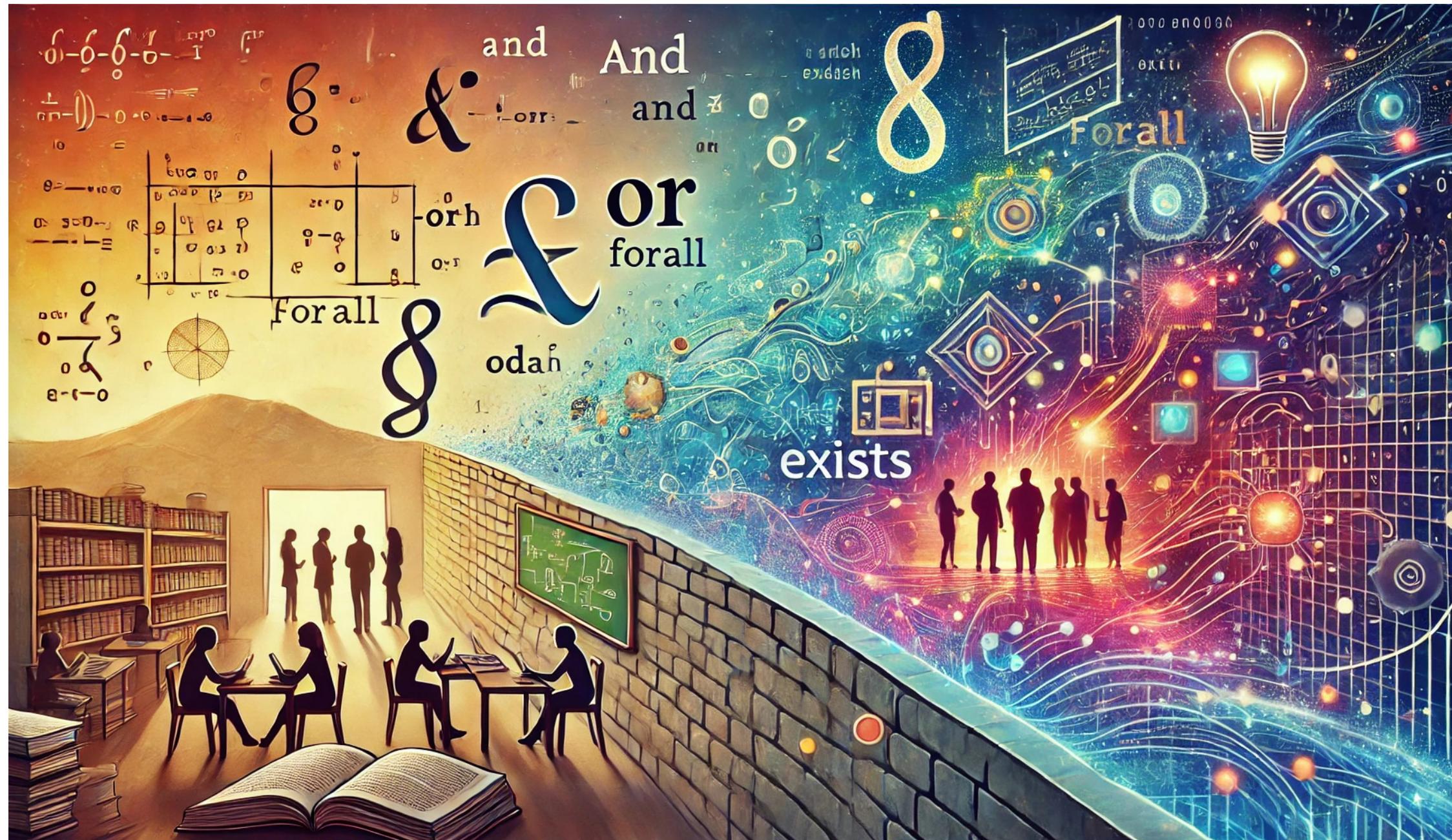


Logic Outside the Wall: Outreach, Popularisation, and the Future

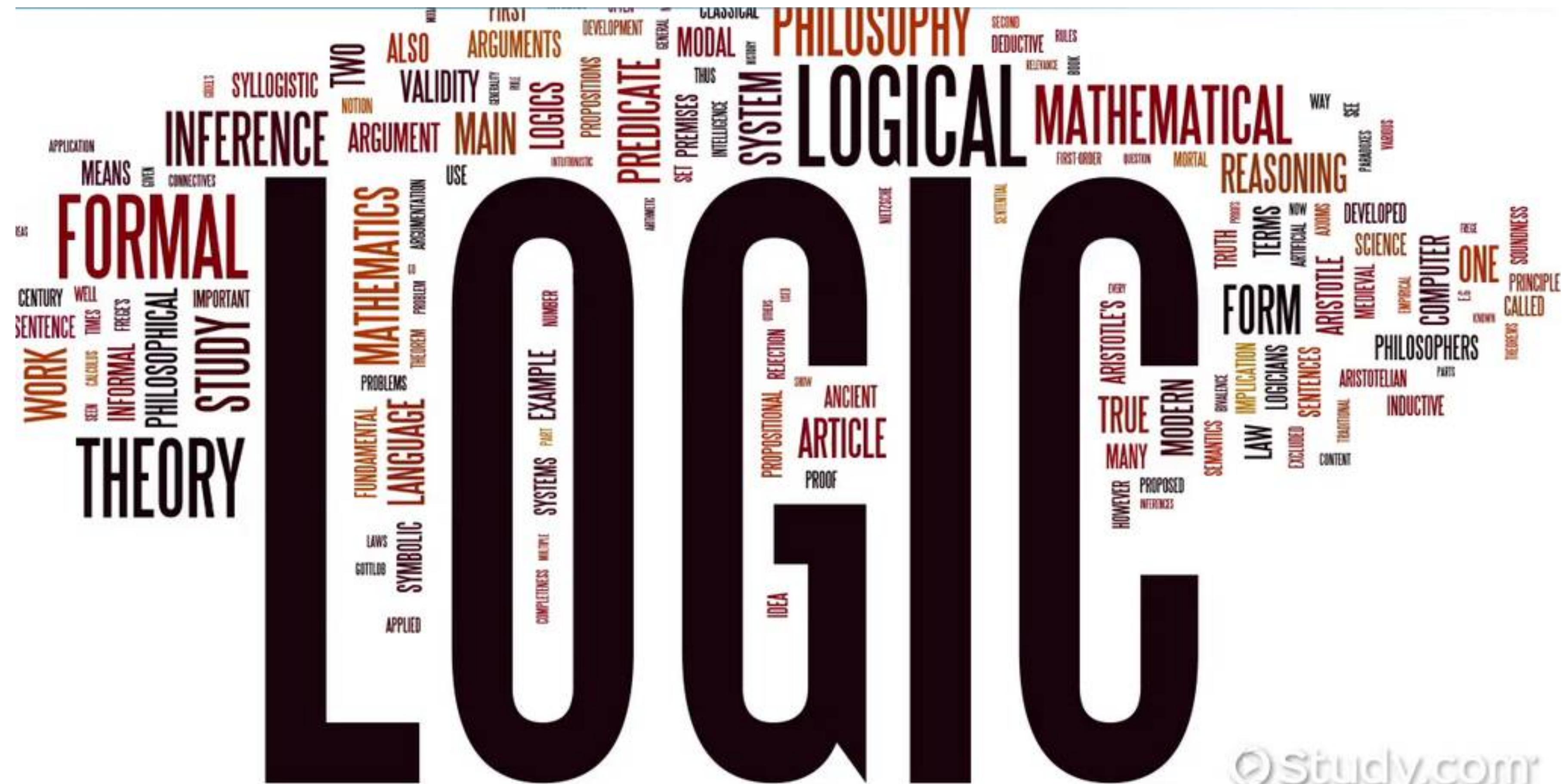


Logic Mentoring Workshop @ CSL
Elaine Pimentel - UCL
10 February 2025

1

Logic!

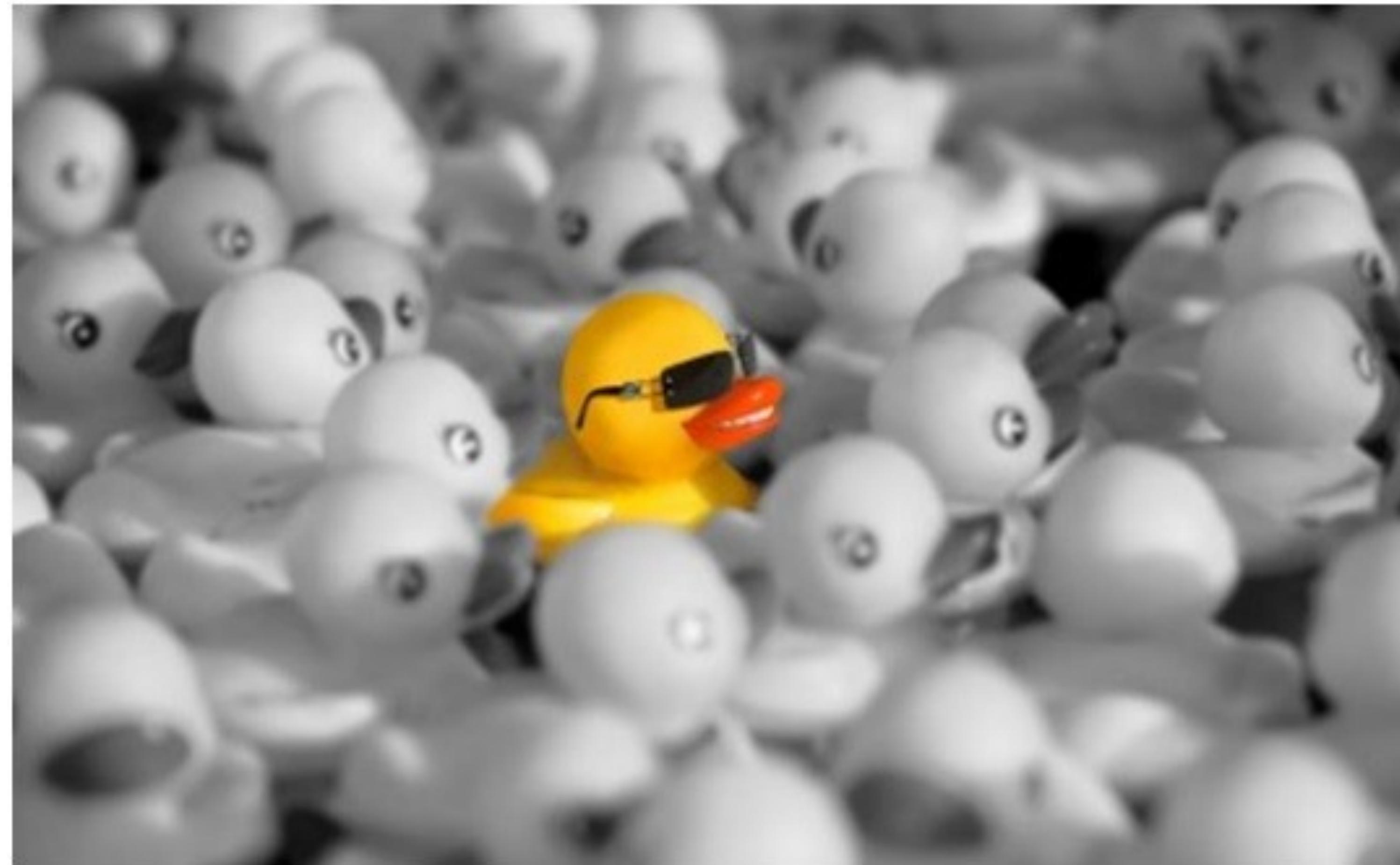
Logic, you gorgeous!!



1

Logic!

Or the happy grimme ælling?



