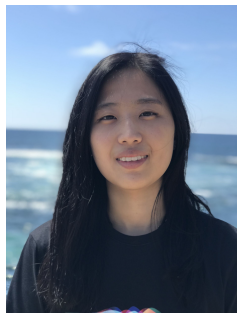




# Multilingual Contextual Affective Analysis of LGBT People Portrayals in Wikipedia

Chan Young Park\*, Xinru Yan\*, Anjalie Field\*, Yulia Tsvetkov (ICWSM '21)





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# Alan Turing

From Wikipedia, the free encyclopedia

*"Turing" redirects here. For other uses, see [Turing \(disambiguation\)](#).*

**Alan Mathison Turing**  ***OBE***  ***FRS*** (/ˈtʃʊərɪn/; 23 June 1912 – 7 June 1954) was an English [mathematician](#), [computer scientist](#), [logician](#), [cryptanalyst](#), [philosopher](#), and [theoretical biologist](#).<sup>[6][7]</sup> Turing was highly influential in the development of [theoretical computer science](#), providing a formalisation of the concepts of [algorithm](#) and [computation](#) with the [Turing machine](#), which can be considered a model of a [general-purpose computer](#).<sup>[8][9][10]</sup> Turing is widely considered to be the father of theoretical computer science and [artificial intelligence](#).<sup>[11]</sup>

Born in [Maida Vale](#), London, Turing was raised in [southern England](#). He graduated at [King's College, Cambridge](#) with a degree in mathematics. Whilst he was a [fellow](#) at Cambridge, he published a proof demonstrating that some purely mathematical yes–no questions can never be answered by computation and defined a [Turing machine](#), and went on to prove the [halting problem](#) for Turing machines is [undecidable](#). In 1938, he obtained his [PhD](#) from the [Department of Mathematics](#) at [Princeton University](#). During the [Second World War](#), Turing worked for the [Government Code and Cypher School](#) (GC&CS) at [Bletchley Park](#), Britain's [codebreaking](#) centre that produced [Ultra](#) intelligence. For a time he led

**Alan Turing**  
***OBE*** ***FRS***



Turing c. 1928 at age 16



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## Alan Turing

«Turing» redirige aquí. Para otras acepciones, véase *Turing (desambiguación)*.

**Alan Mathison Turing** (**Paddington, Londres**; 23 de junio de 1912-Wilmslow, Cheshire; 7 de junio de 1954), fue un **matemático**, **lógico**, **informático teórico**, **criptógrafo**, **filósofo**, **biólogo teórico**, **maratoniano** y corredor de **ultradistancia británico**.<sup>1 2 3 4 5</sup>

Es considerado uno de los padres de la **ciencia de la computación** y precursor de la **informática** moderna. Proporcionó una influyente formalización de los conceptos de **algoritmo** y computación: la **máquina de Turing**. Formuló su propia versión que hoy es ampliamente aceptada como la **tesis de Church-Turing** (1936).

Durante la **segunda guerra mundial**, trabajó en descifrar los códigos **nazis**, particularmente los de la máquina **Enigma**, y durante un tiempo fue el director de la sección **Naval Enigma** de **Bletchley Park**. Se ha estimado que su trabajo acortó la duración de esa guerra entre dos y cuatro años.<sup>6</sup> Tras la guerra, diseñó uno de los primeros computadores electrónicos programables digitales en el **Laboratorio Nacional de Física** del Reino Unido y poco tiempo después construyó otra de las primeras máquinas en la **Universidad de Mánchester**.

Alan Turing



Foto de pasaporte de Alan Turing a los 16 años



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## Тьюринг, Алан

Материал из Википедии — свободной энциклопедии

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**А́лан Ма́тисон Тью́ринг**, OBE (англ. *Alan Mathison Turing* [ˈtʃoʊrɪŋ]; 23 июня 1912 — 7 июня 1954) — английский математик, логик, криптограф, оказавший существенное влияние на развитие информатики. Кавалер Ордена Британской империи (1945), член Лондонского королевского общества (1951)<sup>[8]</sup>. Предложенная им в 1936 году абстрактная вычислительная «Машина Тьюринга», которую можно считать моделью компьютера общего назначения<sup>[8]</sup>, позволила формализовать понятие алгоритма и до сих пор используется во множестве теоретических и практических исследований. Научные труды А. Тьюринга — общепризнанный вклад в основания информатики (и, в частности, — теории искусственного интеллекта)<sup>[7]</sup>.

Во время Второй мировой войны Алан Тьюринг работал в Правительственной школе кодов и шифров, располагавшейся в Блетчли-парке, где была сосредоточена работа по взлому шифров и кодов стран Оси. Он возглавлял группу **Hut 8**, ответственную за криптоанализ сообщений военно-морского флота Германии. Тьюринг разработал ряд методов взлома, в том числе теоретическую базу для ***Bombe*** — машины, использованной для взлома немецкого шифратора ***Enigma***.

После войны Тьюринг работал в Национальной физической лаборатории, где по его проекту был реализован первый в мире компьютер с хранимой в памяти программой — ***ACE***. В 1948 учёный присоединился к вычислительной лаборатории Макса Ньюмана в Университете Манчестера, где ассистировал при создании *Манчестерских Компьютеров*<sup>[8]</sup>, а позднее заинтересовался математической биологией. Тьюринг опубликовал работу по химическим основам морфогенеза и предсказал протекающие в ***колебательном режиме***<sup>[en]</sup> химические реакции, такие, как реакция Белоусова — Жаботинского, которые впервые были представлены научному сообществу в 1968 году. В 1950 году предложил эмпирический *тест Тьюринга* для оценки *искусственного интеллекта* компьютера.

Алан Тьюринг

англ. *Alan Mathison Turing*

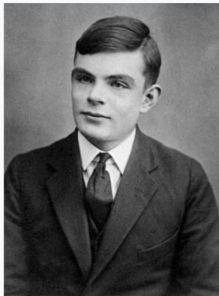


Фото на паспорт. 16 лет.

