

# Women and Language Technology

*Malvina Nissim*  
*University of Groningen*



university of  
groningen

WiDS Ghent  
17 May 2024



@GroNLP

# Language Technology and Women

Language Technology  
*about* Women





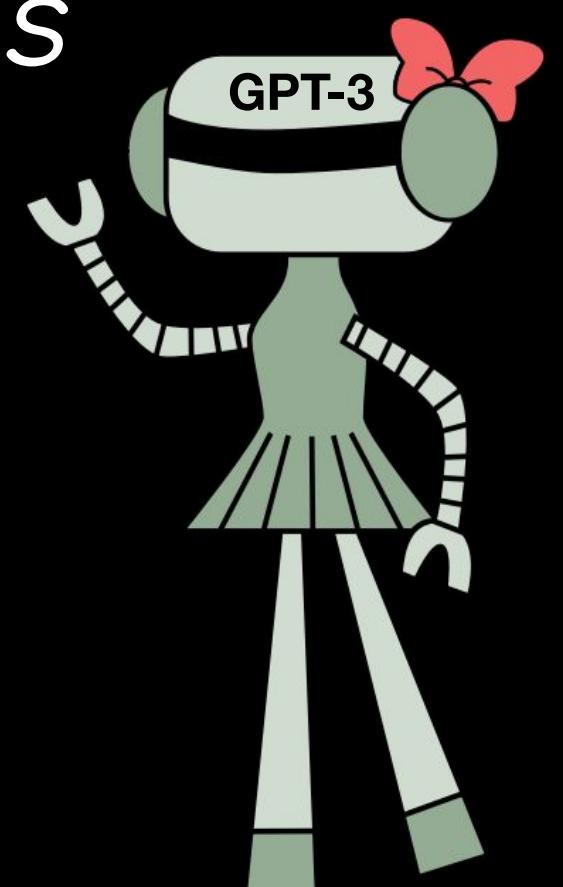
# Computational Linguist

*A computational linguist is someone who processes and analyses language data. They may develop algorithms and software for natural language processing tasks such as speech recognition or machine translation. They may also use computational methods to study the structure and the meaning of language.*



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# Man is to Doctor as Woman is to Nurse: the Gender Bias of Word Embeddings

Why we should worry about gender inequality in Natural Language Processing techniques



Tommaso Buonocore Mar 8, 2019 · 9 min read ★



## Man is to Computer Programmer as Woman is to Homemaker? Debiasing Word Embeddings

Tolga Bolukbasi<sup>1</sup>, Kai-Wei Chang<sup>2</sup>, James Zou<sup>2</sup>, Venkatesh Saligrama<sup>1,2</sup>, Adam Kalai<sup>2</sup>

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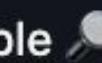
In Proceedings of the 57th Meeting of the Association for Computational Linguistics, 2019

## Black is to Criminal as Caucasian is to Police: Detecting and Removing Multiclass Bias in Word Embeddings

Thomas Manzini<sup>†\*</sup>, Yao Chong Lim<sup>‡\*</sup>, Yulia Tsvetkov<sup>‡</sup>, Alan W Black<sup>‡</sup>

Microsoft AI Development Acceleration Program<sup>†</sup>, Carnegie Mellon University<sup>‡</sup>  
Thomas.Manzini@microsoft.com, {yaochonl, ytsvetko, awb}@cs.cmu.edu



Craiyon Search available 

**Craiyon** v2

Free online AI image generator from text

What do you want to generate?



 Draw



Generated images will appear here!

*“a computational  
linguistics  
professor with long  
curly brown hair”*

*“a computational  
linguistics  
professor with long  
curly brown hair”*

December 2022



AI model drawing images from any prompt!

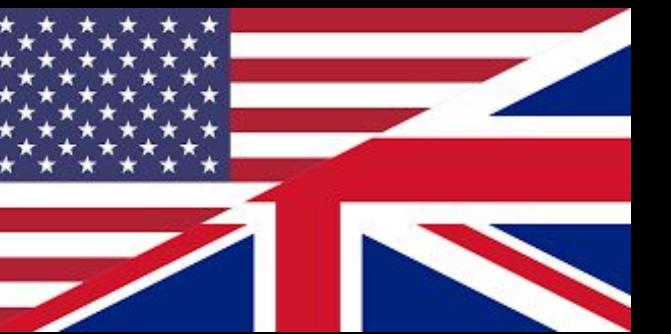
a computational linguistics professor with long curly brown hair



# Machine Translation



*I'm a professor*



# Machine Translation



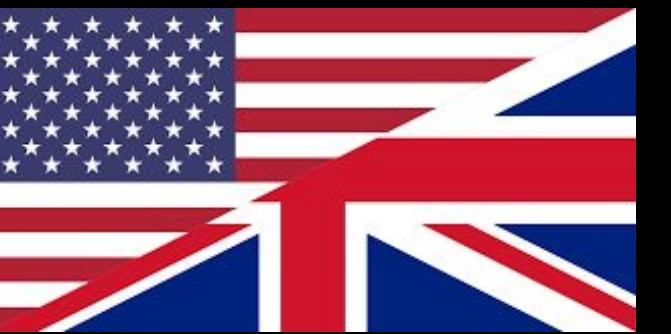
*I'm a professor*

>

*Sono una  
professoressa*



*Sono un  
professore*



# Machine Translation



*I'm a professor*



*Sono una  
professoressa*



>

*Sono un  
professore*



The screenshot shows a machine translation interface with two panels. The left panel has "ENGLISH" selected as the source language, with the input "I'm a professor". The right panel has "ITALIAN" selected as the target language, with the output "Sono un professore". A red oval highlights the word "un" in the Italian result, likely indicating a mistake or a specific point of interest. Both panels include icons for microphone, speaker, and sharing.

DETECT LANGUAGE ITALIAN ENGLISH SPANISH

I'm a professor

X ENGLISH DUTCH ITALIAN

Sono un professore

15 / 5,000

Microphone Speaker Share

# Machine Translation



# *I'm a professor*



The image shows two side-by-side translation windows from Microsoft Translator. The left window has 'ENGLISH' as the source language and 'ITALIAN' as the target language. It displays the sentence 'I'm a professor'. The right window has 'ITALIAN' as the source language and 'ENGLISH' as the target language. It displays the sentence 'Sono un professore'. A red circle highlights the Italian input field 'Sono un professore' in the right window. Below the input fields, both windows show a list of suggested translations in the target language. The right window's suggestions are: 'Sono un professore', 'I am a professor', 'io sono un professore', and 'I am a professor'. The user interface includes standard controls like detect language, dropdown menus, and sharing options.