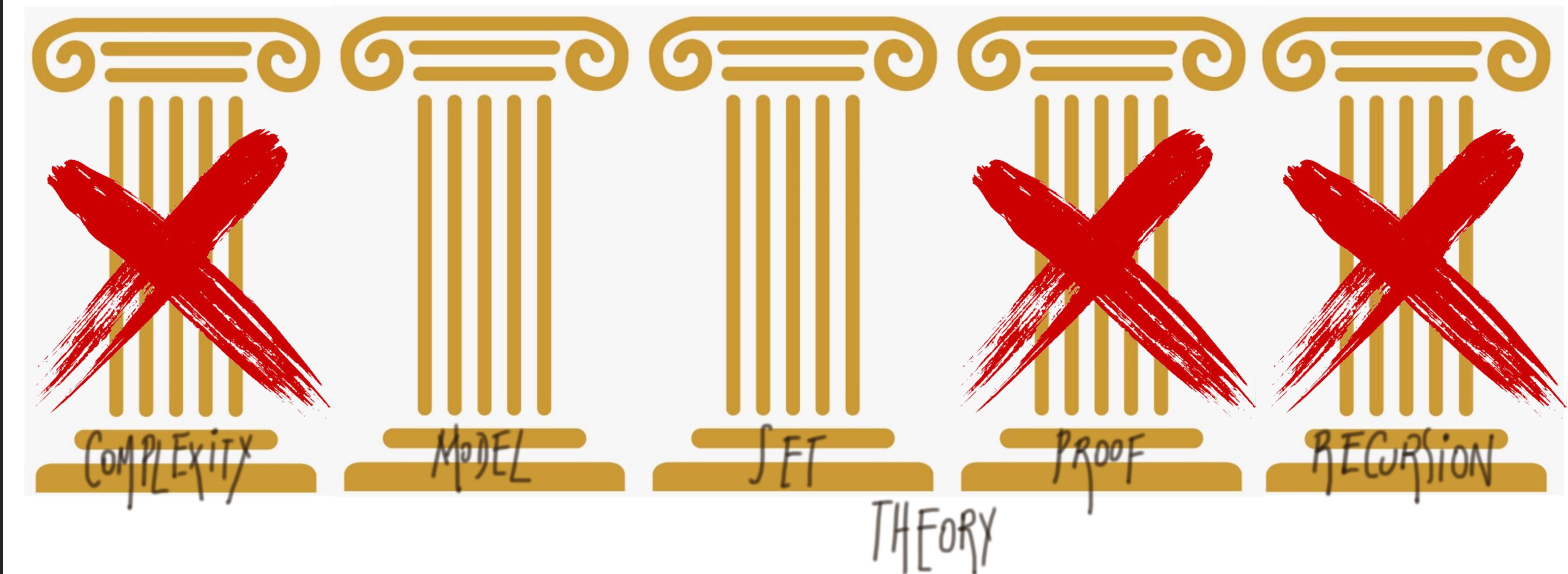
Credit: Digital senior

1

Math Logic

In Math

MATHEMATICAL logic



1

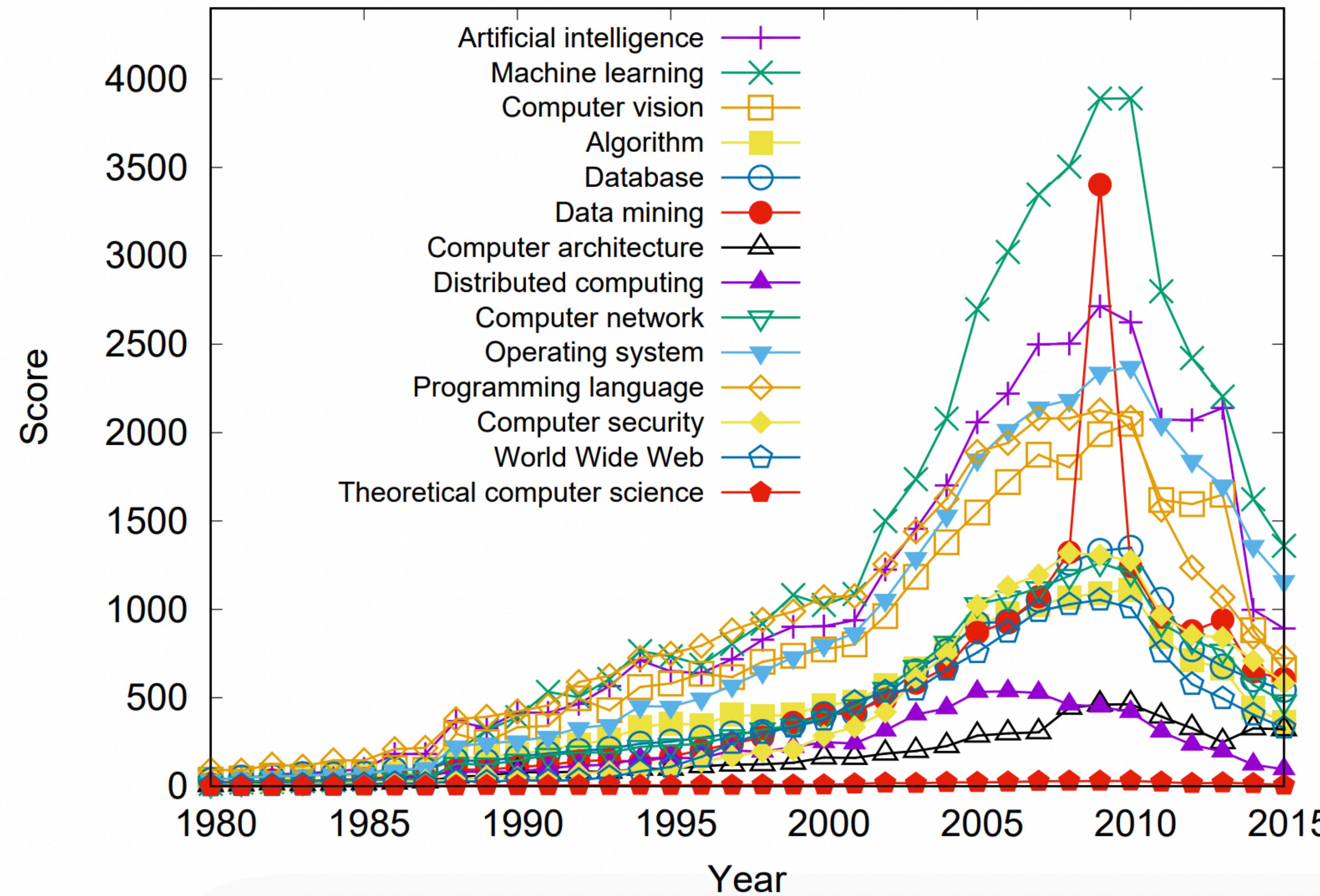
Phil Logic

In Philosophy

MATRÍCULA WEB					
		Código	Disciplina	Créditos	Área
	PÓS-GRADUAÇÃO(Mestrado/Doutorado)	206474	EPISTEMOLOGIA	004 002 000 000	AC
	CURSO	207616	ESTÉTICA E FILOSOFIA DA ARTE	004 002 000 000	AC
	OFERTA	202681	ÉTICA FILOSÓFICA	004 002 000 004	AC
	SERVIÇOS	206512	FILOSOFIA ANTIGA	004 002 000 000	AC
		100609	FILOSOFIA CONTEMPORÂNEA	004 002 000 000	AC
		207624	FILOSOFIA DA CIÊNCIA	004 002 000 000	AC
		102539	FILOSOFIA GERAL E METAFÍSICA	004 002 000 000	AC
		206491	FILOSOFIA MEDIEVAL	004 002 000 000	AC
		207608	FILOSOFIA MODERNA	004 002 000 000	AC
		206482	FILOSOFIA POLÍTICA	004 002 000 000	AC
		201405	INTROD À HISTÓRIA DA FILOSOFIA	004 002 000 004	AC
		201448	INTRODUÇÃO A PRAT FILOSÓFICA	004 002 000 006	AC
		206504	LÓGICA	004 002 000 000	AC
		137391	MONOGRAFIA FILOSÓFICA	008 000 000 008	AC
		136069	PROJ DE MONOGRAFIA FILOSÓFICA	004 000 000 005	AC
		100587	TEORIAS FILOSÓFICAS LINGUAGEM	004 002 000 000	AC

CS Logic

In Computer Science



1

Under Logic

Little voice, almost no recognition

what are other
words for
underrepresented?



undersold, understated,
lessened, diminished,
underpriced, denigrated,
cheapened, undercharged



2

Why?

Why??

- Not enough "logic" in schools?



2

Why?

Why??

- Not enough "logic" in schools?
- Not enough "logic" at the university?



2

Why?

Why??

- Not enough "logic" in schools?
- Not enough "logic" at the university?
- Not enough "talking to our pears"?

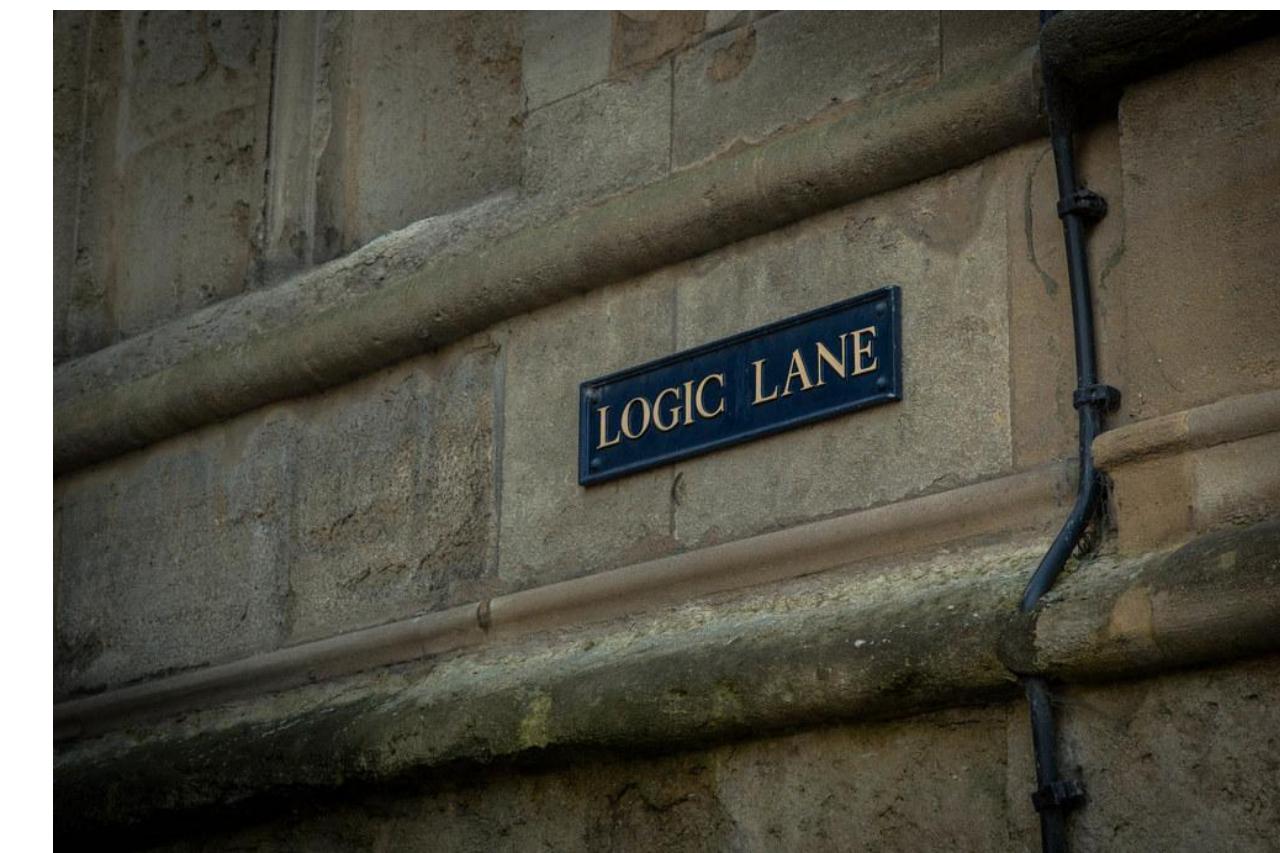


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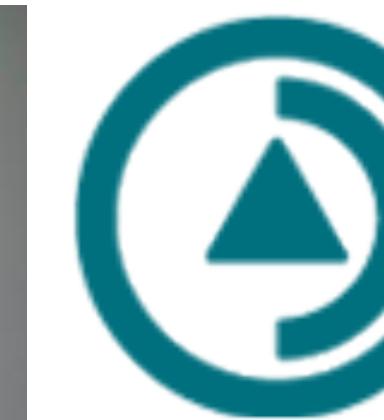
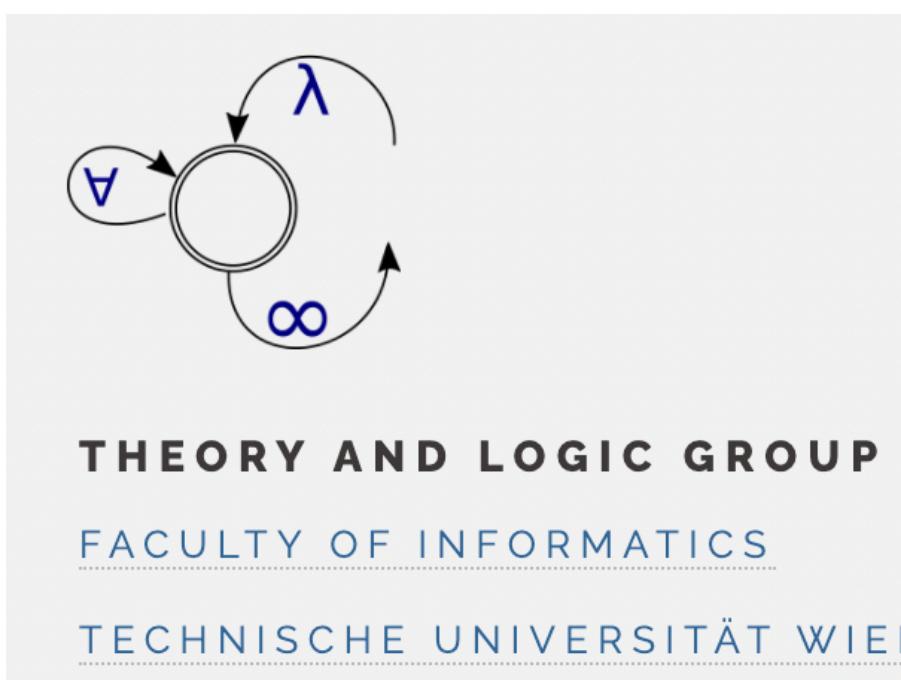
Why?