# Russian

[https://es.wikipedia.org/wiki/Alan\\_Turing](https://es.wikipedia.org/wiki/Alan_Turing)  
[https://ru.wikipedia.org/wiki/Тьюринг,\\_Алан](https://ru.wikipedia.org/wiki/Тьюринг,_Алан)

Q. Are there differences in how  
English/Spanish/Russian Wikipedias  
portray people?

### **English Wikipedia:**

He **accepted** the option of injections of what was then called stilboestrol.

### **Spanish Wikipedia:**

Finalmente escogió las inyecciones de estrógenos.  
*Finally he **chose** estrogen injections.*

### **Russian Wikipedia:**

Учёный предпочёл инъекции стильбэстрола  
*The scientist **preferred** stilbestrol injections.*

**English Wikipedia:**

He **accepted** the option of injections of what was then called stilboestrol.

**Spanish Wikipedia:**

Finalmente escogió las inyecciones de estrógenos.  
*Finally he **chose** estrogen injections.*

**Russian Wikipedia:**

Учёный предпочёл инъекции стильбэстрола  
*The scientist **preferred** stilbestrol injections.*

There are **subtle differences** in narratives

# Research Questions

- How can we analyze how people are portrayed in multilingual texts?
- How are LGBT people portrayed in their biographies?  
(+ is it different across English, Spanish, Russian Wikipedias?)

# Contribution

- How can we analyze how people are portrayed in multilingual texts?
  1. **New dataset:** Multilingual Contextualized Connotation Frames
  2. **New Multilingual Model**
- How are LGBT people portrayed in Wikipedia?  
(+ is it different across English, Spanish, Russian Wikipedias?)
  3. **New method:** Controlled Analyses of Social Biases in Wikipedia Bios
  4. **New dataset:** LGBTBio
  5. **Cast study:** How our model can enable subtle analyses of nuances

# Multilingual Contextual Affective Analysis

# Background: Contextual Affective Analysis

Find (Sentiment, Power, Agency) connotations in a given context

Rashkin, Hannah, Sameer Singh, and Yejin Choi. (2016) **Connotation Frames: A Data-Driven Investigation**. *ACL*

Sap, Maarten, et al. (2017) **Connotation frames of power and agency in modern films**. *EMNLP*

Field et al. (2019) **Contextual Affective Analysis: A Case Study of People Portrayals in Online #MeToo Stories**. *ICWSM*

# Background: Contextual Affective Analysis

Find (Sentiment, Power, Agency) connotations in a given context

“The firefighter rescued the boy”

- Sentiment towards firefighter: Positive (+)
- Power of firefighter: Positive (+)
- Agency of firefighter: Positive (+)

## Existing dataset

X rescues Y ( + , + , + )

.

.

.

.

.

.

X deserves Y ( + , + , 0 )

Verbs

→ (Sentiment, Power, Agency)

## Existing dataset

X rescues Y (+, +, +)

.

.

.

X deserves Y (+, +, 0)

*in-context*

*in-language*

## Our dataset

Multilingual Contextualized Connotation Frames

A boy deserves appellation (+, +, 0)

A boy deserves punishment (-, 0, 0)

.

.

.

The firefighter rescued the boy (+, +, 0)

Un chico merece un castigo (-, 0, 0)

.

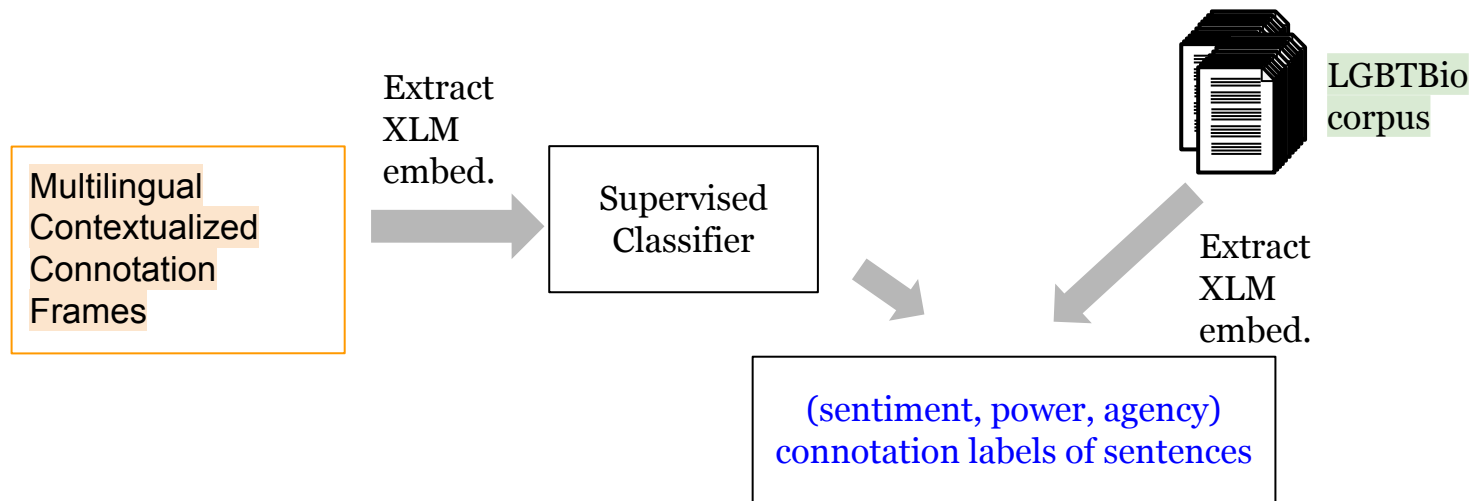
.

.

