik zelf maar dat metalcafé oprichten. In Venlo. En dan komen alle Duitsers daarheen in plaats van dat ze naar de Zwei Gebrüder gaan en de Tchibo en de Beej Benders enzo. En dan ga ik alle cocktails vernoemen naar monsters uit Heroes of Might & Magic II. En dan ga ik bijna failliet, want ik heb geen idee hoe ik een metalcafé moet runnen, en dan ga ik Jon Taffer van Bar Rescue bellen, en dan gaat hij er een worst- en steakbar van maken, want dat is wat de Duitse toeristen willen, maar dat is veel minder vegan dan ingemaakte Mac-computers, dus dan stop ik ermee, en dan ga ik maar weer ergens software testen en de hele dag pimpampet spelen en dit soort stukjes schrijven.



0 \_\_\_\_\_  
*Leuk skelet*

1 \_\_\_\_\_  
*Leuke zombie*

2 \_\_\_\_\_  
*Onleuke zombie*

3 \_\_\_\_\_  
*Ik denk niet dat ze hier lekkere friet hebben*

4 \_\_\_\_\_  
*Ie*

5 \_\_\_\_\_  
*Beste metalcafé ooit*

6 \_\_\_\_\_  
*Wow sexy*



*Infimum: Strange or funny quotations from a teacher, a student or faculty member.  
Here you can find infima sent to the Supremum committee. [inf.gewis.nl](http://inf.gewis.nl)*

**Ivo tegen Iggy:** "Wat heb je met je haar gedaan?"

**Iggy:** "Ik heb mijn baard geschoren"

**Gijs:** "Oooh heeft mijn maat óók genuld? Ja, dan werkt het niet."

*"On the first of June, the intro-theme will be announced."*

**Maureen v N.:** "Huh, maar we zijn toch al een team?"

**Pim B, tijdens de Arduino workshop:** "Hij stijgt als ik er aan lik."

**Bart tegen Tamara:** "Werk even door met USE, dan kunnen we vozen"

**Remco:** "Als je dronken bent gaat USE gewoon beter"

**Ysabelle over USE:** "Kan ik dit niet uitbesteden aan mijn zusje? Hier heb je toch geen technische kennis voor nodig"

**Bart:** "Ik heb je niet verkracht, maar jij maakt een gat en ik maak daar gebruik van."

**Random reclame tijdens het spadese:** "capabel.nl"

**Esmée:** "Soms denk ik echt, ik heb me leven echt op orde, maar dan denk ik daarna; nee, Esmée, je hebt je leven helemaal niet op orde."

**Meisje op Amsterdams huisfeest:** "Drinken op je 12e, dat heet carnaval, toch?"

**Jet B:** "Ik ben al twee jaar niet ongesteld geweest."

**Dobin:** "Waarom lijkt Wout altijd superstoned? Of ja, niet stoned, maar dronken" Houthuijs: "Hoe schrijf je incapabel?"

**Jet K over een relatie met Bas:** "Zijn papa heeft een privé-jet. En dan wordt ik zijn privé-Jet."

*Sjaarzen halen drank bij de Gall en Gall in Amsterdam.*

**Random verkoper:** "Koop deze, want ik heb hem nog nooit verkocht."

**Eline, terwijl ze haar agenda aan het bijwerken was:** "Mijn agenda zit weer eens helemaal vol."

**Esmée:** "Ja, dat is meestal aan het eind van het jaar, daarom moet je ook weer een nieuwe kopen."

**Kees V:** "Dante kom eens hier!"

**Dante S:** "Ik kom altijd als ik jou zie!"

**Tom v W:** "Ik dacht aan Martin, maar die heet helemaal geen Joris!"

**Koen:** "Ik zei nee tegen de worst van Kit!"

**Jeroen v O:** "Liever syfilis aan mijn rechterbal dan een nootje in mijn bier."

**Nicky G:** "Sexy is ook heel grijs."

**Nicky G:** "Moeilijk is ook heel praten."

**Michael:** "Fris is hier 35 cent!"

*\*20 seconde later\**

**Celine:** "Oh, ik was niet wakker, maar heujj 35!"

**Wesley:** "Ik slik het door, dat zie je toch aan me!"

**Edwin S:** "Ik snap dat puntje uithameren niet, ik heb toch ook geen hamer op mijn kop gekregen toen ik ingehamerd werd."

**Zjos:** "Ik ben niet in het verste stadium van afstuderen in een straal van 2 vierkante meter."

**Kutjeroen:** "Nou, als je straal een eenheid heeft van vierkante meter weet ik ook niet of je daar klaar voor bent."

**Vinz:** "Ik zou me liever inbeelden dat ik masturbeer dan dat ik me zou inbeelden dat ik een drol eet."

**Raquel:** "Bas heeft een lelijke broer, hij lijkt op Bas maar dan met rood haar, maar ook wel dikker. En hij neemt wel knappe homo's mee naar huis en ik snap niet hoe die het doet."

**Job tegen Eline:** "Je bent echt jong genoeg om mijn vader te kunnen zijn."

*Internet explorer werkt niet mee.*

**Ysabelle:** "Godverdomme-explorer!"

**Dobin legt even uit hoe je Nederlands moet spreken:**  
"If you see 'oe' and have no idea how to pronounce it, just think about Sander having an orgasm."

**Joris Geurts tijdens Automata instructie:** "Dat gedeelte van je autisme moet je dan even uitzetten."

**Chantal:** "Ik wil niet weer naar Rick z'n kont kijken."

**Wietske over Vincent:** "Is dit een supermarkt?"

**Ruben B, tijdens het kanoën bij het B.O.O.M.-weekend:**  
"Oooh water!"

**Bram S:** "Ik wilde zo graag op je spuiten, Bor!"

**Bor:** "Ik heb die van Van der Waals ook gehad, maar die is een stuk kleiner."

**Levi:** "Is dat zo'n dunne langwerpige?"

**Arno:** "We vonden wel dat hij groot moest zijn, anders kun je het net zo goed niet doen."

**Tobin:** "Ik wil hem als mijn vader en mijn zoon."

**Tim:** "Niet ook als broer?"

**Tobin:** "Nee dat is vreemd, dan kan ik geen seks met hem hebben."

**Kit:** "I will not let David Hasselhof come inside of me."

**Wesley B:** "Ik heb een heel druk jaar gehad! Ik heb een jaar veel gestudeerd en mijn eigen kledinglijn opgezet."

**Sanne:** "Haha... Gay porn."

**Simon:** "Wietske is koel,.. en dr dwerg is ook wel schattig."

**Sabine G tegen een ouder van de ouderdag:** "Weet u hoe uw man eruit ziet?"

**Tim E:** "Een aardbei zit wel altijd vol zaad."

**Eline:** "Oh! Dan heb ik het libido van een aardbei."

**Ysabelle over pijnstillers:** "Ik houd niet zo van slikken."

**Sjaars Rick:** "Mond open en slikken is de volwassen versie van helikopter."

**Arend tijdens de vergadering:** "Triozenen is altijd +1, of nee eigenlijk +2"

**Meltem over cantussen:** "Nederlandse cultuur is fucking eng."

**Dobin bij de laatste EJC-vergadering:** "Eindelijk van KUTCOEWN af!"

**Jet tegen Ingmar:** "Woow je tieten komen echt mooi uit in dat shirt"

**Twan M tijdens het kaarten:** "Vrouw op vrouw is altijd goed."

**Femke:** "Jeffrey je doosje is nat."

**Jeffrey:** "Mag je houden."

**Femke:** "Ik hoef geen nat doosje."  
(doosje van de kaarten, nadat Femke cola omgoot)

**Bram:** "Kas hoe goed ben jij in ontwijken?"

**Kas:** "Ik ben goed in meisjes ontwijken, telt dat ook?"

**Marloes op het strand:** "Ik hou niet van het strand. Wel van zand, maar niet van zee. Geef mij maar gewoon een grote woestijn."

**Bart:** "Waarom kunnen we geen normaal gesprek hebben? We hadden het net over lavenhandel en nu hebben we het opeens over penissen!"





**O**n the 20th of May GEWIS had one of her first skiing activities, a trip to Bottrop. Around 30 members of GEWIS decided to participate in this activity, organized by GEWISKI in collaboration with I.V.V. The former is a fairly new committee of GEWIS and probably still unknown to most of you. That's why we have decided to write a short introduction about ourselves and explain what we plan on doing.

**TEXT** Tim Engels - GEWISKI

The trip to Bottrop was our way to show people who we are and what we are capable of. This being organizing a fun day with a ton of pain for some of us. Our secretary, for instance, decided to go off the larger slope without enough experience and did not make it 5 meters down before he already tried to eat snow. A fun sight for all of us, except for him of course. Luckily he was not the only one to fall because not too much later Wout decided to ski into some people on the beginner's slope, which wasn't a fun sight for them. However in the end everyone could laugh about it and confidently say they enjoyed skiing and went home with a good memory of the day. Some of them stayed longer, though, to participate in the après-ski, which was packed with loads of beer as well as some gorgeous girls dancing on the bar, which caused a lot of faces facing the bar. Even Ilse, our vice-chairman, couldn't resist to look at the Germans who were desperately trying to flirt with them.

# A SHORT INTRODUCTION TO GEWISKI

Since the days was packed with so much fun, a lot of the participants will remember us. However, we can imagine that some of you still want to know more about the committee. The committee consists of 6 people, some of which you may know. Our chairman is Sjoerd van Heesbeen who is in his second year of studying mathematics, well known for his extensive love for beer. Our vice-chairman goes by the name Ilse Fölker who studies mathematics as well, whom you might know for always being at GEWIS trying to help people. Who goes by the same name as our treasurer Tim Houthuijs, who also goes by the name Ted due to his teddy bear like look. Our secretary is Tim Engels, who gets called kuttim quite frequently due to his huge lack of good humor and his love for insults. This leaves two more members who do not have a special role. First we have Bram Grooten, who studied a year in the USA and is in his 2nd year of mathematics now, just like all the other members. Last but not least we have Babette Lips, who studies Industrial design next to mathematics. Together we form GEWISKI, a committee that would like to organize skiing trips with GEWIS.

“ ... organizing a fun day with a ton of pain for some of us. ”

Organizing such a skiing trip sounds like a huge task, which it is in fact. However we liked to do this because of it sounding like fun as well as it giving us a huge learning process, which is quite helpful in the future.

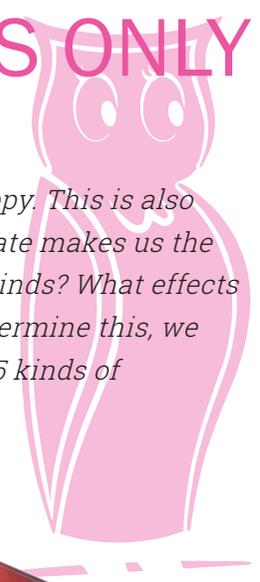
Luckily some of our members have already gone on some skiing trips themselves and have helped organizing smaller ones. The knowledge they have from this will be helpful and will give us the opportunity to organize a hopefully amazing trip. However before actually starting to organize this trip we needed to know how many people wanted to participate in this trip, luckily we saw on our interest list that quite some people were interested in participating, some of them experienced some not at all. Giving us a diverse target group for our event which we do not mind because our committee actually consists of experienced and inexperienced skiers as well. This means we need to get skiing lessons too, our first plan therefore was to provide GEWIS'ers with the opportunity to learn the basics for a discounted price. We've tried this at our trip to Bottrop and it worked quite well, but we do not know yet if these lessons will be part of our final trip as well.

To summarize, we are GEWISKI, a new committee of GEWIS which plans on organizing a skiing trip next year and wants to just have fun. Furthermore we are open for any questions you would like to ask, which can be done by mailing us at [gewiski@gewis.nl](mailto:gewiski@gewis.nl) or by asking one of our members at a social drink (borrel).





# FOR CHOCOLATE LOVERS ONLY



**C**hocolate is one of the things that makes almost everyone happy. This is also true for us, the members of ATHENA! But what kind of chocolate makes us the happiest? What kind of chocolate tastes better than all the other kinds? What effects do different types of chocolate have on your current mood? To determine this, we used our knowledge we gained at our weekend in Bruges and put 5 kinds of chocolate to the test!

**TEXT** Illona Hoenderop,  
Michael Phelps - ATHENA



## 5. CÔTE D'OR BONBONBLOC CRUNCHY

This chocolate consists mostly of milk chocolate. It brings out your romantic side. Combined with its crunchiness, it gives you enough confidence to flirt. Most members of ATHENA are already in a relationship, so we do not need it very often. Therefore, we do not rate it high.



(0.5 / 5.0)

## 4. LINDT CHILI DARK

The dark chocolate makes you more materialistic. This is not necessarily a bad thing! However, this chocolate is infused with chili, which makes it really hot. The members of ATHENA don't need this, since we are already hot enough. On top of this we appreciate the little things in life, so this chocolate is not one of our favorites.



(2.0 / 5.0)

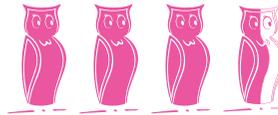




### 3. TONY'S CHOCOLONY ZEEZOUT MELK & KARAMEL

Now we get to the good stuff. This brand is well known all over the world, as is this flavor. This piece of chocolate was handed out during the last exam week. The combination of sea salt and caramel gives you focus, so it is excellent to eat while studying. And remember, milk chocolate brings out your romantic side. Combined with this focus, you can really be a Casanova.

(3.5 / 5.0)



### 2. AH CRISPY WHITE

Despite the fact that white chocolate is not really chocolate, we still think this bar should be in this ranking. The proteins in this bar, combined with its crispy appearance, give you a boost to work out more! The members of ATHENA do feel really good about themselves after eating this bar and doing a work out.

(3.5 / 5.0)



### 1. MILKA OREO

This is heaven! After eating this bar, you do not only feel romantic, you feel like you can do anything. This is caused by the combination of the milk chocolate and Oreo. If you are feeling down, heard some bad news or just want a moment to yourself, we definitely recommend you eat this chocolate bar. Do not believe us on our word. Check it out for yourself!