Why??

- Not enough "logic" in schools?
- Not enough "logic" at the university?
- Not enough "talking to our peers"?
- Not enough "break out of the bubble"?



3
Actions
Pairs!



Center for
Artificial
Intelligence



Engage

Diversification of subjects, applications...

Medicine, Indian Philosophy, AI...

3
Actions
Pairs!

Engage

Interdisciplinary



Quantum, NLP, Social networks, Formal verification...

3
Actions
Pairs!

Engage

Interdisciplinary



© [Arco Mul](#)

Quantum, NLP, Social networks, Formal verification...

4 Actions Uni!

Innovate



© [Arco Mul](#)



Institute for Logic,
Language and
Computation

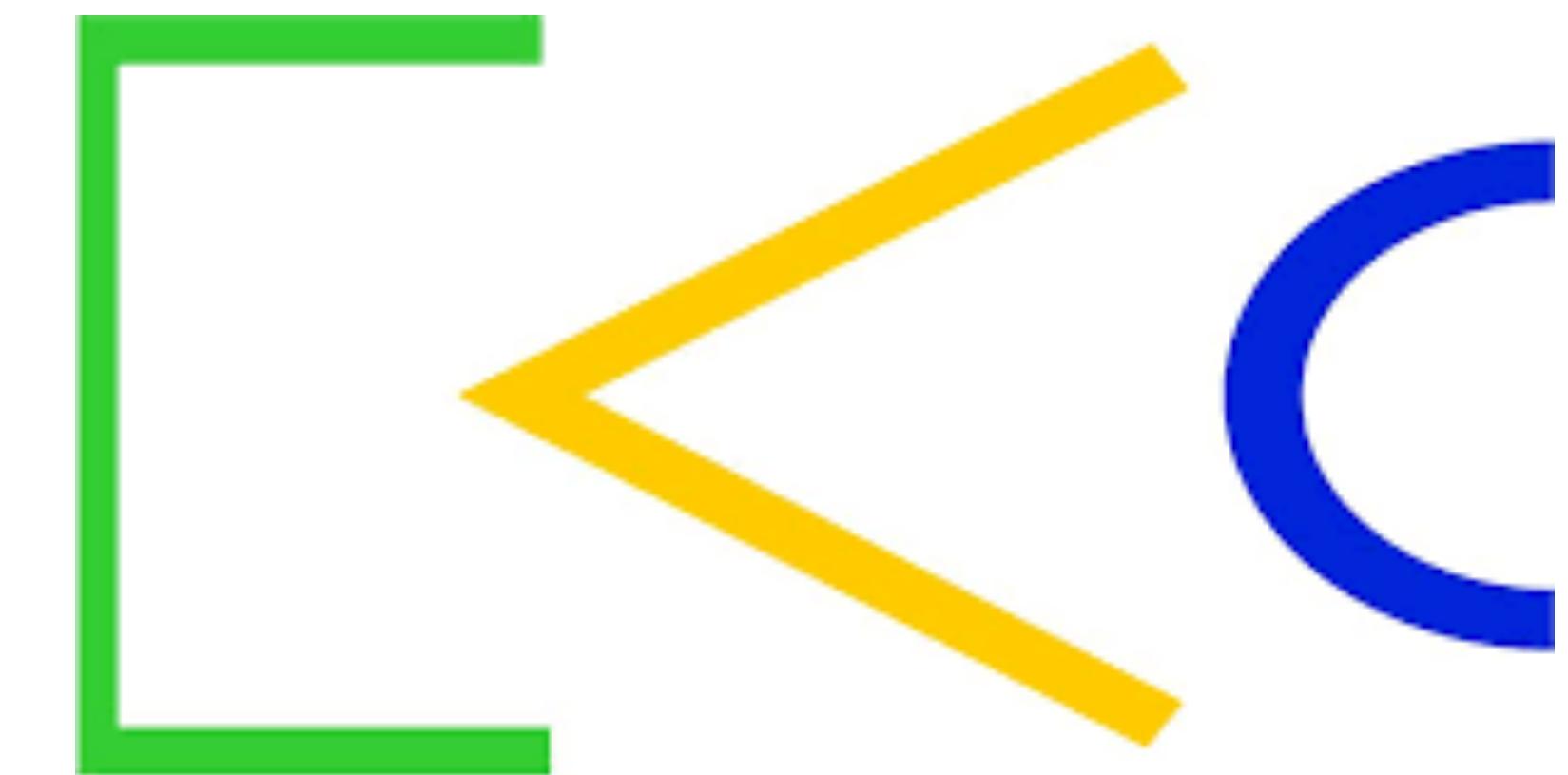


Philosophy and
Computer Science
BA

Interdisciplinary institutes and courses

4
Actions
Uni!

Create textbooks



SBL - Sociedade Brasileira de Lógica
Brazilian Logic Society

Logic in Action

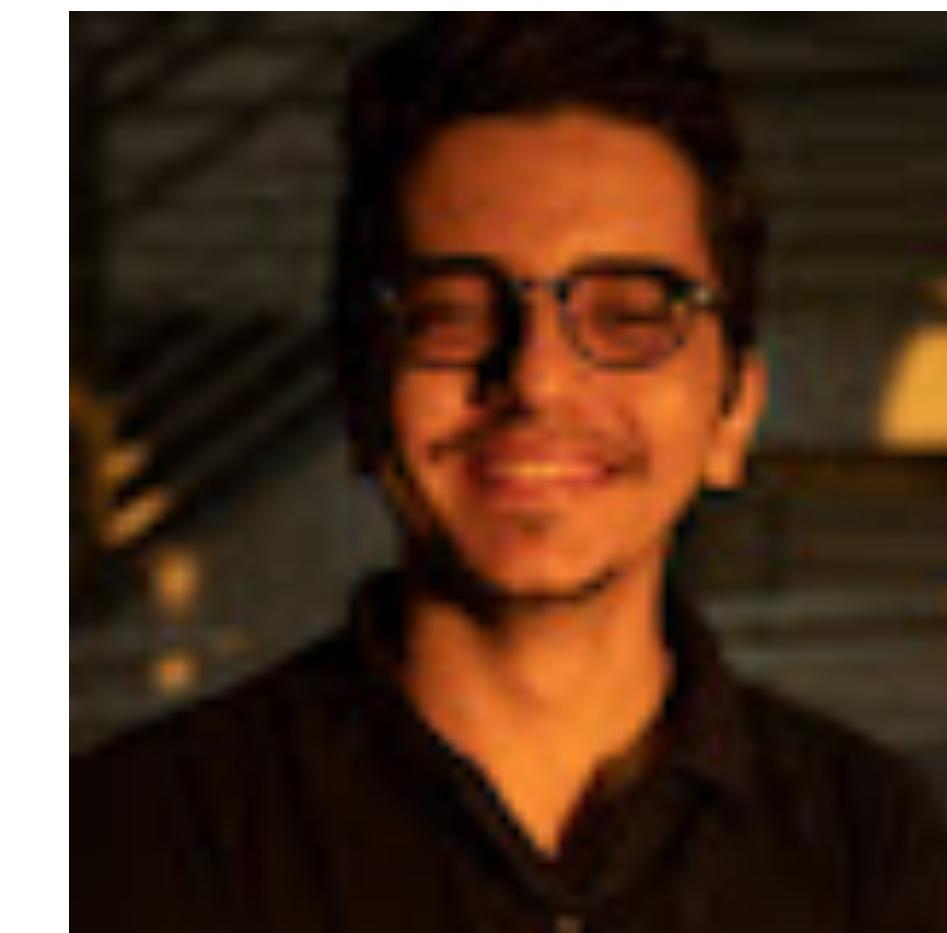
4
Actions
Uni!

A case study

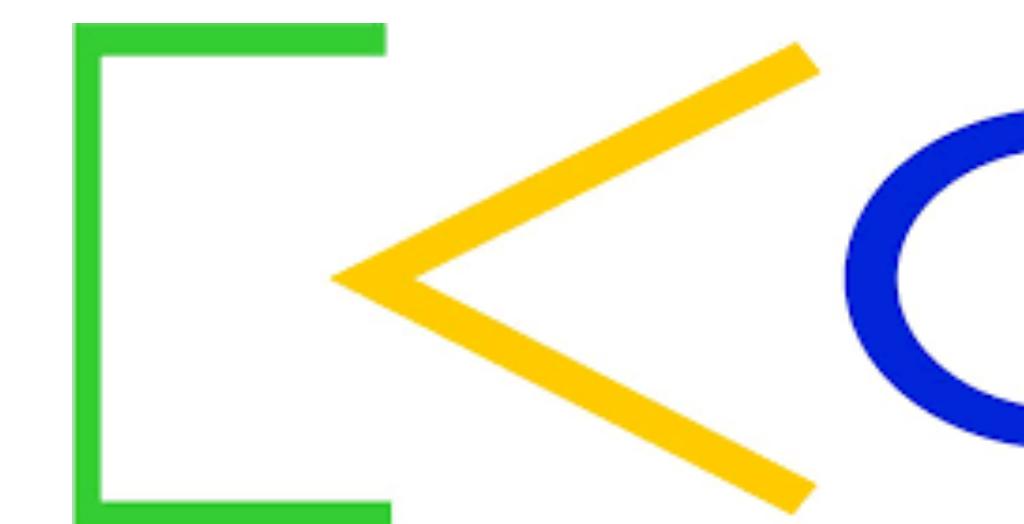
João Marcos



João Mendes



Evelyn Erickson

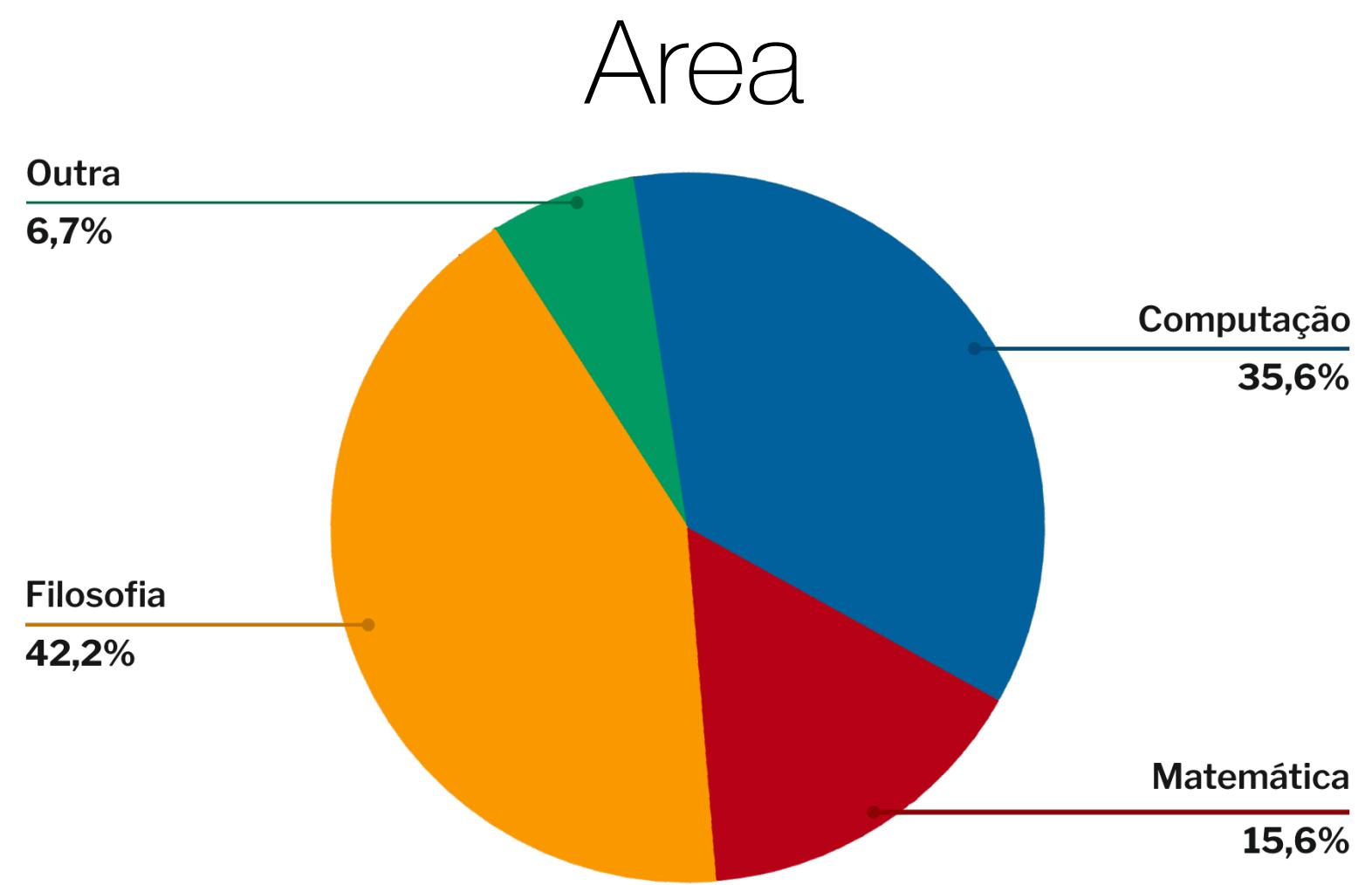


SBL - Sociedade Brasileira de Lógica
Brazilian Logic Society

4

Actions Uni!