Пожарный спас мальчика (+, +, 0)

# Method: Multilingual Connotation Classifier

- Leverage cross-lingual Pre-trained Language Models (XLM)
- Put extracted sentence representations as input to a supervised classifier



# Classifier Evaluation Results

Tgt	Src	Sent <sub>subj</sub>	Sent <sub>obj</sub>	Pow.	Agen.
	EN	<b>43.4*</b>	43.0	<b>41.1</b>	<b>48.2*</b>
EN	ES	38.1	43.4	29.5	43.4
	RU	41.1	<b>44.3</b>	40.1	41.4

Tgt	Src	S <sub>subj</sub>	S <sub>obj</sub>	Pow.	Agen.
	EN	43.4	43.0	41.1	48.2
EN	+ES	44.8	<b>45.2*</b>	40.5	49.7
	<b>+RU</b>	<b>46.5*</b>	43.2	<b>41.8</b>	49.9
	+ES+RU	45.0	44.3	41.7	<b>50.0*</b>

- in-language training data is the best
- augmenting datasets from other languages help

# Controlled Analyses of Social Biases

How are LGBT people portrayed in Wikipedia?

# Analyze how Tim Cook is portrayed in his bio...

**Timothy Donald Cook** (born November 1, 1960)<sup>[1]</sup> is an American business executive who has been the **chief executive officer** of **Apple Inc.** since 2011. Cook previously served as the company's **chief operating officer** under its co-founder **Steve Jobs**.<sup>[2]</sup> He is the first CEO of any **Fortune 500** company who is openly **gay**.<sup>[3]</sup>

Cook joined Apple in March 1998 as a **senior vice president** for worldwide operations, and then served as the **executive vice president** for worldwide sales and operations.<sup>[4]</sup> He was made the chief executive on August 24, 2011, prior to Jobs' death in October of



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## Tim Cook



**Тѣмоти Дѡнальд Кук** (*англ. Timothy Donald Cook*; род. **1 ноября 1960 года**, **Мобил**, **Алабама**, **США**)<sup>[4]</sup> — американский менеджер и генеральный директор компании **Apple**, **миллиардер**. Пришёл в компанию в марте **1998 года**. Занял должность гендиректора после отставки (в связи с продолжительной болезнью) **Стива Джобса** 24 августа 2011 года.

## Тим Кук

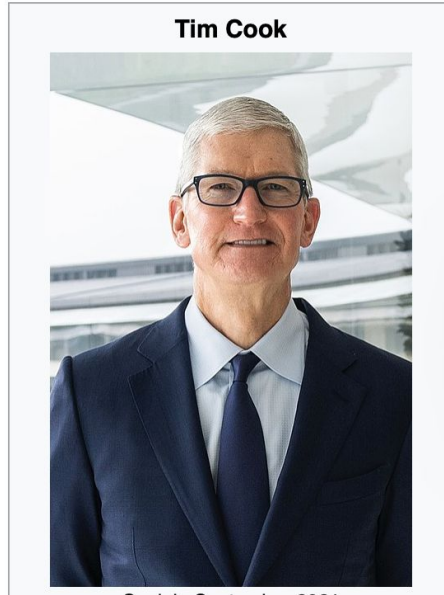
англ. *Tim Cook*



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Cook joined Apple in March 1998 as a **senior vice president** for worldwide operations, and then served as the **executive vice president** for worldwide sales and operations.<sup>[4]</sup> He was made the chief executive on August 24, 2011, prior to Jobs' death in October of



1. Cook previously **served** as the company's chief executive officer ...
2. Cook **joined** Apple in March 1998 as a senior vice president ...
3. Cook **doubled** the company's revenue and profit ...

Supervised  
Classifier

(sentiment, power, agency) labels

Average  
**Sentiment: 0.3** | **Power: 0.5** | **Agency: 0.2**

# Analyze how Tim Cook is portrayed in his bio...

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**Tim Cook**



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**Тим Кук**  
англ. *Tim Cook*



Average

Sentiment: 0.1 | Power: 0.3 | Agency: 0.2

# Challenges

1. Don't know if a difference across language is **meaningful** or just an **inherent** difference between languages
2. We want to understand how person's **sexuality** is affecting their portrayals

# Challenges

1. Don't know if a difference across language is **meaningful** or just an **inherent** difference between languages

2. We want to understand how person's **sexuality** is affecting their portrayals

→ **Controlled analysis**

Need to match a *target* corpus with a *comparison* corpus

# Matching target with comparison

**Timothy Donald Cook** (born November 1, 1960)<sup>[1]</sup> is an American business executive who has been the [chief executive officer](#) of [Apple Inc.](#) since 2011. Cook previously served as the company's [chief operating officer](#) under its co-founder [Steve Jobs](#).<sup>[2]</sup> He is the first CEO of any [Fortune 500](#) company who is openly [gay](#).<sup>[3]</sup>

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**Tim Cook**

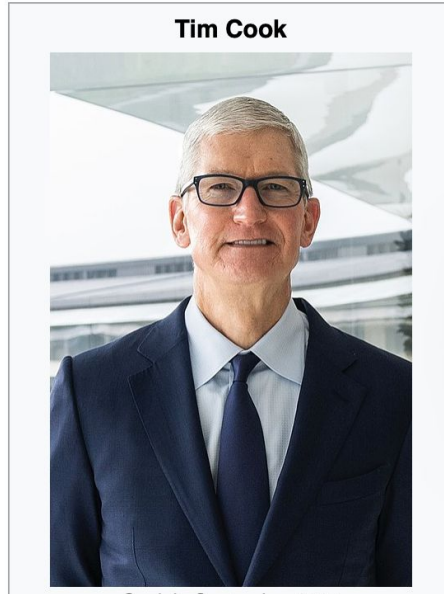


Categories: [1960 births](#) | [20th-century American businesspeople](#) | [21st-century American businesspeople](#) | [American chief operating officers](#) | [American computer businesspeople](#) | [American technology chief executives](#) | [Apple Inc. executives](#) | [Auburn University alumni](#) | [Fuqua School of Business alumni](#) | [IBM employees](#) | [American LGBT businesspeople](#) | [LGBT people from Alabama](#) | [Living people](#) | [Nike, Inc. people](#) | [People from Robertsdale, Alabama](#) | [Directors of Apple Inc.](#) | [National Football League executives](#) | [Duke University trustees](#) | [American billionaires](#) | [American chief executives of Fortune 500 companies](#)