(5.0 / 5.0)





# LET'S ALL BE HEROES

**W**hen I was younger the term hero always had something prestigious and magical about it. I waited for an owl to arrive at my window finally delivering my letter from Hogwarts - I was ready to discover my magical powers. Other days I dreamed about opening my umbrella and being able to fly like Mary Poppins. As I grew older I sadly had to realise that earning these kind of powers was not going to happen - but could I still be some sort of hero?

**TEXT** Anja Syring

When thinking about heroes, I imagine characters like Spiderman, Superman or the Incredibles. People who somehow got equipped with superpowers. Besides of the existence of superheroes, these kind of alternative versions of our worlds are usually also populated with a high amount of villains. At some point in the story the evil guy takes the superhero's loved ones who then comes to rescue and as a side effect also ends up saving the earth or at least the population of New York City - depending on which movie you refer to. But this is not very realistic - I gave up on believing that at some point in time it was my turn to defeat an evil wizard and so far I also did not get kidnapped by the Green Goblin. Hence I was never saved by any of my dear friends or family. But what does a hero then look like in our world?

Probably all of us have some image of heroic people in our world. Firemen saving people from a burning building, policemen arresting people that break the law and doctors who save the lives of sick people are examples that come up in our minds easily. Every now and then we hear in the news about people like you and me acting like a true hero.

For example, in February 2017 a German Tesla driver noticed an unconscious driver in the car in front of him on the highway. Instead of driving off and assuring his own safety he moved his car in front of the other car, let it bump into him and managed to bring it to a stop. With this act he probably prevented a bad accident.

Heroes like this definitely exist in our world but it is still nothing that I can really identify with. I did not choose for any of these professions and so far I also have not been in any kind of situation that made me act like a hero. While thinking about this I came across a quote on the internet.

*"I think a hero is any person really intent on making this a better place for all people." -- Maya Angelou.*

Maya Angelou was an American writer and civil rights activist who lived from 1928 to 2014. She got famous for her autobiographical books and her engagement in the civil rights movement next to Martin Luther King Jr. and Malcolm X. Her quote made me think of several things we can do in our everyday life to be a hero and make the earth a better place for everyone.

Every now and then I like to take a step back and look at my current lifestyle - how are the clothes produced that I buy? Where does my food come from and how is it grown? Does my style of living affect the environment and can I reduce the amount of garbage I create? In my opinion no human being or animal should have to suffer just because I want to have cheap clothes and food. Preserving our planet should be in all of our interests.

Looking around on our campus there are already a lot of interesting projects and initiatives happening in this field. We have student teams developing solar cars and cars made out of recyclable material; the

TU/e became a fairtrade university and our main building will be the most sustainable educational building in the world after renovation has finished. Our university is not only the place where innovation starts but the place for people that care and innovations which aim to make the world a better place. Even though I am not part of any of these student teams I think they are incredibly cool and every new article I read about such achievements makes me excited.

On the other side I still believe that more of this initiative could be transferred into our daily life. At festival or party drinks are served in plastic cups that everyone just throws on the ground when they are empty without giving a second thought to the amount of garbage we produce and the fact that someone actually has to clean the area later. We buy our food at one of the common supermarket chains without wondering how a yoghurt that got transported across half of Europe can only cost a few euros, why there are peeled carrots packed in plastic or how little money the farmers could possibly have earned from our cheap vegetables. Our clothes come from stores that produce under shocking working conditions but we keep buying them because they are cheap and we are 'poor' students with little budget. At the same time our closet at home is full with things we barely wear because we do not think they are fashionable anymore.

“ I think a hero is any person really intent on making this a better place for all people. ”

Please don't get me wrong, I don't want to say that everything we do is wrong and I don't want to point fingers at 'bad' people - I, myself, get my groceries at Albert Heijn and own clothes from H&M. But I have set a personal goal to step by step change my usual habits to a more sustainable lifestyle. They might be small like not buying products with unbiological palm

oil in it or reconsidering if I really need that new pair of shoes, but I believe that they matter and in the end make a difference.

Every person that decides to at least go a bit out of his or her normal way of living to be a bit more sustainable is one more step into the right direction. The beauty is that there are so many things to start with and everyone can pick what is most important to them. Whether you plant trees with ecosia, do your own DIY upcycling projects or simply start asking questions where your everyday products come from - I believe that all together we make the earth a better place and in that sense we can all be heroes.





DEPARTMENT

# ON ALGEBRAIC GEOMETRY AND THE SWISS ALPS

**O**n January first, 2017, besides just a new year in the Gregorian calendar, there was the dawn of a new phase in my life, as I started as a PhD student here at Eindhoven. On my first day as a PhD student I was filled with excitement! Yes! I was finally going to start my PhD! Tomorrow... January first was a Sunday, and a nervous one at that.

TEXT & IMAGES Florian Oosterhof

After 5 years of doing my Bachelor and Master at the TU/e, and another couple of months as a Software Engineer, I was about to start this new phase. Little did I know that the first week of January is a silent one at the university. Sure, I knew that no student would be at campus, but I had hoped to meet my new colleagues and start exciting conversations about mathematics!

My advisor, Jan Draisma (I guess some of you will know him), is currently stationed at the University of Bern in Switzerland, while being affiliated with the TU/e for only a small percentage of the time. He obtained a Vici grant for doing research on stabilization in algebraic geometry (say what??). This research is split between Bern and Eindhoven, and I am the first of a batch of new people in Eindhoven to work on this project.

In a typical week I will be reading research papers on topics that touch this project, think about how we can apply this to our research, try to prove some new results using these papers, fall flat on my face because I don't manage, and then report to Jan over Skype.

Yes, the first months of doing a PhD were challenging, especially because my advisor is so far away.

“ Oh, the many times I have been made jealous during our skype calls. ”

Luckily, Jan travels to Eindhoven every couple of months, meaning we can have intensive discussions on our research, make big steps, and finally part with a feeling of having accomplished much in only a short period of time! And the best of this construction is that I get to do the same the other way around! I get to go to Bern for a week or so every few months, and recently I have had my first trip there. During this stay I got acquainted with the University of Bern, and its department of Mathematics.

The University of Bern is one that lies in a part of Bern that is on somewhat higher ground than the rest of the



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city. As Bern is a city of hills, this is not a big surprise, but the building of exact sciences is located on the edge of the campus, facing the lower parts of Bern, which gives a magnificent view of the Swiss Alps! What's more, Jan's room is located on the (b)right side of the building, where he has this exact view every day!

Oh, the many times I have been made jealous during our skype calls, where he showed me yet another sunny day, no clouds, on which the alps would rise above the Bern hills. And now, I have finally seen for myself this lovely view. Jan's room is one of the few in the exact sciences building housing a mathematician, as the Mathematics department is a small one. During this stay we had talks by and with other PhD students and Postdocs in Bern, who all work with Jan on various topics. During these talks I got a view of how wildly different topics can have intricate connections to other topics, such as algebraic geometry, that I could never have imagined.

But of course, such a trip does not only consist of work and mathematics. On Wednesday, the best day of the week, we took a funicular (cliff railway) up one of the hills just south of Bern, the Gurten, where I managed to take some great panoramic shots of Bern and the Swiss Alps. We then decided to have a seat and a beer at a terrace, having a great view over all of Bern.

Upon return to Eindhoven, the trees on campus had grown their green leaves again, the weather started to feel like spring, and I could only think of how my first months of being a PhD student have been hard and somewhat stressful, but mostly exciting, fun and fruitful.

## MY RESEARCH

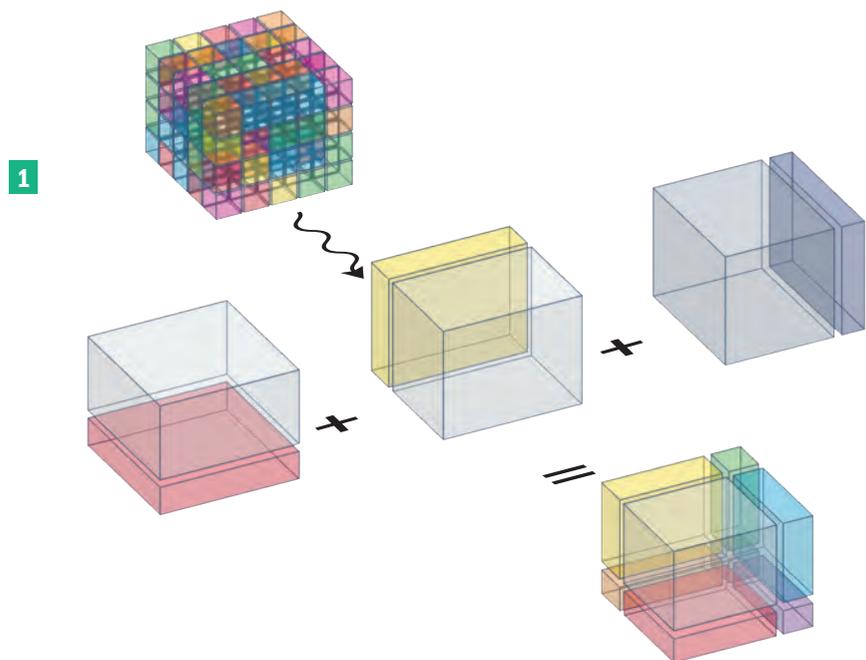
In our research we are looking for ways to transform a multidimensional table of data so that it only contains a limited number of non-zero values, without losing any information. The image shows the prototypical example, with a three-dimensional table; The original table looks quite random, but after transforming it, it is a sum of three tables where only a few slices (sub-tables of one less dimension) are non-zero (the yellow, blue and red parts). Our research looks for ways to detect this kind of symmetry, when a high-dimensional table is such a sum of tables with only a few slices non-zero. This can lead to data reduction (compression) or a better understanding of what the data means.

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*The view across Bern - the life as PhD student also includes traveling to beautiful places*

1

*Florian's work visualized on an example with a three-dimensional table*





# FRATERNITY

## LUSTRUM HELDEN



**W**ie een woordenboek doorleest en op een bepaald moment aankomt bij de letter L zal het al zijn opgevallen dat hier een aantal erg mooie woorden staan. Zo zijn daar bijvoorbeeld *Lieveheersbeestje*, *Lentebok*, *Lomaiiviti*, *Lesotho* en *Limburg* vermeld. Echter, dit stukje gaat over nog iets met een L, namelijk: het lustrum.

**TEXT** Levi Prikken - GELIMBO

Dit heeft niets te maken met de van oorsprong waarschijnlijk uit Azië overgekomen drank waar onder andere de traditionele piraat zo van kan genieten. Het betreft een dubbele betekenis die in het woordenboek wordt beschreven als tijdperk van vijf jaar of feest dat om de vijf jaar gevierd wordt. Het woord vindt zijn oorsprong in het Latijn en was een plechtigheid waarbij men een suovetaurilia bracht. Hierbij werden een varken, schaap en stier geofferd aan Mars. Dit offer werd elke 5 jaar gehouden.

Tegenwoordig worden lustra niet meer gevierd door het offeren van dieren. Op universiteiten en bij daaraan gekoppelde verenigingen is het echter wel gebruikelijk om een periode van 5 jaar te blijven vieren middels een feest. Nadat vorig jaar onze universiteit haar twaalfde lustrum vierde is dit jaar een zeer feestelijk jaar voor ons als leden van GELIMBO. Naast dat onze prachtige vereniging GEWIS dit jaar haar zevende lustrum viert, hebben wij met ons dispuut het tweede lustrum gevierd.

Een mooi moment om terug te kijken naar de helden die ervoor gezorgd hebben dat GELIMBO nu nog steeds bestaat. Het gaat hier over de helden die ons dispuut opgericht hebben en niet Helden, het plaatsje in Limburg dat 1 januari 2010 opgeheven is en nu onderdeel is van de gemeente Peel en Maas. Zoals iedereen weet had Helden ook een eigen dialect. De mooie uitspraak: "Jan Tod, die heet altied de vinger inne vot" zijn we natuurlijk nooit vergeten. Maar genoeg over Helden! Terug naar onze helden van GELIMBO.

Het begon allemaal met de vier Limburgse studenten die vonden dat de Limburgse belangen behartigd moesten worden binnen GEWIS: Kenneth, Mattijn, Rob en Yves. Zij richtten ons mooie dispuut op: GEWIS Ervaart Limburgse Initiatieven Met Bewondering en Ontzag, met als afkorting GELIMBO. De naam alleen al maakte al snel duidelijk wat het doel was, en ze begonnen meteen met het organiseren van de prachtige activiteiten waarvan sommige nog steeds georganiseerd worden door de huidige garde!

De oprichters en de helden die na de oprichters lid werden maar nu niet meer actief zijn, helpen nog vaak bij het organiseren van activiteiten. Tosca regelt bijvoorbeeld altijd dat we een stofschaar tot onze beschikking hebben bij de voorbereidingen voor de dieszitting, die zij zelf ook nog regelmatig ter hand neemt. Yves heeft een super toffe theaterworkshop neergezet waar iedere deelnemer heel enthousiast over was, maar ook intern regelen ze heel veel. Zo hebben we elk jaar een mooi weekend, waar alle jonge en oude GELIMBO leden bij zijn, en hebben we bijna elk jaar een interne cantus met een presidium bestaande uit senaat van GELIMBO.

Kortom zijn we nog steeds erg blij met de helden die ons dispuut gemaakt hebben tot wat we nu zijn, maar natuurlijk ook met iedereen die nu ervoor zorgt dat het zo blijft zoals het is!

Nu gaan we nog afsluiten met nog een laatste quote uit Helden: "Ut vogoltju zingt thuis eegluk mooi, daar es ut thuis."



