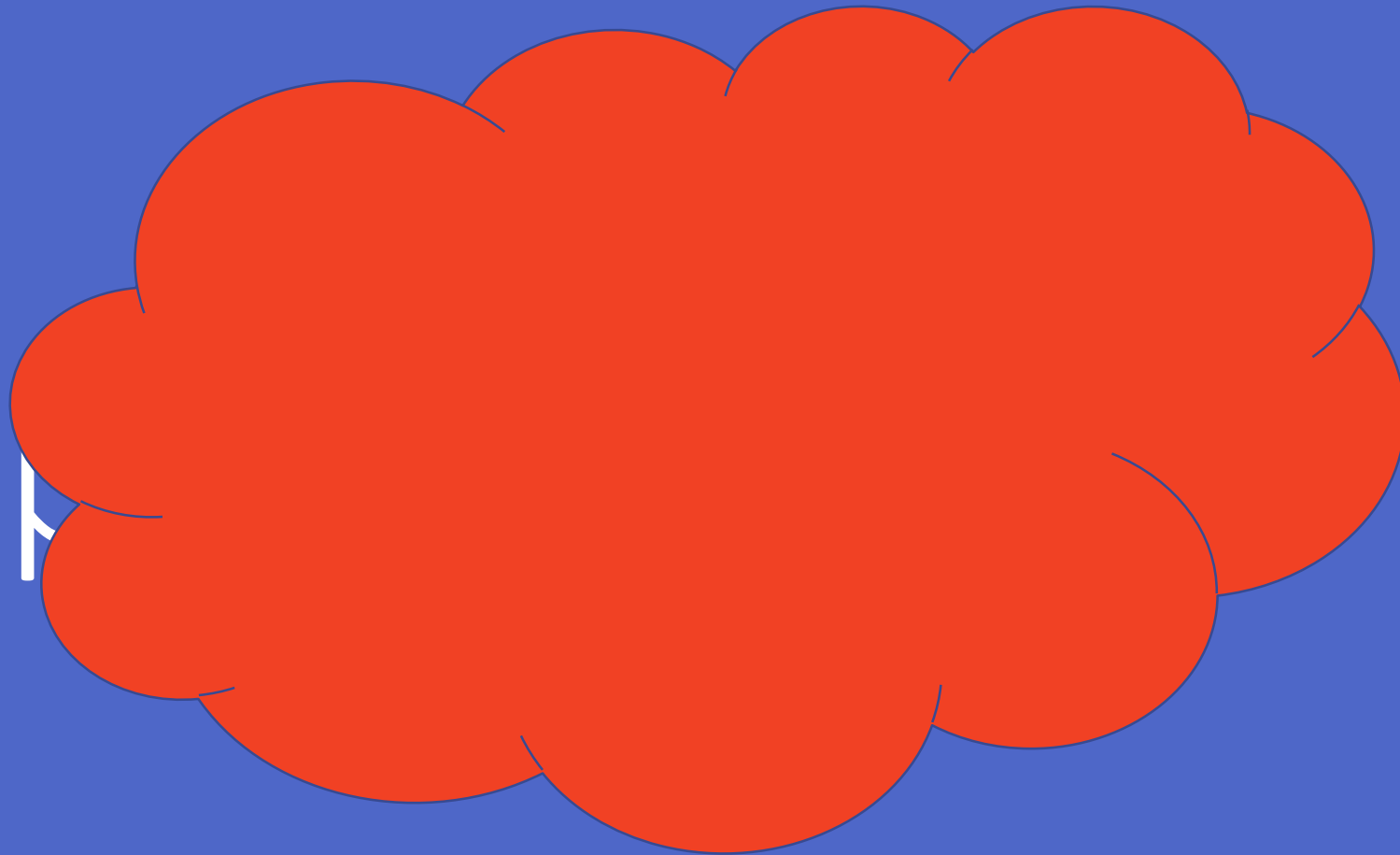


Collection

