



HUSTEF

HUNGARIAN SOFTWARE TESTING FORUM

Let's talk about Ethics and Software Testing

My slides are available for you at

<https://bit.ly/hustef-ethics>

Tobias Geyer (he/him) - @the-qa-guy.bsky.social





Trans rights are human rights

Their body, their choice

**We can only progress as a society
if we prioritize the most vulnerable**

All statements and opinions presented during this talk are the personal opinions of the presenter and don't necessarily reflect those of his employer or other organizations.

Content warning: The talk contains examples of emotional manipulation, injury and death





- First Last
- Edit Profile

FAVORITES

- News Feed
- Messages
- Ads Manager
- Events 20+
- Saved 3

PAGES

- Lorem ipsum dolor 1
- Lorem ipsum dolor 20+
- Lorem ipsum dolor
- Lorem ipsum dolor
- Lorem ipsum dolor

GROUPS

- Lorem ipsum dolor 1
- Lorem ipsum dolor 20+
- Lorem ipsum dolor
- Lorem ipsum dolor
- Lorem ipsum dolor
- Lorem ipsum dolor

FRIENDS

- Lorem ipsum dolor 1
- Lorem ipsum dolor 20+
- Lorem ipsum dolor
- Lorem ipsum dolor
- Lorem ipsum dolor 1

APPS

Update Status

Add Photos/Video

Create Photo Album



What's on your mind?

Custom

Post

Suggested Post



First Last Lorem ipsum

Lorem ipsum dolor

Like Page

Lorem ipsum dolor sit amet, gravida enim in sollicitudin eleifend corporis. Ac etiam sit quam non libero, nec suspendisse nullam nonummy bibendum, aptent nunc phasellus, semper tortor ullamcorper wisi, blandit pulvinar

<https://Lorem ipsum dolor>



Lorem ipsum dolor sit amet, gravida enim in sollicitudin.

Lorem ipsum dolor sit amet, gravida enim in sollicitudin eleifend corporis. Ac etiam sit quam non libero, nec suspendisse nullam nonummy bibendum, aptent nunc phasellus, semper tortor

[Lorem ipsum dolor](#)

YOUR ADS

Lorem ipsum dolor sit ame 1

Tips for New Advertisers



Lorem ipsum dolor sit amet, ut quam nulla leo dolor interdum nullam, nunc nec vitae, nato

Get Started

This Week

138

Post Reach

13

People Engaged

Today's Results

Lorem ipsum dolor sit amet, ut quam nulla leo dolor interdum nullam, nunc nec vitae, natoque parturient urna vitae massa quisque nullam.

Ads Shortcuts

Lorem ipsum dolor at 7:30pm

Lorem ipsum dolor sit amet

TRENDING

Lorem ipsum dolor sit: amet, ut quam nulla leo dolor interdum nullam, nunc nec vitae, natoque parturient urna vitae.

Lorem ipsum dolor sit: amet, ut quam nulla leo dolor interdum nullam.

Lorem ipsum dolor sit: amet, ut quam nulla leo dolor interdum nullam, nunc nec vitae, natoque parturient urna vitae.

See More



First Last likes
Lorem ipsum dolor sit.



First Last likes
Lorem ipsum dolor sit amet magna elit bibendum nulla, facilisis gravida eleifend.



First Last likes
Lorem ipsum dolor sit.