# PIECE OF CAKE

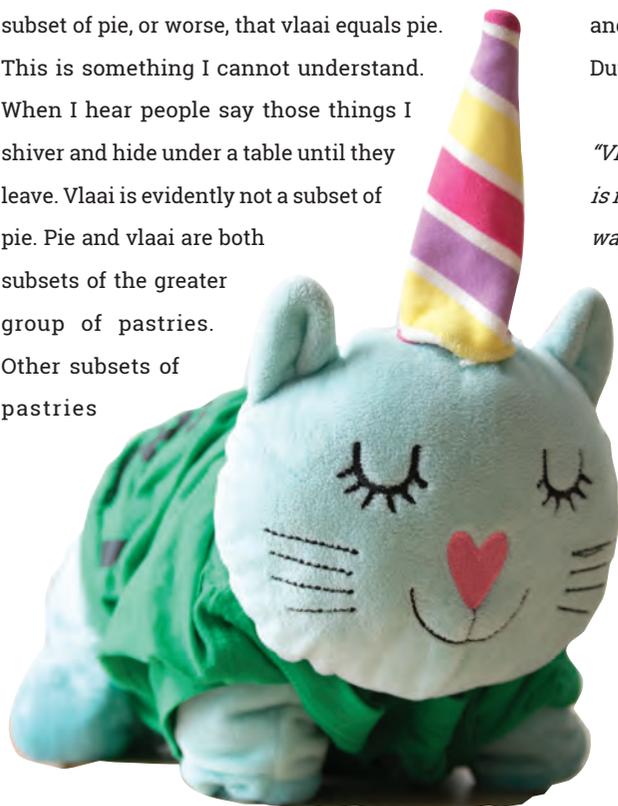
Language can sometimes be hard. Misconceptions are no rare thing when talking to Limburgians or Belgians for example. But I'm talking about a different kind of lingual problem, namely the problem of talking to people who use the wrong definitions for certain words. Whether they do this to annoy or out of ignorance I cannot say, but the fact is that this is a serious problem that needs to be addressed.

TEXT Arend Verbeek (Kroasjele mit Sjoem) - Psi Delta Pie

A great example of these kinds of problems is one about the definitions of different kind of pastries. I've encountered this problem a lot the past months because of my recent activities with first year committee Psi Delta Pie. I am of course talking about the definition of the Dutch word 'vlaai'.

As some of you might know, members of FYC 17-1 are also called 'Vlaaien', a name they adopted to honour my membership. The Vlaaien have organised different games featuring vlaai and they always eat vlaai at their meetings.

However, some people think that vlaai is a subset of pie, or worse, that vlaai equals pie. This is something I cannot understand. When I hear people say those things I shiver and hide under a table until they leave. Vlaai is evidently not a subset of pie. Pie and vlaai are both subsets of the greater group of pastries. Other subsets of pastries



are for example cake, muffins or brownies. I ask you, are cake and pie the same thing? (this is a rhetorical question) No they are not. And neither are pie and vlaai.

Some people might ask: "But what is the difference between pie and vlaai? They look so alike". To those people I say: "You should try a vlaai for once, a real vlaai, one made by a real Limburgian baker, then you'll taste the difference." If anyone doesn't know which vlaai to choose; the vlaai I was named after, Gooseberry vlaai with foam, is a real beauty of pastry.

But there is also a difference in definition between pie and vlaai. The next piece comes directly from the Dutch Wikipedia page for Limburgian vlaai.

*"Vlaai is truly different from pie because the bottom is made from a different kind of dough. Vlaaidough is way more light (or frothy) and has more a resemblance of bread dough."*

There you have it, my argument about why vlaai isn't a subset of pie. So the next time you hear someone say so, please throw a pie in their face. Don't do it with a vlaai though, because that's a waste.

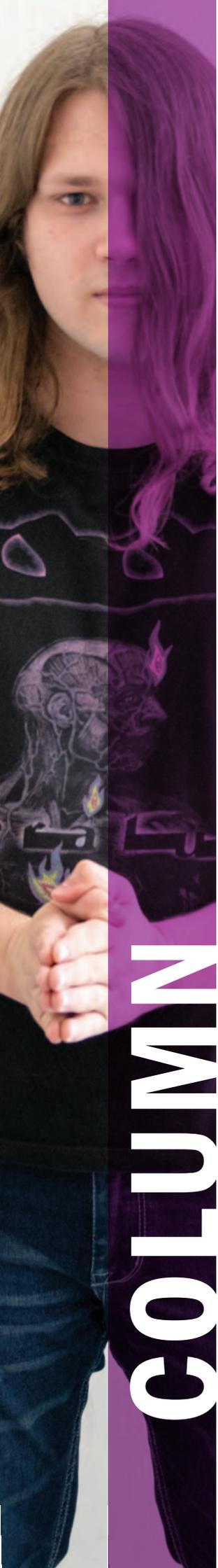
Kind regards,

Kroasjele mit Sjoem

Knight, Poet, Astronaut and Mascot of Psi Delta Pie

COMMITTEE





# TASTING RICH WINE WITH COPS BY THE NORTHERN LIGHTS

*So first things first: Hi everyone!! You may recognize me as that kid who walks around in band tees and is likely to be found around the Wii, Playing games like Super Smash or Mario Kart as I'm in a losing spree cussing at everyone that rubs their victory in my face. And when I'm at home I'm busy with my band of which some people might think that the only stuff we make is trembling-earthquake-ear-bleeding-metal music. Well.. except for a few obvious exceptions, I'm not entirely into metal anymore, and the band I'm in is not as well..*

**TEXT** Lars Verstraelen

As a perky teenage kid I would listen to nothing else but now that I'm twenty I have opened my ears to a lot of other music, that you probably won't expect. These artists even became some of my biggest inspirations when it came to me on a songwriting level. So for you guys I have 4 artists which I adore that you might not expect from me on first glance:

## 1. AMY WINEHOUSE

BAM!! A kick right in the nuts with met... oh wait.. I mean Soul. Yes yes, if there's something that I can listen to on a calm Sunday, it would be Amy.

The melancholic melodies as well as the amazing vocals from the one and only Amy have from moment zero always been a draw-factor to me. I

discovered her work about one and a half years ago, when I was at the local record store and saw Amy Winehouse – Back To Black in the collection. I wanted something else on my CD pile and I just decided "ah fuck it.. I'll just buy it". Note: I did not hear a single note from this CD except for the radio-songs Rehab and Back To Black. I came home and put it in my CD player and I was instantly hooked to the raw but controlled voice of Mrs Winehouse.

I Still don't know the exact definition of "the voice of an old soul" but I know for sure that Amy Winehouse

has one. Her music has been in my life for a while now, and I'm pretty sure that I will fall back on this a lot more (as I'm currently having my shuffled mp3-list on my phone playing

Amy Winehouse – Tears Dry On Their Own).

## 2. AURORA AKSNES

When I let people listen to this, and then tell them that I absolutely adore this Norwegian singer, they're mostly in shock. The reason is pretty obvious: here I am, having long hair, wearing band shirts of bands like Megadeth and Tool, and in the purest contrast I listen to Norwegian Synth Pop.

I first heard about her from friends, stating that it was amazing and so beautiful. They convinced me to see her live in Utrecht with them and I never regretted it. It was music so floaty and so harmonious, I could feel myself almost drift away. Her vocals are so amazing that her vocal chords could as well be harp-strings. Absolutely magnificent.

She has been writing since she was just 10 years old (I began at around 15 so definitely no more experience than her) and her lyrics are very metaphoric but are very good at granting its messages. Endearing and miraculous it is. I'm holding on to this one and you should probably give it a listen too.



All My Demons Greeting Me As A Friend – Aurora is a great recommendation!

### 3. BUDDY RICH

For those of you who don't know Buddy Rich: It is motherfucking Jazz. I've heard statements from more professional musicians in my neighborhood saying that quote on quote: "You should at least respect it as a musician" as if it were some God. These statements were not the reason for me opening my ears to jazz though. The switch to jazz for me was actually never well defined at all. All of a sudden, I just asked the guy from the CD store to order some Buddy Rich for me, as I started hearing his name in pop culture some more (yes it was probably after the release of the movie Whiplash, which is awesome by the way). I ordered Buddy Rich – Giant Steps, got the CD, put it inside the CD slot, and I was beyond describing immediately blown away.

Knowing that the drummer of this orchestra – Buddy Rich himself – had composed all these tracks and was able to have a full studio band play this, was just boggling to me.

Everything was in place, so directed, so magical, so musical, yet so free. And that doesn't even describe his drumming. Holy hell it's otherworldy..

The drummer of my own band and I have unanimously stated that there is literally no drummer as advanced and good as old pal Buddy.

Listening to this made me feel like I was in a 50s style bar all the time, and that to me is just a very happy feeling. For whiskey pleasure: look no further than the smooth jazz of Buddy Rich.

### 4. THE POLICE

Well to me it would be blasphemy to skip over this one.. Since about 3 years, when all of a sudden my view of music grew exponentially, The Police also passed by. But instead of flying away over time they still remain a huge inspiration for me on both a writing as well as a musical level. Albums like Regatta de Blanc and Outlandos D'amour still have a not-eroded meaning to me.

Starting off with Sting: a voice and a player of enormously high level and feeling. His vocal style is

extraordinarily unique. High-pitched but very calm and not at all forced. And his bass playing might be relatively deceptively simple but very good to say the least.

Then we move on to Andy Summers: a hero on the guitar. Once again: deceptively simple, because his playing is so much based on the right grip and "slide of hand" as you might want to call it. I found out that his playing was really refreshing for his time; combining lay back rock with new wave punk and reggae: Frankenmusic, but absolutely brilliant.

This music comes even more to its right with the sheer technical and soulful playing of drummer Stewart Copeland. There are few drummers that I consider at least as good. He makes the drums an instrument at its own; also melodic, pleasing to the ear. I can listen to solo's from this guy and I won't be bored.

Overall: Bow to these!

Soooooo what do I want to say right now..? Well just put it like this: when I was 14/15 I would never ever listen to anything else than metal or hard rock, which was also limited to just a few bands. I can even recall myself saying "I'll hope I'll never like other music".

I could've never been more wrong with that statement. Sticking to just one sort of music is dull, makes your vision on music in general very narrow and also colors your whole musical experience in one color (mostly grey if you don't change it for a long time).

But in order for your musical view to be like a Picasso (yes chaos involved): Try to use a whole pallet of colors! Try to change your interests from Marco Borsato – Martin Garrix to ABBA – ZZ Top! Live life rough and risky when it comes to music, because there's much more out there than that annoying radio in the car or supermarket..

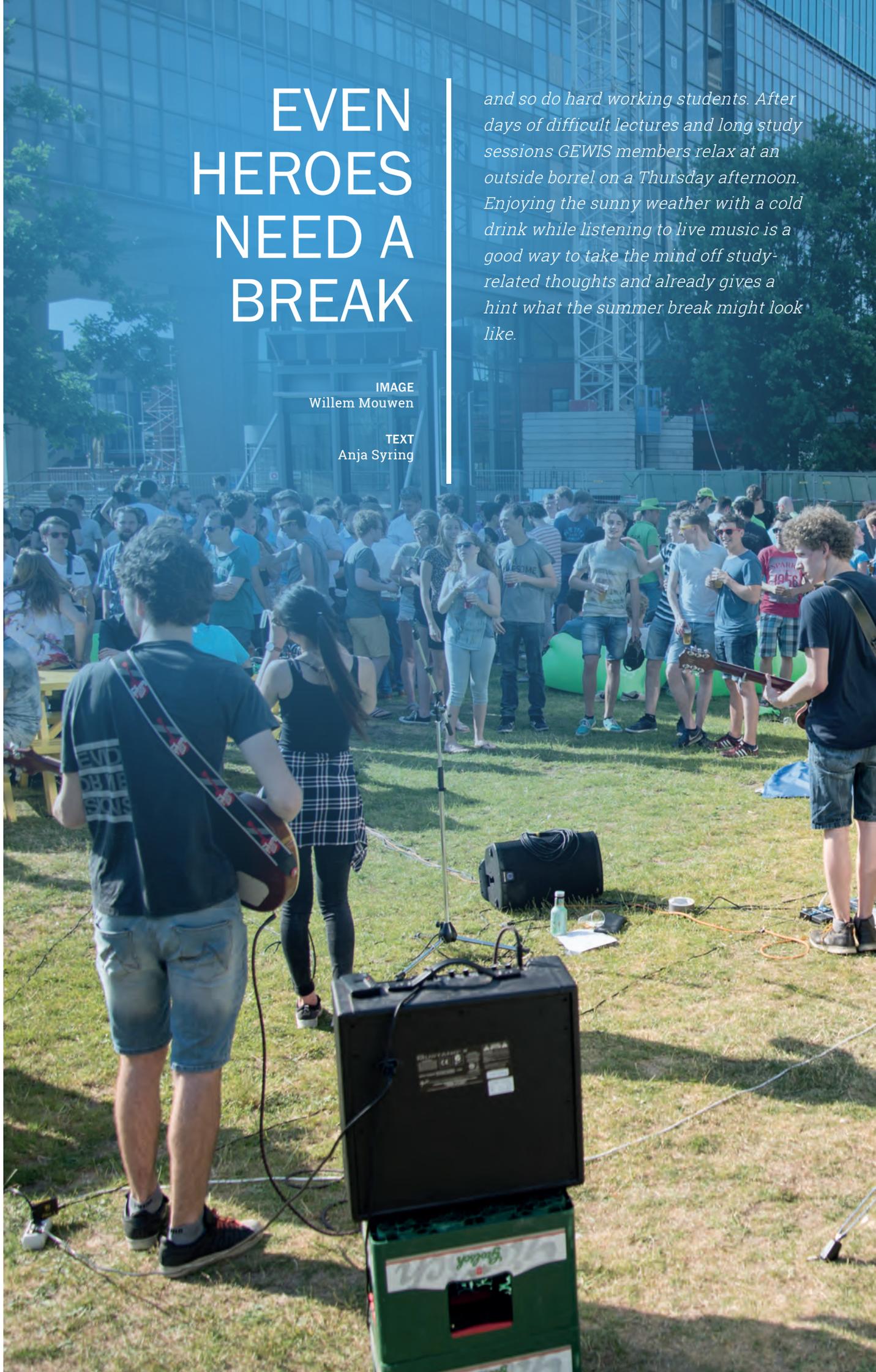


# EVEN HEROES NEED A BREAK

IMAGE  
Willem Mouwen

TEXT  
Anja Syring

*and so do hard working students. After days of difficult lectures and long study sessions GEWIS members relax at an outside borrel on a Thursday afternoon. Enjoying the sunny weather with a cold drink while listening to live music is a good way to take the mind off study-related thoughts and already gives a hint what the summer break might look like.*







# 'SECRET' LAIRS

*If you ask me every teacher, every secretary, every staff member in our department is a hero(ine) and every student a formidable sidekick. In this totally unnecessary metaphor, we all share a 'secret' lair in the MetaForum building.*

**TEXT** Rik Schepens - Department Council

Just as we see with the Avengers, our department is hiring more and more heroes. Unfortunately our university can't just use CGI to create a new lair and though the construction of Atlas is on schedule, we are already having trouble fitting in the space we currently have.