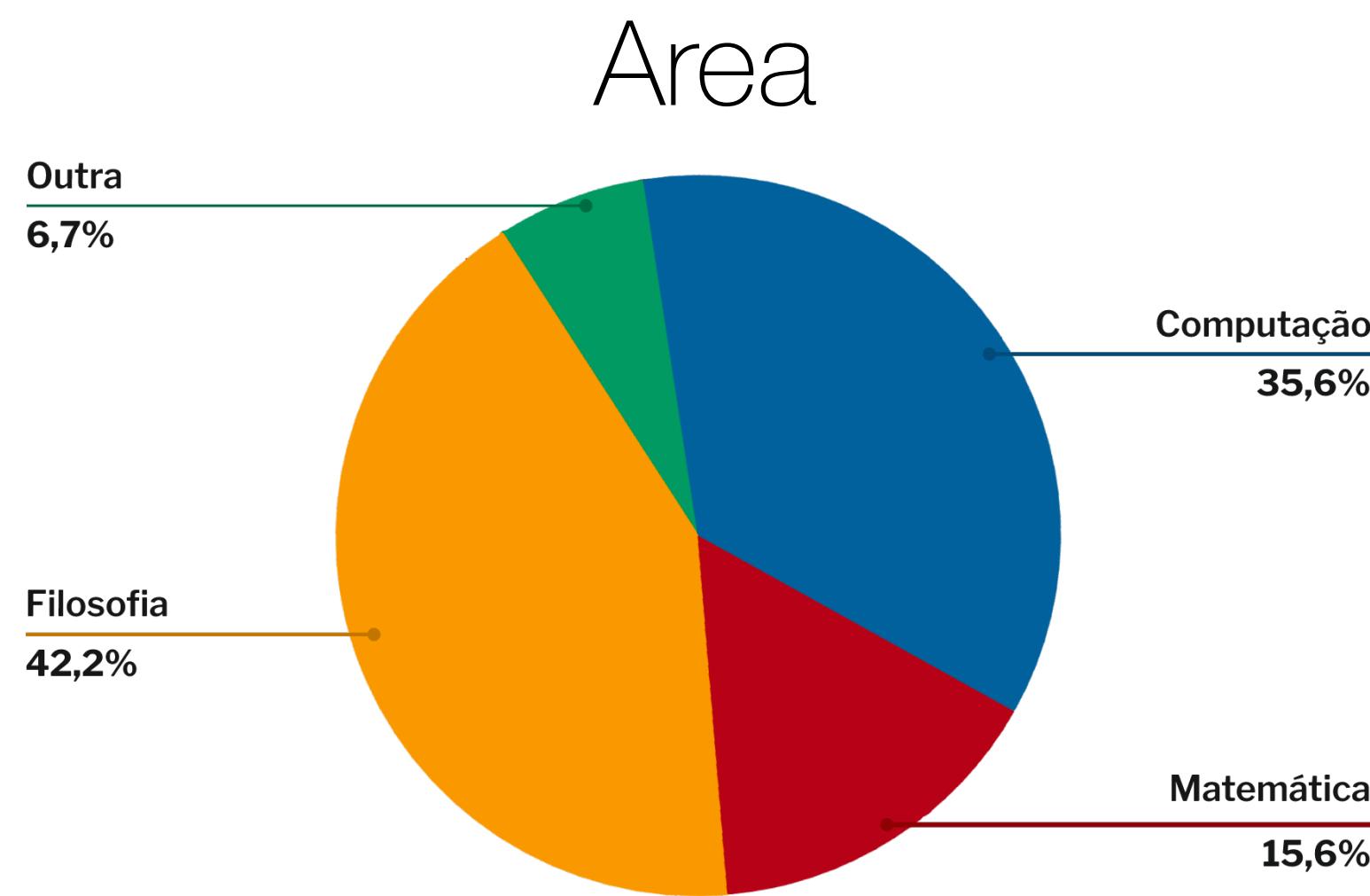
A case study



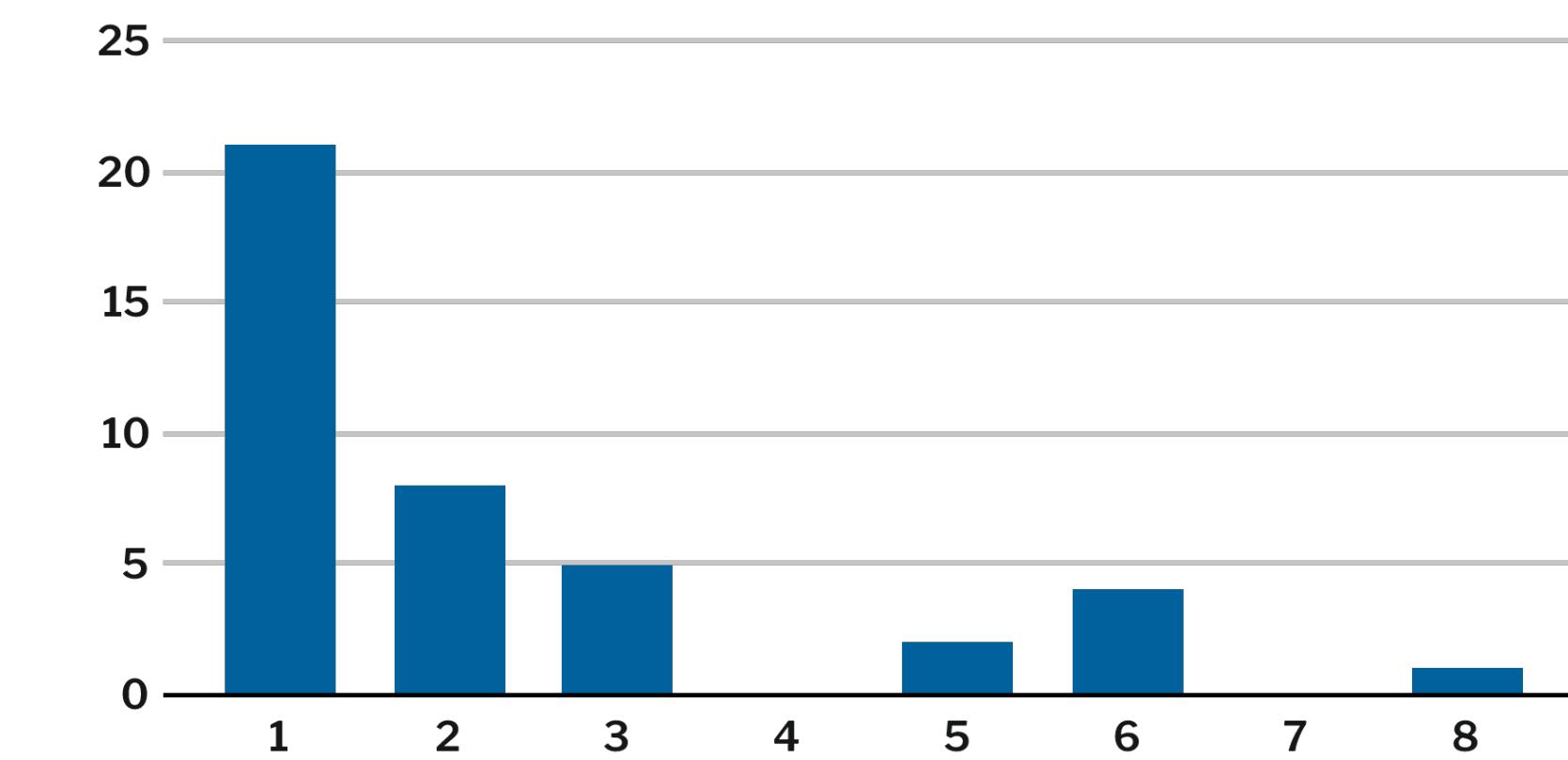
4

Actions Uni!