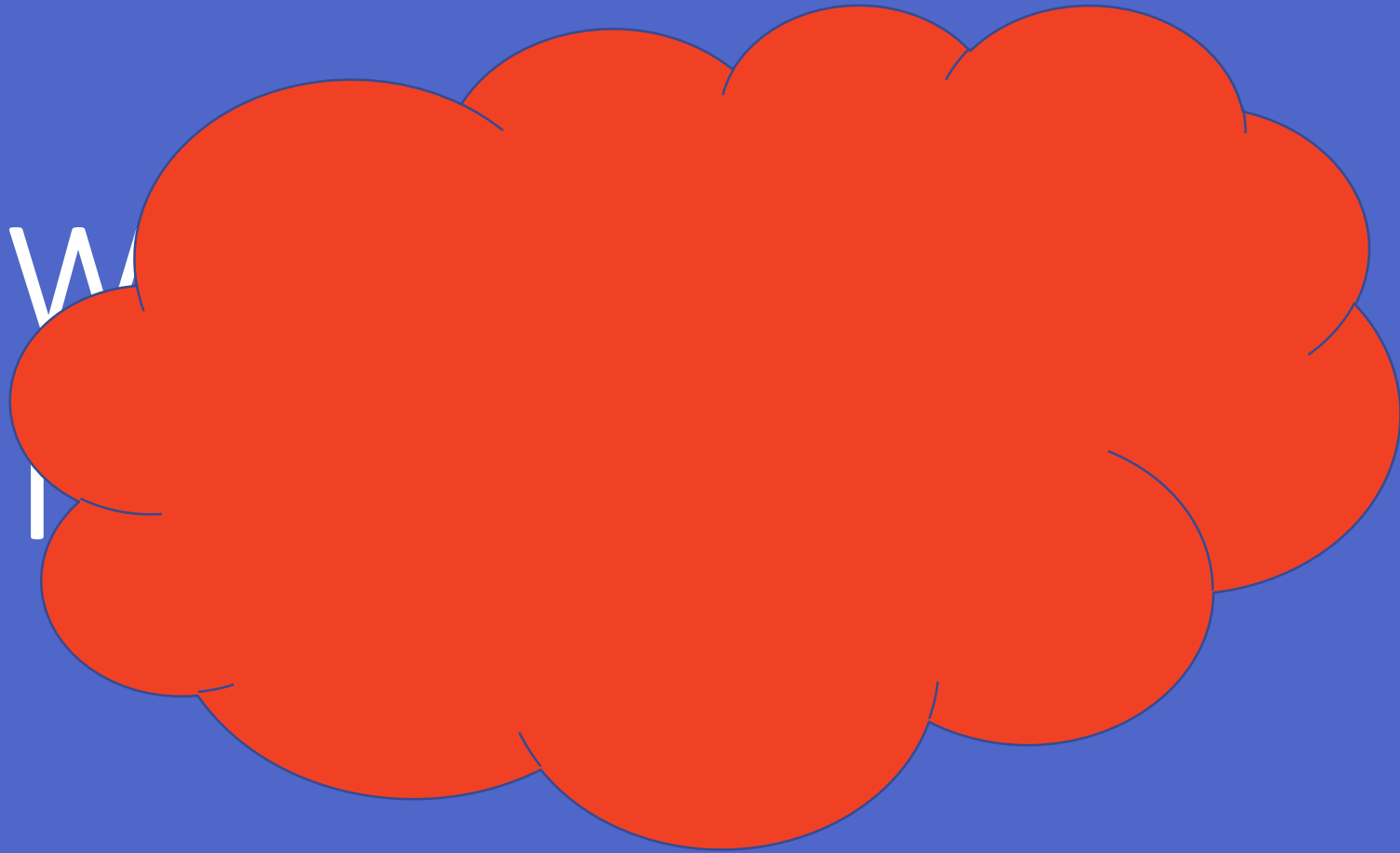
with

Opal Symes — [@software_opal](#)