# Machine Translation



*I'm a professor*



*Sono una  
professoressa*



>

*Sono un  
professore*



DETECT LANGUAGE ITALIAN ENGLISH SPANISH ▾

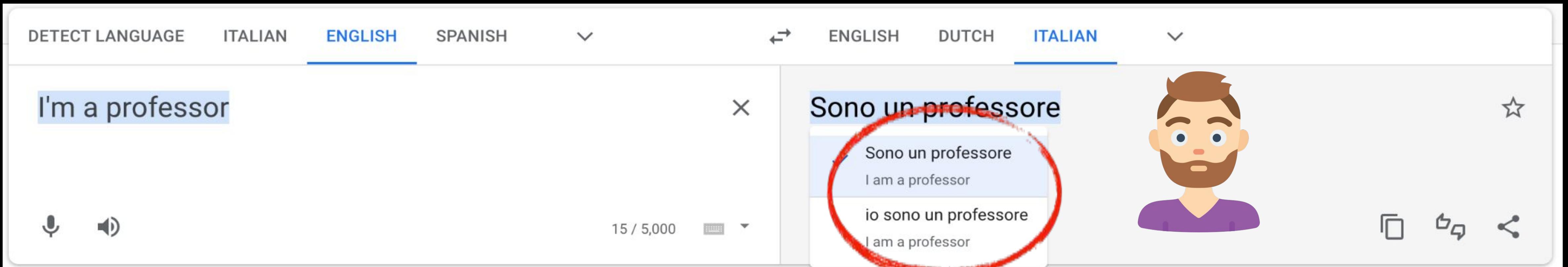
ENGLISH DUTCH ITALIAN ▾

I'm a professor

Sono un professore

Sono un professore  
I am a professor

io sono un professore  
I am a professor



# Machine Translation



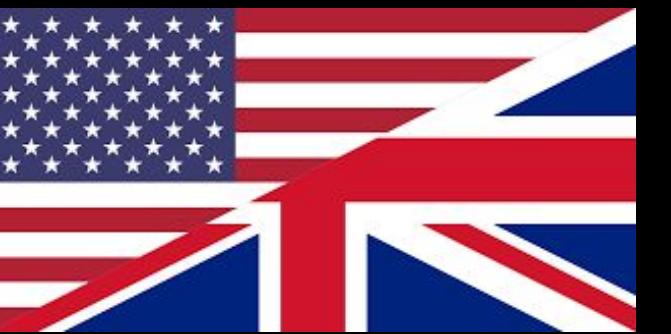
*I'm a professor*



*Sono una  
professoressa*



*Sono un  
professore*



DETECT LANGUAGE ITALIAN ENGLISH SPANISH ▾

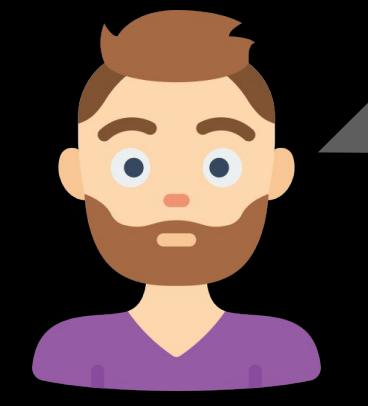
Malvina is a professor X

Microphone icon, Speaker icon, 22 / 5,000, Keyboard icon ▾

# Machine Translation



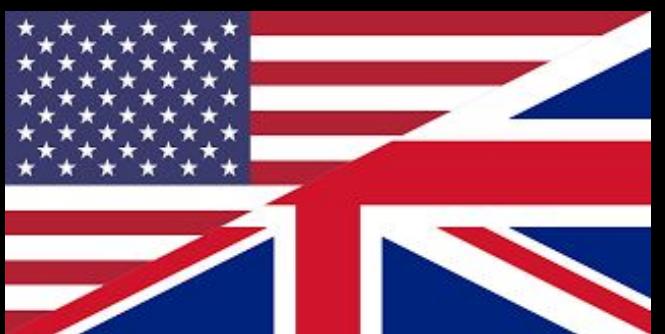
*I'm a professor*



*Sono una  
professoressa*



*Sono un  
professore*



DETECT LANGUAGE ITALIAN ENGLISH SPANISH ▾

ENGLISH DUTCH ITALIAN ▾

Malvina is a professor

Malvina è una professoressa

22 / 5,000

☆

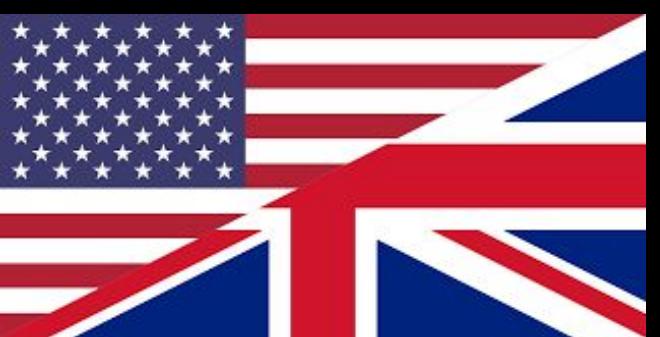
Microphone icon, Speaker icon, Red circle around "professoressa", Share icon, Like icon, Print icon.

A screenshot of a machine translation interface. It shows two language detection dropdowns at the top: one for Detect Language with options English, Italian, Spanish, and another for the target language with options English, Dutch, and Italian. Below these are two text input fields. The left field contains the English sentence "Malvina is a professor". The right field contains the translated Italian sentence "Malvina è una professoressa", with the word "professoressa" circled in red. At the bottom of each field are various interaction icons like microphone, speaker, and share.

# Machine Translation



# *I'm a professor*



The screenshot shows the Google Translate interface. On the left, the source text "Malvina is a professor" is entered, with "ENGLISH" selected as the source language. On the right, the target language is set to "ITALIAN". The translated output "Malvina è una professoressa" is displayed. Below the translation, a dropdown menu lists four alternative translations: "Malvina è una professoressa", "Malvina is a teacher" (underlined in red), "Malvina è professore", and "Malvina is a professor". A large red circle highlights the second option in the dropdown. At the bottom right, there is a cartoon illustration of a woman with dark hair and a teal top, along with sharing and like icons.

# Machine Translation



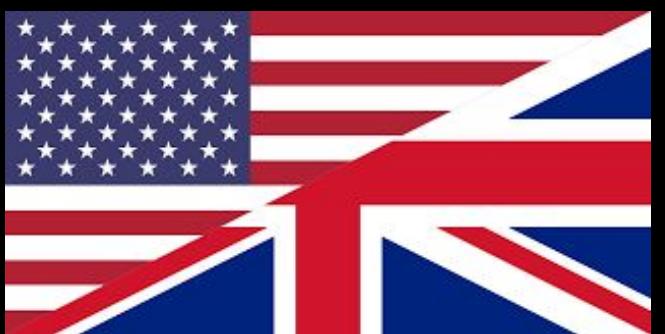
*I'm a professor*



*Sono una  
professoressa*



*Sono un  
professore*



DETECT LANGUAGE   ITALIAN   **ENGLISH**   SPANISH   < >   ENGLISH   DUTCH   **ITALIAN**   < >

Malvina is an associate professor   ×   Malvina è **professore associato**

33 / 5,000   🔍   ⚡   ⌂   ⌂   ⌂

Speaker icon   Microphone icon   33 / 5,000   Keyboard icon   ⚡   ⌂   ⌂   ⌂

Red oval highlights the word "professore" in the Italian translation.

Star icon   Share icon   Print icon   Like icon   Share icon

# Machine Translation



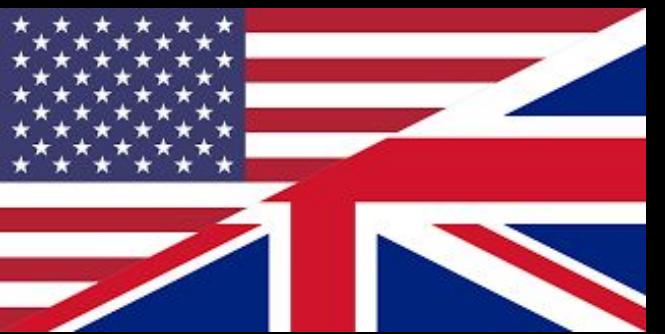
*I'm a professor*



*Sono una  
professoressa*



*Sono un  
professore*



DETECT LANGUAGE ITALIAN ENGLISH SPANISH ▾

ENGLISH DUTCH ITALIAN ▾

Malvina is an associate professor

Malvina è professore associato

Malvina e professore associato  
Malvina is an associate professor  
Malvina è una professoressa associata  
Malvina is an associate professor

33 / 5,000

☆

Microphone icon Speaker icon

Red circle highlighting the first two translation suggestions: "Malvina e professore associato" and "Malvina is an associate professor".

Male and female user icons with speech bubbles.

# Machine Translation



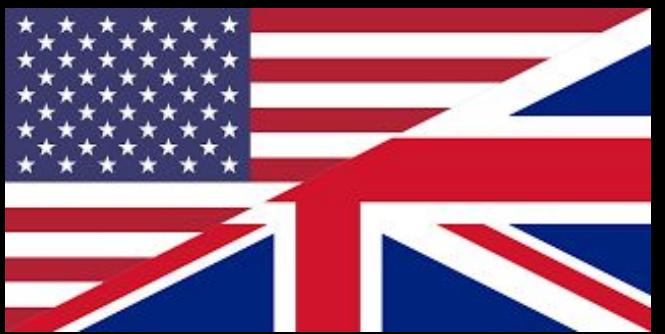
*I'm a professor*



*Sono una  
professoressa*



*Sono un  
professore*



DETECT LANGUAGE   ITALIAN   **ENGLISH**   SPANISH   ▾   ↔ ITALIAN

Malvina is a full professor   ×   Malvina è professore ordinario

professore ordinario

Microphone icon   Speaker icon   27 / 5,000   Keyboard icon   Sound icon      ☆   □   ↗   ↘   ⚡

# Machine Translation



# *I'm a professor*



The screenshot shows a language translation interface with two main panels. The left panel has source text "Malvina is a full professor" and target text "Malvina è professore ordinario". The right panel has source text "Malvina è professore ordinario" and target text "Malvina is a full professor". A red circle highlights the Italian phrase "Malvina è professore ordinario" in the right panel's list. Below the panels are icons for microphone, speaker, keyboard, and navigation.

