

What does it mean to be a Moral Developer

Technology is neither
good nor bad; nor is it
neutral.

Kranzberg's First Law of Technology

THE HIPPOCRATIC OATH

I swear to fulfill, to the best of my ability and judgment, this covenant:

I will respect the hard-won scientific gains of those physicians in whose steps I walk, and gladly share such knowledge as is mine with those who are to follow.

I will apply, for the benefit of the sick, all measures [that] are required, avoiding those twin traps of overtreatment and therapeutic nihilism.

I will remember that there is art to medicine as well as science, and that warmth, sympathy, and understanding may outweigh the surgeon's knife or the chemist's drug.

I will not be ashamed to say "I know not," nor will I fail to call in my colleagues when the skills of another are needed for a patient's recovery.

I will respect the privacy of my patients, for their problems are not disclosed to me that the world may know. Most especially must I tread with care in matters of life and death. If it is given me to save a life, all thanks. But it may also be within my power to take a life; this awesome responsibility must be faced with great humbleness and awareness of my own frailty. Above all, I must not play at God.

I will remember that I do not treat a fever chart, a cancerous growth, but a sick human being, whose illness may affect the person's family and economic stability. My responsibility includes these related problems, if I am to care adequately for the sick.

I will prevent disease whenever I can, for prevention is preferable to cure.

I will protect the environment which sustains us, in the knowledge that the continuing health of ourselves and our societies is dependent on a healthy planet.

I will remember that I remain a member of society, with special obligations to all my fellow human beings, those sound of mind and body as well as the infirm.

If I do not violate this oath, may I enjoy life and art, respected while I live and remembered with affection thereafter. May I always act so as to preserve the finest traditions of my calling and may I long experience the joy of healing those who seek my help.

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THE ACM CODE OF ETHICS

General Ethical Principles

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

Avoid harm.

Be honest and trustworthy.

Be fair and take action not to discriminate.

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

Respect privacy.

Honor confidentiality.

<https://ethics.acm.org/code-of-ethics/>

THE ACM CODE OF ETHICS

Professional Responsibilities

Strive to achieve high quality in both the processes and products of professional work.

Maintain high standards of professional competence, conduct, and ethical practice.

Know and respect existing rules pertaining to professional work.

Accept and provide appropriate professional review.

Give comprehensive and thorough evaluations of computer systems and their impacts, including analysis of possible risks.

Perform work only in areas of competence.

Foster public awareness and understanding of computing, related technologies, and their consequences.

Access computing and communication resources only when authorized or when compelled by the public good.

Design and implement systems that are robustly and usably secure.

<https://ethics.acm.org/code-of-ethics/>

THE ACM CODE OF ETHICS

Professional Leadership Principles

Ensure that the public good is the central concern during all professional computing work.

Articulate, encourage acceptance of, and evaluate fulfillment of social responsibilities by members of the organization or group.

Manage personnel and resources to enhance the quality of working life.

Articulate, apply, and support policies and processes that reflect the principles of the Code.

Create opportunities for members of the organization or group to grow as professionals.

Use care when modifying or retiring systems.

Recognize and take special care of systems that become integrated into the infrastructure of society.

Compliance with the code

Uphold, promote, and respect the principles of the Code.

Treat violations of the Code as inconsistent with membership in the ACM.

<https://ethics.acm.org/code-of-ethics/>

THE IEEE CODE OF ETHICS

General Ethical Principles

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:

To hold paramount the safety, health, and welfare of the public, to strive to comply with ethical design and sustainable development practices, and to disclose promptly factors that might endanger the public or the environment;

To avoid real or perceived conflicts of interest whenever possible, and to disclose them to affected parties when they do exist;

To be honest and realistic in stating claims or estimates based on available data;

To reject bribery in all its forms;

To improve the understanding by individuals and society of the capabilities and societal implications of conventional and emerging technologies, including intelligent systems;

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;

To seek, accept, and offer honest criticism of technical work, to acknowledge and correct errors, and to credit properly the contributions of others;

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;

To avoid injuring others, their property, reputation, or employment by false or malicious action;

To assist colleagues and co-workers in their professional development and to support them in following this code of ethics.

<https://www.ieee.org/about/corporate/governance/p7-8.html>

Don't Be Evil

Google Code of Conduct

<https://abc.xyz/investor/other/google-code-of-conduct/>

PRIVACY AND SECURITY

Google Employees Resign in Protest Against Pentagon Contract



Kate Conger

5/14/18 6:00AM • Filed to: PROJECT MAVEN

497.6K

573

36

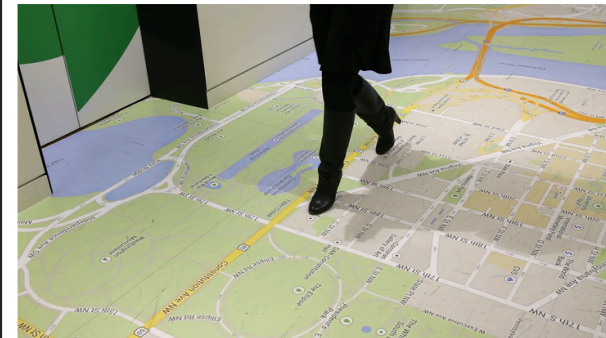


Photo: Mark Wilson (Getty)

<https://gizmodo.com/google-employees-resign-in-protest-against-pentagon-con-1825729300>

AUTOPILOT DEBATE

You are part of a team programing the autopilot feature for a self-driving car. Your team is debating the following scenario: the car comes around a corner to find a pedestrian in the middle of the road. To the left is oncoming traffic, to the right is a row of parked cars. What do you suggest?