First Last Web



First Last Web



First Last Mobile



First Last Mobile



First Last Web



First Last 00m



First Last 00m



First Last 00m



First Last 00m



First Last 00m



First Last 00m



First Last 00m



First Last 00m



First Last 00m



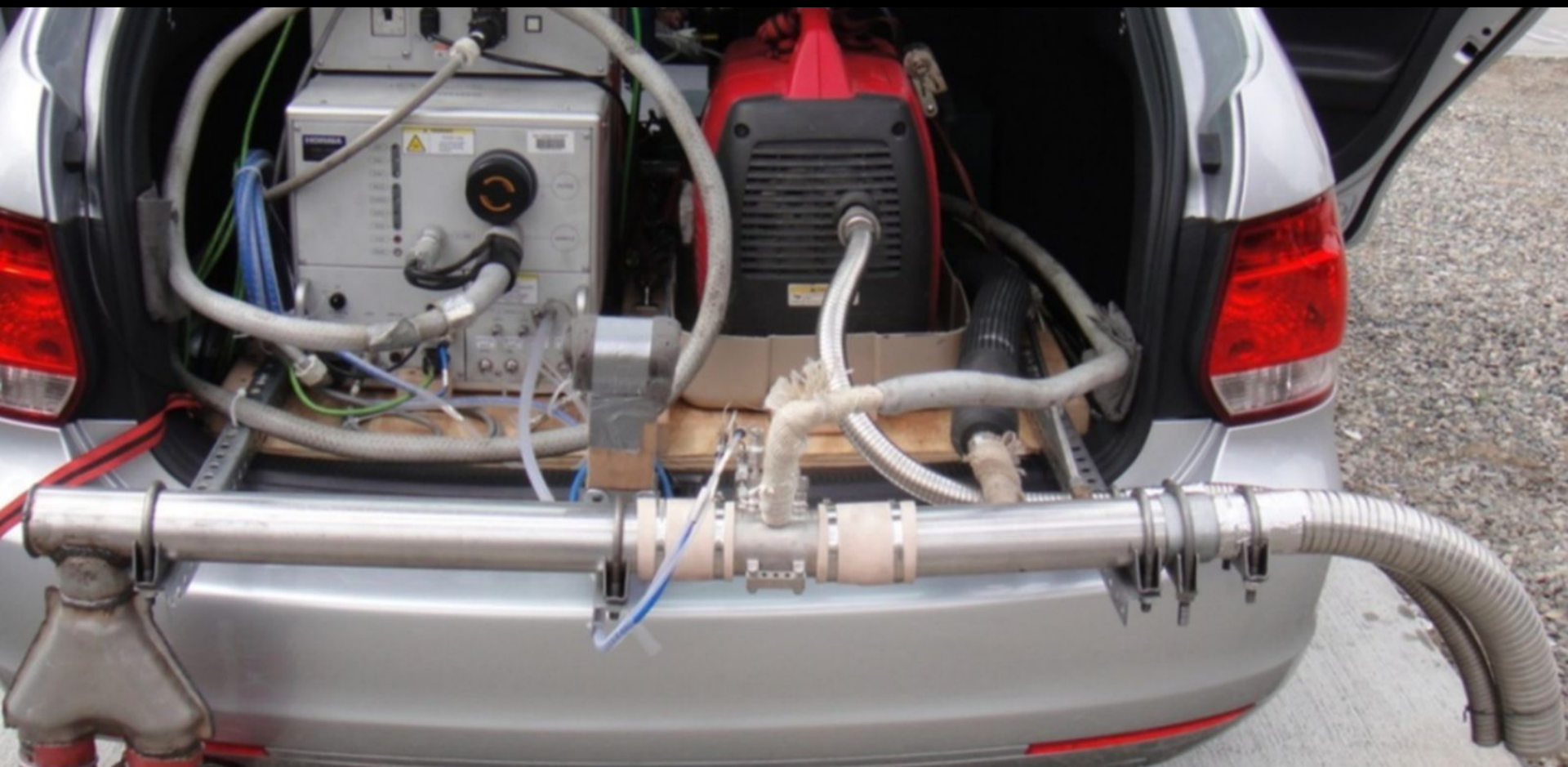
First Last 00m



First Last 00m



First Last 00m







© AIR AND SPACE FORCE

related to



Will Roper @WILLROP3R · 18. Okt.

Antwort an @WILLROP3R

IT'S OFFICIAL! Friday, the @usairforce updated code on a U-2 in flight thanks to #kubernetes. A big first for the U.S. military--edge AI, here we come!



Air Combat Command und 2 weitere Personen

24

179

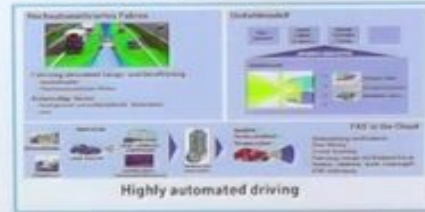
180



Commercial



MOST OF THE FUNCTIONS ARE REALIZED BY SOFTWARE ONLY !