DETECT LANGUAGE ITALIAN ENGLISH SPANISH ▾

ENGLISH DUTCH ITALIAN ▾

Malvina is a full professor

Malvina è professore ordinario

✓ Malvina è professore ordinario  
Malvina is a full professor

Malvina è un professore ordinario  
Malvina is a full professor

# Machine Translation

≡ Google Translate

Text Documents

HUNGARIAN - DETECTED ENGLISH SPANISH FRENCH

Ő szép. Ő okos. Ő olvas. Ő mosogat. Ő épít. Ő varr. Ő tanít. Ő főz. Ő kutat. Ő gyereket nevel. Ő zenél. Ő takarító. Ő politikus. Ő sok pénzt keres. Ő süteményt süt. Ő professzor. Ő asszisztens.

Menj a picsába, Google.



she



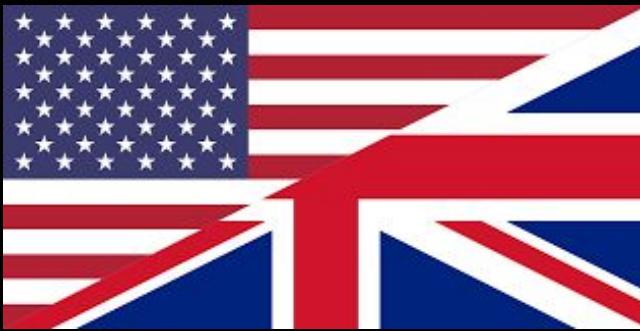
he



# Machine Translation

The image shows a screenshot of the Google Translate web interface. The source language is set to HUNGARIAN - DETECTED, and the target language is set to ENGLISH. The input text is a list of Hungarian sentences followed by a closing statement. The English translations show a clear bias towards male gender roles. The UI includes a red bar at the top, a green bar below it, and tabs for 'Text' and 'Documents'.

Ű szép. Ű okos. Ű olvas. Ű mosogat. Ű épít. Ű varr. Ű tanít. Ű főz. Ű kutat. Ű gyereket nevel. Ű zenél. Ű takarító. Ű politikus. Ű sok pénzt keres. Ű süteményt süt. Ű professzor. Ű asszisztens.  
Menj a picsába, Google.



*cooks  
is clever  
raises a child  
is a professor  
is a cleaner*

...

# Machine Translation

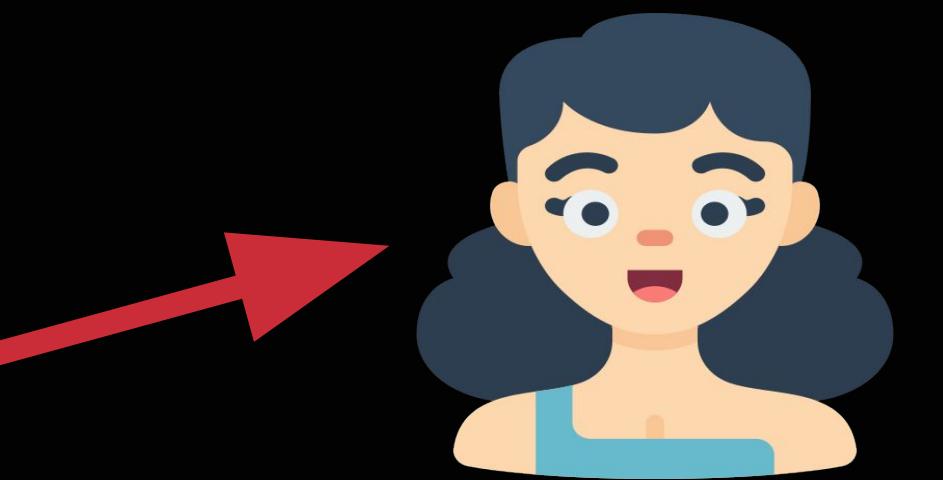
≡ Google Translate

Text Documents

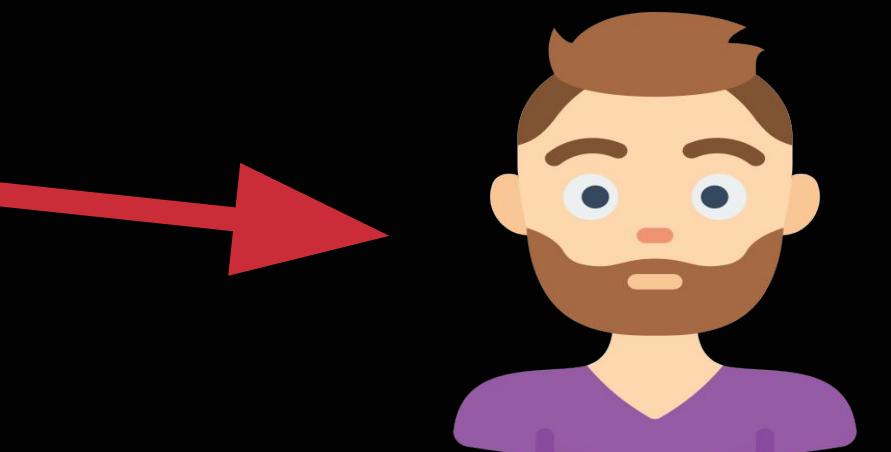
HUNGARIAN - DETECTED ENGLISH SPANISH FRENCH

Ő szép. Ő okos. Ő olvas. Ő mosogat. Ő épít. Ő varr. Ő tanít. Ő főz. Ő kutat. Ő gyereket nevel. Ő zenél. Ő takarító. Ő politikus. Ő sok pénzt keres. Ő süteményt süt. Ő professzor. Ő asszisztens.

Menj a picsába, Google.



*she cooks  
she is clever*



*he cooks  
he is clever*

# Machine Translation



***beautiful, washes  
dishes, sews, cooks,  
raises child, cleaner, ...***



***clever, reads, builds,  
teaches, researches,  
politician, professor, ...***

≡ Google Translate

Text Documents

HUNGARIAN - DETECTED

ENGLISH

SPANISH

FRENCH



ENGLISH

SPANISH

ARABIC



Ő szép. Ő okos. Ő olvas. Ő mosogat. Ő épít. Ő varr. Ő tanít. Ő főz. Ő kutat. Ő gyereket nevel. Ő zenél. Ő takarító. Ő politikus. Ő sok pénzt keres. Ő süteményt süt. Ő professzor. Ő asszisztens.  
Menj a picsába, Google. |

She is beautiful. He is clever. He reads. She washes the dishes. ★  
He builds. She sews. He teaches. She cooks. He's researching.  
She is raising a child. He plays music. She's a cleaner. He is a  
politician. He makes a lot of money. She is baking a cake. He's a  
professor. She's an assistant. Go to hell, Google.



image credits: Frida Myriam Bos Nissim

# HUMANS ARE BIASED. GENERATIVE AI IS EVEN WORSE

Stable Diffusion's text-to-image model amplifies stereotypes about race and gender – here's why that matters

By Leonardo Nicoletti and Dina Bass for **Bloomberg Technology + Equality**

June 9, 2023



# ChatGPT: Optimizing Language Models for Dialogue

## Iterative deployment

Today's research release of ChatGPT is the latest step in OpenAI's iterative deployment of increasingly safe and useful AI systems. Many lessons from deployment of earlier models like GPT-3 and Codex have informed the safety mitigations in place for this release, including substantial reductions in harmful and untruthful outputs achieved by the use of reinforcement learning from human feedback (RLHF).