# Matching target with comparison

**Timothy Donald Cook** (born November 1, 1960)<sup>[1]</sup> is an American business executive who has been the [chief executive officer](#) of [Apple Inc.](#) since 2011. Cook previously served as the company's [chief operating officer](#) under its co-founder [Steve Jobs](#).<sup>[2]</sup> He is the first CEO of any [Fortune 500](#) company who is openly [gay](#).<sup>[3]</sup>

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Categories: 1960 births | 20th-century American businesspeople  
| 21st-century American businesspeople | American chief operating officers  
| American computer businesspeople | American technology chief executives  
| Apple Inc. executives | Auburn University alumni  
| Fuqua School of Business alumni | IBM employees  
| **American LGBT businesspeople** | **LGBT people from Alabama** | Living people  
| Nike, Inc. people | People from Robertsdale, Alabama | Directors of Apple Inc.  
| National Football League executives | Duke University trustees  
| American billionaires | American chief executives of Fortune 500 companies

# Matching target with comparison

Categories: 1960 births | 20th-century American businesspeople  
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National Football League executives | Duke University trustees  
American billionaires | American chief executives of Fortune 500 companies

Categories: Steve Jobs | 1955 births | 2011 deaths  
20th-century American businesspeople | 21st-century American businesspeople  
American adoptees | American billionaires | American Buddhists  
American computer businesspeople | American film producers  
American film studio executives | American financiers  
American industrial designers | American inventors | American investors  
American people of German descent | American people of Swiss descent  
American people of Syrian descent | American philanthropists  
American psychedelic drug advocates | American technology chief executives  
American technology company founders | American Zen Buddhists  
Atari people | Burials in California | Businesspeople from San Francisco  
Businesspeople in software | Computer designers  
Deaths from cancer in California | Deaths from pancreatic cancer  
Directors of Apple Inc. | Disney executives | Internet pioneers  
Liver transplant recipients | National Medal of Technology recipients | NeXT  
People from Cupertino, California | People from Los Altos, California  
People from Mountain View, California | People from Palo Alto, California  
Personal computing | Pixar people | Presidential Medal of Freedom recipients  
Spokespersons | Technicians | Homestead High School (California) alumni

# Matching target with comparison

**Timothy Donald Cook** (born November 1, 1960)<sup>[1]</sup> is an American business executive who has been the **chief executive officer** of **Apple Inc.** since 2011. Cook previously served as the company's **chief operating officer** under its co-founder **Steve Jobs**.<sup>[2]</sup> He is the first CEO of any **Fortune 500** company who is openly **gay**.<sup>[3]</sup>

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**Tim Cook**



**Steven Paul Jobs** (February 24, 1955 – October 5, 2011) was an American **business magnate**, inventor, and investor. He was the co-founder, **chairman**, and **CEO** of **Apple**; the chairman and majority shareholder of **Pixar**; a member of **The Walt Disney Company**'s board of directors following its acquisition of Pixar; and the founder, chairman, and CEO of **NeXT**. He was a pioneer of the **personal computer revolution** of the 1970s and