The p



Be aware
assur

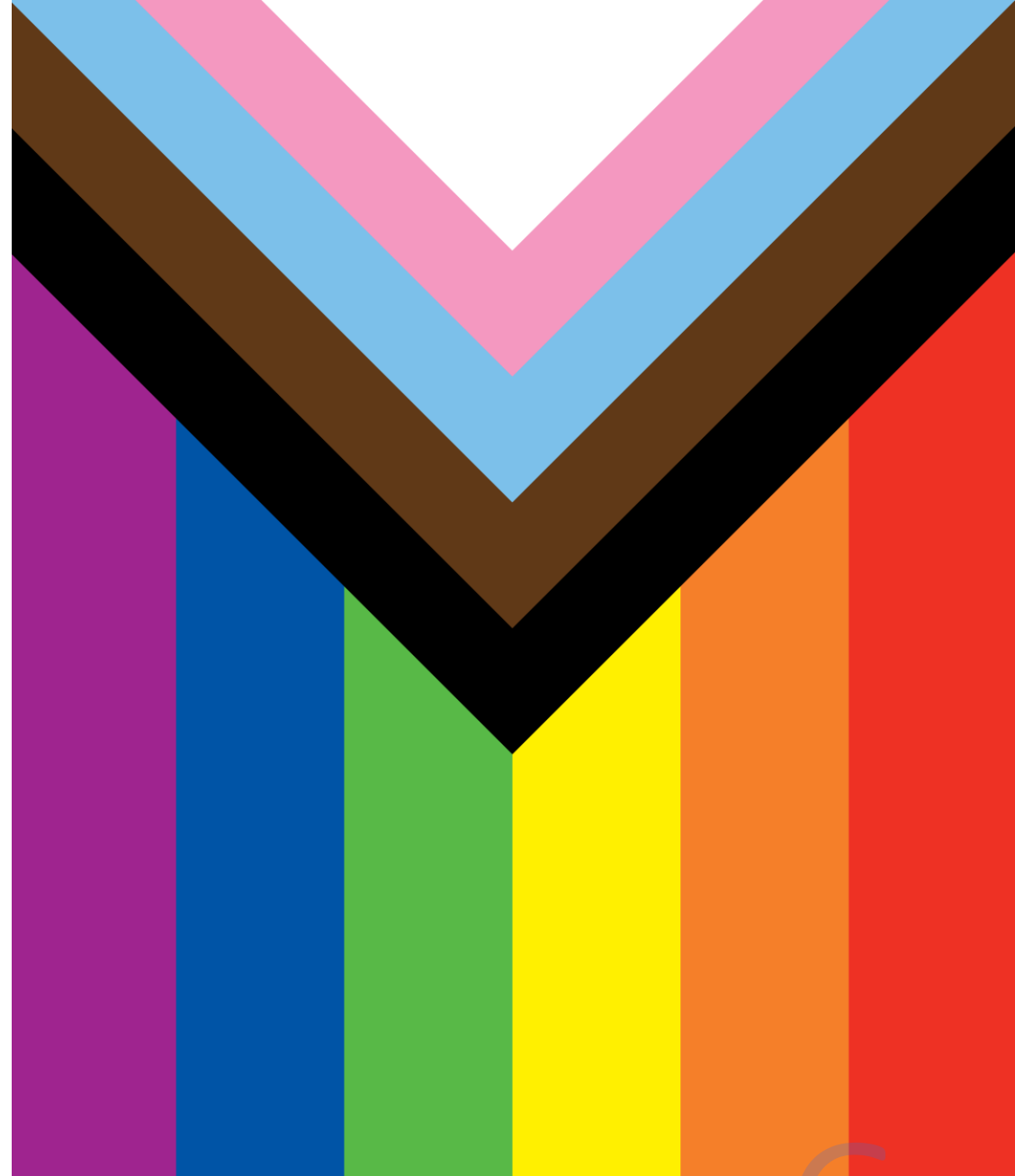


About Me

DevOps

Elixir, JavaScript, Python, and Rust

About Me



“Progress” Pride Flag by Daniel Quasar is licensed
under CC-BY-NC-SA-4.0

Outline

Names

Emails

Gender

Changes & Deletion

Names

A newsletter

First Name

Last Name

First Name* Opal
Last Name* Symes

Dear Opal Symes,
We're just saying hi!