As department council we think that the department has to accommodate enough office space to facilitate a growing number of teachers, so we can educate a growing number of students. While in the meantime we also need to facilitate places for supporting staff, PhD students and of course places for students both for self-study as for planned education like calculus tutoring, SEP or OGO.

This is not the first time this problem suffices. When the university board moved in to the third floor, we also needed to analyse our use of office space and make a plan on how to use it efficiently. In this plan, made by the Housing Committee of our department,

it was even made sure we had some space left to grow and make sure our teachers did not have to grade homework in their batmobile.

Unfortunately the ever expanding M&CS universe grew even quicker than the Housing Committee could expect. So now we face this problem again and a Housing Committee has been formed. By our recommendation Emma van de Vreugde also takes place in this committee to make sure the students are not overlooked.

**“ ... did not have to grade homework in their badmobile. ”**

We hope this committee can once again pull through and come up with a great plan in which everybody gets the space they need. Last time they did a great job and were even able to place those with regular contacts close to one another.

In the meantime the department council, in collaboration with the department board, also argues with the university board about the future of the third floor of the MetaForum. We believe that when Atlas is finished, we should move back in. If we want to keep growing in the amount of students we can educate, we also will need to keep hiring more heroes which need their own place in our 'secret' lair.



# VAN DATA NAAR DATA

**F**eyenoord is kampioen. Helaas. Het is Rotterdam van harte gegund natuurlijk, maar nadat de schaal twee keer bij jullie in Eindhoven is geweest was het op zich wel lekker geweest als de schaal weer naar Amsterdam was gegaan. Als we de laatste vier kampioenen willen opslaan in een tabel kan dat als volgt.

**TEXT** Ton Godtschalk - Capgemini

SEIZOEN	KAMPIOEN	STAD KAMPIOEN
2016/2017	Feyenoord	Rotterdam
2015/2016	PSV	Eindhoven
2014/2015	PSV	Eindhoven
2013/2014	Ajax	Amsterdam

Deze manier van data opslaan is niet erg efficiënt. Want dat PSV uit Eindhoven komt in het seizoen 2014/2015 dat wisten we al van het seizoen 2015/2016. Laat staan dat het overbodig is om tot vier maal toe te herhalen dat Ajax uit Amsterdam komt. Efficiënter zou het zijn om de data in twee tabellen op te slaan.

SEIZOEN	KAMPIOEN
2016/2017	Feyenoord
2015/2016	PSV
2014/2015	PSV
2013/2014	Ajax

CLUB	STAD CLUB
Feyenoord	Rotterdam
PSV	Eindhoven
Ajax	Amsterdam

Dit lijkt allemaal vrij eenvoudig. Het wordt interessanter en complexer wanneer je het hebt over het efficiënt opslaan van grote hoeveelheden data, die vanuit verschillende afdelingen komt. Denk bijvoorbeeld aan een bank, waarbij data van de hypotheekafdeling, klantenafdeling, betaalrekeningafdeling en vele andere afdelingen samen moeten komen om tot een overzicht voor de klant te komen. Bijvoorbeeld om een klantbeeld te tonen of voor zijn financieel jaaroverzicht. Extra

complexiteit hierbij is dat klantdata binnen verschillende afdelingen op verschillende manieren opgeslagen kan zijn, terwijl je toch echt tot één overzicht wil komen voor een en dezelfde klant.

De grote banken binnen Nederland hebben hiervoor een speciaal geïntegreerd data model opgesteld. Eigenschappen van dit data model moeten zijn dat het efficiënt is in opslagruimte en dat het data model consistent is over het geheel. Om tot een dergelijk gestructureerd data model te komen is een enorme uitdaging, waarbij industriestandaarden gebruikt worden om als basis te laten fungeren.

Zelf ben ik al drie jaar bij verschillende banken bezig geweest om dit geïntegreerde data model verder vorm te geven en uit te breiden. Het klinkt niet erg wiskundig, maar in essentie doe ik hier hetzelfde als bij de modelleervakken bij Technische Wiskunde, waarbij je een probleem uit de werkelijkheid vertaalt naar een wiskundig probleem, dit oplost om de oplossing weer terug te vertalen naar een oplossing waar je in de praktijk daadwerkelijk iets mee kan. Nu vertaal ik brondata naar data binnen een geïntegreerd data model, zodat de data klaargezet kan worden om daadwerkelijk de data overzichtelijk voor één klant weer te geven op een klantbeeld of je jaaroverzicht van je bank.

En zo ben ik uiteindelijk dus toch nog wiskundig bezig.





COLUMN

# A QUEST FOR TEA

**B**oard! Is the coffee ready yet? Maybe this is the quote that one hears most often during a board year. However, does one ever hear the quote: 'Board, why has all the tea run out!?' During the 34th board year, all of a sudden we had a tea-tap and thanks to Protagoras, we even own our very own GEWIS-tea box! However, our board is not very good in filling the tea box, and therefore it was time for some old fashioned 'Hero Time' (indeed, I played Shrek a few weeks ago) and go get some tea!

**TEXT** Tim Meeles

Let me first explain why I believed we ran out of tea and why the board did not agree with me. There was absolutely no mint tea and no green tea to be found anywhere within the walls of GEWIS. When I urged the board to do anything about this scandalous fact, they told me there was enough tea in the tea box, we had all sorts of fruit tea, namely. Personally, I do not consider fruit tea as tea, and as the board did not want to do anything about the lack of tea, I would do it myself.

“ When I answered 120, the tone of his voice changed completely. ”

It was not even a week later that my eye fell on the advertisement of the Plus, telling me that all Pickwick tea was discounted to only €1,- per box. For the interested, that is 20 bags of tea for only one EU! I immediately notified the board of this gigantic and wonderful discount and I asked them whether I could get some money from some 'potje' on the balance, such that I could make sure GEWIS had tea again. €134,- further, I was ready to buy some tea.

Without hesitating, I went to the Plus website to order online. However, I was disappointed right at that instant. Instead of getting 134 boxes of tea for €134,- (note, I even ordered some boxes caramelized pear tea

and not just "Sterrenmunt", "Minty Morocco" and all sorts of green tea), I only got 5 boxes of tea for €5,- and for the other 129, I had to pay the full price. At that moment, I was completely insecure of what happened to me, so I called the customer service of the Plus.

This lady on the phone was very kind to me, but her message can be called unfortunate for the least. She told me that all the Plus discounts are limited to 5 products of a kind per customer. Honestly, I should say the systems at the Plus work better than at our university sometimes. They adapt the systems to the rules, we sometimes adapt the rules because the systems cannot handle it! Luckily, there was one straw that I could reach out to. This kind lady told me that I could make an agreement with the supermarket manager to get me some more boxes!

And there I was, after calling the customer service, I called my very Plus supermarket at the Woenselsestraat to make an agreement to buy 120 boxes of tea for only €120,-. I asked the supermarket manager whether we could make an accord, and he told me this was possible. When he asked me how many boxes I wanted and when I answered 120, the tone of his voice changed completely. He mentioned that he expected me to say 10 or at



maximum 20; he could definitely not do this for me; maximum was five. A bit disappointed I decided to search for more Plus supermarkets in Eindhoven. Both surprised and happy, I found out there was (only) one other Plus Supermarket in Eindhoven!

It was then that I realized I had to change my strategy. Asking for 120 boxes would probably not work, again, so then I did the math and I found out I could better ask for twice 60 boxes. When calling the Supermarket manager at the Dirigentplein, I simultaneously agreed with Rik Rutjens, green tea lover and neighbour of this Plus supermarket, that he would collect the boxes of tea if this would succeed! And miracles have not yet left the world, this supermarket manager agreed, without any hassle, to give me the discount for 50 boxes. The only side note: I had to send him a mail that afternoon, concerning the exact division of the boxes of tea, such that he could order some extra at the large Plus distribution centre. When asking for 60 boxes instead of the agreed 50, he told me that he would not make a problem of only 10 extra boxes. So, easily said, easily done, and next Saturday we could collect all the boxes, they would even be put in a large cardboard box! Maybe the same would be possible at my Plus?

And yes, I called my supermarket manager again, asking for 60 boxes instead of 120, and offering him that I would send him a mail such that he could order some extra boxes. His reaction was simple, he hang up. He simply hang up! That was the moment Leroy (some credits to the board here) and I made a war plan for this Plus supermarket. Namely, the other manager told me when the delivery was done, so Leroy and I would go to the Plus at the Woenselsestraat straight after that and buy all the boxes of tea that we could find in this shop.

Friday morning, the 7th of April, we went to the Plus, and indeed, we bought all the tea that we could find (or at least the tea that

I call tea)! Only problem, we were only allowed to buy 5 boxes per person with the discount. When we arrived at the cash register, the cashier already called my grand friend, the supermarket manager, because she saw us coming with around 40 boxes of tea; that meant trouble! But Leroy and I found a solution: I would simply give everybody in the queue 5 euros and ask them whether they wanted to buy 5 boxes of tea for us. And apparently, the Dutch are an amazingly kind people, as most of the other customers helped us! Only problem, we needed all their receipts! This was a small challenge, compared to the rest, so we easily conquered this. We left the Plus supermarket with nearly 40 boxes of tea, leaving an angry cashier and supermarket manager, and of course empty shelves. They deserved it!

To make this quest for tea even more heroic, we decided that any GEWIS member should be able to experience the Hero Time and thus go on a quest for tea! Therefore, on a quiet Saturday, we hid all the boxes of tea throughout the GEWIS room! It was for any member to search the boxes and enjoy amazing teas! Furthermore, it was very close to Easter, so we decided that all our members should be given the opportunity to practise for searching eggs! Apparently, the board did not approve, I wonder why...

Conclusion of this story: some Plus supermarket managers are amazing people, some are angry and every morning I enjoy a well-deserved cup of (tasty) tea and I hope you will too!





# KIDNAP

*Kidnap tells the story of Karla Dyson, who on a summer day is in the local park together with her son Frankie to blow off some steam and strengthen their mother-son bond. However disaster strikes when Frankie is kidnapped from under everyone's noses. Before all hope is lost, Karla is able to catch a glimpse of a man and a women forcing Frankie into their car. The kidnapers quickly make their escape. But what they don't know is that they have chosen the wrong person to mess with as Karla will stop at nothing to recover her lost son.*

TEXT Arjen Sijtsma



If this small synopsis got you excited please curb your enthusiasm as this pretty much describes the entire movie. Right from the start it is clear that the movie itself is as generic as the title would suggest. The first act is a very obvious attempt at establishing the mother-son bond such that we as an audience actually care about what happens to Frankie. This is executed so poorly however that it almost reaches an adverse effect and kind of makes you wish Frankie gets kidnapped. When this finally does happen the movie turns into a weird action movie that goes on for what feels like an eternity. When the movie finally reaches its conclusion it does so in an incredibly predicting

manner and throughout the film there are no interesting twists to the story.

“ ... the writers felt it necessary for Karla to spell out what is happening, ”

Most of the action in the movie comes from a very long chase scene in the middle of the film. This sequence is, however, not very riveting since it is very obvious Karla will eventually catch up with the kidnapers because otherwise the movie would just end then and there. During these scenes the writers felt it necessary for Karla to spell out what is happening, often she would scream “They've got my baby” or “My son is in that car”. It's about as stupid as it sounds and these are just a few examples. As much as Karla cares about her son, as little does she seem to care about others, while chasing her kidnapers she causes many traffic accidents, for instance, when she is backing up on a highway where people are driving at 100 km/h. She must have caused the death or at the very least severe injury of many innocent people, however everyone seems to forget this when everyone calls her a ‘true American hero’ after she, spoiler warning, saves her son from the kidnapers.

Kidnap is directed by Luis Prieto who makes a lot of



weird creative decisions throughout. The chase sequences, for instance, are intercut with several aerial views of the two cars driving along the highway. These shots often go on for what feels like several minutes in what appears to be an attempt to pad the movie's runtime. This was obviously necessary since the movie just barely exceeds Hollywood's self-imposed 90-minute minimum, however it still manages to outstay its welcome and bores halfway through. Furthermore, Prieto never tries to make the movie visually interesting and hardly puts any focus on the emotional side of things as the only emotion Karla shows is anger, she never seems desperate or afraid.

“ These shots often go on for what feels like several minutes. ”

Halle Berry, the actress portraying Karla, also hardly appears to put in any effort. *Kidnap* by far marks her worst performance of those I've seen, and if this is representative of her future work, then I really hope her role in the new *Kingsman* movie is limited to only a few scenes. However, considering her multiple Golden Globes nominations and even an Academy Award win, I really think that her terrible performance has more to do with the source material not giving her anything to really work with. Halle Berry, for me, is an actress

that is best suited in the supporting category while in *Kidnap* she is on her own monologuing most of the time.

<i>Release date</i>	September 2017
<i>Directed by</i>	Luis Prieto
<i>Written by</i>	Knate Lee
<i>Genre</i>	Thriller
<i>Running time</i>	95 minutes
<i>Budget</i>	\$21 million
<i>Cast</i>	Halle Berry Sage Correa Chris McGinn ...