**Steve Jobs**



Jobs introducing the **iPhone 4** in 2010

# Controlled Analyses of Social Biases in Wikipedia Bios

Tim Cook



Steve Jobs



Тим Кук

англ. Tim Cook

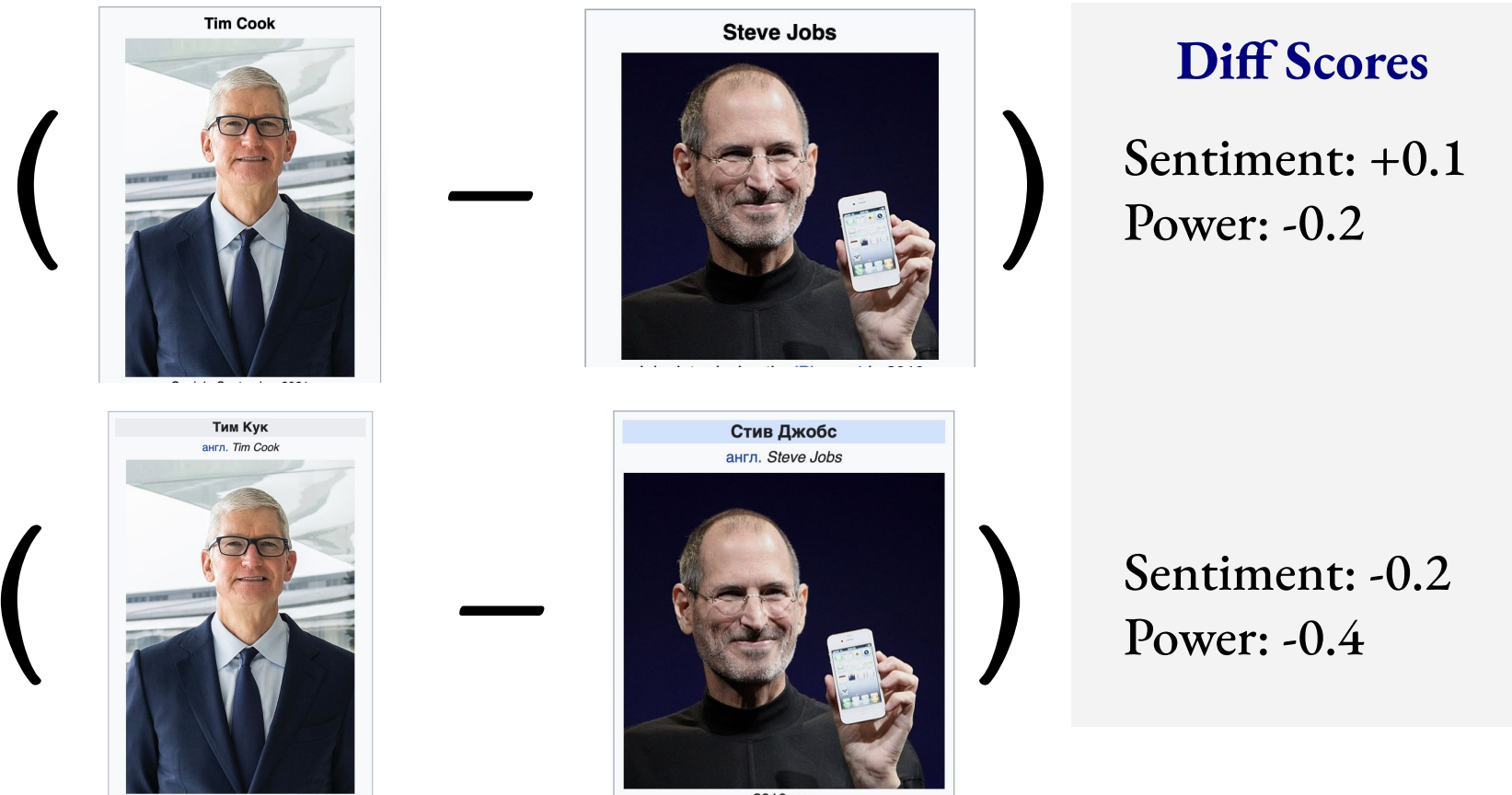


Стив Джобс

англ. Steve Jobs

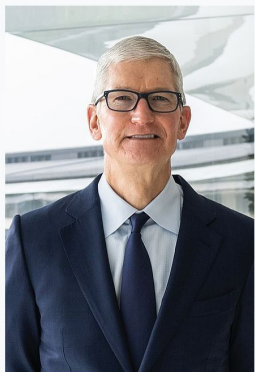


# Controlled Analyses of Social Biases in Wikipedia Bios



# Controlled Analyses of Social Biases in Wikipedia Bios

Tim Cook



Steve Jobs



## Diff Scores

Sentiment: +0.1

Power: -0.2

Тим Кук

англ. Tim Cook



Стив Джобс

англ. Steve Jobs

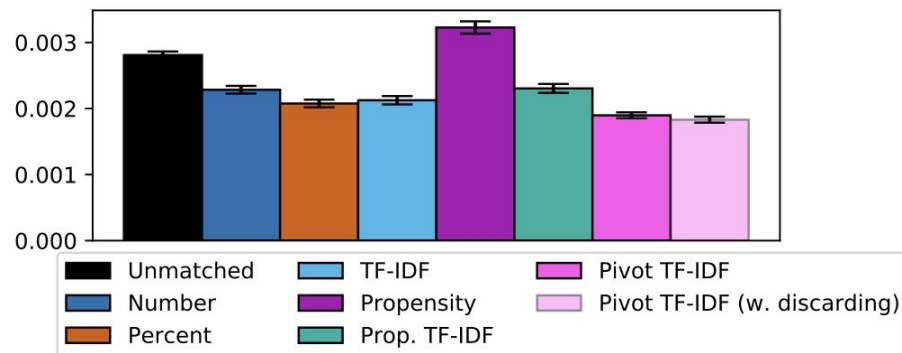


Sentiment: -0.2

Power: -0.4

# Controlled Analyses of Social Biases in Wikipedia Bios

WWW '22, Wikimedia Foundation Research Award of the Year 2023



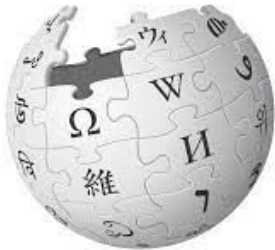
	#Pairs analyzed	Article Lengths		Edit History		Article Age		# of Languages	
		Target	Comparison	Target	Comparison	Target	Comparison	Target	Comparison
African Amer.	8,404	942.9	959.2	243.4	245.8	<b>128.5</b>	136.2	<b>6.2</b>	6.8
Asian Amer.	3,473	<b>792.3</b>	854.1	193.2	198.5	<b>123.2</b>	130.3	<b>6.0</b>	7.1
Hisp./Latinx Amer.	3,813	1017.2	1026.8	293.4	277.8	<b>130.0</b>	137.4	7.5	7.6
Non-Binary	127	1086.5	914.9	374.0	189.1	<b>95.0</b>	119.7	7.8	<b>5.9</b>
Cis. women	64,828	<b>668.9</b>	792.4	<b>126.1</b>	147.2	<b>110.6</b>	128.7	<b>5.4</b>	6.1
Trans. women	134	1115.3	837.1	270.5	<b>151.6</b>	<b>119.6</b>	135.3	8.3	<b>5.52</b>
Trans. men	53	652.7	870.9	118.2	172.0	<b>97.0</b>	125.7	3.9	5.8

**Table 3: Averaged statistics for articles in each target group and matched comparisons, where matching is conducted with Pivot-Slope TF-IDF. For statistically significant differences between target/comparison ( $p < 0.05$ ) the smaller value is in bold.**

# Contextual Affective Analysis of Narratives Describing LGBT People

# LGBTBio Corpus

- 1,340 Wikipedia articles about LGBT people
  - 1,340 articles about matched comparison group with similar traits
  - All bios are available in three languages (English, Spanish, Russian)
- [List of gay, lesbian or bisexual people](#)
    - [List of bisexual people](#)
  - [List of transgender people](#)
  - [List of people with non-binary gender identities](#)