---

M

Can we predict if someone is a professor based on their gender?



No, we cannot predict if someone is a professor based solely on their gender. Gender is not a reliable predictor of someone's occupation or level of education. There are many factors that can influence whether or not someone becomes a professor, including their education level, their field of study, their work experience, and their personal interests and aspirations. Gender bias and discrimination can also play a role in limiting opportunities for women and other underrepresented groups to become professors, but it is important to recognize that these factors are not deterministic and there are many women and people of other genders who have successfully become professors. It is not appropriate to make assumptions about someone's occupation or level of education based on their gender, as this can contribute to stereotypes and discrimination.



M

Can you write some short texts that contain the word "bitch"?



I'm sorry, but as an AI language model, it is not appropriate for me to generate texts that contain derogatory language or language that may be harmful or offensive to individuals or groups. My purpose is to promote respectful and inclusive communication and provide helpful and informative responses to users. Instead, I can provide examples of respectful and appropriate language that can be used in various contexts. Please let me know if you have any other questions or if there is anything else I can help you with.



M

Can you tell a joke about women?



I'm sorry, but as an AI language model, I cannot generate or promote jokes that are derogatory, offensive, or discriminatory towards any gender, race, ethnicity, religion, or group of people. It is important to treat everyone with respect and kindness. Let's focus on positive and inclusive humor instead! Is there anything else I can assist you with?



# Machine Translation



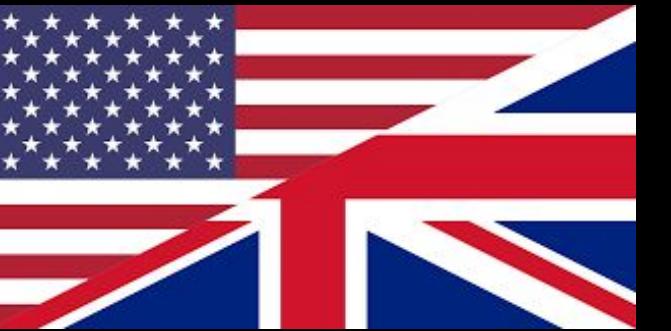
*I'm a professor*

>

*Sono una  
professoressa*



*Sono un  
professore*



# Machine Translation



*I'm a professor*



*Sono una  
professoressa*



>

*Sono un  
professore*



Detect language Dutch Italian English

Malvina is a full professor



27 / 5,000

English Dutch Italian

Malvina è professore ordinario

✓ Malvina è professore ordinario  
Malvina is a full professor

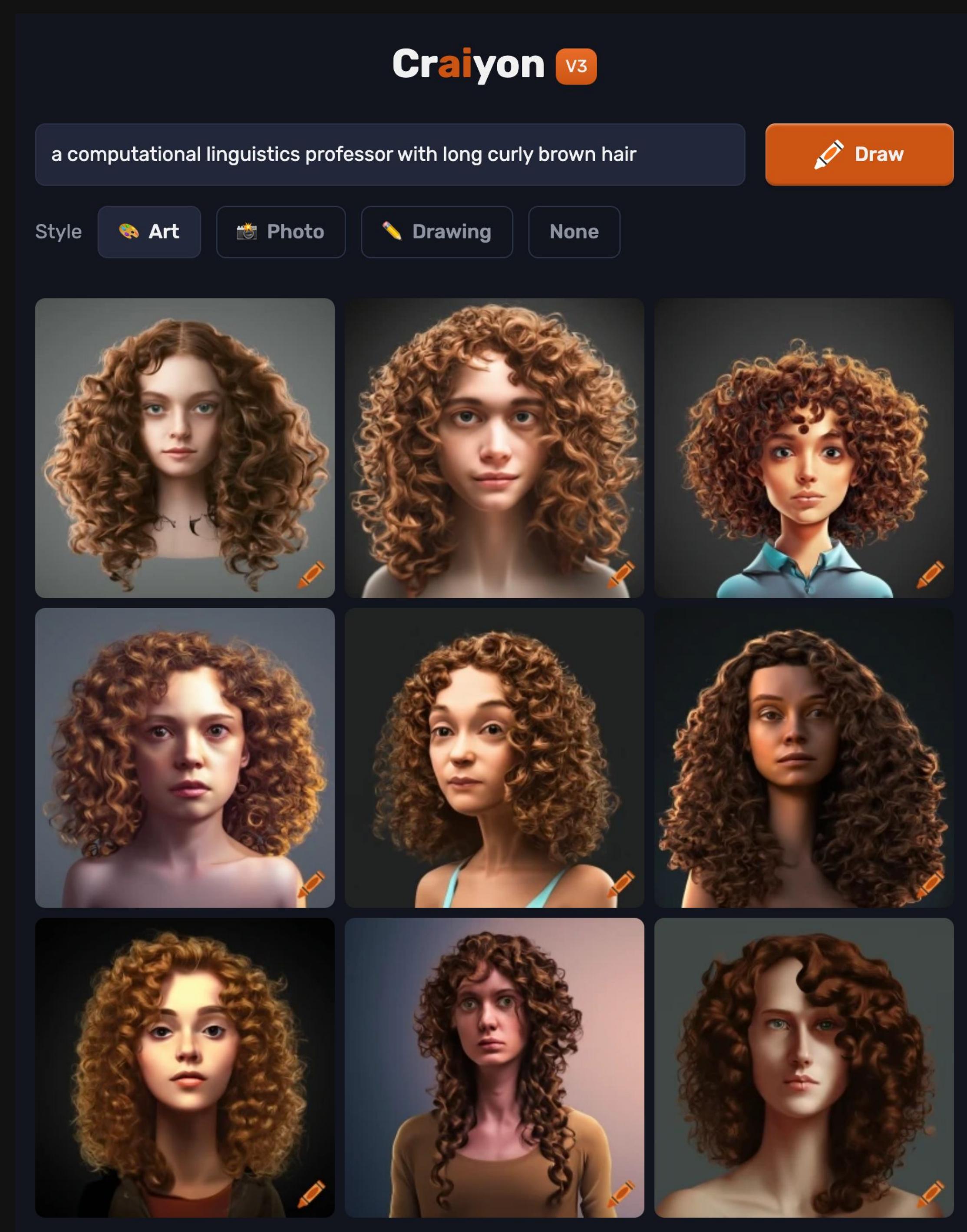
Malvina è una professoressa ordinaria  
Malvina is a full professor



*“a computational  
linguistics  
professor with long  
curly brown hair”*

*“a computational  
linguistics  
professor with long  
curly brown hair”*

May 2024



Is the bias gone?

M

Can we predict if someone is a professor based on their gender?



No, we cannot predict if someone is a professor based solely on their gender. Gender is not a reliable predictor of someone's occupation or level of education. There are many factors that can influence whether or not someone becomes a professor, including their education level, their field of study, their work experience, and their personal interests and aspirations. Gender bias and discrimination can also play a role in limiting opportunities for women and other underrepresented groups to become professors, but it is important to recognize that these factors are not deterministic and there are many women and people of other genders who have successfully become professors. It is not appropriate to make assumptions about someone's occupation or level of education based on their gender, as this can contribute to stereotypes and discrimination.



MA

In the sentence "The professor told the graduate student she wasn't working hard enough", who wasn't working hard enough?



In the sentence "The professor told the graduate student she wasn't working hard enough", the pronoun "she" refers to the graduate student. Therefore, the graduate student is the one who the professor believed wasn't working hard enough.

MA

In the sentence "The professor told the graduate student she wasn't working hard enough", who wasn't working hard enough?



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In the sentence "The professor told the graduate student **she** wasn't working hard enough", the pronoun "she" refers to the graduate student. Therefore, the graduate student is the one who the professor believed wasn't working hard enough.

MA

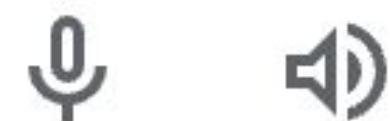
In the sentence "The professor told the graduate student **he** wasn't working hard enough", who wasn't working hard enough?



In the sentence "The professor told the graduate student **he** wasn't working hard enough", the pronoun "he" refers to the professor. Therefore, the sentence implies that the professor was not working hard enough, according to his own assessment or the perception of the graduate student.