Tobias Geyer @the_qa_guy · 4 Nov 2015

"in case of car accidents, the cloud decides if a broken knee is better than a broken arm" wait, what? #eclipsecon



1



Alex Schladebeck @alex_schl · 4 Nov 2015

@the_qa_guy don't wanna be the tester for that feature ;-)



Tobias Geyer @the_qa_guy · 4 Nov 2015

@alex_schl don't wanna be a developer for that feature! #ethics #eclipsecon



1



Alex Schladebeck @alex_schl · 4 Nov 2015

@the_qa_guy also true! Some interesting (also scary) things coming in the future for this area!



1



1





STOP

- 
- An open notebook with a dark cover is lying flat on a wooden surface. The left page is blank white paper. The right page is also white and contains a list of six criteria, each preceded by a hyphen. The text is in a bold, black, serif font. The notebook's spine is visible in the center, and a small red string is attached to the bottom edge of the right page.
- **Functionality**
 - **Reliability**
 - **Usability**
 - **Efficiency**
 - **Maintainability**
 - **Portability**

- IEEE Code of Ethics
- ACM Code of Ethics
- ISTQB Code of Ethics
- James Bach
 - “Thoughts Toward
The Ethics of Testing”





We, the members of the IEEE, in recognition of the importance of our technologies in affecting the quality of life throughout the world, and in accepting a personal obligation to our profession, its members and the communities we serve, do hereby commit ourselves to the highest ethical and professional conduct and agree:

1. to accept responsibility in making decisions consistent with the safety, health, and welfare of the public, and to disclose promptly factors that might endanger the public or the environment;
2. to avoid real or perceived conflicts of interest whenever possible, and to disclose them to affected parties when they do exist;
3. to be honest and realistic in stating claims or estimates based on available data;
4. to reject bribery in all its forms;
5. to improve the understanding of technology; its appropriate application, and potential consequences;
6. to maintain and improve our technical competence and to undertake technological tasks for others only if qualified by training or experience, or after full disclosure of pertinent limitations;
7. to seek, accept, and offer honest criticism of technical work, to acknowledge and correct errors, and to credit properly the contributions of others;
8. to treat fairly all persons and to not engage in acts of discrimination based on race, religion, gender, disability, age, national origin, sexual orientation, gender identity, or gender expression;
9. to avoid injuring others, their property, reputation, or employment by false or malicious action;
10. to assist colleagues and co-workers in their professional development and to support them in following this code of ethics.



A computing professional should...

1.1 Contribute to society and to human well-being, acknowledging that all people are stakeholders in computing.

This principle, which recognizes the benefits of the application of computing to society, requires computing professionals to use their skills to the betterment of society. This principle also recognizes fundamental human rights and the protection of the privacy of individuals. Computing professionals should be aware of the needs of diverse groups and should be able to resolve conflicts, the needs of which may be addressed by different means. Computing professionals should consider whether the results of their efforts will respect diversity, will be used in socially responsible ways, will meet social needs, and will be broadly accessible. They are encouraged to actively contribute to society by engaging in pro bono or volunteer work that benefits the public good.

In addition to a social responsibility, computing professionals have a professional responsibility to their employers, their clients, and the public.

1.2 Avoid harm. In this document, "harm" means negative consequences, especially when these consequences are significant and unjust. Examples of harm include unjustified physical or mental injury, unjustified destruction or disclosure of information, and unjustified damage to property, reputation, and the environment. Well-intended actions involving these that accomplish assigned duties may lead to harm. When that harm is unintended, those responsible are obliged to undo or mitigate the harm as much as possible. Avoiding harm begins with careful consideration of potential impacts on all those affected by decisions involving these that computing professionals are obligated to ensure that the harm is ethically justified. In either case, ensure that all harm is minimized.

To minimize the harm, computing professionals should follow generally accepted best practices unless there is a compelling ethical reason to do otherwise. Additionally, the consequences of data aggregation and emergent properties of systems should be carefully analyzed. Those involved with personal or infrastructure systems should also consider Principle 3.7.