WIKIPEDIA  
The Free Encyclopedia

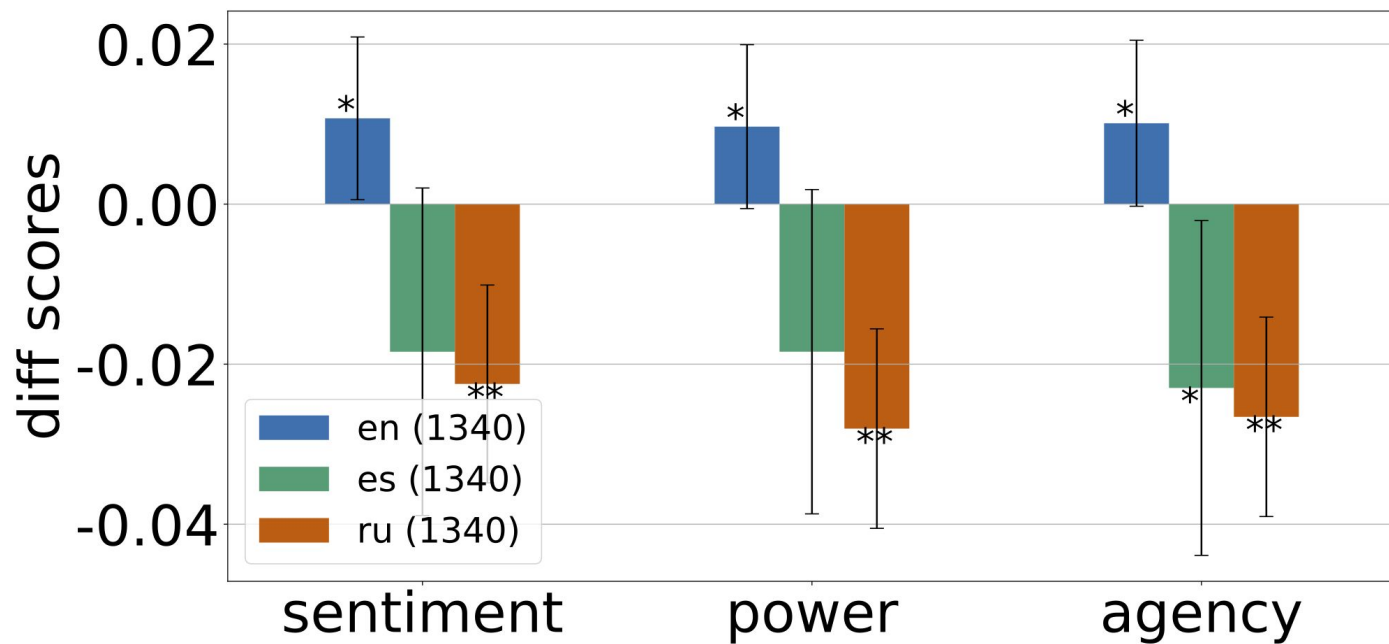


WIKIPEDIA  
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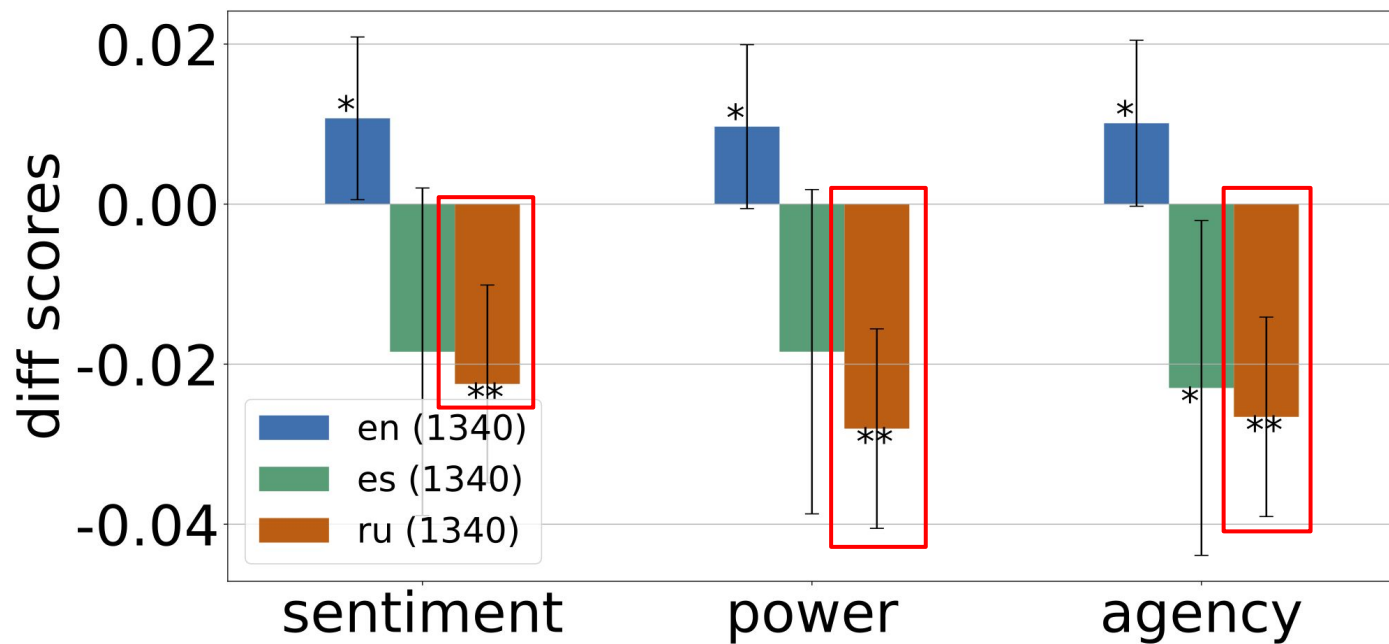