A case study



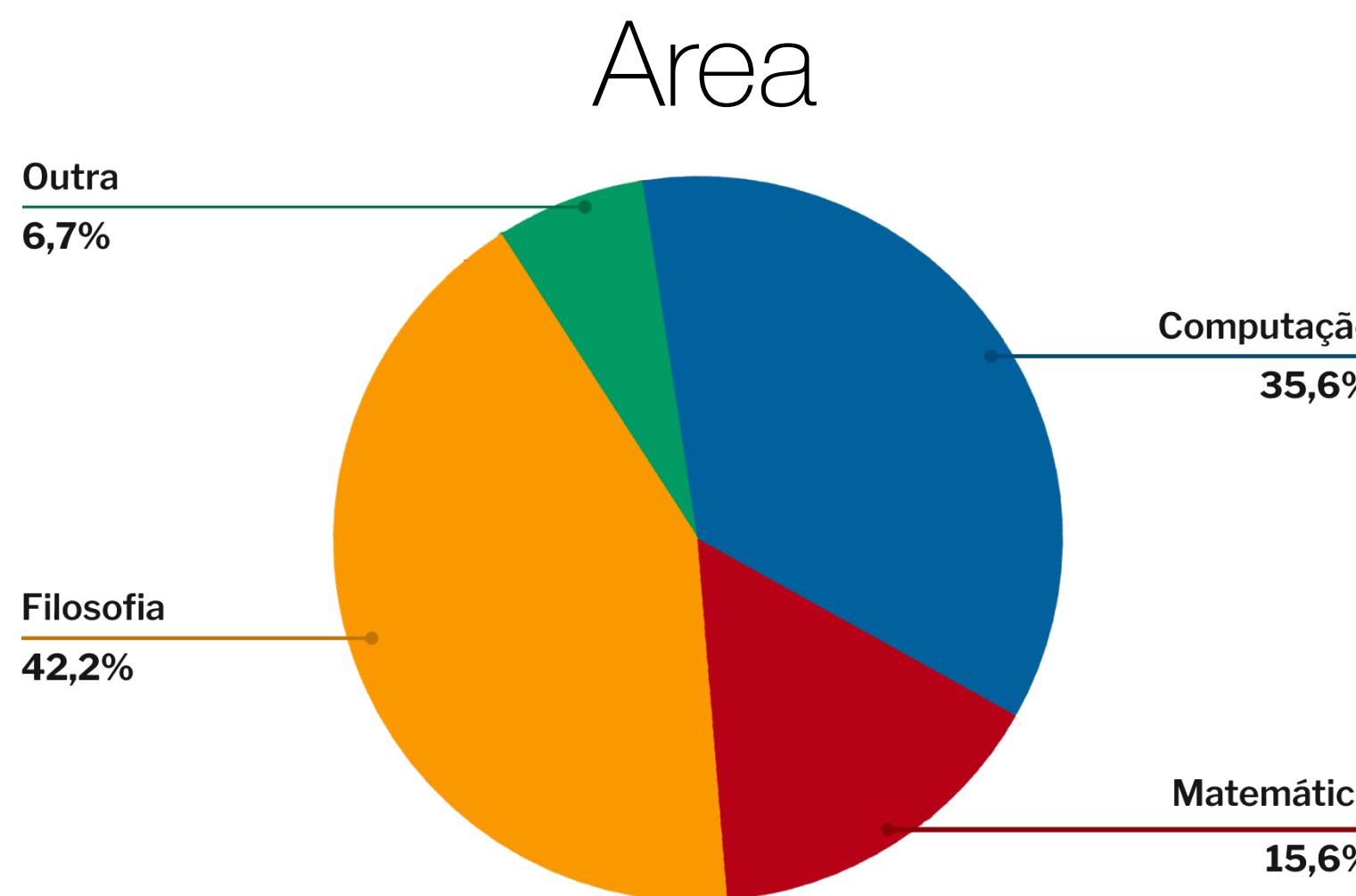
1st contact



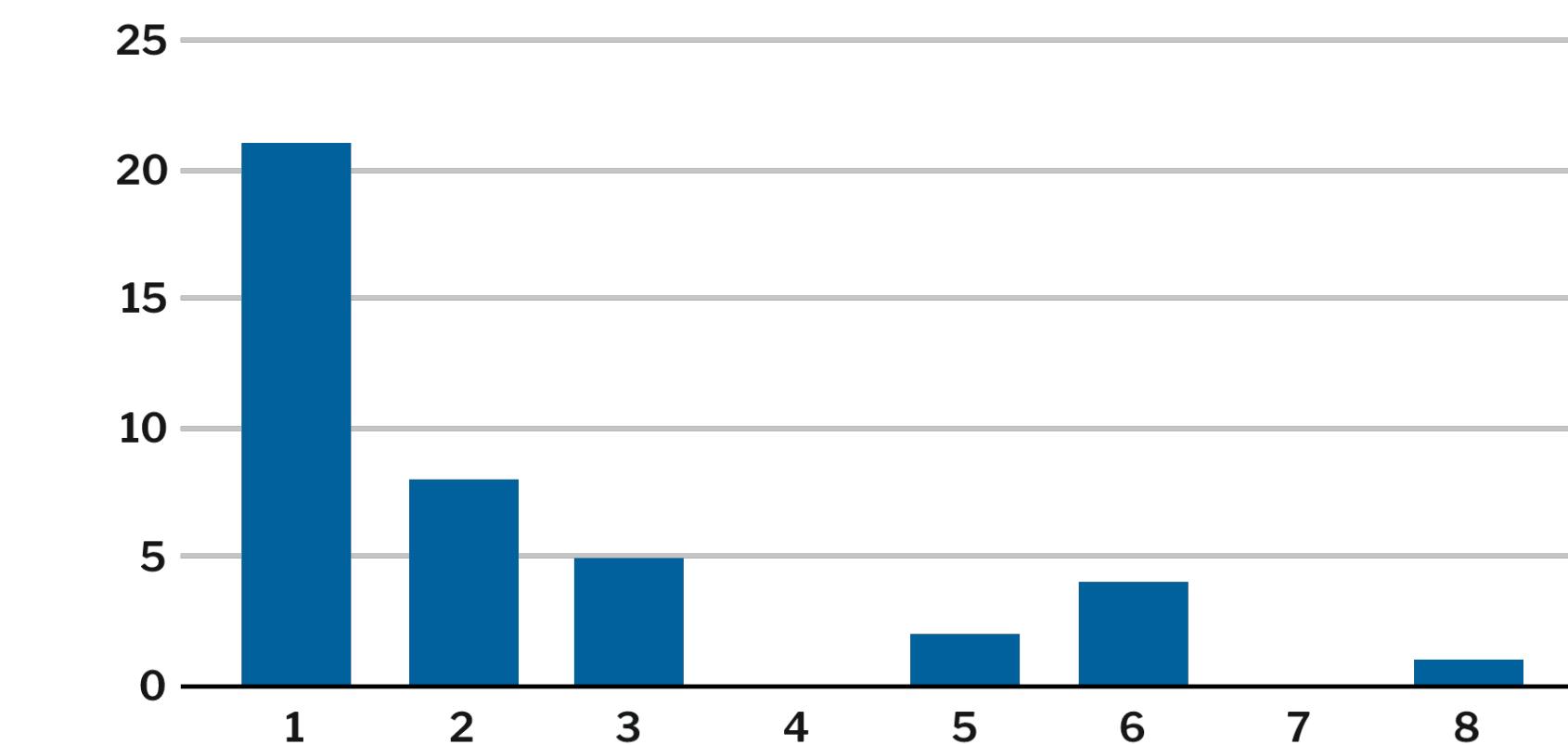
4

Actions Uni!

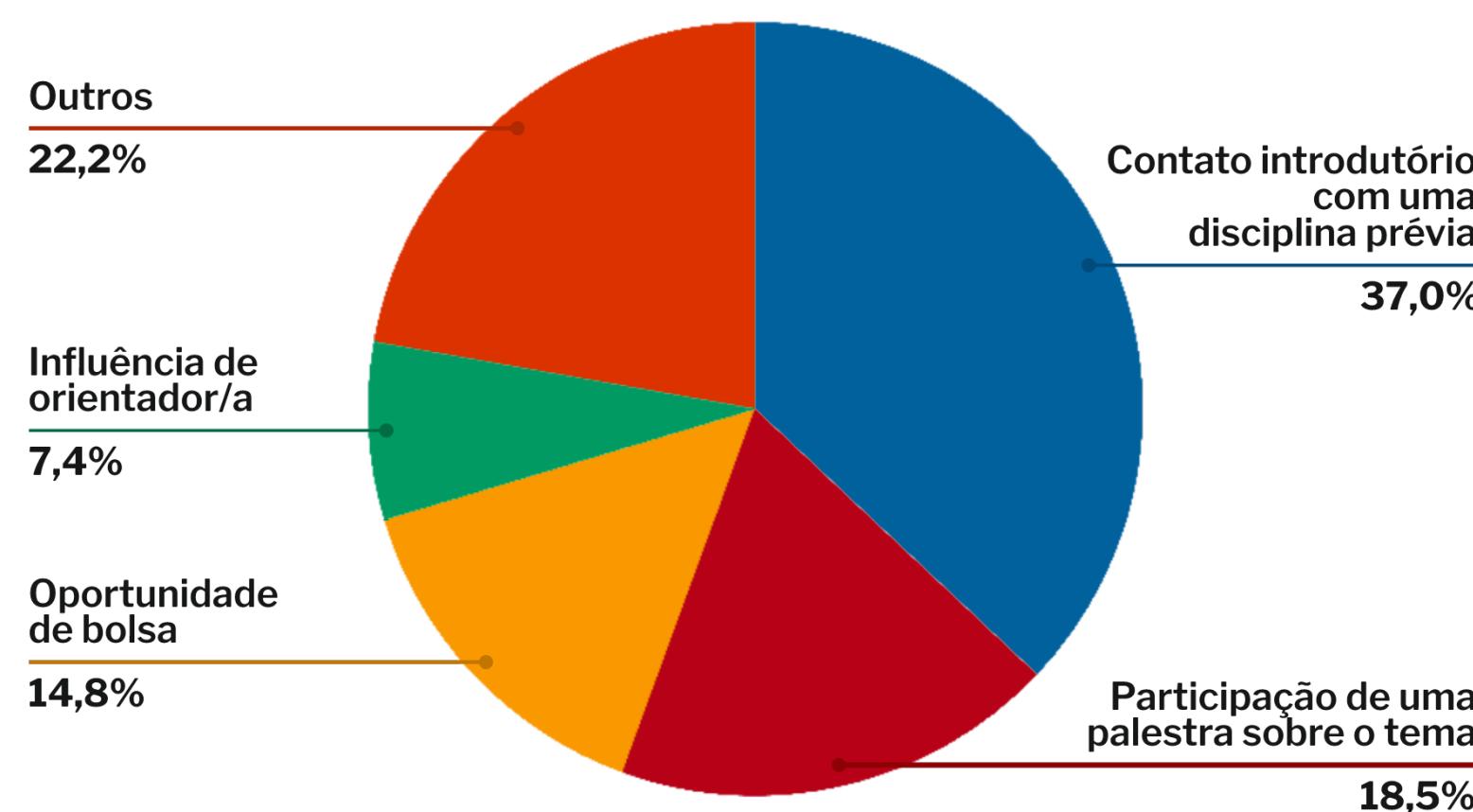
A case study



1st contact

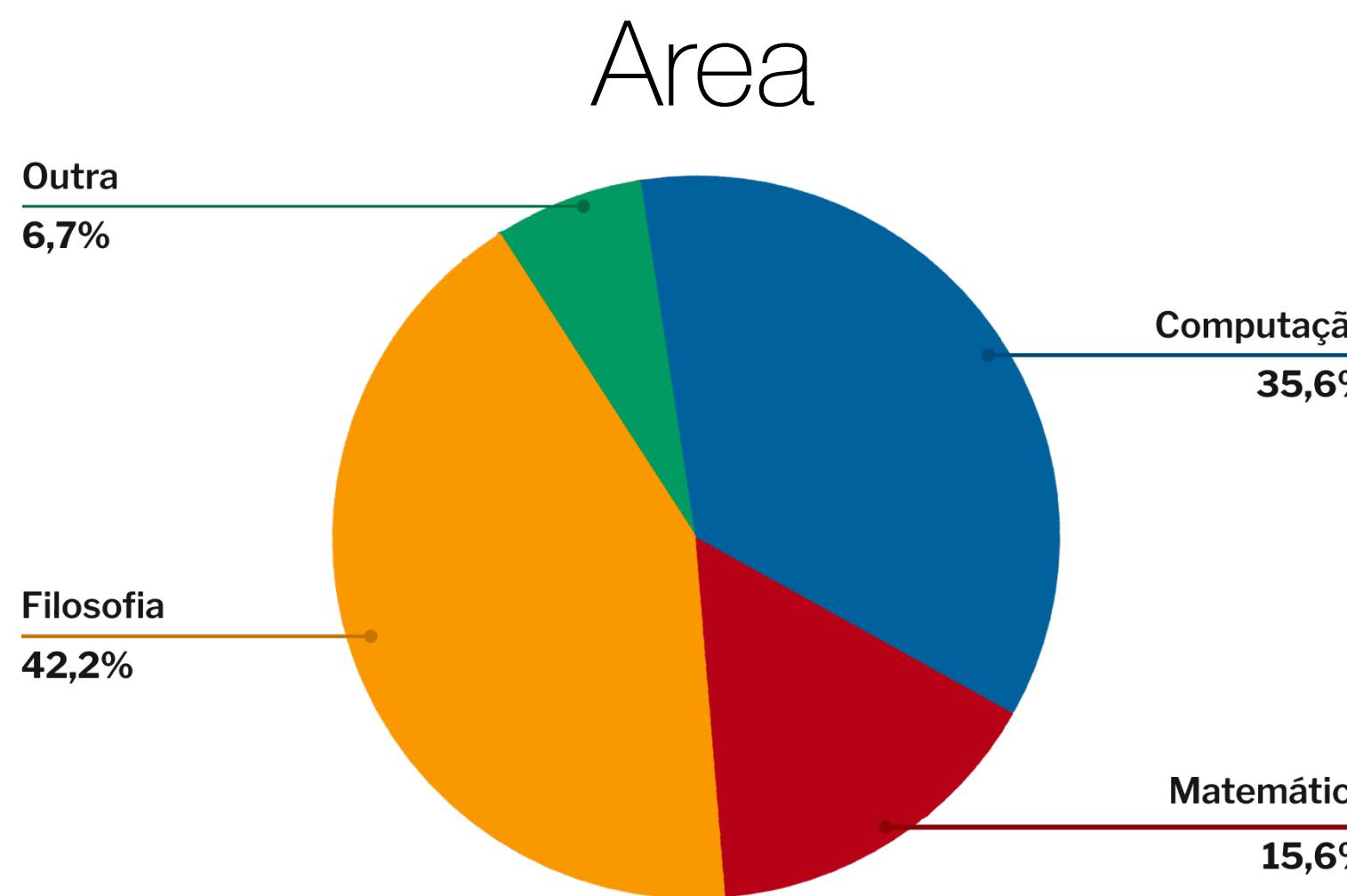


How?