A newsletter

First Name

Last Name

First Name* Opal
Last Name* Symes

Dear Opal Symes,
We're just saying hi!

Names

Name

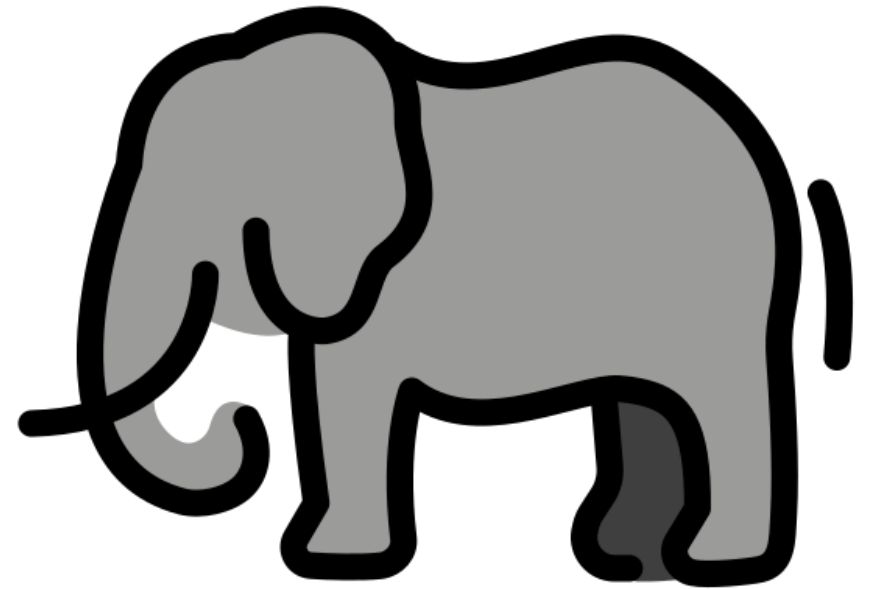
Clíodhna

We think you've mis-typed your first name - please try again

Ní

Unicode

“Unicode covers all the characters for all the writing systems of the world, modern and ancient.”



Emoji designed by OpenMoji CC BY-SA 4.0

Databases

Check production supports Emoji ... everywhere

MySQL Character Encodings

utf8mb3 – Added to MySQL 4.1 in 2004 to cover “almost all modern languages”

utf8mb4 – Added to MySQL 5.5 in 2010 to cover the rest of the Unicode spec

utf8 = utf8mb4 – Default switched in MySQL 8(maybe)

<https://mysqlserverteam.com/mysql-8-0-when-to-use-utf8mb3-over-utf8mb4>

Database Tweaks

Set the character set & collation on each database, table & text column

Set the defaults so new columns are correct

Set connection options so things don't get lost in the transfer

<https://mathiasbynens.be/notes/mysql-utf8mb4>

Names – Recap

First Name

Last Name

First Name* Opal
Last Name* Symes

Dear Opal Symes,
We're just saying hi!

Names

First Name

毛

Last Name

泽覃

Dear 毛 泽覃,

We're just saying hi!

Names

Switching to displaying first name only

Dear 毛,
We're just saying hi!

Dear Symes,
We're just saying hi!