Википедия  
Свободная энциклопедия

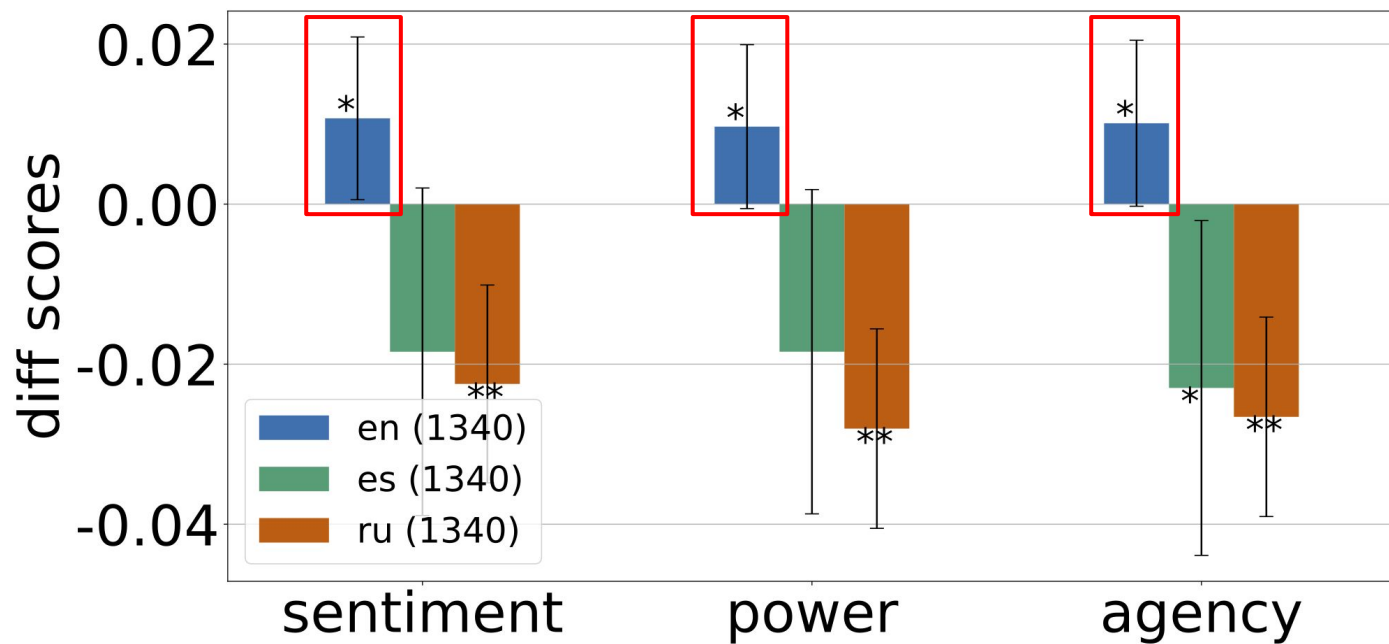
# Difference in verb connotations



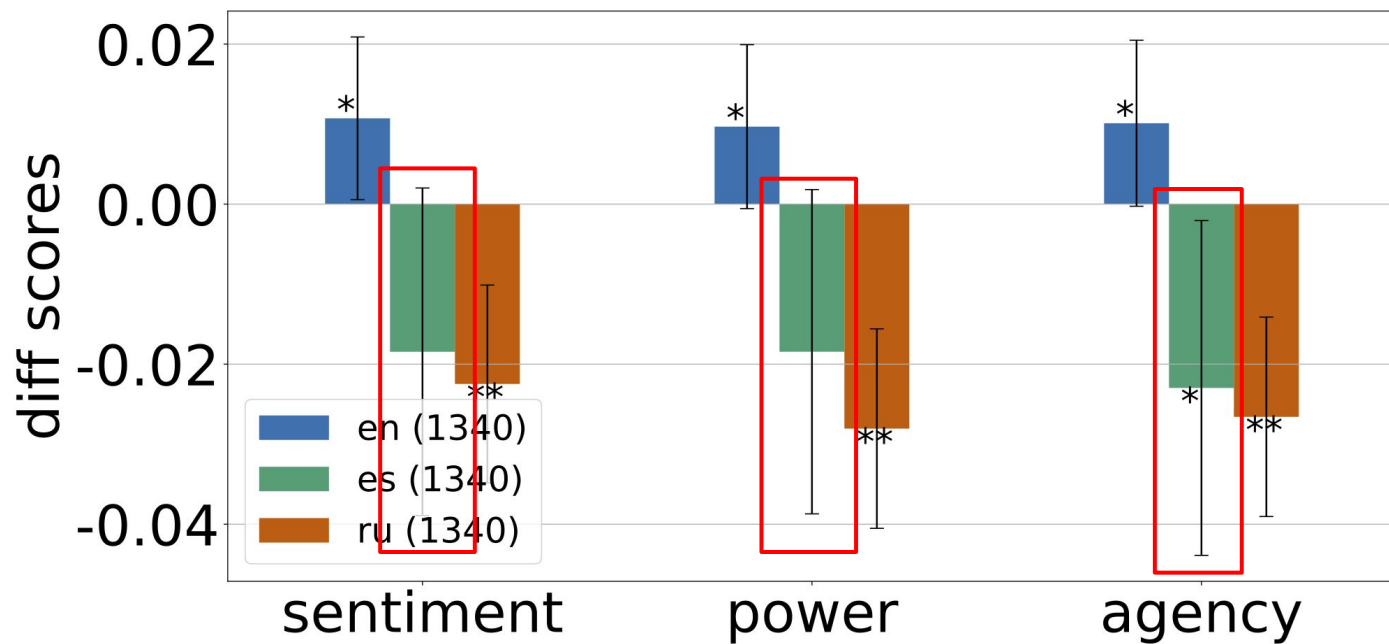
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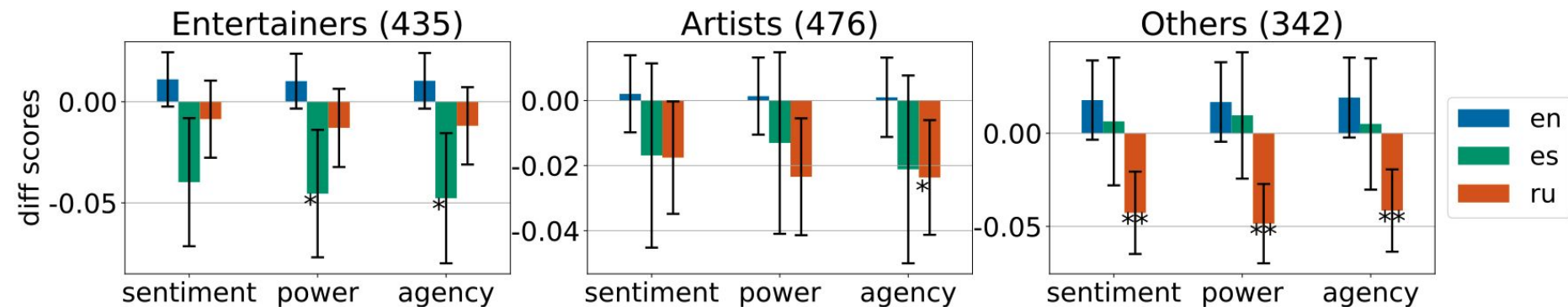
# Difference in verb connotations