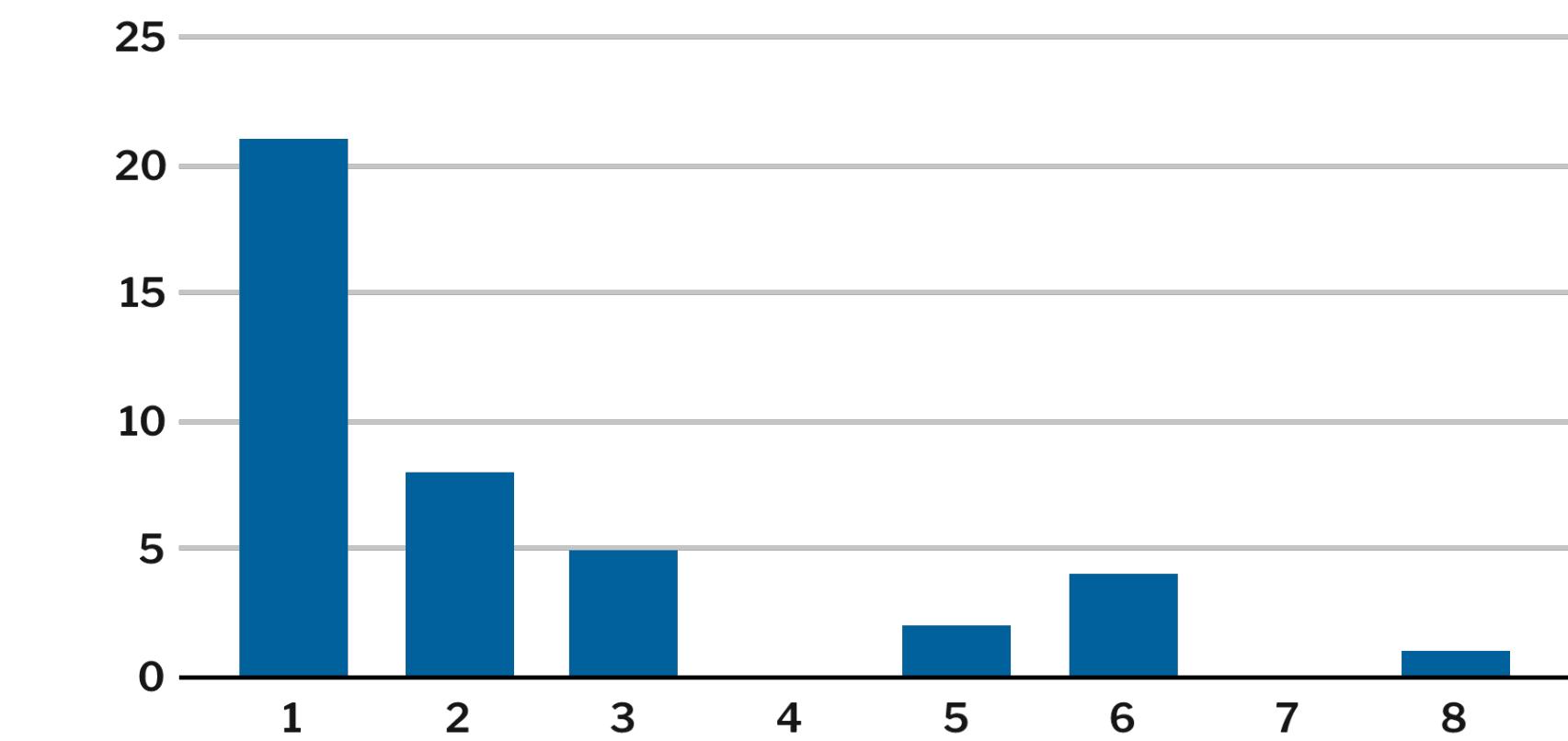


4 Actions Uni!

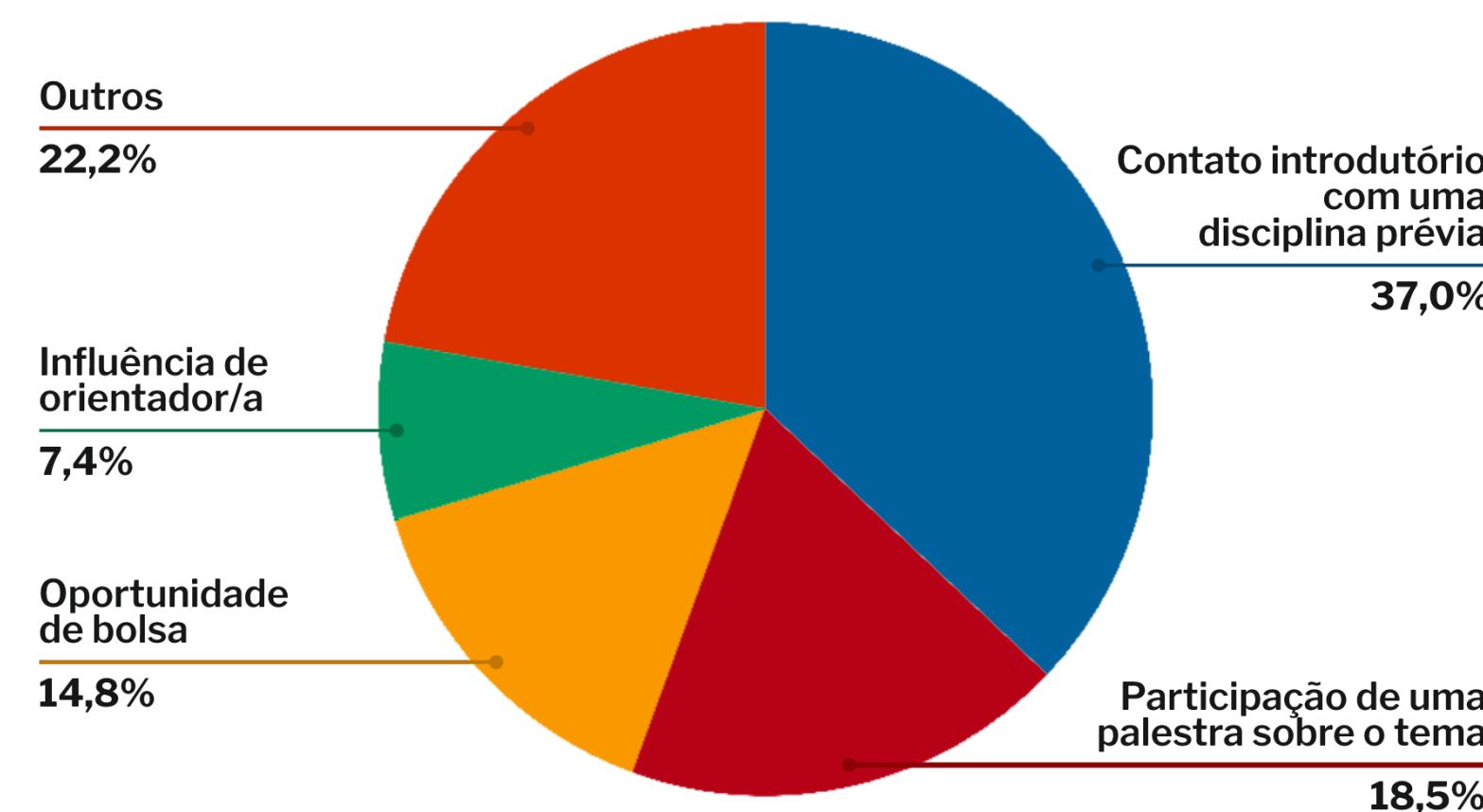
A case study



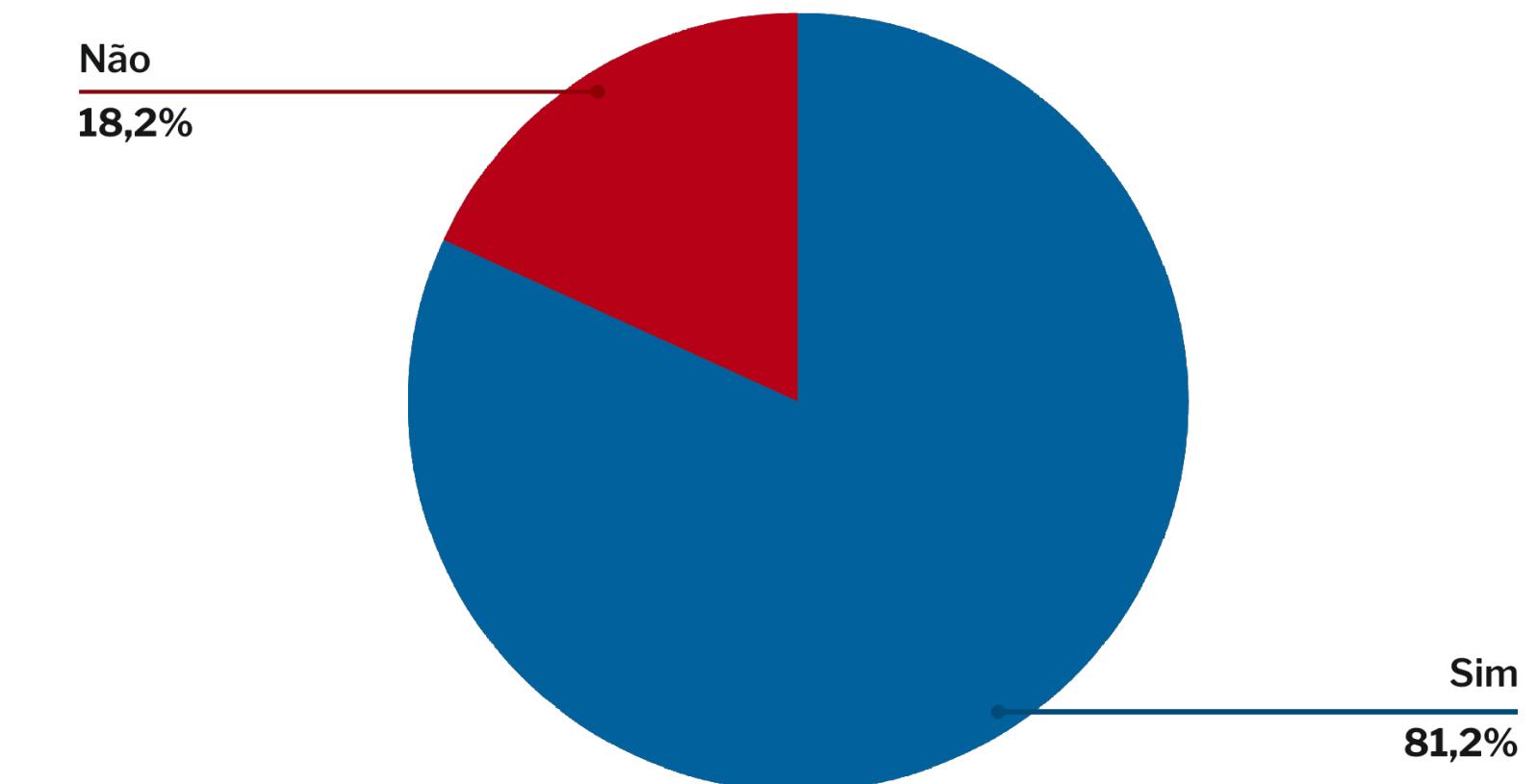
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How?

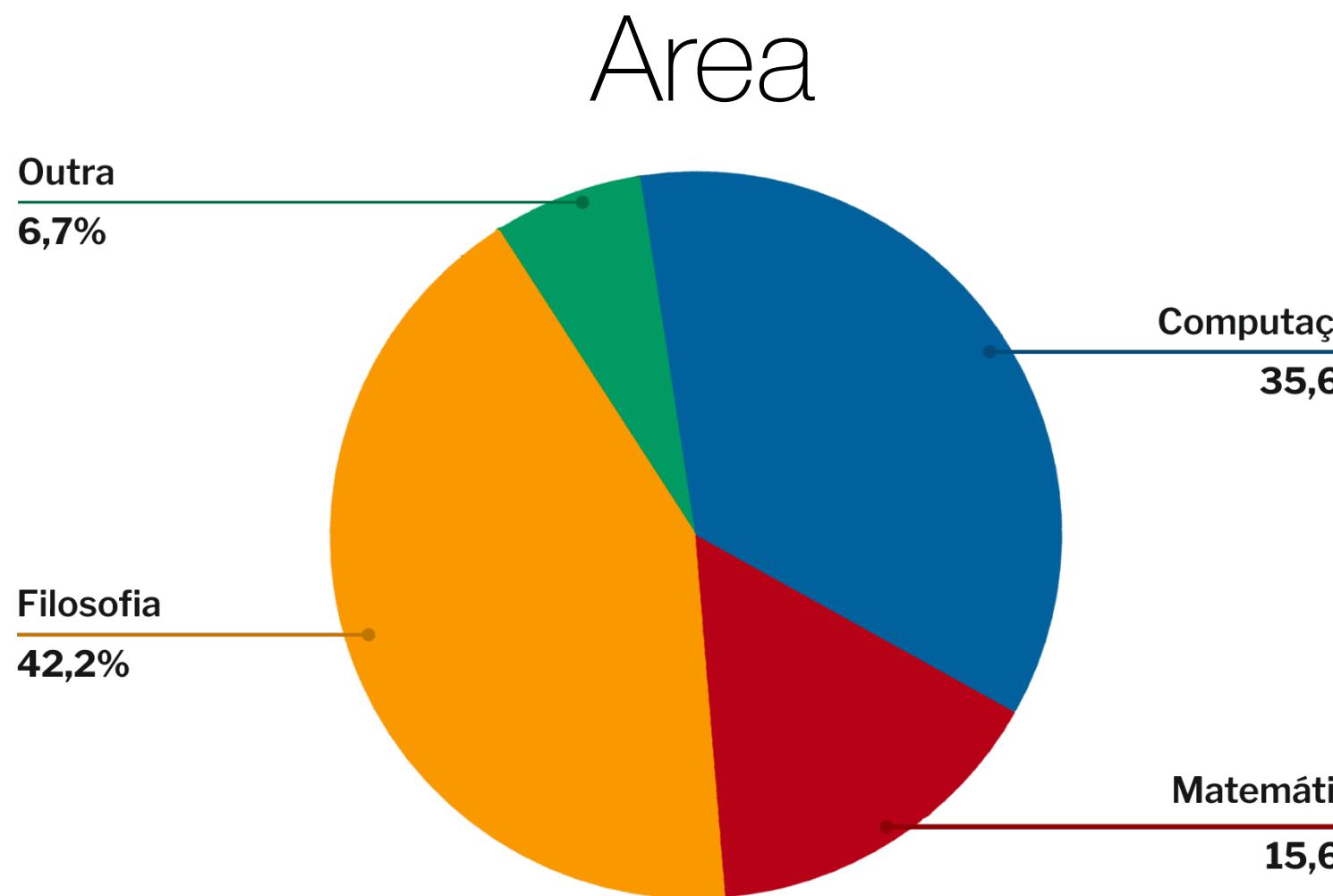


Will continue?