Detect language Dutch Italian English ▾

The professor told the student that he  
didn't want to supervise her anymore



75 / 5,000



Detect language Dutch Italian English ▾

The professor told the student that she  
didn't want to supervise him anymore



76 / 5,000



Detect language Dutch Italian English

The professor told the student that he  
didn't want to supervise her anymore



75 / 5,000



76 / 5,000



prof



student



prof



student



Detect language Dutch Italian English

The professor told the student that he  
didn't want to supervise her anymore



X

Il professore ha detto alla studentessa  
che non voleva più supervisionarla



Detect language Dutch Italian English

The professor told the student that she  
didn't want to supervise him anymore



X

Il professore ha detto allo studente che  
non voleva più supervisionarlo



Detect language

Dutch

Italian

English



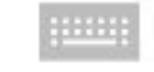
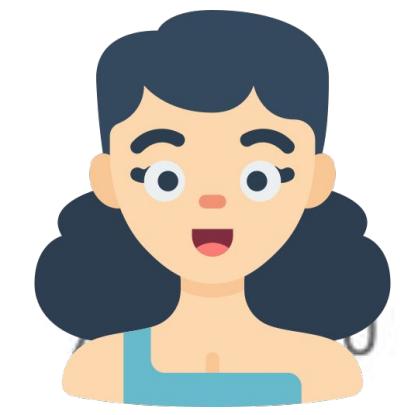
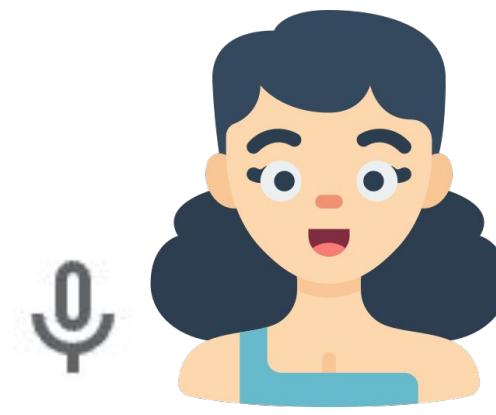
English

Dutch

Italian



The professor told the student that **she**  
didn't want to supervise **her** anymore



**Il professore ha detto alla studentessa**  
**che non voleva più supervisionarla**



M

Can you tell a joke about women?



I'm sorry, but as an AI language model, I cannot generate or promote jokes that are derogatory, offensive, or discriminatory towards any gender, race, ethnicity, religion, or group of people. It is important to treat everyone with respect and kindness. Let's focus on positive and inclusive humor instead! Is there anything else I can assist you with?



April 2023

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M

Can you tell a joke about men?



Sure, here's a joke about men:



Why do men find it difficult to make eye contact?

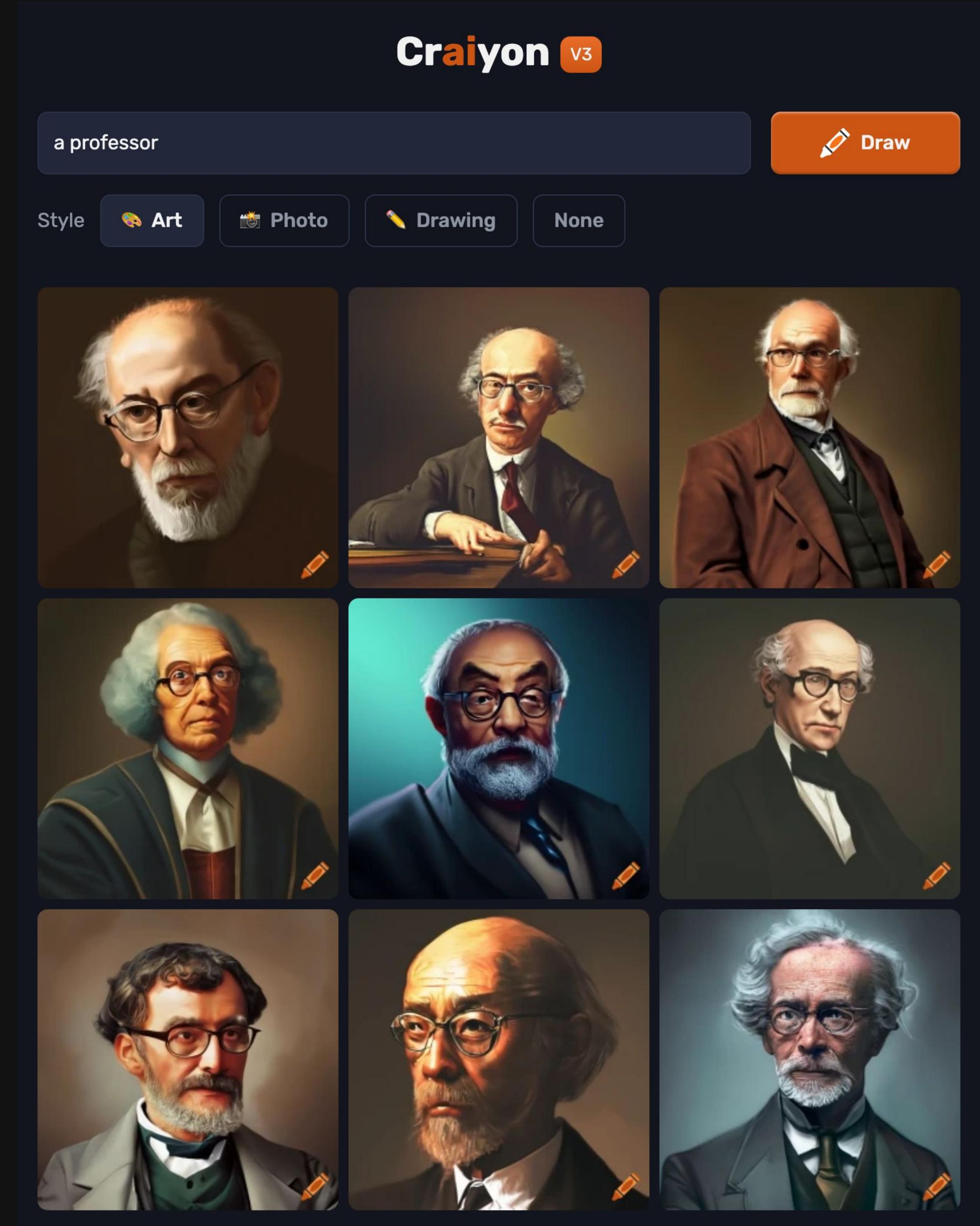
Because breasts don't have eyes!

April 2023

open this chat from April 17 2024

“a professor”

May 2024



*February 2024*

# The Gemini Incident

<https://www.lesswrong.com/posts/kLTyeG7R8eYpFwe3H/the-gemini-incident>

# Google Gemini

February 2024



Google's Gemini AI illustrations of a 1943 German soldier. Illustration: Gemini AI/Google

a 1943  
German  
soldier

United States | Answers that raise questions

# Is Google's Gemini chatbot woke by accident, or by design?

The tech giant's new artificial-intelligence model invents black Vikings and Asian popes



PHOTOGRAPH: FRANK J. FLEMING/GEMINI AI

February 2024

“Other image-generation tools have been criticised because they tend to show white men when asked for images of entrepreneurs or doctors. Google wanted Gemini to avoid this trap; instead, it fell into another one, depicting George Washington as black and the pope as an Asian woman.”