*Kidnap* is by far the worst movie of the year up until now. The acting is terrible, the story is bland and predictable, and nothing interesting is happening on the screen. I cannot recommend this movie to anyone, however, if you really want to know the story of Karla and Frankie, then watch the trailer instead and save yourself some 90 costly minutes of your life.





# BAD MAN VS SUPER MEAN

**A**bout two years ago, my brother and I saw a poster of the movie *Batman vs Superman* being announced. I turned to him and asked me whether we could see it for his birthday. He told me he liked that idea, as he is into superhero movies.

**TEXT** Eline Pasch

A few weeks later he asked me who I thought was going to win; Batman or Superman. I told him that I would obviously choose Superman and looked at him like he was stupid for asking. As he was not as sure as I was he asked why it was so obvious for me. I told him that the superheroes always win from the villains, so it would probably not be different this time.

This confused him, so after a few seconds of silence he started laughing, "wait, you think Batman is a villain?". Now it was my time to be confused. I admitted that I thought that he was, still thinking that my brother was making some sort of joke by letting me believe batman was a superhero.

**“ Now it was time for me to be confused. ”**

This discussion went on for a few minutes, until I realized that he was not joking at all. At that moment I knew that he was in the right, as he had seen a lot of superhero movies before while I had never seen a batman movie. So I apologized to him and explained why I thought Batman was a villain.

I started with stating that I had believed this since I was a kid. I had heard the name Batman, but had never seen it on paper or anything. So I thought it was written like bad-man. When I learned what the word bad meant in the English language, it became clear to me that bad man meant that it was an evil person. Later on I learned that it was written as batman, but at that point I just thought that was a pun.

When I found out what the word bat meant, I understood that Batman had something to do with bats. But this still did not let me doubt about the nature of the character. I related bats to the dark and the unknown. Both traits that would be used to describe a villain instead of a superhero.

Even though my brother understood my arguments, we never went to the "Batman vs Superman" movie anymore. Instead I decided to watch a Batman movie by myself. I turned on my computer and searched for a good movie on Netflix. That day I learned a lot about Bruce Wayne and Gotham City.

I even started to like the whole superhero-movie thing. I know that there are probably still some flaws in what I think about certain heroes and villains, but I learned that my initial thoughts did not make sense at all.

Fortunately, I took the chance to learn from my mistakes, but prejudices like this happen every day. Not only about superheroes, but also about real people, and that worries me.

Stories are often spread, based on single events. When somebody does something wrong once, a rumor can be going on for way too long. This causes people to judge somebody without knowing the entire story of someone.

I did some research on how this type of behavior can be prevented. Even though all that came up was extremely logical, I am still going to write it down. Because it might help to bring some positive vibes between people.

Well, the first thing I found out is that you should look for basic goodness. Many people are focusing on the negative aspects of things going around. People have the natural urge to look for things they do better than other. Therefore it is logical to dislike somebody based on a story you once heard about this person. Those stories are often only focusing on the bad side of a person, just because the people telling them wants to feel better about him- or herself. But once you are aware of the negative nature all of us have, you might be able to control negative thoughts based on rumors.

“ ...letting me believe batman was a superhero. ”

Also, that you should give people the benefit of the doubt. Even though you might hear a story about somebody who solved something in a “wrong” way, he might never have intended to do somebody wrong. Of course, all people are different, therefore they solve things in different ways. But the fact that the stuff you hear about somebody sounds wrong does not mean that this person did not intend to do something good. He or she might really have wanted to help, but just did it in a different way. Therefore it is important to assume that people did not want to hurt others.

One more thing is found, was something that my mother already told me when I was younger. She always told me I should not judge others when I was making mistakes too. It is easy to

state what others do wrong, but it is much harder to change your own behavior. It is, of course, not possible to never judge anybody, but looking at yourself before judging somebody might help to prevent unnecessary arguments between people.

All of this tips might seem useless, but what I am trying to say is not. I really think that the world would be a little bit better when everybody would try not to judge before knowing somebody's intentions. And to first step into changing our behavior is to become aware of how we act.

I, myself, of course, also make misjudgments about people based on stories. And I definitely do not want to say that you should be friendly to everybody, even when they have hurt somebody you really care about. It is totally fine to decide about who you want to let close to you and who you want to keep distant. But I do think we should give people a chance and not judge them on a one sided view we created about them.

Just because somebody is a bad guy in stories of others, does not mean you should not give them the opportunity to show them the kind of hero they can be. Try not to assume somebody is a bad man or super mean based on stories that you heard about this person.





# THE HERO CAKE

*It was Tuesday evening, I was sitting on my couch, already in my pyjamas, watching some movie. Suddenly an email popped up on my screen. It was an email from Celine with the agenda for the GETAART meeting of the next day. As a good committee member I stopped my movie to take a quick look at the agenda. At first I noticed nothing weird about it, until I realised that I saw my name twice. Once after 'present' and another time after 'bakes pie'. Completely mindfucked I looked at my screen. After a quarter of an hour I realised I had to do something; I had to bake a pie. There's no way I could come to the meeting without bringing anything.*

**TEXT** Laura Kuntze - GETAART

I looked at my watch and realised it was five minutes to ten. Even if there was a supermarket still opened it would have been very hard to make it there in time. There was nothing else I could do than fantasise with the ingredients that I could find around my house.

“ ... I knew I messed up the quantities. ”

I opened all drawers and kitchen closets and found several chocolate bars (one of them was all the way from Austria), a pack of flour, several already opened packs of butter, 2 eggs, a lot of sugar and some vanilla sugar.

With the butter, the flour, the eggs, the sugar and the vanilla sugar I made a cake batter. To make it special I chopped one of the chocolate bars into pieces and mixed it with the rest. While I was running around for ingredients and mixing them, several house members came by looking very weird at me and asking me why I was baking in the middle of the night. I mumbled something like 'just for fun' and continued making my very special cake. Next, I put it in the oven as one would do with a normal cake. I had no idea what would come out of the oven after an hour, because I knew I messed up the quantities; for a cake you normally would need at least 5 eggs.



While the cake was in the oven I was thinking that if I took the cake like this, it would not be special at all and it might not even be nice. What if the committee immediately realises that I forgot my task as pie baker and that I rushed something together. I wouldn't want that at all. So I looked at all my different chocolate bars. For example, there was a dark chocolate bar from

the AH house brand and a Milka bar with bubbles and caramel, which I got from my parents after they went skiing in Austria. Impulsively I started to chop the bars into pieces. I threw all the pieces in a bowl and started to melt them au bain-marie. At first it looked horrible and I almost lost my hope for a good pie, but then, with the help of one drop of milk, it became a smooth chocolate sauce.

“ ... asking me why I was baking in the middle of the night. ”

When I pulled the cake out of the oven, I put the chocolate sauce all over the cake. Quite satisfied I looked at my pie and although I had no idea what it would taste like, I allowed myself to get some sleep.

The next day at the meeting I nervously cut the pie into pieces. I told the committee that I completely fantasized and that I had no idea what it would taste like. The silence after everyone took their first bite was horrible and I almost thought everyone would spit it out. But nothing seemed less true. Everyone loved it, and yes, it was delicious. They asked me how I made it and what the recipe was, but I told them that I didn't know and that I could never make this pie again. They were disappointed about that, but called my pie the hero cake, because it was so delicious, yet made so last minute.



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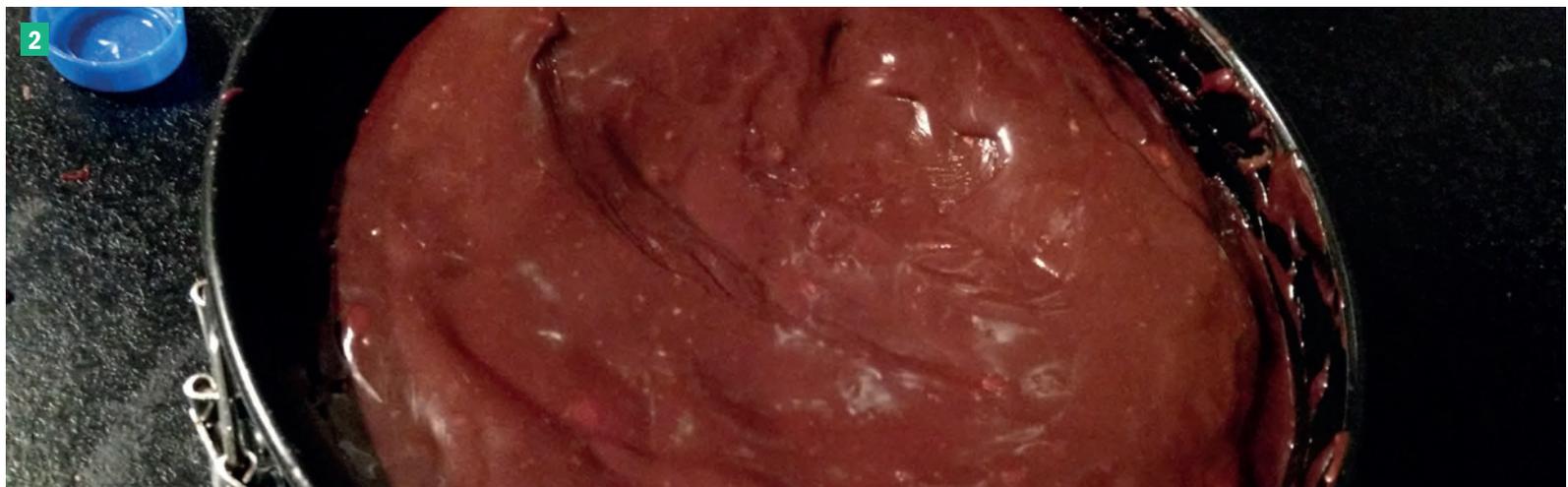
*Freshly baked cake right out of the oven*

1

*The finished cake, waiting to be cut, eaten and enjoyed*

2

*Glazed in molten chocolate*



*Infimum: Strange or funny quotations from a teacher, a student or faculty member.  
Here you can find infima sent to the Supremum committee. [inf.gewis.nl](http://inf.gewis.nl)*

**Vinz:** "Ik moet echt een turfbord bijhouden hoeveel mensen er op mijn bed worden verkracht."

**Tobin:** "Ik heb niks van mijn lichaamsdelen in haar lichaamsholtes gestopt."

**Wietske:** "Is het dé jus?"

**Vinz:** "Het is de jus."

**Vinz:** "Ik heb hier 5 shotglaasjes: voor normale, dood of extreme dood."

**Ingmar:** "Tim als je je tijd nu besteedt aan het zoeken van je broodtrommel, dan kunnen wij ook gewoon weer allemaal aan het werk."

**Tim:** "Is die weer verstopt?"

**Ingmar:** "Jazerker"

**Saskia:** "Ik ben niet zo goed in leven, ik moet het nog herkansen"

**Bram:** "Willem wilde in mijn commissie GEAARD, maar dat mag niet want hij is anders geaard."

**Tobin:** "Hoe heet het als je op helikopters en op mannen valt? Een helicoockter?"

**Tobin:** "Kom op Vinz stop hem in mijn gat!"

**Sjaars Tom:** "Oh nee, nu wordt mijn bier nat."

**Gijs:** "Vinz waar is je horloge?"

**Vinz wijzend naar zijn pols:** "Hier!"

**Gijs:** "Oh."

**Ruben van Niekerk:** "Ik vond het wel grappig dat we dat ding er de hele tijd in probeerde te stoppen, tot we ineens de gleuf zagen."

**Wesley tijdens AV:** "Hier wordt mijn penis zo slap van."

**Bor:** "Was die dat dan niet al?"

**Wesley tegen Ingmar:** "Niet zo hard trekken."

**Ingmar:** "Mag het wel zachtjes?"

**Merel E:** "Ik heb nog nooit gehad dat er niet iemand bij mij bleef slapen."

**Simon:** "Waar is Wesley eigenlijk, ik wil hem!"

**Sanne:** "Ik geil gewoon heel erg op de witbuikzeearend."

**Ruben van Niekerk:** "Ik vond het wel grappig dat we dat ding er de hele tijd in probeerde te stoppen, tot we ineens de gleuf zagen."

**Ysabelle over ibuprofen:** "Als je niet kan slikken is dat zo moeilijk te slikken."

**Arend V:** "Je bent geen kip Bobby!"

**Thomas D:** "Als je geen kinderen hebt kunnen ze ook niet doodgaan."

**Fatuma:** "Wow, Willem jij gaat echt diep, man."

**Bouke:** "Ja jammer dat hij homo is hé."

**Ilse:** "Jaaaa, ik pak een wrap courgette, want dat rijmt!"

**Celine S:** "Doctor who? Doctor hoedje"

**Vinz B gebruikt Deo:** "Aaah, lekker spuiten, heerlijk!"

**Rick:** "De vraag is: kan een vrouw iemand neuken?"

**Rick:** "Bij schapen neuken... Ik neem aan dat je de gevende partij bent."

**Sjaars Rick:** "Patrieeeees! Wil je mn piemel zien?"

**Vinz ruikt aan bordstift:** "Minder sterk dan de wodka."

**Bart:** "Ik wil best wel een keer de lul van Vinz in m'n mond."

**Ysabelle over Wer bisto:** "Tuurlijk is het weer Duits!"

**Kutjeroen:** "Ik zat vandaag nog tijdens mijn tentamen dit spel te spelen, ja het was open boek, open alles, dus dat kon gewoon."