4 Actions Uni!

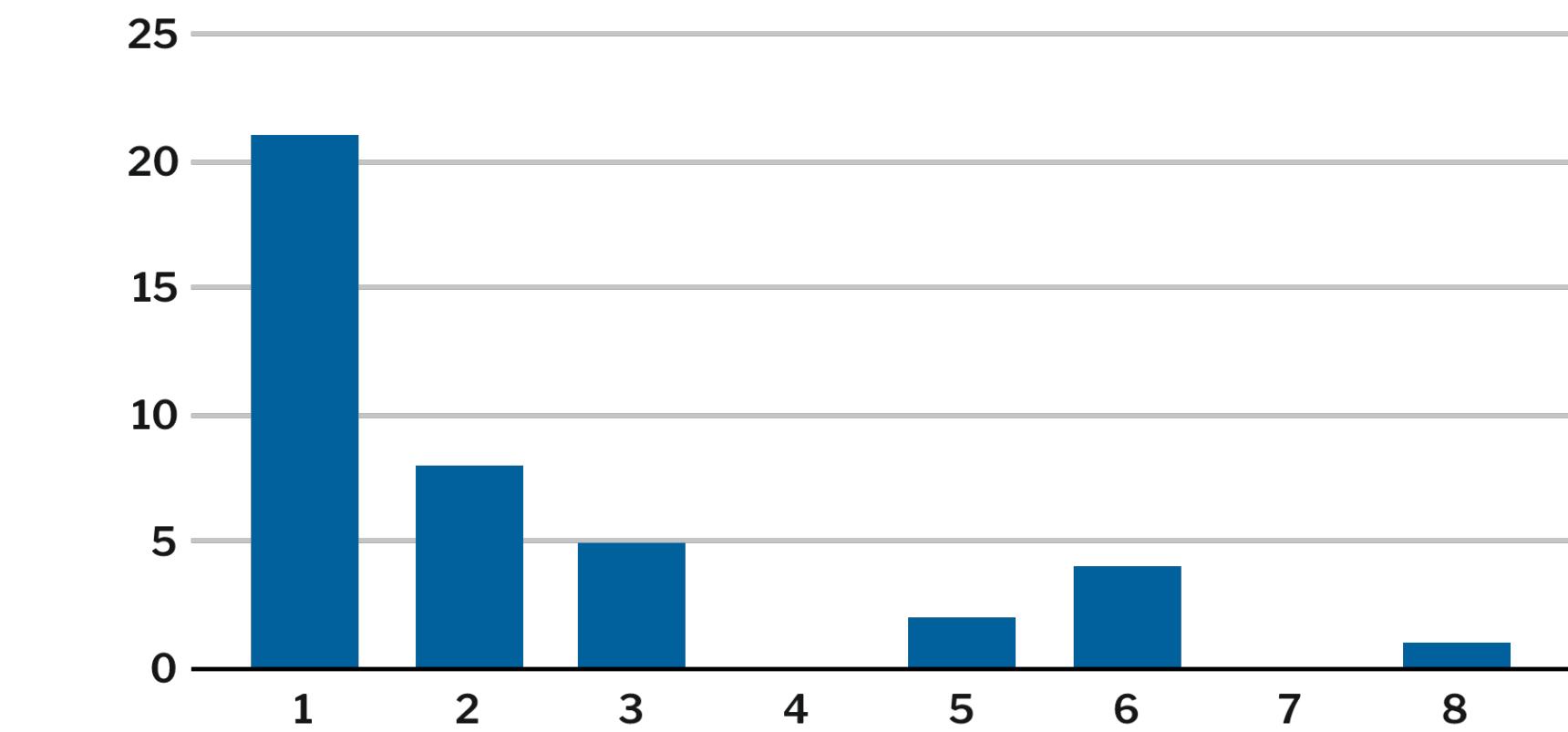
A case study



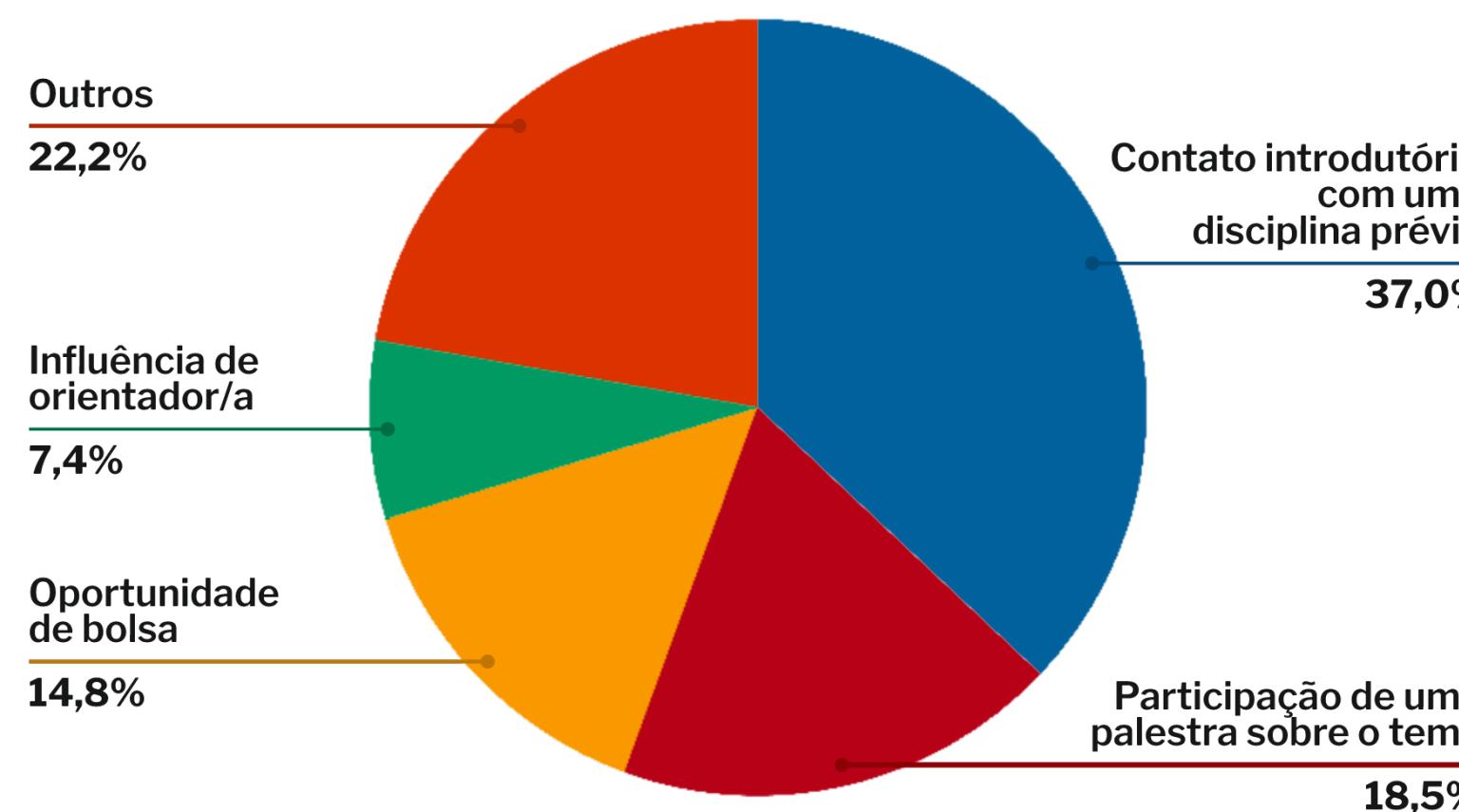
Really important!



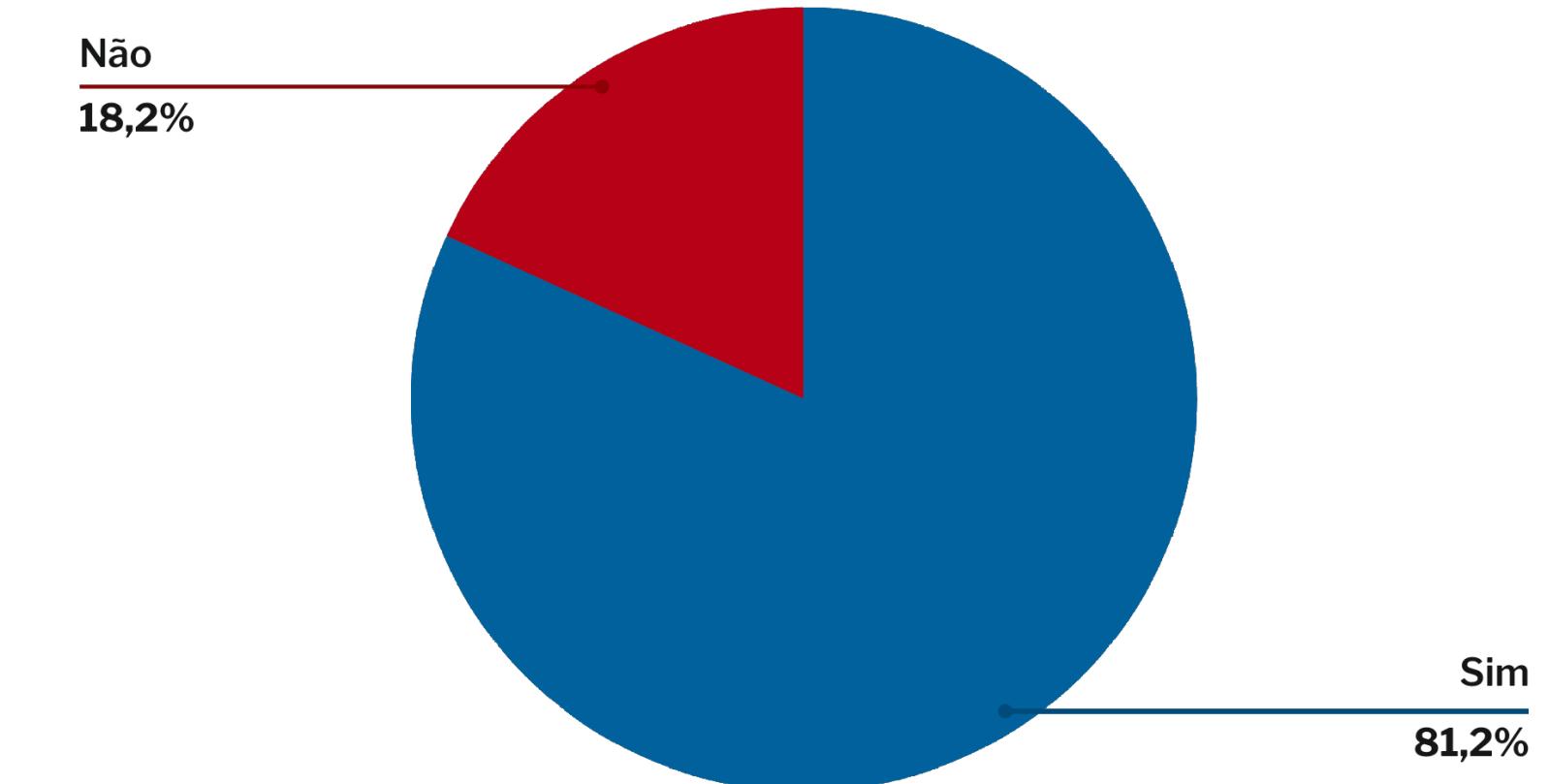
1st contact



How?



Will continue?