Names in depth

Names are wide and varied across cultures

The first 'word' in a name is not necessarily someone's given name

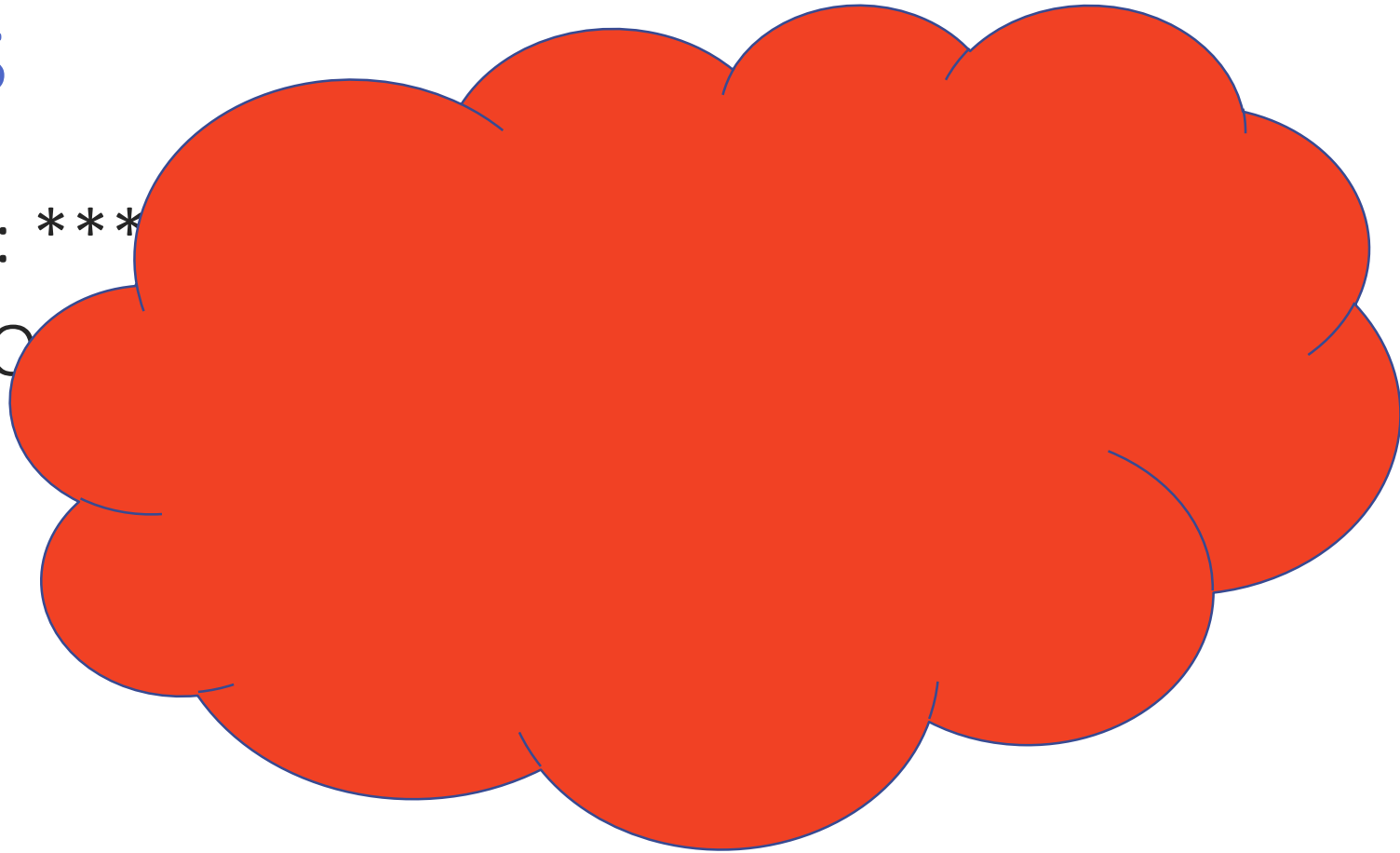
Names can be long