A computing professional has an additional obligation to report any signs of system risks that might result in harm. If leaders do not act to curtail or mitigate such risks, it may be necessary to "blow the whistle" to reduce potential harm. However, capricious or misguided reporting of risks can itself be harmful. Reporting of risks should be based on a professional assessment of relevant aspects of the situation.

1.3 Be honest and trustworthy.

Honesty is an essential element of trust. Computing professionals should be forthright and provide full disclosure of all pertinent system capabilities, limitations, and potential problems to the appropriate parties. Making deliberately false or misleading claims, fabricating or falsifying data, offering or accepting bribes, and other dishonest conduct are violations of the Code.

Computing professionals should be forthright about their qualifications, and about any limitations in their competence to complete a task. Computing professionals should be forthright about any circumstances that might lead to either real or perceived conflicts of interest or otherwise tend to undermine the integrity of their assignments.

1.4 Be fair and take action not to discriminate.

The values of equality, tolerance, respect for others, and justice govern this principle. Fairness requires that even careful decision processes provide some avenue for redress of grievances.

Computing professionals should be open to the participation of all people, including those of diverse present groups. Prejudicial discrimination on the basis of age, color, disability, ethnicity, family status, gender identity, labor union membership, military status, nationality, race, religion or belief, sex, sexual orientation, or similar characteristics is prohibited. Computing professionals should ensure that all people have fair access to the virtual and physical spaces where they work and interact.

The use of information and technology may cause new, or enhance existing, inequities. Technologies and practices should be as inclusive and accessible as possible and computing professionals should take action to avoid creating systems or technologies that disenfranchise or oppress people. Failure to design for inclusiveness and accessibility may constitute unfair discrimination.

1.5 Respect the work required to produce new ideas, inventions, creative works, and computing artifacts.

Developing new ideas, inventions, creative works, and computing artifacts is a societal good. Computing professionals should respect the work required to produce these artifacts. This includes respecting copyrights, patents, trademarks, and other forms of intellectual property. Custom and the law recognize that some exceptions to a creator's control of a work are necessary for the public good. Computing professionals should not unduly oppose reasonable uses of their intellectual works. Efforts to help others by contributing time and energy to projects that help society illustrate a positive aspect of this principle. Such efforts include free and open source software and work put into the public domain. Computing professionals should not claim private ownership of work that they or others have shared as public resources.

1.6 Respect privacy. The responsibility of computing professionals in the various domains of their work is to understand the rights and responsibilities associated with the collection and use of personal information. Computing professionals should only use personal information for legitimate ends and without violating the rights of individuals and groups. This requires taking precautions to prevent re-identification of anonymized data or unauthorized data collection, ensuring the accuracy of data, understanding the potential for misuse, and protecting it from unauthorized access and accidental disclosure. Computing professionals should establish transparent policies and procedures that allow individuals to understand what data is being collected and how it is being used, to give informed consent for the collection and use of personal data.

1.6 Respect privacy.

Only the minimum amount of personal information should be collected, and retention periods for that information should be clearly defined, enforced, and communicated to data subjects. Personal information gathered for a specific purpose should not be used for other purposes without the person's consent. Merged data collections can compromise privacy features present in the original collections. Therefore, computing professionals should take special care for privacy when merging data collections.

1.7 Honor confidentiality.

Computing professionals often handle confidential information, including financial information, research data, pre-publication scholarly articles, and patent applications. Computing professionals should protect confidentiality except in cases where disclosure is required by law or where the disclosure of information should not be disclosed except to appropriate authorities. A computing professional should consider thoughtfully whether such disclosures are consistent with the Code.