5 Actions Outreach!



Schools outreach:

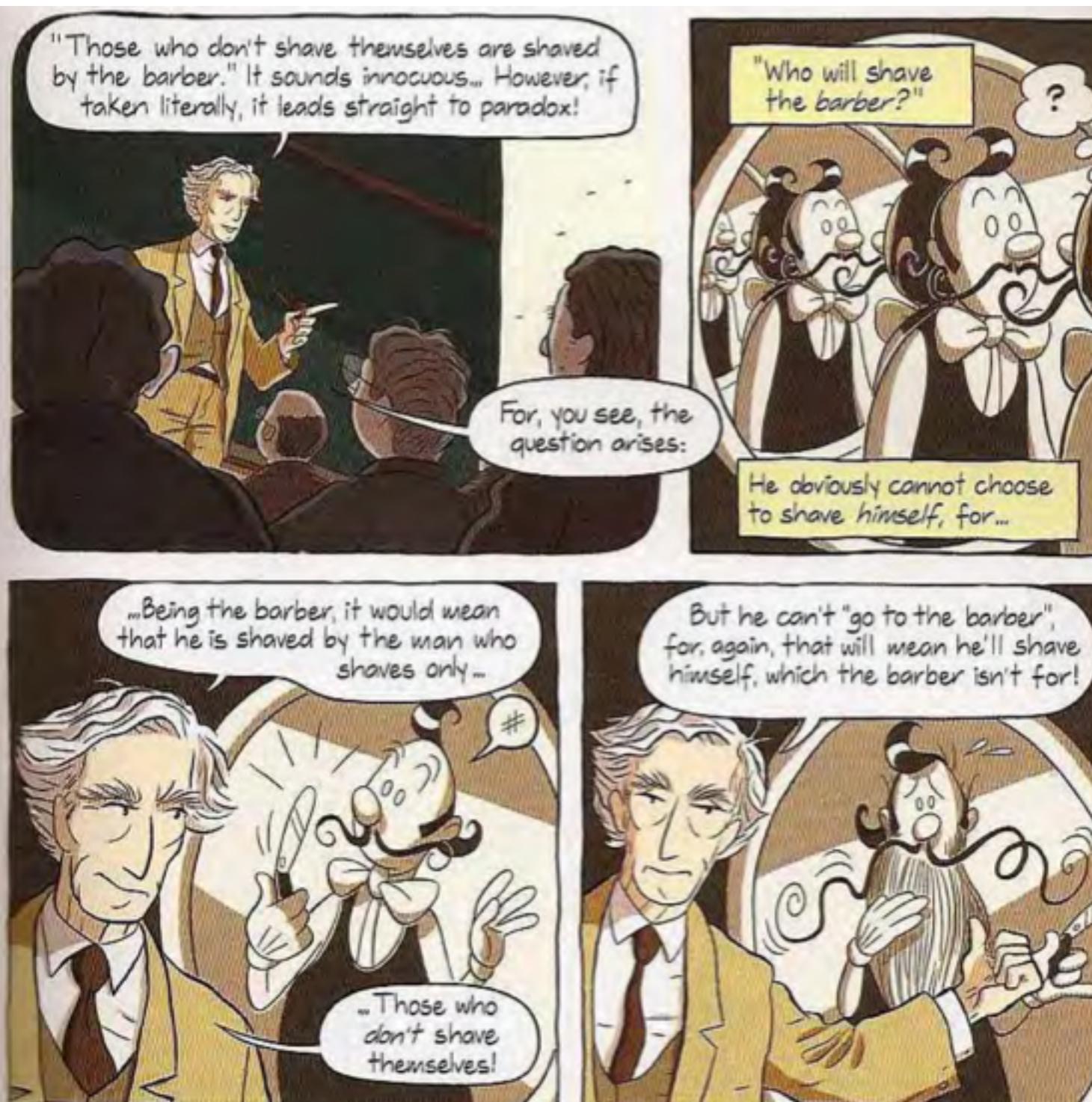
- visit schools
- show your lab
- fairs
- olympics ...



5

Actions Outreach!

Return to society



Logocomix

Fun activities on:

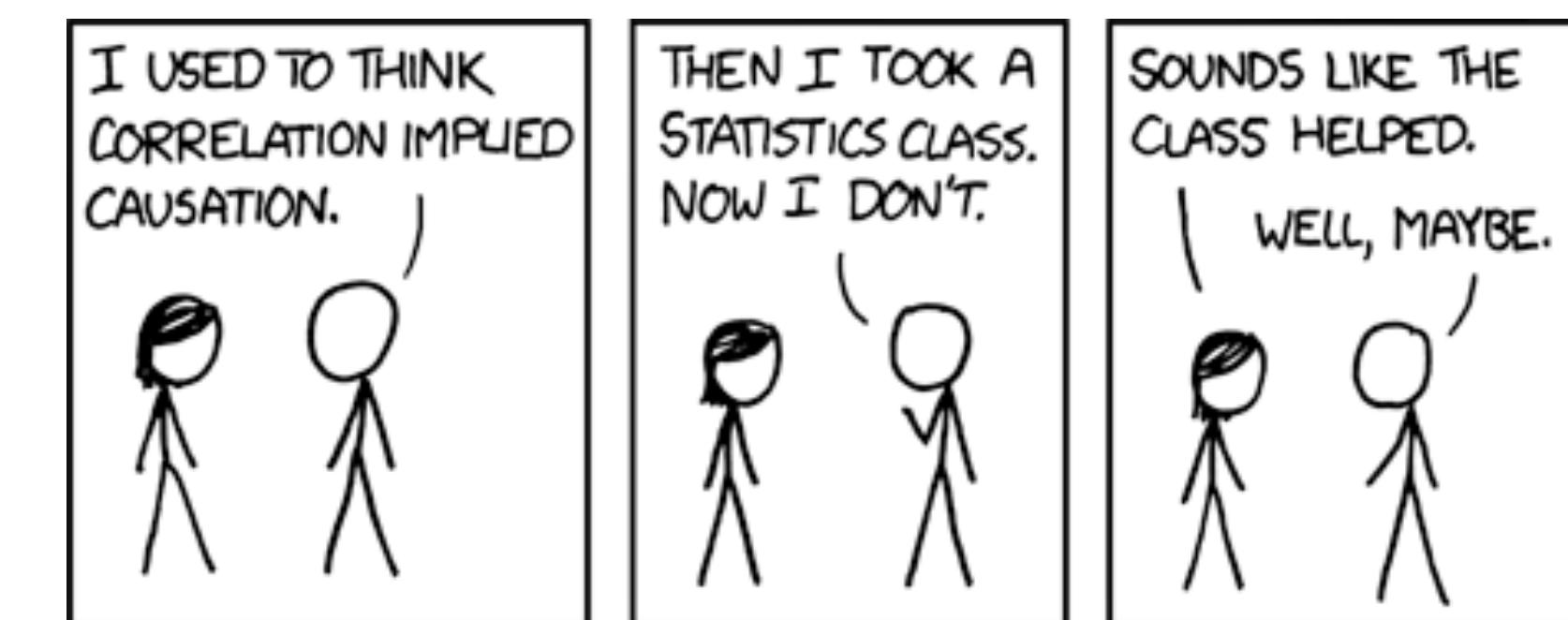
- Logical reasoning
- Fake news and fallacies
- Correlation vs causation...

Logic @ schools outreach!
There is **a lot** we can do!

The website features a banner at the top that reads "thou shalt not commit logical fallacies". Below the banner, there is a central illustration of three ancient philosophers (Plato, Socrates, Aristotle) sitting on a bench under a canopy labeled "PLATO SOCRATES ARISTOTLE". To the left of the philosophers is a grid of 12 icons representing various logical fallacies. To the right is another grid of 12 icons. The section title "appeal to emotion" is displayed, with a subtitle explaining: "Manipulating an emotional response in place of a valid or compelling argument." A descriptive text at the bottom explains what a logical fallacy is and provides a link to the website.

A logical fallacy is a flaw in reasoning. Logical fallacies are like tricks or illusions of thought, and they're often very sneakily used by politicians and the media to fool people. Don't be fooled! This website has been designed to help you identify and call out dodgy logic wherever it may raise its ugly, incoherent head. Rollover the icons above and click for examples. If you see someone committing a fallacy, link them to it e.g. yourlogicalfallacyis.com/strawman

[https://yourlogicalfallacyis.com/](http://yourlogicalfallacyis.com/)



[https://xkcd.com/](http://xkcd.com/)

5 Actions Outreach!



If you are an *academic*:

- Promote *outreach* in your university
- Participate on other's *outreach projects*
- Go to schools, talk to the *community*

5 Actions Outreach!



If you are an *academic*:

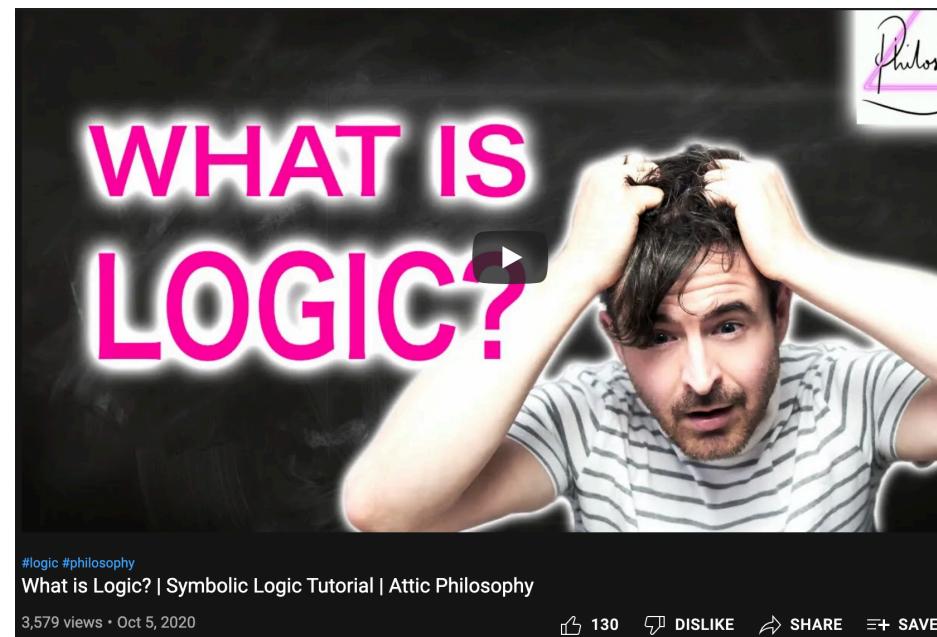
- Promote *outreach* in your university
- Participate on other's *outreach projects*
- Go to schools, talk to the *community*

If you are a *student*:

- Pressure your university for outreach activities
- Volunteer on *outreach projects*
- Share your experience, talk about your path
- Inspire others!

6 Actions Public engagement!

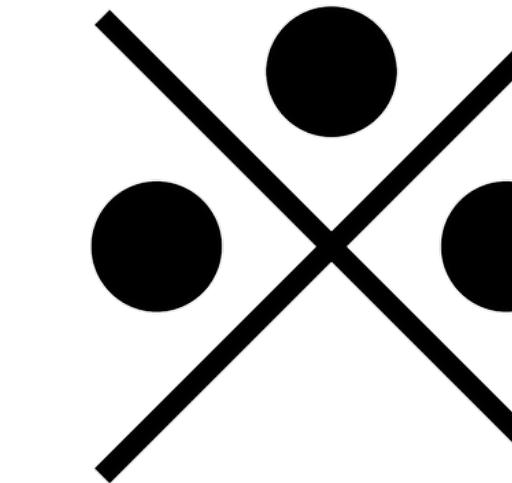
Concrete actions



Attic Philosophy
Mark Jago



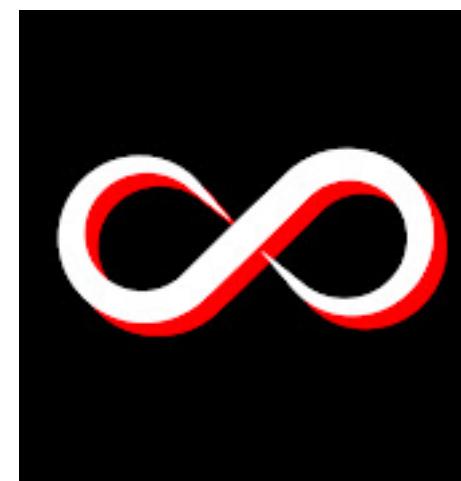
Dr. Logic
Sara Uckelman



Lógica MX
María Martinez-Ordaz et al.



Coletivo Lógica Viva
Marcos Silva et al.



Canal Ad Infinitum
Rodrigo Freire & Edgar Almeida



The Nordic Online Logic Seminar

The Proof Society



Australasian Association for Logic

The professional organisation for logicians in Australia and New Zealand, est. 1965

...

The difficult art of communicating logic!!

All we need is logic!!



Logic is the future!

Let's make it so!

Logic is the answer!

Thanks! Questions?



Credit: www