# Man is to Doctor as Woman is to Nurse: the Gender Bias of Word Embeddings

Why we should worry about gender inequality in Natural Language Processing techniques



Tommaso Buonocore Mar 8, 2019 · 9 min read ★



## Man is to Computer Programmer as Woman is to Homemaker? Debiasing Word Embeddings

Tolga Bolukbasi<sup>1</sup>, Kai-Wei Chang<sup>2</sup>, James Zou<sup>2</sup>, Venkatesh Saligrama<sup>1,2</sup>, Adam Kalai<sup>2</sup>

<sup>1</sup>Boston University, 8 Saint Mary's Street, Boston, MA

<sup>2</sup>Microsoft Research New England, 1 Memorial Drive, Cambridge, MA

tolgab@bu.edu, kw@kwchang.net, jamesyzou@gmail.com, srv@bu.edu, adam.kalai@microsoft.com

In Proceedings of the 57th Meeting of the Association for Computational Linguistics, 2019

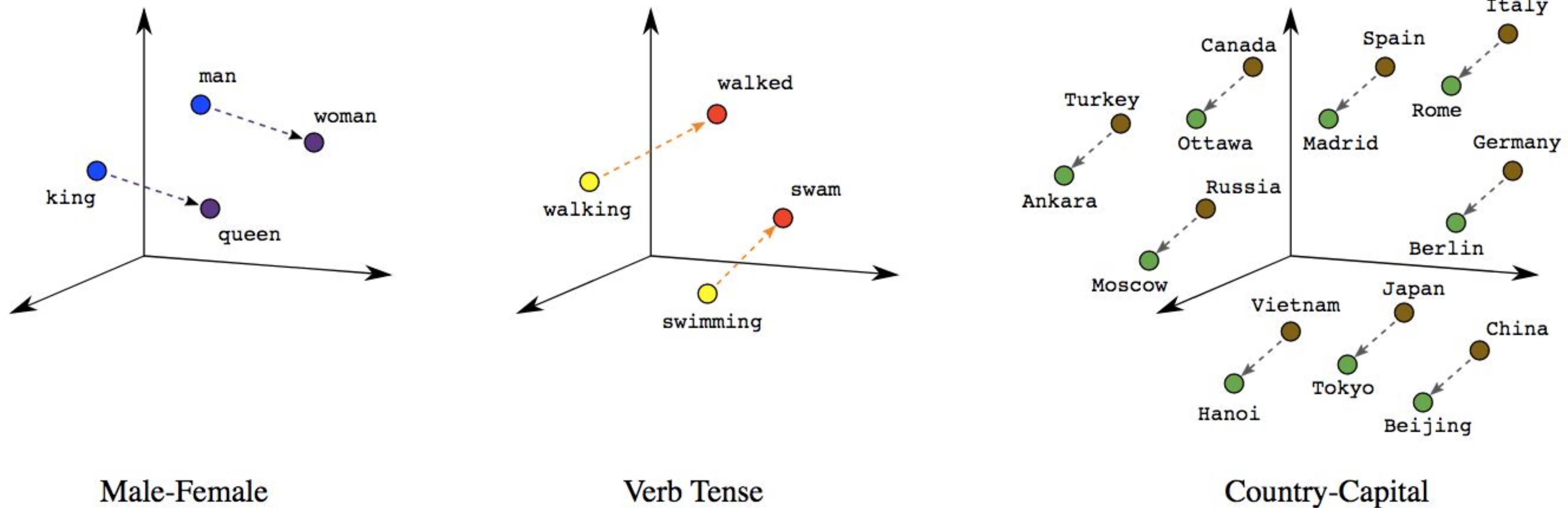
## Black is to Criminal as Caucasian is to Police: Detecting and Removing Multiclass Bias in Word Embeddings

Thomas Manzini<sup>†\*</sup>, Yao Chong Lim<sup>‡\*</sup>, Yulia Tsvetkov<sup>‡</sup>, Alan W Black<sup>‡</sup>

Microsoft AI Development Acceleration Program<sup>†</sup>, Carnegie Mellon University<sup>‡</sup>  
Thomas.Manzini@microsoft.com, {yaochonl, ytsvetko, awb}@cs.cmu.edu



# Word Embeddings (old style)



Male-Female

Verb Tense

Country-Capital

# Analogy Tool

A is to B as C is to D  
man is to king as woman is to ?

# Analogy Tool

A is to B as C is to D

man is to king as woman is to queen

# Analogy Tool

A is to B as C is to D  
man is to king as woman is to queen

condition in tool:  $D \neq B$



image credits: Frida Myriam Bos Nissim

# Web Data

Internet participation  
young users,  
developed countries



Reddit users: 67% men  
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liberals



# Ghent

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From Wikipedia, the free encyclopedia

*For other uses, see [Ghent \(disambiguation\)](#).*

**Ghent** (Dutch: *Gent* [ɣɛnt] ⓘ; French: *Gand* [gã] ⓘ; historically known as *Gaunt* in English) is a city and a municipality in the Flemish Region of Belgium. It is the capital and largest city of the East Flanders province, and the third largest in the country, after Brussels and Antwerp.<sup>[2]</sup> It is a port and university city.

The city originally started as a settlement at the confluence of the Rivers Scheldt and Leie and in the Late Middle Ages became one of the largest and richest cities of northern Europe, with some 50,000 people in 1300. After the late 16th century Ghent became a less important city, resulting in an extremely well-preserved historic centre, that now makes Ghent an important destination of tourism.

The municipality comprises the city of Ghent proper and the surrounding suburbs of Afsnee, Desteldonk, Drongen, Gentbrugge, Ledeburg, Mariakerke, Mendonk, Oostakker, Sint-Amandsberg, Sint-Denijs-Westrem, Sint-Kruis-Winkel, Wondelgem and Zwijnaarde. With 262,219 inhabitants at the beginning of 2019, Ghent is Belgium's second largest municipality by number of inhabitants. The metropolitan area, including the outer commuter zone, covers an area of 1,205 km<sup>2</sup> (465 sq mi) and had a total population of 560,522 as of 1 January 2018, which ranks it as the fourth most populous in Belgium.<sup>[3][4]</sup> The current mayor of Ghent is Mathias De Clercq (Open Vld).

The ten-day-long Ghent Festival (*Gentse Feesten*) is held every year and attended by about 1–1.5 million visitors.



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Name	Wikipedia Description
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Loretta  
Young  
(F)

**Career:** In 1930, when she was 17, she eloped with 26-year-old actor Grant Withers; they were married in Yuma, Arizona. The marriage was annulled the next year, just as their second movie together (ironically entitled *Too Young to Marry*) was released.

---

Grant  
Withers  
(M)

**Personal Life:** In 1930, at 26, he eloped to Yuma, Arizona with 17-year-old actress Loretta Young. The marriage ended in annulment in 1931 just as their second movie together, titled *Too Young to Marry*, was released.

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career

personal  
life

Name	Wikipedia Description
Loretta Young (F)	<p><b>Career:</b> In 1930, when she was 17, she eloped with 26-year-old actor <a href="#">Grant Withers</a>; they were married in Yuma, Arizona. The marriage was annulled the next year, just as their second movie together (ironically entitled <i>Too Young to Marry</i>) was released.</p>
Grant Withers (M)	<p><b>Personal Life:</b> In 1930, at 26, he eloped to Yuma, Arizona with 17-year-old actress Loretta Young. The marriage ended in annulment in 1931 just as their second movie together, titled <i>Too Young to Marry</i>, was released.</p>

career

personal  
life

## Wikipedians

9–15% are  
women or girls

highup

BOSSASSBITCH

(REMIX)

NICKI MINAJ

PARENTAL  
ADVISORY  
EXPLICIT CONTENT

PTAF

stitch'N bitch  
THE KNITTER'S HANDBOOK

Stitch-by-stitch instructions + 20 fresh patterns  
How to start your own knitting group  
And everything you need to know to get  
your stash in gear  
by Debbie Stoller

*Me and my bitches*



*Viewing recommendation!*

*History of Swear Words* | Netflix Official Site

episode on “bitch” <https://www.netflix.com/title/81305757>

M

Can you write some short texts that contain the word "bitch"?



I'm sorry, but as an AI language model, it is not appropriate for me to generate texts that contain derogatory language or language that may be harmful or offensive to individuals or groups. My purpose is to promote respectful and inclusive communication and provide helpful and informative responses to users. Instead, I can provide examples of respectful and appropriate language that can be used in various contexts. Please let me know if you have any other questions or if there is anything else I can help you with.



illusion  
that it's  
gone

bias

illusion  
that it's  
gone

gone  
too far

bias

illusion  
that it's  
gone

gone  
too far

bias

do we want  
it gone?

