### "Hello, I'm your Edge Case!"

or

"No, seriously! How do you ask someone for their gender on the internet?!"

> λTotoro 36c3, Chaos West









@lambdaTotoro (@chaos.social)

### Who am I?

Hello! I am  $\lambda$ Totoro. Good to see you! I am many things, among them ...

- $\blacksquare$  ... nonbinary<sup>1</sup>
- ...a M.Sc. in Intelligent Systems
- ...a CS PhD student @ FAU Erlangen
- ...a science communicator
- ... dealing with this since 10 years ago.



<sup>&</sup>lt;sup>1</sup>Pronouns: he/him or they/them

### What is this talk? (1)

It's a talk about this:

8.4	Bitte geben Sie Ihr Geschlecht an.	
	männlich	weiblich
	sonstiges	keine Angabe

### What is this talk? (2)

This is a talk on forms and about the responsibilities of people who design them.

It's a talk about how technology by itself is not neutral.

### What is this talk? (2)

This is a talk on forms and about the responsibilities of people who design them. It's a talk about how technology by itself is not neutral.

#### Content Notes:

Discussion of transmisia, intermisia, involuntary surgery

### What is this talk? (2)

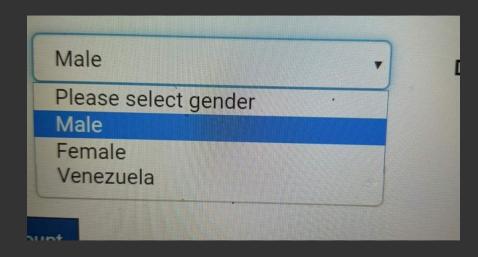
This is a talk on forms and about the responsibilities of people who design them. It's a talk about how technology by itself is not neutral.

#### **Content Notes:**

Discussion of transmisia, intermisia, involuntary surgery

I aim for roughtly the following composition:

- One part Education, "Humans 201"
- One part Advice, "Good form design"
- One part Fun, "Hilarious Form Fails"



### **Axioms**

A few things this talk is *not* an invitation to debate:

- *Trans people exist.*Trans women are women. Trans men are men. Nonbinary people are nonbinary.
- Cultural differences exist.
   Culture influences almost every aspect of our lives. A way of doing things is not less valid because it is new or strange to you.



### Why is this important?

Sloppy work on this end of your software...

- ... hurts your data.
- . . . hurts your users.
- ... hurts yourself.

Nobody likes unnecessary frustration.



The central points of this talk are as follows:

■ Make the model fit the user and not vice versa!

All models are wrong, some are useful. Stereotypes aren't!

- Make the model fit the user and not vice versa!

  All models are wrong, some are useful. Stereotypes aren't!
- Humans are moving targets!

  Humans change all the time. Your model will have to change with them!

- Make the model fit the user and not vice versa!

  All models are wrong, some are useful. Stereotypes aren't!
- Humans are moving targets!

  Humans change all the time. Your model will have to change with them!
- The empty model makes the fewest mistakes!

  You can't draw wrong conclusions from data you don't collect.

- Make the model fit the user and not vice versa!

  All models are wrong, some are useful. Stereotypes aren't!
- Humans are moving targets!

  Humans change all the time. Your model will have to change with them!
- The empty model makes the fewest mistakes!

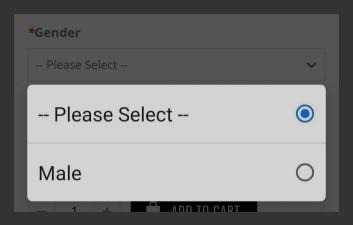
  You can't draw wrong conclusions from data you don't collect.
- Transparency is key!

  Make sure that both you and your users know what you're using the data for.

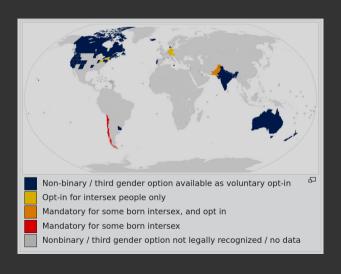
# Hello!

I'm your edge case!

# There's only two genders...



### Legal Recognition for Nonbinary People



### There's *more* than two genders!

⇒ Don't store gender in a Boolean.