**Wout d R:** "Everyone can do Data Science!"

*Puck heeft een vriendin Inge meegenomen die in gesprek is met Jos.*

**Inge:** "Heb je wel eens een Zeeuw ontmoet?"

**Jos:** "Euh..., ik kom zelf uit Zeeuws-Vlaanderen..."

**Inge:** "Nee, uit het echt Nederlandse deel van Zeeland!"

**Jeffrey M in de Hizmet:** "Een kapsalon zonder sambal met sambal graag"

**Sander:** "Als je wanhopig bent, ben je niet pansexueel."

**Sjaars Rick:** "Nee, Tobin heeft hem er gewoon ingestoken."

**Thomas van den D:** "Ik had m'n usb-stick geformatteerd en toen was het geen usb-stick meer."

**Dante:** "Ik vind het niet erg als ze hard zijn."

**Wietske:** "Jij sloeg mijn dildo."

**Leroy, terwijl hij nog 5 uur bestuur is:** "Geloof me, GEWIS kan naar de kut gaan... Vanaf morgen."

**Jeroen:** "Niekie, weet jij waarom er gisteren bij mij opgewaardeerd is?"

**Niekie:** "Gisteren? Nee, dat is niet mijn jaar."

**Sako A. in La Route krijgt een fles bubblegum shot in zijn handen:** "Oh dit is FOKKING smerig, FOKKING smerig!"

*\*en neemt vervolgens een grote teug.\**

**Simon:** "Ik heb een heel vredig zieltje!"

**Wesley:** "Pfff, zelfs Satan vroeg of je het bonnetje nog had."

**Iemand zegt:** "De penopauze, das echt een ding. Zoek maar op."

**Amber M leest voor van Wikipedia:** "De penopauze is een periode van emotionele instabiliteit tijdens het leven van de man. Is dat niet altijd?"

*Over iets wat waarschijnlijk in een tentamen komt de dag erna.*

**Emma:** "Refuted klinkt als een soort gefrituurd fruit ofzo."

**Ilse:** "Ik denk dat anale seks nog chiller is dan analyse."

**Ysabelle vd L:** "Mijn stem is dood, ik heb echt veel te veel chips op"

**Emma:** "Wes, stop met spuiten."

**Bor:** "Dat zei je moeder gisteren ook."

**Ysabelle:** "We hebben mensen nodig, en dan moet nou net Rick komen..."

**Romy:** "Het is wel mijn droom om dood te gaan aan te veel pizza eten."

## WINFIMUM

The Winfimum is chosen by the editors as the winning, most funny, infimum.

**Romy:** "Het is wel mijn droom om dood te gaan aan te veel pizza eten."

Sent in by: Ysabelle van der Linden

*Tijdens 30 seconds*

**Tom:** "Geen nachtmerrie."

Tim: "Een dagmerrie?"





# STUDENT RECIPES

## KIDNEY BEAN BURGERS

**A** warm and sunny day, no assignments to worry about, a cold drink in my hand and the smell of BBQ in the air - for me this describes a perfect summer evening. As soon as the the days get warmer I can not wait for the first BBQ party to happen. My excitement increases even more if burgers are on the menu - fresh, juicy burgers served directly from the smokey BBQ. But after last summer I decided to become vegetarian and although it has a lot of advantages for me, for a while I was afraid I will be missing out on my beloved burgers.

TEXT & PHOTOS Anja Syring

### INGREDIENTS (2 BURGERS)

- » 2 hamburger buns

### FOR THE PATTY

- » 1 can of kidney beans
- » 1 onion
- » 1 garlic
- » 50 g flour
- » (fresh) parsley
- » Salt and pepper, to taste
- » Oil

### TOPPINGS:

- » 2 slices of cheese
- » 2 pickles
- » 1 tomato
- » 2 lettuce leaves
- » BBQ sauce
- » anything you enjoy on your burger

When I first craved a burger after I became a vegetarian I made the horrible mistake of going to my local supermarket and buying one of these pre made veggie burgers. My experience was more than disappointing, instead of a tasty burger that is crisp on the outside and juicy on the inside I had to bite into something that felt like eating tasteless mashed potato in patty form and throwing it on a BBQ did not help either.

After this disaster I was on a quest for a tasty vegetarian burger and after hours of scrolling through pinterest and watching several YouTubers I finally found a recipe for a burger I enjoyed. It is made from kidney beans, can be prepared quickly, and does not need a lot of fancy ingredients.

For all the vegetarians craving a burger, for all meat-eaters that want to try new things and for everybody that wants to prevent their vegetarian friends from sadly eating only salads and bread at your BBQ parties, I am gonna share this amazing recipe with you.

### THE RECIPE

1. Drain the liquid from the beans and put them in a big bowl.
2. Finely chop the onion, garlic and parsley.
3. Add the chopped ingredients to the beans, together with the flour, salt and pepper.
4. Mash everything together with a fork or put everything in the blender. I personally recommend using the fork since I like having small pieces of beans and onions in the patty itself. On top of that it is a good way to release frustration and aggressions that might have built up during the last exam period.
5. When everything is mashed up properly, let it rest in the fridge for 30 minutes. So far I have never noticed a difference between the mixture before and after the resting, but the original recipe required it and



I'd rather be safe than sorry. The spare time can be used for the preparation of the burger bread and toppings, cleaning the used utensils, dancing in the kitchen, a power nap or a round of beer pong (remember this is a student recipe).

6. Take the bean mixture out of the fridge and form two patties out of them.

7. Grill the burgers on the BBQ. Make sure the BBQ or the surface of the burger is oiled, otherwise your burger might stick to the BBQ and break while flipping. You can of course also just fry the patties in a pan or bake them in the oven.

8. Put the patty on the hamburger bun and add the toppings.

9. Enjoy your awesomazing burgers!

I especially like this recipe because it does not require a lot of preparation and you can easily adjust it to your taste. Since I am not a big fan of these soft and sweet hamburger buns I just use regular buns from the bakery. But there are many more options like going gluten free with a 'lettuce-bun', cutting it up and putting it into a wrap or eating it together with a salad - there are no limits for your creativity.

Same holds for the seasoning of the patty and the toppings: replace the parsley with some oregano or basil to make an italian style burger and top it off with some mozzarella, sundried tomato and a bit of pesto or add some jalapenos or a few drops of hot sauce to give the recipe a spicy touch. And even though all these variations sound very tasty the truth is that I usually stand in front of my fridge and see what I have left to throw on the burger. In this sense it is a perfect student recipe because you can make the most out of the things in your fridge.





# IGLOO BOY IN NETHERLANDS

*I'm a Finnish computer science student doing my Erasmus here in Eindhoven and I would like to tell you little bit about my experiences. The months I've spent here have been truly unforgettable. It's amazing how many adventures, how many awesome new friends and how many sleepless nights spent coding can fit in one 5 month period.*

**TEXT** Ville Kapanen

When selecting a destination for my Erasmus studies, The Netherlands was actually quite an easy choice for many reasons. To begin with, I wanted to go somewhere that's a good starting point for travelling. From Finland you can basically take a ship to Sweden or Estonia or pay a lot for plane tickets. Compared to that, it's quite nice to take a cheap bus, train or plane and go almost anywhere in Central Europe. However, you don't really even need to go anywhere other than The Netherlands. As The Netherlands is the home of hardstyle, I could fill all the weekends in my calendar with festivals. Other than travelling and festivals, Dutch people were rumored to speak especially good English, which seems to be true and definitely a huge plus. After easy the selection of the country I was faced with a bit harder choice between TU/e and the TU Delft. Luckily I had friends which had visited both universities and after short discussion I got quite confident that Eindhoven should have as good education but a better balance between studies and beer.

When I first arrived in Eindhoven, I was surprised by the intensity of the traffic. And not because of the cars but because of the bikes. I was aware that the Netherlands is a biking country, but I didn't expect it at this scale. During the first week I was constantly afraid of getting hit by bike whenever I left my apartment. It also took me around two weeks to figure out that the building near the train station, which looks like an entrance to the metro station, is actually a bicycle parking facility. When I finally bought a bike after a few weeks, I felt like a local instead of a tourist

for the first time. When I had to repair my bike on that same day, I learned that it's not always easy to try to be Dutch.

**“ ... a better balance between studies and beer. ”**

Academically, I was expecting quite a similar level and workload compared to Finland. This seemed to be quite true. Of course there are easy and hard courses both in Finland and Eindhoven, but generally the level is very similar. The biggest difference I have found is probably the amount of group projects. Here it seems like almost everything, excluding exams, is done in groups, while in my home university we mostly have individual projects. I guess that both ways have their pros and cons, but at least this has been great way to get to know more Dutch people.

Meeting Dutch people actually is a great transition to the topic that is something that really blew my mind. And that would be GEWIS. In Finland I spent two years on the board of our study association, and I have always been very curious to see how student culture is in other countries. I have been fortunate to visit other associations in Norway and Sweden where things are managed in very similar way to Finland. But when I try to ask other European students how things are in their University, the usual answer is that they don't have any associations or they organize very few

activities. When I came here and saw what GEWIS is doing, I was amazed how similar things can be, even though there definitely isn't much communication between associations in Finland and Netherlands.

So let's talk little bit more about GEWIS. Integrating international students to your association is not usually an easy task, so it's quite cool that I really feel at home when I arrive on the 3rd floor of the MetaForum. Even cooler is that I could actually join a committee and really be part of an association even though I only spend few months here. Being part of SCIFI was really a fun experience and it was a very good way to get to know more Dutch people. I will definitely remember the fun I had during borrels and other activities of GEWIS for a long time.

If you are reading this article, you probably already know how awesome GEWIS is, so I guess it would be more interesting to hear how Erasmus students actually spend their time in the Netherlands. As I have tried to spend time in GEWIS getting to know local people, international students always end up spending lot of time with other international students. When studies are not stressing too much, a basic week of Erasmus students consists of a few dinners or parties at student flats in the Cederlaan, Marconilaan or Aurora. Stratumseind also almost definitely has it's place in the weekly schedule. During the weekends there is time to visit other Dutch cities, go to festivals or catch up with the studies ignored during the week while visiting all the parties and activities.

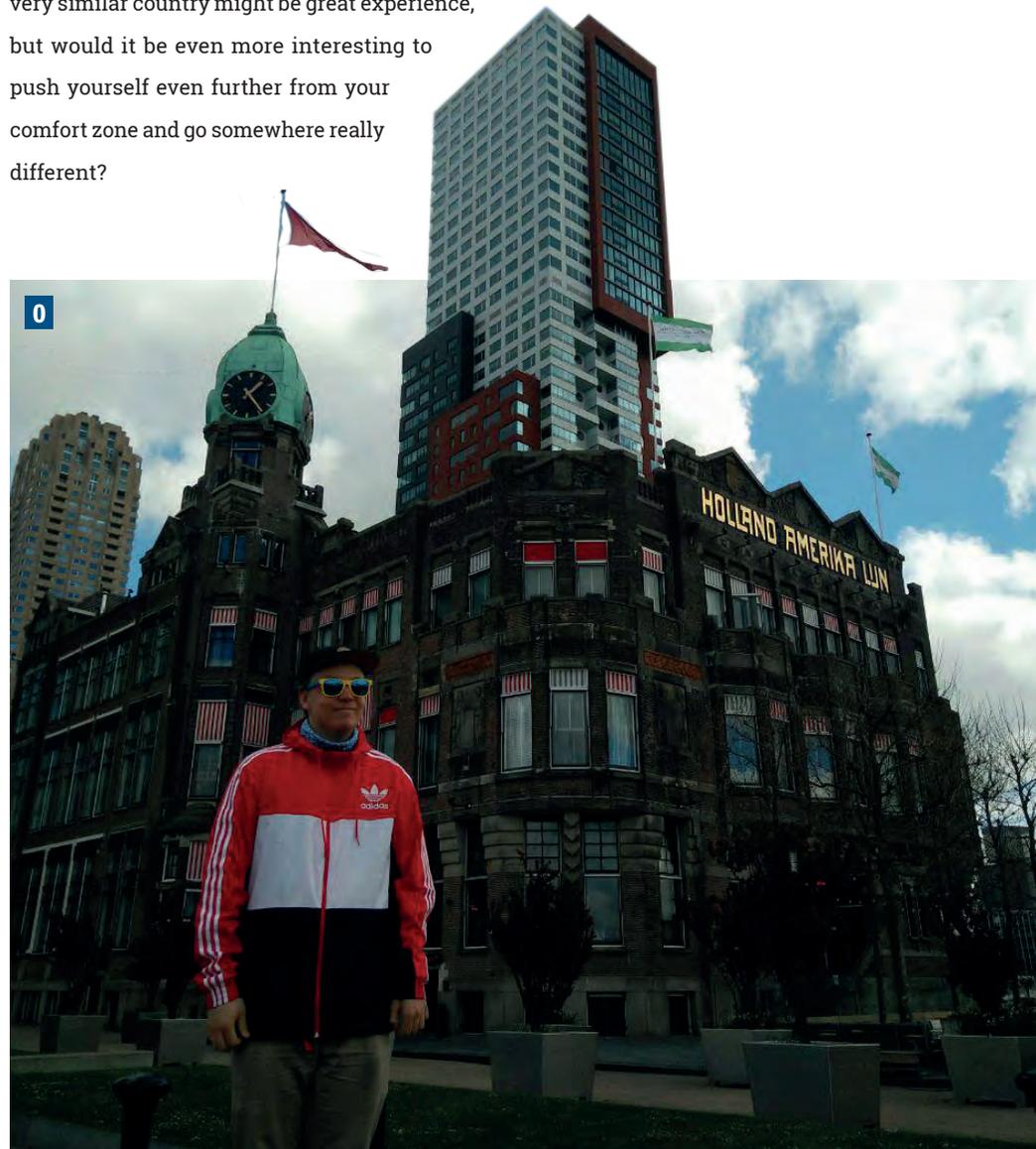
At the moment of writing, I have visited around five Dutch cities. At first I thought that every Dutch city would be the same thing all over again, but there has actually been a surprising amount of variety and I have liked them all. To mention few, I really liked Breda, as I was not expecting anything from it but it seems to be a very chill small city. Rotterdam probably is opposite of it with tall buildings and very dense city center. I also have learned to like Amsterdam way more, as I finally had enough time there to realize that there are parts without thousands of tourists.