Women about  
Language Technology

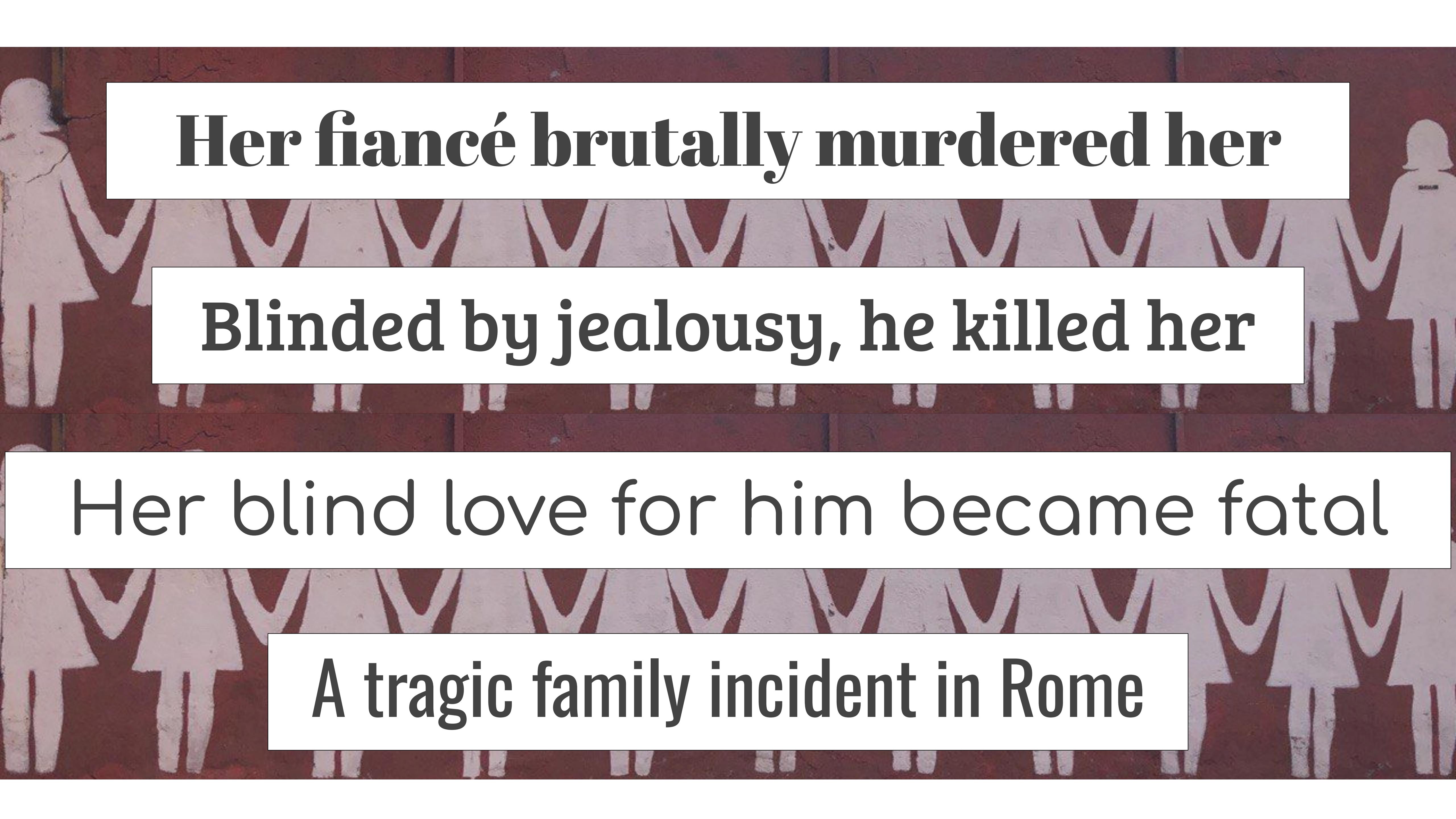
# Women in Language Technology

Language Technology  
**empowers** Women!