Okay, three! There's only three genders!



 $(LGBT = Lesbian, Gay, Bi, Trans \notin Genders)$ 

### WORLD

# WHAT DO TINDER'S 37 NEW GENDER IDENTITY OPTIONS MEAN?

BY LUCY CLARKE-BILLINGS ON 11/18/16 AT 11:48 AM EST

### WORLD

## WHAT DO TINDER'S 37 NEW GENDER IDENTITY OPTIONS MEAN?

BY LUCY CLARKE-BILLINGS ON 11/18/16 AT 11:40 EST

### WORLD

# WHAT DO TINDER'S 37 NEW GENDER ID OPTIONS MEAN?

BY LUCY CLARKE-BILLINGS ON 11/18/16 AT 11:40

# INDER'S 37 NEW GENDER ID

BY LUCY CLARKE-BILLINGS ON 11/18/16 AT 11:40 EST

# INDER'S 37 NEW GENDER ID

BY LUCY CLARKE-BILLINGS ON 11/18/16 AT 11:40



# INDER'S 37 NEW GENDER ID

BY LUCY CLARKE-BILLINGS ON 11/18/16 AT 11:40









I see, it's not three either.

But however many you just said is enough, right?

### Humans are still a Moving Target



It's not a statistical outlier if enough people do it. . .

There's so many genders!

 $\Rightarrow$  Don't store gender in an enum, either.

But there's only two biological sexes... right?

### Intersex

If you are born with any variation of biological characteristics that don't match the "classical" categories, you might find yourself in the label "intersex".

Intersex people can have any gender identity. They are not "automatically" nonbinary.



# END INTERSEX SURGERY

INTERSEX JUSTICE PROJECT

http://www.intersexjusticeproject.org/

## Biology may be bimodal but it isn't binary!

 $\Rightarrow$  And you (probably) don't need to know.

But there's so many options...
That sounds like work!

### Comparative Bullshit Analysis

Mitglied w	erden - Deutscher Bundeswe	hrVerband - Mozilla Firefox	^ _ 0
Mitglied werden - Deu	G no love for mili	itary - Go × +	
← → ♂ ☆ □	≜ https://www.dbwv	.de/mitglieds	□ ☆
≡			Q
Persönliche Daten			
01. Eintrittsdatum	* 🛍		
Anrede*	•	Geburtsdatum*	m
Anrede*	h	akadem. Titel	٥
Herm			
Name*		Vorname*	
Adress-Zusatz			
DEUTSCHLAND	<b>\$</b>		
PLZ*	Wohnort*		\$
Straße*			
E-Mail-Adresse*			
Mobilnummer		Telefonnummer	
Waren Sie bereits einmal Mit	glied im DBwV?	gof alte DRwV-Mitglied	snummer

Mitglied werden - Deut × G no love for military - Go × + https://www.dbwv.de/mitglieds Titel akadem, Titel Min Dir Min.Rat. Dr. phil. DEUTSCHLAND Prof. Dipl.-Ing. Dr. h. c. Dr. med Dr. vet. Dipl.-Inform Dipl.-Päd. Dipl.-Betrw Präsident Dipl.-Kfm. Waren Sie bereits einmal Mitglied im DBwV? Priv.-Doz. Dr. Dipl.-Oec.-troph Dipl.-Wi.-Ing. Dipl.-Volksw Dienstliche Daten Dr. Dr. Ich bin\* Dienstgrad

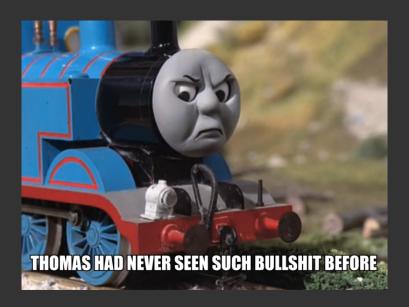
Salutation: 2 options

Academic title: 71 options

## Not asking is always an option!

⇒ Either the information is needed or not, act accordingly.

Can I just ask for preferred salutation and infer gender from that?

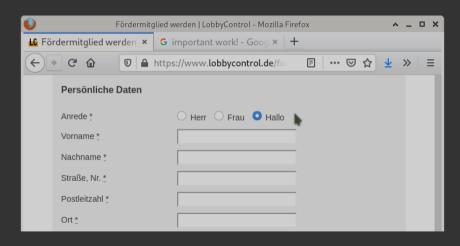


Guessing gender doesn't work!