- ▶ Suggest that it should steer to the right, potentially injuring or killing the passenger.
- ▶ Suggest that it should steer to the left, hitting oncoming traffic potentially killing passengers and the passengers of the oncoming car.
- ▶ Suggest that it should hit the pedestrian.
- ▶ Suggest that it is unsolvable and the accident avoidance features should be fine.

Why Uber's self-driving car killed a pedestrian

It was the first fatal accident of its kind



The Economist explains ›
May 29th 2018 | by T.S.

ALEX DAVIES

TRANSPORTATION 05.16.2018 05:46 PM

Tesla's Latest Autopilot Death Looks Just Like a Prior Crash

A Florida man was killed March 1 when his Tesla collided with a tractor trailer that was crossing its path. A government report says the Autopilot feature was activated.

Facebook data privacy scandal: A cheat sheet

by James Sanders | Dan Patterson
in Security 2h
on July 24, 2019, 8:52 AM PST

Read about the saga of Facebook's failures in ensuring privacy for user data, including how it relates to Cambridge Analytica, the GDPR, the Brexit campaign, and the 2016 US presidential election.

Psychology Today

Find a Therapist (City or Zip)



Michael W. Austin Ph.D.
Ethics for Everyone

Facebook Addiction?

Is Facebook harder to quit than smoking?

Posted Feb 20, 2012

The Switch - Perspective

I fell for Facebook fake news. Here's why millions of you did, too.

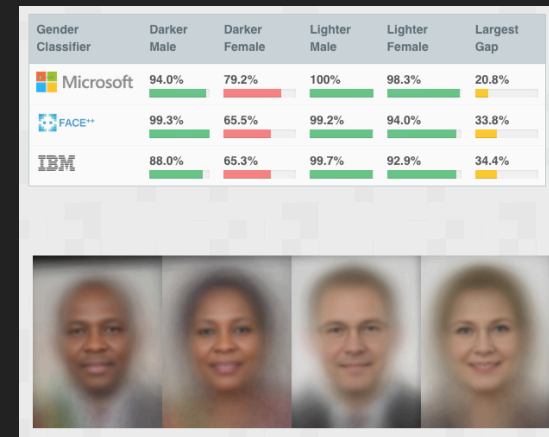
This crazy video is completely fake. Yet it's been watched 14 million times on Facebook — including by me. Here's why fake news is still a thriving business.



This computer-generated video, created by artist Aristomenis Tsirbas, found its way into a Facebook video viewed nearly 14 million times that falsely claimed to show a real plane landing. (MentThings Productions)

By Geoffrey A. Fowler
Technology columnist

GENDER SHADES



SUPPORTING INCLUSION

CHI 2018 Best Paper Award

CHI 2018, April 21–26, 2018, Montréal, QC, Canada

Gender Recognition or Gender Reductionism? The Social Implications of Automatic Gender Recognition Systems

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ABSTRACT

Automatic Gender Recognition (AGR) refers to various computational methods that aim to identify an individual's gender by extracting and analyzing features from images, video, and/or audio. Applications of AGR are increasingly being explored in domains such as security, marketing, and social robotics. However, little is known about stakeholders' perceptions and attitudes towards AGR and how this technology might disproportionately affect vulnerable communities. To begin to address these gaps, we interviewed 13 transgender individuals, including three transgender technology designers, about their perceptions and attitudes towards AGR. We found that transgender individuals have overwhelmingly negative attitudes towards AGR and fundamentally question whether it can accurately recognize such a subjective aspect of their identity. They raised concerns about privacy and potential harms that can result from being incorrectly gendered, or *misgendered*, by technology. We present a series of recommendations on how to accommodate gender diversity when designing new digital systems.

representations in technology. For example, social networks such as Facebook use information about users' gender for targeted marketing, a practice that potentially impacts millions of users worldwide [2].

Another outgrowth of this trend is the development of *automatic gender recognition (AGR)*, a class of algorithms that use various techniques, including facial recognition [27,32] and body recognition [6,45], to classify an individual's gender. While AGR technology is still in its infancy, the recent integration of facial recognition into already pervasive technologies suggest it could impact large numbers of people in the near future. As technologists continue to develop AGR applications, it is important to understand the social and ethical implications of widespread adoption. However, there has been little research into the perceptions and attitudes of end users about this emerging technology.

Gender is a complex concept with important roles both as a cultural construct and a core aspect of an individual's identity [5,40,52]. Research into gender is increasingly

SUPPORTING INCLUSION

Designing Forms for gender diversity and inclusion

Gender*
☐ Male ☐ Female

- ▶ Give people a really good reason for asking
- ▶ Make it private, safe, and anonymous
- ▶ Always make it optional
- ▶ Ask for pronouns instead
- ▶ Be ready for a complex answer
- ▶ Consider internationalization
- ▶ Just don't ask

Gender
Check one or more options that reflect your gender.

☐ woman

☐ man

☐ non-binary

☐ transgender

☐ intersex

☐ Two Spirit (see below for more information)

☐ gender non-conforming

☐ Other:

Sabrina Fonseca,

<https://uxdesign.cc/designing-forms-for-gender-diversity-and-inclusion-d8194cf1f51>

Don't Be Evil

Google Code of Conduct

<https://abc.xyz/investor/other/google-code-of-conduct/>

**More than “How do we DO NO
EVIL with technology?” We
ought to consider “How do we
DO GOOD?”**

Ge Wang, Artful Design