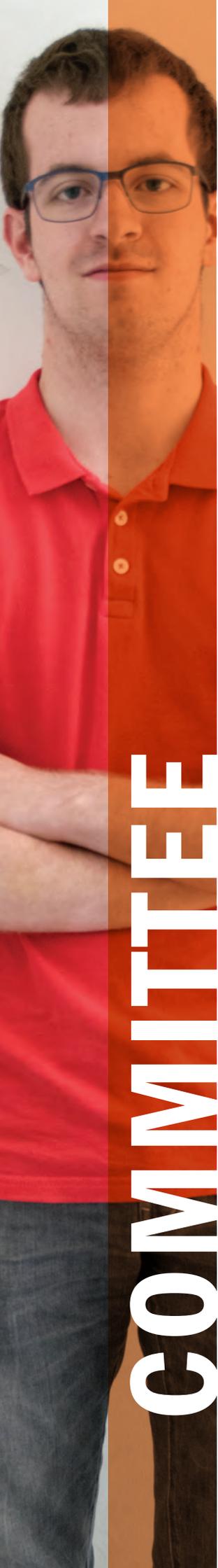
And how have the festivals been? I would say quite insane. I have never seen anything like this in Finland. Most of events I have been here started around 21:00 and the last songs are played around seven in the morning. Through this ten hour period everyone is dancing like crazy and having time of their life. I also have to mention how well these events are organized. Stages and light shows are always mind-blowing, drinks are available near stages and everything just works.

So in conclusion, I have had a great time in the Netherlands, and I'm definitely considering the possibility to work here after I finish my studies. In the end, life in the Netherlands is quite similar to life in Finland. This is also something I would consider if you are planning to go study abroad. Studying in a very similar country might be great experience, but would it be even more interesting to push yourself even further from your comfort zone and go somewhere really different?

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*Ville on one of his journeys: Here in front of a hotel in New York*





# PAUL KRUGER, FOLK HERO OR GUARDIAN OF AN UNJUST CAUSE?

*As Saffa we would like to tell you more about South Africa and the discoveries we make about this country. The theme 'heroes' is ideal for this, since South Africa has given birth to numerous famous people, which might be considered heroes, like Nelson Mandela (first black president of South Africa) and Desmond Tutu (first black Archbishop). However, South Africa has a dark history of slavery, several civil wars called the Boer wars and Apartheid. Many (in)famous people from that part of history are buried at the Heroes Acre in Pretoria. This article tells the tale of one of those people, Paul Kruger, and whether he was actually a hero or just a guardian of an unjust cause.*

**TEXT** Remco van der Woude - Saffa

## HISTORY

Paul Kruger was the fifth president of South Africa and before that he was a member of the Triumvirate, which means one of the three political leaders. Moreover, he was the main commander of the Republic of South Africa during both Boer Wars.

The First Boer War, also known as the Transvaal war, was the war that raged between the South African Republic against Great Britain. First, I will give some background about this war. The main cause of this war was the British annexation of South Africa in 1877. The Transvaal was only annexed by England, because of the perceiving threats from Zululand. Nonetheless, this resulted into great resentment against the British occupation and a growing nationalism. The trigger for the actual war, which was actually not more than a few skirmishes between the Boers and the British, was a Boer called Piet Bezuidenhout, who refused to pay an illegally inflated tax. During the British annexation of 1877 Paul Kruger was the leader of the Transvaal Boers. He was a commander of the South African army during this war. However, he was not present at the actual battlefield, but was a key player in the negotiations between the South Africans and the British, which ended in 1881 by him signing the

Pretoria Convention declaring the independence of the South African Republic.

This peace did not last very long, because in 1899, just 18 years after the previous war, the Second Boer War already commenced. The main cause of the war was the discovery of gold on the Witwatersrand in 1886. This made the Transvaal, a struggling Boer republic at the time, a potential political and economic threat to British supremacy in South Africa at a time when Britain was engaged in the scramble for African colonies with France and Germany. Although Kruger was only interested in preserving the independence of the Transvaal, Great Britain believed that the Transvaal was pressing for a united South Africa under the Afrikaners. The outbreak of war raised Kruger's international profile even further. In countries antagonistic to Britain he was idolised; Kruger expressed high hopes of German, French or Russian military intervention. Some events during this war were very controversial, like the notorious "Kruger Telegram" which stressed the relation between Germany and Great Britain. This telegram was a message sent by Germany's Kaiser Wilhelm II to Paul Kruger, president of the Transvaal Republic, on 3

January 1896. The Kaiser congratulated Kruger on repelling the Jameson Raid, a sortie by 600 British irregulars from Cape Colony into the Transvaal. The raid was intended to trigger an anti-government uprising by the primarily British expatriate miners, but was a fiasco with 65 of the raiders killed to only one Boer, and the rest surrendering. The telegram caused huge indignation in the UK, and led to a further inflammation of tensions between Britain and Germany. After the failure of negotiations between the South African Republic and Great Britain to resolve this crisis, Britain went to war without much regret with the South African Republic and the Orange Free State in October 1899. It turned out to be the Boer republics to declare war first, after Britain rejected an ultimatum demanding the withdrawal of its troops from areas near the borders of the former. This war was eventually won by Great Britain and caused the first signs of racial separation and was therefore one of the causes of the Apartheid.

Both the leaders of the Boers and the British believed that this should be a 'white man's war', however black people played an important part, and also suffered severely. From the start British and Boer forces alike employed black people in non-combatant roles. About 10,000 black people accompanied the Boers to perform small duties on commando, like driving a wagon. A very tiny number of them unofficially took up arms on the Boer side. In the British Army, at least 14,000 black people worked as wagon drivers. However, at the end of the war gradually more black people were used in combatant roles such as spies or guides. By the end of the war there were around 30,000 armed black men in the British Army. Moreover, the black community played an important role in driving away the Boer commandos and families from the Transvaal and therefore contributing to the Boer acceptance of the peace terms. The imperial policy failed soon after the war and merely fanned Afrikaner nationalism. The British Empire had been shaken by its efforts to force two small nations into submission, just a decade before World War One.

Even though the laws of apartheid were not put into

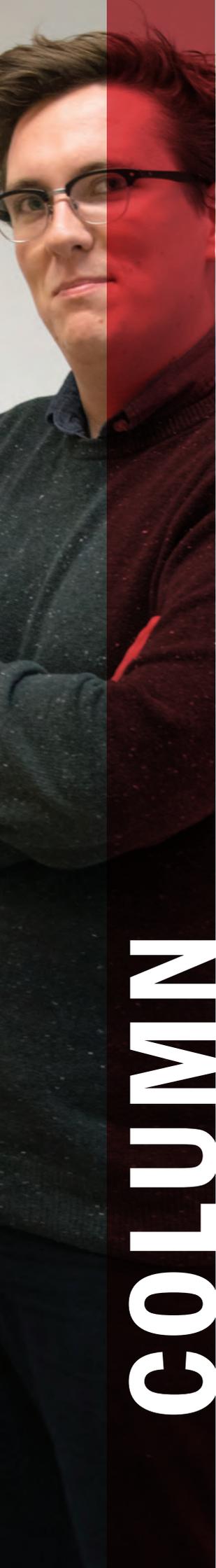
the South African government until 1948, several actions and steps became the foundation for setting up apartheid. Numerous laws were passed that took away the rights and freedom of black people. In 1911, the Mines and Works Law was passed which only allowed for blacks to work for wages. The high paying jobs were only appointed to whites because of the skill it required; implying that black people could not receive any form of higher education back then. The Native Affairs Act of 1920 was another building block for apartheid. This act established a system of "tribally based, but still government-appointed, district councils", which implies that black people were back then under strict supervision by the British. Also, the Natives Urban Areas Act of 1923 controlled how often blacks were able to go into the cities and towns in South Africa, and thus limiting the movements of the black people making it easier to control them.

Now you know more about Paul Kruger and the role he played in the history of South Africa. From the view of an Afrikaner, Paul Kruger is definitely a hero, since he defended the original lifestyle of the Afrikaners during the Boer Wars. Some people even called him the personification of Afrikanerdom. However if I look at him from the British point of view, Paul Kruger was just a commander of a rebelling army standing in the way of the British colonization of South Africa. Some might even say that Paul Kruger laid the foundations for the Apartheid regime, since the Second Boer War was officially declared by the Boers and the Apartheid regime is an indirect result of the events in the second Boer war.

So, according to some, Paul Kruger is indeed a folk hero. However, others think that he is a guardian of an unjust cause. In my opinion, Paul Kruger can be considered a hero, since if he did anything wrong that would be just preserving the nationalism of the Afrikaners. I can't deny that he was the person who initiated the Second Boer War, however if the Boers did not declare war to Britain it would have happened the other way around. Therefore he can't be blamed for the events which might have laid the foundation of the Apartheids regime.

## CONCLUSION





# AMERICAN STUDENT CULTURE

*You might have missed me while I was gone, you might have been relieved or you might not have noticed it at all, but anyhow: at the time of writing this article, I just returned from the US after spending spring as an intern at the University of Pennsylvania. Although I did not take any courses, this did provide me with an insight in American student life, with all its odd quirks and traditions: time to share the joy!*

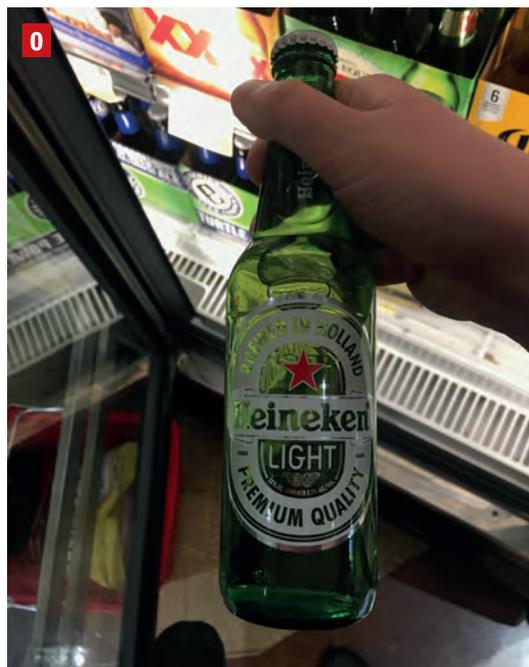
**TEXT** Bor de Kock

I arrived at Penn near the end of January: a new president had just been inaugurated, the weather was still quirky (some days sunshine, some days staying home due to blizzard warnings), and I swiftly moved into a beautiful 1970s student flat. I lived in a building on campus that housed both Americans and foreigners, so I soon knew a lot of people and quickly found new friends. From there I explored what life at one of the oldest universities in the US has to offer.

I soon found myself at my first house party, where I was delighted to find out that the Americans actually use the red cups to drink from, that beer is usually served light (although they have some good local beers too) and of course that someone inexplicably shows

up with jello shots halfway through parties. A surprising number of things are almost identical to the way we see American students on TV: there are marching bands, glee clubs, book clubs, and of course a large focus on college sports. But the large number of student organizations goes way further than that: even the bank I have my US account with is a student-run nonprofit just for those at Penn. The campus facilities for student life reflect this: not only the sports fields and stadiums, but there are also many buildings for the different organizations around campus, like a headquarters for the different student-run magazines, a LGBT Student Center, a 150-year-old 'intellectual' student society housed in the attic of one of the oldest buildings and of course the many fraternity houses. Naturally, these kind of things suddenly become possible if you pay almost \$50.000 a year in tuition fees alone: a number that makes our Dutch state-mandated fee of around €2.000 seem very reasonable.

Something else that's different - alcohol. As you know, the legal age in the US is 21, meaning most students are not allowed to drink and therefore there is no bar at bigger university events. The effects of that are - of course - quite the opposite of what was intended. One of the most extreme examples was the Spring Fling Concert, which is an event comparable to our OAJ (the academic year opening party). There was no bar, and security checks to make sure that you leave bottles at home. The result is that people pre-game (indrinken) with a serious amount of liquor, and as such are barely able to walk even before they arrive. Alternatively,





they smoke weed because it's easier to smuggle through security. The strict laws when it comes to drugs and alcohol rarely work out as intended.

“ The strict laws ... rarely work out as intended. ”

When it comes to events of the graduate student unions, people are luckily more lenient. This is how I learned English does have a word for 'borrel': happy hour. That does not mean that there is a special discount, by the way, but at most student union events the drinks and food are free. I guess that is another

benefit of paying the steep US tuition fees. By the way, there is even a word for vrijdag: a TGIF (or Thank God It's Friday) event.

Although there are many things that made the Penn campus stand out from our own, there is one thing that I would like to mention: naming conventions. Most things on campus are named after the alumni that were generous enough to pay for them: classrooms or entire buildings, hallways, park benches and bridges. Penn even has a Class of 1923 Ice Skating Rink, because together they decided to have one built during their 50-year reunion. TU/e recently opened a 'Friendly Giving'-initiative: I'm curious what its largest yield will be.