⇒ Not from name, face, tweets, or anything.

You will get this wrong!

#### Salutations: Positive Example



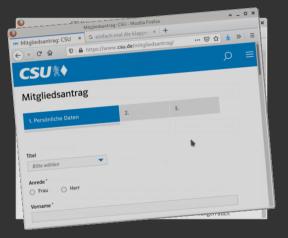
Salutations need neutral options too!

⇒ English has "Mx.", but "Hello!" works everywhere!

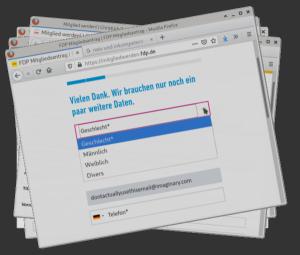
#### Case Study: Gender in Germany

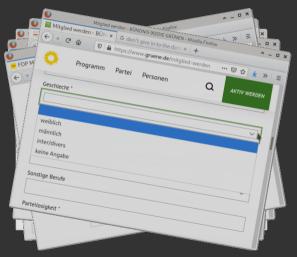
- Gender Marker: Four options
  - M/F//D
- Biological Configuration: Many options!
   Two dyadic (= not inter), inter in numerous combinations.
- **Gender: Countless options!**Man, Woman, Genderfluid, Agender, . . .

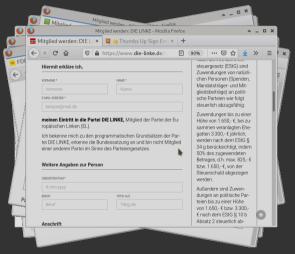














No, but *seriously*!

How do I ask people for their gender?!

Before asking:

Before asking:

■ Make sure you *need* the information.

#### Before asking:

- Make sure you *need* the information.
- Make sure *this* is the information you need.

#### Before asking:

- Make sure you *need* the information.
- Make sure *this* is the information you need.
- Make sure its *mutable* in your model.

#### Before asking:

- Make sure you *need* the information.
- Make sure *this* is the information you need.
- Make sure its *mutable* in your model.

#### And then ask!

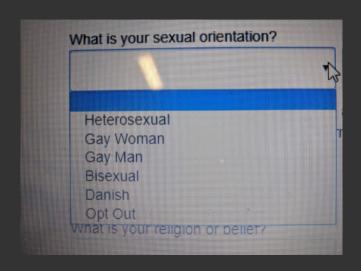
Tell them, what you need the answer for and give either none or as many options as is reasonable under the circumstances<sup>2</sup> but always also give a text field for free-form answers.

<sup>&</sup>lt;sup>2</sup>that's *almost always* more than 2!

#### Popular with the Target Demographic

Gender I HAVE NO GENDER, ONLY RAGE. \* Female Male Agender Genderfluid I HAVE NO GENDER, ONLY RAGE. None of your business. Bigender Other

#### Also applies to other questions



#### Future Work



Consider also: Names, Addresses, ...

#### Conclusion, again!

The central points of this talk are as follows:

- Make the model fit the user and not vice versa!

  All models are wrong, some are useful. Stereotypes aren't!
- Humans are moving targets!
  Humans change all the time. Your model will have to change with them!
- The empty model makes the fewest mistakes!

  You can't draw wrong conclusions from data you don't collect.
- Transparency is key!

  Make sure that both you and your users know what you're using the data for.

#### Recommendations:

```
"False assumptions developers make about gender" by @ineffyble
https://speakerdeck.com/ineffyble/
false-assumptions-developers-make-about-gender-and-their-sometimes-hilarious-results
```

#### Falsehoods programmers believe about...

- ...gender: https://medium.com/gender-2-0/falsehoods-programmers-believe-about-gender-f9a3512b4c9c
- ...names:
  https://shinesolutions.com/2018/01/08/
  falsehoods-programmers-believe-about-names-with-examples/
- ...addresses: https://www.mjt.me.uk/posts/falsehoods-programmers-believe-about-addresses/

Geschickt Gendern - Das Genderwörterbuch: https://geschicktgendern.de/