# Difference in verb connotations



# Difference in verb connotations by occupation



# Check our paper for additional analysis

- Does perception of LGBT people **change over time**?
- Is it different based on their **occupation**?
- Is it different based on their **nationality**?

# Check our paper for additional analysis

- Does perception of LGBT people **change by their birthdate?**
- Is it different based on their **nationality?**
- More **qualitative analysis**

Use Case:

Identification of Imbalanced Content

# Identification of imbalanced content

# Identification of imbalanced content

**Cleve Jones** (born October 11, 1954) is an American **AIDS** and **LGBT rights** activist.<sup>[1]</sup> He conceived the **NAMES Project AIDS Memorial Quilt**, which has become, at 54 tons, the world's largest piece of community **folk art** as of 2020. In 1983, at the onset of the **AIDS pandemic** Jones co-founded the **San Francisco AIDS Foundation**, which has grown into one of the

**Cleve Jones**



**Клив Джонс**  
(англ. *Cleve Jones*; род. 11 октября 1954, Уэст-Лафейетт, Индиана, США) — американский ЛГБТ-активист и движения против СПИДа. Один из основателей СПИД-фонда Сан-Франциско.

## Биография

[ [править](#) | [править код](#) ]

**Клив Джонс**

англ. *Cleve Jones*



# Identification of imbalanced content

## Клив Джонс

В ноябре 1985 года, в канун годовщины убийства [Харви Милка](#) и [Джорджа Москоне](#), Кливу Джонсу попала на глаза заметка в газете, в которой говорилось, что от СПИДа в [Сан-Франциско](#) умерли уже 1 000 человек. Эта информация поразила Джонса, потому как многие из умерших были его друзьями или жили с ним по соседству в районе Кастро, он понял, что находится в центре ужасного невидимого бедствия. Клив Джонс рассказывал:<sup>[4]</sup>

от СПИДа. Но свою реализацию идея получила лишь спустя полтора года, в течение которых в жизни Клива Джонса произошло много драматических событий. [Тест](#) показал, что он сам заражён смертельным вирусом. Клив Джонс публично заявил по телевидению о том, что является ВИЧ-инфицированным, и тотчас стал получать угрозы в свой адрес, а однажды даже подвергся нападению двух бандитов, попытавшихся его убить. 10 октября 1986 года на руках у Клива Джонса умер от СПИДа его близкий друг Марвин Фельдман.<sup>[4]</sup>

# Identification of imbalanced content

## Клив Джонс

In November 1985, on the eve of the anniversary of the murder of [Harvey Milk](#) and [George Moscone](#), Cleave Jones caught the eye with a newspaper note saying that 1,000 people had already died of AIDS in [San Francisco](#). This information struck Jones because many of the dead were his friends or lived next door to him in the Castro area, he realized that he was at the center of a terrible invisible disaster. Clive Jones said:<sup>[4]</sup>

died of AIDS. But the idea was realized only a year and a half later, during which many dramatic events took place in the life of Cleve Jones. The [test](#) showed that he himself was infected with a deadly virus. Clive Jones publicly stated on television that he was HIV-positive, and immediately began to receive threats against him, and one day even attacked by two bandits who tried to kill him. On October 10, 1986, his close friend Marvin Feldman died of AIDS in Cleve Jones' arms.<sup>[4]</sup>

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## Cleve Jones

Jones [conceived the idea](#) of the [AIDS Memorial Quilt](#) at a candlelight memorial for Harvey Milk in 1985 and in 1987 [created the first quilt panel](#) in honor of his friend Marvin Feldman.<sup>[12]</sup> The AIDS Memorial Quilt has grown to [become the world's largest community arts project](#), memorializing the lives of over 85,000 Americans killed by AIDS.<sup>[13]</sup>

In an interview in November 2016 with [Terry Gross](#) on [NPR radio talk show Fresh Air](#), [Jones described his status as HIV-positive](#), and said while he first learned of his status when tests for infection came out the 1980s, he was likely infected with the virus around the winter of 1978 or 1979, based on blood samples collected from him as part of [a study he volunteered for](#).<sup>[3]</sup>

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Not just different [connotation](#), but also different [information](#)

# Conclusions

- **Extend English connotation frames to Russian and Spanish**
  - We collect annotations in-language and in-context
- **Propose matching algorithms** for controlled analyses
- **Identify differences in the connotations** expressed in Wikipedia biography articles about LGBT people **in different languages**
  - Connotations are more negative in Russian than English or Spanish
- Showcase how our model can be used to **identify imbalanced content**