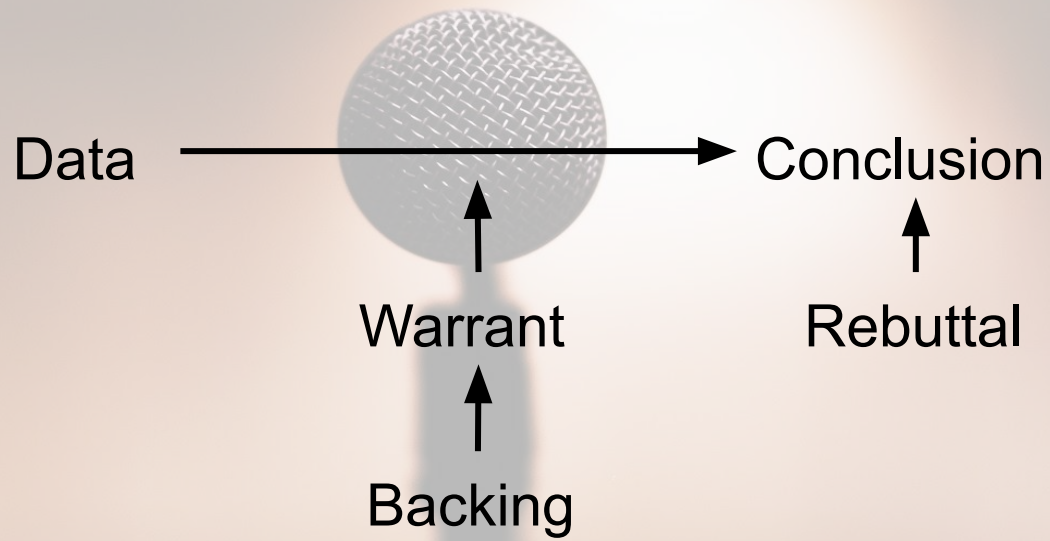
1.8 Honor confidentiality.

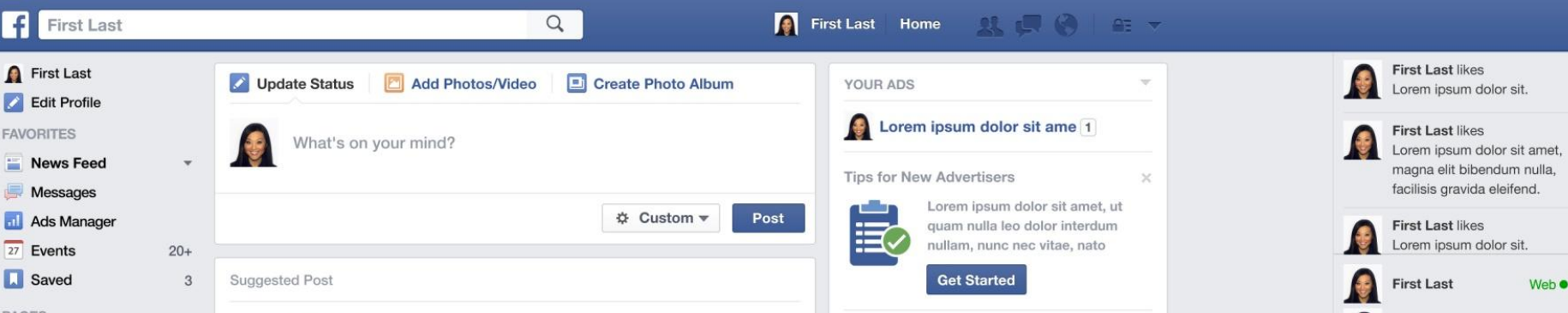
Recognizing the ACM and IEEE code of ethics for engineers, the ISTQB® states the following code of ethics:

- PUBLIC - Certified software testers shall act consistently with the public interest.
- CLIENT AND EMPLOYER - Certified software testers shall act in a manner that is in the best interests of their client and employer, consistent with the public interest.
- PRODUCT - Certified software testers shall ensure that the deliverables they provide (on the products and systems they test) meet the highest professional standards possible.
- JUDGMENT - Certified software testers shall maintain integrity and independence in their professional judgment.
- MANAGEMENT - Certified software test managers and leaders shall subscribe to and promote an ethical approach to the management of software testing.
- PROFESSION - Certified software testers shall advance the integrity and reputation of the profession consistent with the public interest.
- COLLEAGUES - Certified software testers shall be fair to and supportive of their colleagues, and promote cooperation with software developers.
- SELF - Certified software testers shall participate in lifelong learning regarding the practice of their profession and shall promote an ethical approach to the practice of the profession.