0

*A bottle of Heineken Light*

1

*Introducing the dear Americans to the Eurovision Song Contest*

2

*Snowy Penn campus*





# DE DATASNELWEG: SET-ORIENTED DATA VERWERKEN IN SQL

TEXT Victor de Baare - DSW Zorgverzekeraar

## HET PROBLEEM

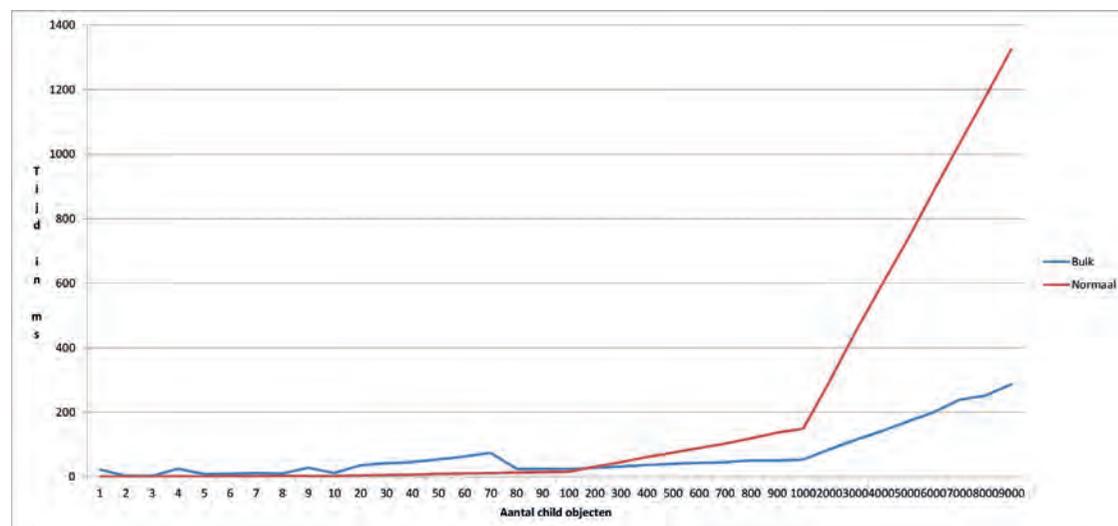
Data begint een steeds belangrijkere rol te spelen in onze samenleving: Google, Twitter, Facebook en nog vele andere bedrijven verzamelen enorme hoeveelheden data over hun gebruikers. De verzamelde data gebruiken ze bijvoorbeeld voor advertentie doeleinden. Bij DSW verwerken we ook grote hoeveelheden data in één keer, maar dan met andere doeleinden. Denk bijvoorbeeld aan wanneer een groot ziekenhuis zijn declaraties indient. Duizenden regels moeten op zo'n moment in worden ingelezen en opgeslagen. Wanneer dit niet tijdig lukt lopen we het risico dat de hele keten ophoopt, wat kan resulteren in achterstallige betalingen. Het is dus belangrijk dat het opslaan van deze data aan onze kant zo snel mogelijk gebeurt.

De standaard methode die je op internet vindt, en ook door veel frameworks wordt gebruikt, is het één voor één opslaan van objecten. Deze methode is row-

oriented. Bij een miljoen objecten kan dit erg lang duren. Wanneer een proces moet wachten op een specifiek punt, kan dit zelfs de hele keten ophouden. Als organisatie waar dit soort processen continu draaien willen we dit zoveel mogelijk voorkomen.

## EEN OPLOSSING

Een oplossing voor dit probleem is om alle data in één keer aan de database te geven. De database doet dan waar deze het beste in is: een set aan data verwerken. Deze methode is dan ook set-oriented. Wanneer we vanuit de code de data als een tabel aanleveren aan de database kunnen we een merge-statement uitvoeren. Een merge-statement is ervoor bedoeld om twee tabellen samen te voegen. De uitdaging was om dit statement correct om te laten gaan met de insert, update en delete functionaliteit en daarnaast ook te controleren dat de data die eventueel aangepast werd ook aangepast mocht worden.



In de merge statement wordt de meegegeven datatabel vergeleken met de source datatabel. Aan de hand van een aantal condities wordt bepaald welke acties moeten worden uitgevoerd. De output van de uitgevoerde actie wordt tijdelijk bijgehouden in een outputtabel. Deze tijdelijke outputtabel is nodig, omdat aan het einde van de merge ook alle verwerkte data met de uitgevoerde actie dient te worden teruggegeven.

## CODE GENERATIE

De C# en SQL code wil je niet voor elk object zelf moeten uitschrijven. Dit is tijd consumerend en foutgevoelig. Om deze problemen te voorkomen maken we gebruik van codegeneratie. Een voordeel hiervan is dat je de code slechts één keer hoeft te testen, en dat het eenvoudig is om van verschillende objecten de code te genereren. Een voordeel binnen DSW is dat de standaard CRUD (Create, Read, Update en Delete-statements) al worden gegenereerd. Op deze basis hebben we verder ontwikkeld om ook de merge functionaliteit uit te werken. Hieruit kwam een module die eenvoudig toe te voegen is. We hebben gekozen voor een losse module omdat deze functionaliteit niet overal nodig is, maar wanneer je het wel nodig hebt, je niet wilt dat het impact heeft op de bestaande code.

## DATA ANALYSE

Vermelden dat je een verbetering ontwikkeld hebt is natuurlijk leuk, maar zonder een goede onderbouwing zegt het nog niks. De computer heeft voor een aantal dagen tests uitgevoerd om genoeg data te verzamelen. Dat de eerste set aan tests zo lang duurde was omdat elke test 90 keer werd uitgevoerd. Wanneer één test een paar miljoen records gaat verwerken en dit 90 keer moet doen kan dit tijdrovend worden, vooral als alle tests ook op de oude manier moeten worden uitgevoerd. Een voorbeeld van de verkregen data is hierboven in een tabel gerepresenteerd, wat ons betreft spreekt deze voor zich!

## CONCLUSIE

Door gebruik te maken van het set georiënteerde aspect van de SQL database konden we vooral op grote aantallen een enorme winst boeken in performance. Dit kan helpt ons verder om het gehele proces sneller

te laten verlopen én om te voorkomen dat er op plekken onnodig bottlenecks ontstaan. Daarom zetten we deze methode nu al op verschillende projecten in.

```
MERGE
INTO [dbo].[bulkchild] AS [Target]
USING @dataTable AS [Source]
  ON [Source].id = [Target].id
  WHEN MATCHED
    AND ISNULL([Source].delete_flag, 'FALSE') = 'FALSE'
    THEN UPDATE
      SET nummer = [Source].nummer
        ,laatstemutalist = @laatstemutalist
        ,datumlaatstemutatie = @datumlaatstemutatie
  WHEN MATCHED
    AND [Source].delete_flag = 'TRUE'
    THEN DELETE
  WHEN NOT MATCHED BY TARGET
    THEN INSERT
      (nummer
      ,bulkparent_id
      ,laatstemutalist
      ,datumlaatstemutatie
      )
    VALUES
      ([Source].nummer
      ,[Source].bulkparent_id
      ,@laatstemutalist
      ,@datumlaatstemutatie
      )
```

## OVER DE AUTEUR

Victor werkt sinds januari 2014 bij DSW als ontwikkelaar. Na een start als backender bouwt hij nu mee aan ons landelijke portaal voor PGB-houders. Hierbij vult Victor zijn backendkennis aan met frontend-vaardigheden. Zijn database-oplossing kwam voort uit een 'hobbyproject' en wordt nu ingezet bij veel van onze projecten.

Deze tekst staat ook op [werkenbijdswn.nl](http://werkenbijdswn.nl), de plek waar we regelmatig inhoudelijke stukken plaatsen die op enige wijze gerelateerd zijn aan het werken bij DSW Zorgverzekeraar.





COLUMN

# A REAL LIFE JUSTICE LEAGUE

**A**round a year ago an email dropped into many inboxes of GEWIS-members. The news spread quickly that the end of Web Science was near. To save resources it was decided that the current freshmen would be the last students that follow the program Web Science. However, to some, a document of a few pages was included supporting the decision.

**TEXT** Yoram Meijaard

Quickly a meeting was called together and many discussions followed. "What was the reason?" "Are there now alternatives?" "What are the consequences?" Eventually, the conclusion reached is that the Web Scientists are a great contribution and their profile should still be possible, even if their program is no longer in existence.

What followed this meeting was a lobby by many students, that fought for a curriculum that contains not just the best parts of Software Science, but also the best aspects of Web Science. These students are all members of so-called co-determination bodies, such as the Educational Committees, Faculty Council and University Council. Generally there only one such body is concerned with a particular issue but sometimes, synchronization opinions is required. The place this happens is in the StudentenRaad (SR).

**“ One could argue that we are the Justice League of the faculty W&I. ”**

The members of the SR are all part of these co-determination bodies, whose job it is to take care of particular issues concerning various aspects of studying Mathematics or Computer Science at our university. During our meetings we discuss the current affairs that these bodies are concerned with. Recently, at least at the time of writing, this has to do with

changes in the law. Aside from that minor, but very complex issue, there is a university wide discussion on the introduction of a 12-hour timetable. There are many outcomes of that discussion, it might very well just happen, perhaps not. What can be assured is that the SR will try their very best to bring this to the best end possible.

You might ask what all of this has to with Hero's? These students attend many meetings. You might not believe how many meetings a person can have. This is a sacrifice that we make, in order for the rest of the students to live their lives in peace and security. One could argue that we are the Justice League of the faculty W&I, a group of students protecting the students of W&I from the big bad of policies, meetings and the archenemy, the notorious OER. We shall leave it upon the reader to determine which of the SR members is our Batman-equivalence.

*We will use this precious space to remind you that there are only so many things that we can take care of with our own experience. If you spot a problem, if you feel mistreated or just when there is something educational related that you want to complain about, then please send an email to [complaints@gewis.nl](mailto:complaints@gewis.nl) or talk to us during the borrel and the Justice League can go to work.*

*Infimum: Strange or funny quotations from a teacher, a student or faculty member.*

Here you can find infima sent to the Supremum committee. [inf.gewis.nl](http://inf.gewis.nl)

*Tijdens 30 seconds*

**Bouke:** "Waar alle vrouwen meespelen?"

**Tim:** "Dildo's"

**Eline:** "Piemels"

**Esmée:** "Barbies"

**Esmée terwijl Tom haar insmeert:** "Hoeveel bier heb je op?"

**Tom:** "Oh kut, mijn piemel wordt stijf."

**Babs:** "Waarom heb je een blauwe mond?"

**Twab:** "Ik heb een smurf gepijpt!"

*Meanwhile in Ede.*

**Ilse:** "We moeten reserveren voor de midgetgolf."

**Tim:** "Oke, wie spreekt er t best duits?"

**Leroy:** "50 jaar is echt een mooi lustrumjaar, maar 60 jaar is natuurlijk veel mooier, want dat is twee keer 35!"

**Dobin over 99 Luftballons:** "Is dit de Duitse K3?"

**Bas G:** "En toen werden ze dus wakker omdat ik te hard aan het kotsen was."

**Sanne:** "Je hebt negen jaar. Dan hoef je dus maar één vak per jaar en dan heb je je studie!"

**Wietske:** "Ik ben mijn alcohol ervaring begonnen met ouzo.."

\*staart in de verte\*

**Wietske:** "Maar het heeft zes kanten en je hebt zes vingers."

**Tobin:** "Het mooie van Teun die geen onderbroek aan heeft, is dat hij niet met z'n hand in z'n broek kan."

**Wietske:** "Bij sommige drollen kan je wel zeggen 'Hé, die drol ziet er wel uit alsof ik hem op zou willen eten.'"

**Tobin:** "Appelsap smaakt net naar apfelkorn, maar dan zonder alcohol."

*Over Lydia's zakelijke hotelovernachtingen*

**Denis:** "Verveel je je nou niet, alleen op een hotelkamer zonder Remko?"

**Lydia:** "Nou, er zijn zoveel eenzame zakenmannen in die hotels."

**Yoram:** "Het is gewoon een keer niet Sjaars Rick die dingen verneukt."

**Sjaars Rick roept:** "Waaaaaaaat?"

*Akelige stilte*

**Sjaars Rick:** "Oke, je hebt een punt."

**Eddy over BHVen:** "Als die neergaat stop ik nog eerder mijn pik in hem dan dat ik hem verzorg."

**Simon:** "Nee, ik weet niet meer hoe letters werken."

**Stijn D:** "Ik kwam met m'n broek op m'n enkels uit een steegje gewankeld, geen idee hoe die politieagenten niet doorhadden dat ik dat hele steegje onder de pis had geknald. Zo mooi Nijmegen."

**Wesley:** "Ik moet een foto opsturen die mij inspireert."

**Semi:** "Doe een dickpic!"

**Anoniem:** "Ik had laatst een piemel in mijn mond!"

**Wesley:** "Ik ook!!"

**Landa over Pieter:** "Hij is gewoon te seks.."

**Wietske:** "Penetreer jij jezelf ook wel eens?"

**Gijs B. over de almanak:** "Iedereen in dit boek ziet er crackverslaafd uit, man"

**Thijs:** "Semi trek je broek op!"

**Semi:** "Ja, me riem is stuk."

**Niekie:** "Yaaay!"



# COMMITTEES & FRATERNITIES

## FRATERNITIES



**ATHENA**  
ATHENA



**B.O.O.M.**  
Buitenplezier Op Onze Manier



**GELIMBO**  
GEWIS Ervaart Limburgse  
Initiatieven Met Bewondering en  
Ontzag



**GEPWNAGE**  
GEWIS Plant Weer Nerdige  
Activiteiten en Geeky  
Evenementen



**I.V.V.**  
In Vino Veritas

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€ontact €ommittee

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**JBC17**  
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Internationals Facilitating

**Integration**

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**STIJL**  
Huisstijl Commissie

**SUPREMUM**  
Supremumcommissie

**TRAIN ★**  
Training

**WC**  
Web Commissie

# SUPREMUM COLOPHON

## SUPREMUM

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### CEB/TREASURER

Eva Lassche

### POSTAL ADDRESS

Study association GEWIS  
Attn. Supremum  
MF 3.155 Postbus 513  
5600 MB Eindhoven  
Tel: 040 - 247 2815  
supremum@GEWIS.nl  
<http://www.GEWIS.nl/supremum/>



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Deltares is een onafhankelijk kennisinstituut voor vragen over water en ondergrond. Wij willen het leven in delta's, rivier- en kustgebieden graag veiliger maken. Nationaal en internationaal hebben veel bedrijven en overheden de weg naar ons al gevonden. Samen zoeken we naar praktische, duurzame en innovatieve oplossingen.

Je krijgt de kans om aan praktische oplossingen te werken met onze experts als volwaardig lid van het team. De sfeer is open en gericht op samenwerken. We hebben vestigingen in Utrecht en Delft en er werken hier 32 nationaliteiten.

Bij Deltares werk je mee aan het oplossen van maatschappelijk relevante vragen op het gebied van waterveiligheid, ecosystemen en milieukwaliteit, water en grondstoffen, bouwen in de delta en het duurzaam inrichten van deltagebieden. Tijdens je stage of afstuderen bouw je tegelijk aan een professioneel netwerk waar je nog lang plezier van zult hebben.



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Kijk voor je stage of afstudeeropdracht op

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