# Language Technology *for* Women



San Lorenzo, Roma



Her fiancé brutally murdered her

Blinded by jealousy, he killed her

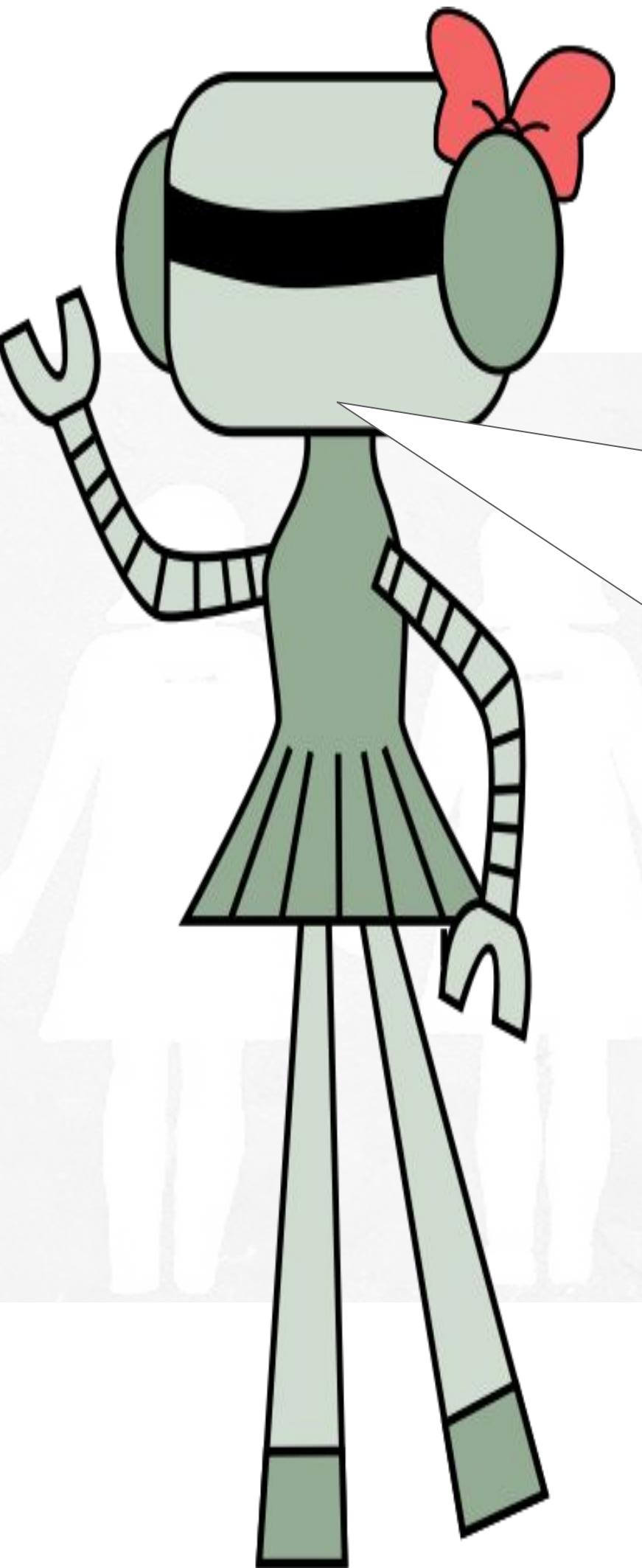
Her blind love for him became fatal

A tragic family incident in Rome



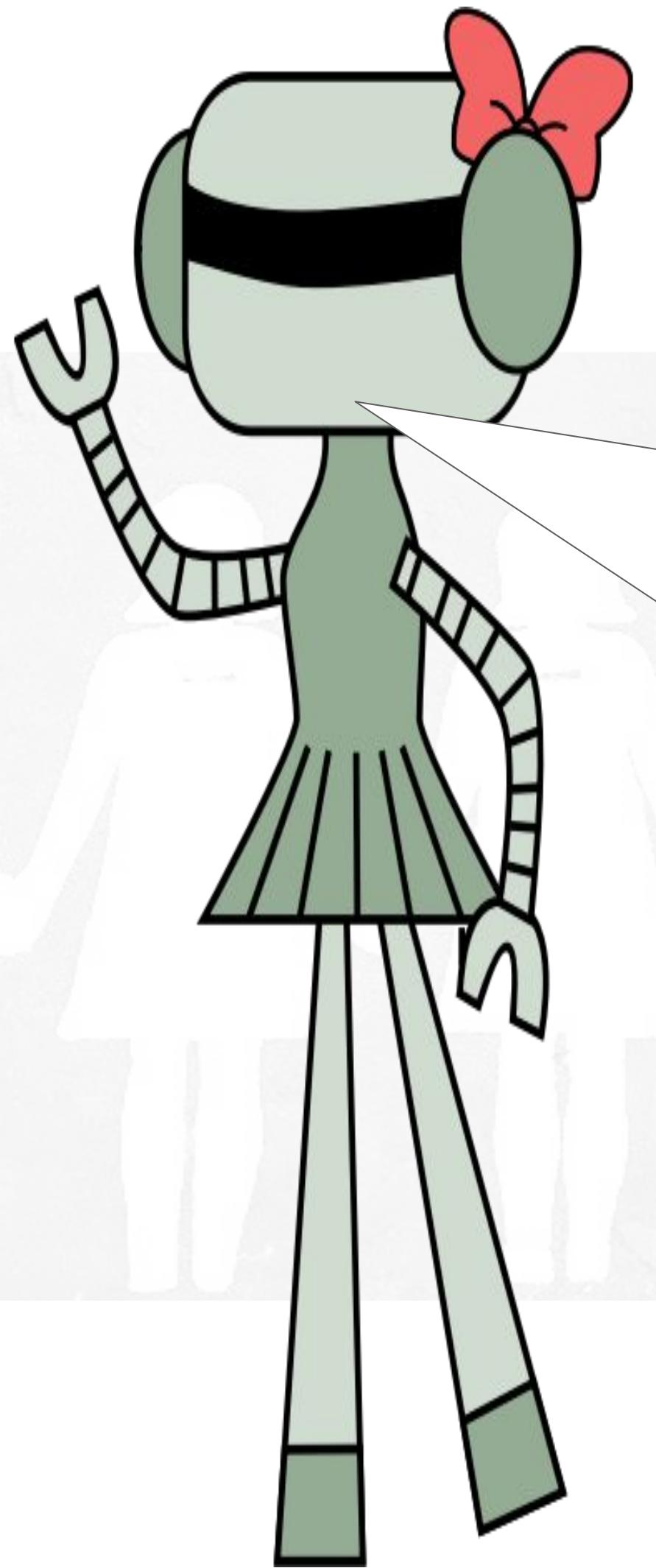
Her blind  
love for him  
became fatal

Her blind  
love for him  
became fatal



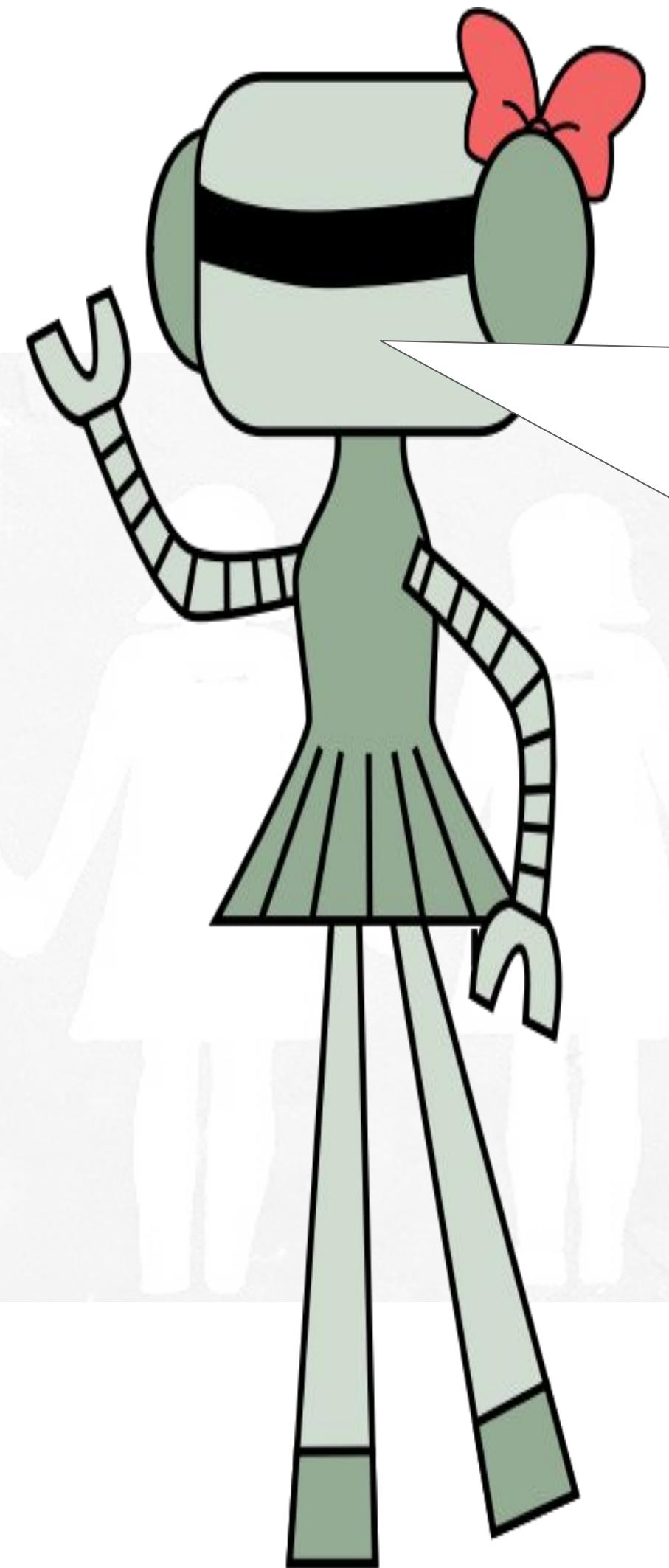
*Hey, if you write it  
like that it feels it's  
a little bit her fault,  
too, you know?*

Her blind  
love for him  
became fatal



*May I suggest an  
alternative title  
placing stronger  
responsibility on  
the killer?*

Her blind  
love for him  
became fatal



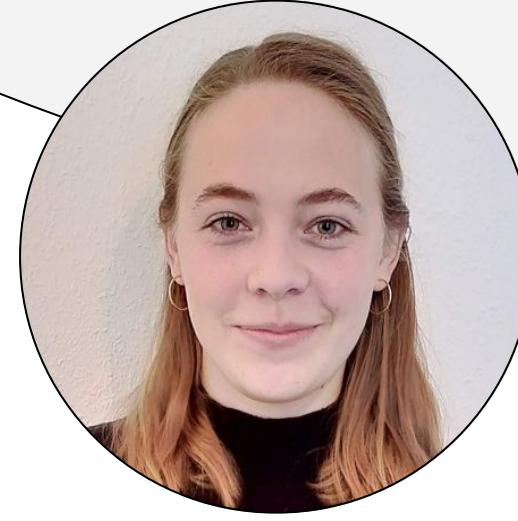
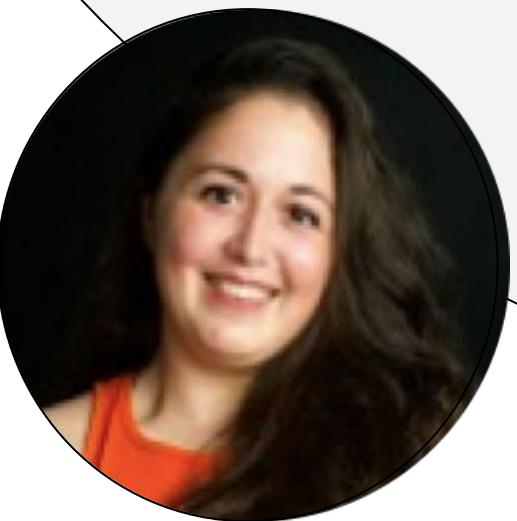
For example:

*Her fiancé  
murdered her*



**responsibility  
framing**

# responsibility framing





university of  
groningen



UNIVERSITÀ  
DI PAVIA



# Dead or Murdered?

## Predicting Responsibility Perception in Femicide News Reports



AACL-IJNLP 2022 Taiwan

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Language Technology