- Know what a test is. Avoid labeling an activity as a “test” unless it represents a sincere effort to discover a problem in a product.
- Maintain a reasonable impartiality. The purpose of testing is to cast light on the status of the product and its context, in the service of my clients. I may play multiple roles on a project, but my purpose, insofar as I am a tester, is not to design or improve the product.
- Do not claim to assure, ensure, or control quality. I don’t control anything about the product: a tester is a witness. In that capacity, I strive to assist the quality creation process.
- [...]





1.1 Contribute to society and human well-being.

This obligation includes promoting fundamental human rights and protecting each individual's right to autonomy.





1.1 Contribute to society and human well-being.

[...] human well-being requires a **safe natural environment**. Therefore, computing professionals should promote **environmental sustainability** both locally and globally.

1.3 Be honest and trustworthy.

Making deliberately **false or misleading claims**, fabricating or falsifying data, offering or accepting bribes, and other dishonest conduct **are violations of the Code**.

1.2 Avoid harm.

Computing professionals should follow **generally accepted best practices** unless there is a compelling ethical reason to do otherwise

1.3 Be honest and trustworthy.

A computing professional should be transparent and **provide full disclosure of** all pertinent system capabilities, limitations, and potential **problems** to the appropriate parties

1.2 Avoid harm.

Well-intended actions, including those that accomplish assigned duties, **may lead to harm.**

licenses are available, and donations are always welcome!

MOST OF THE FUNCTIONS ARE REALIZED BY SOFTWARE ONLY !



1.1 Contribute to society and human well-being.

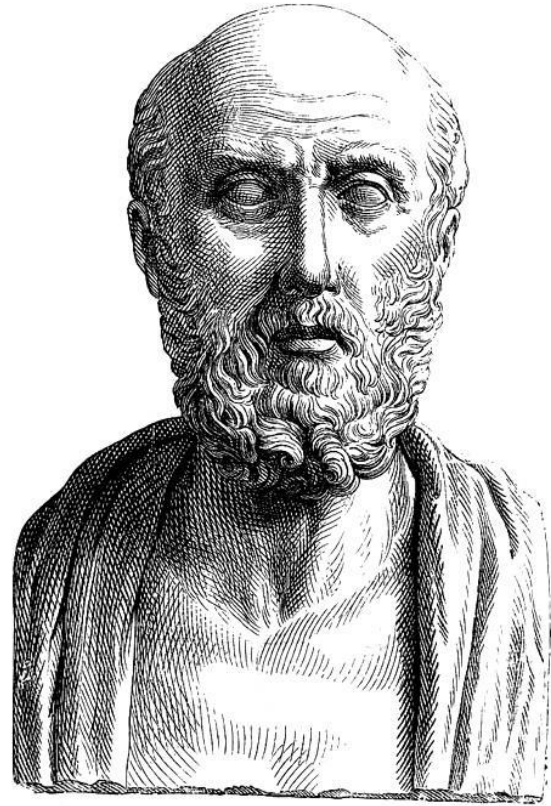
An essential aim of computing professionals is to minimize negative consequences of computing systems, including **threats to health and safety**.



A signpost with a dark grey vertical post. Two light blue directional signs are attached to the post. The top sign points to the right and contains the text 'Where do we'. The bottom sign points to the left and contains the text 'Go from here?'.

Where do we

Go from here?



Ethics are relevant for all of us

A man wearing a white t-shirt, black shorts, and a black cap is pushing a large, round hay bale in a field. The background shows rolling green hills under a clear blue sky. A large, semi-transparent white circle is overlaid on the right side of the image, containing text.

Inform yourself about ethics

Talk about ethics

Keep ethics and the toulmin schema in mind



HUSTEF

HUNGARIAN SOFTWARE TESTING FORUM

Questions?

Slides: <https://bit.ly/hustef-ethics>

Tobias Geyer - [@the-qa-guy.bsky.social](https://bsky.app/profile/the-qa-guy.bsky.social)