<https://www.w3.org/International/questions/qa-personal-names>

Names

Full Name: ***

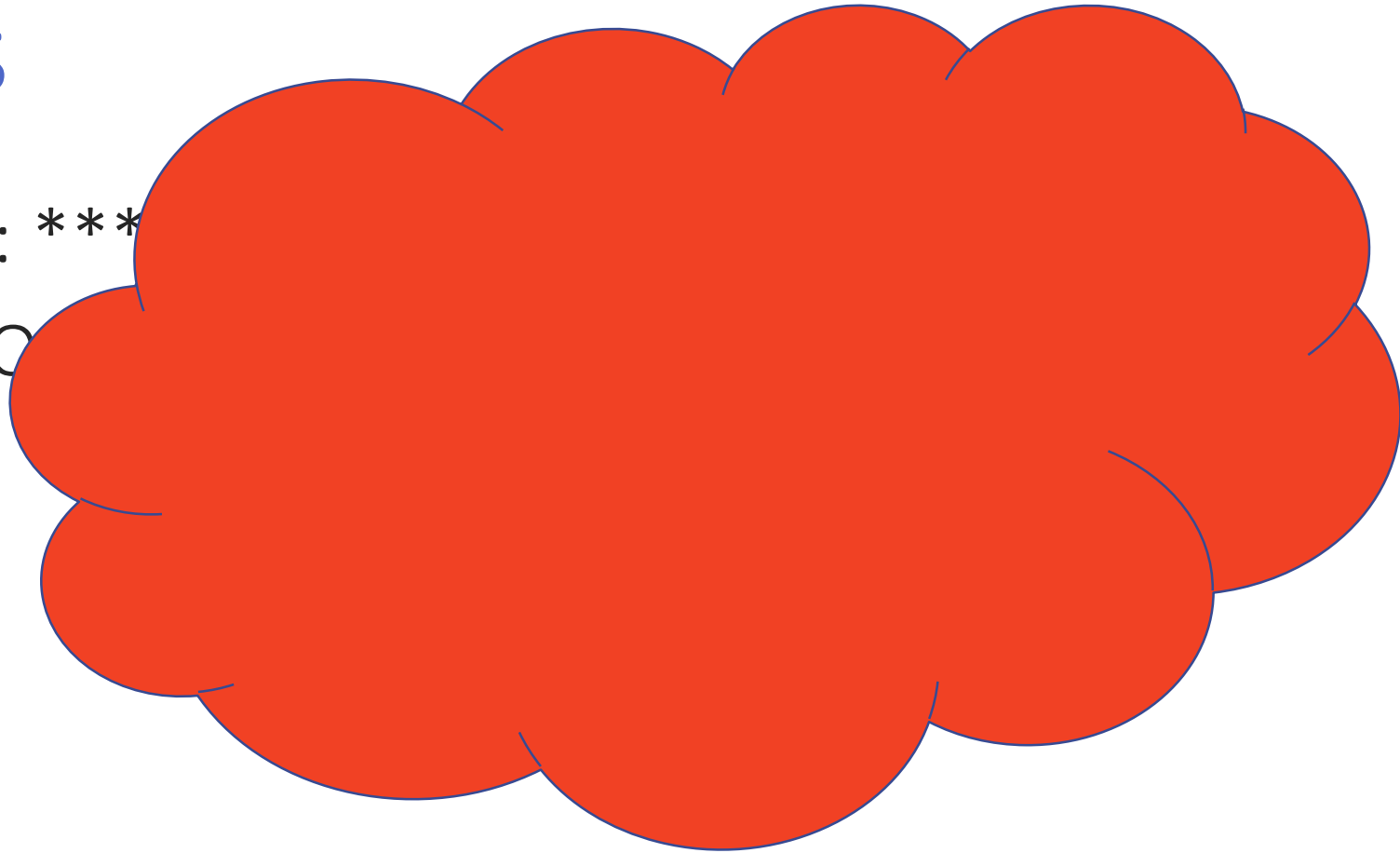
Greeting: O



Names

Full Name: ***

Greeting: O



Names – Summary

Full name/Given name

Unicode all the way down

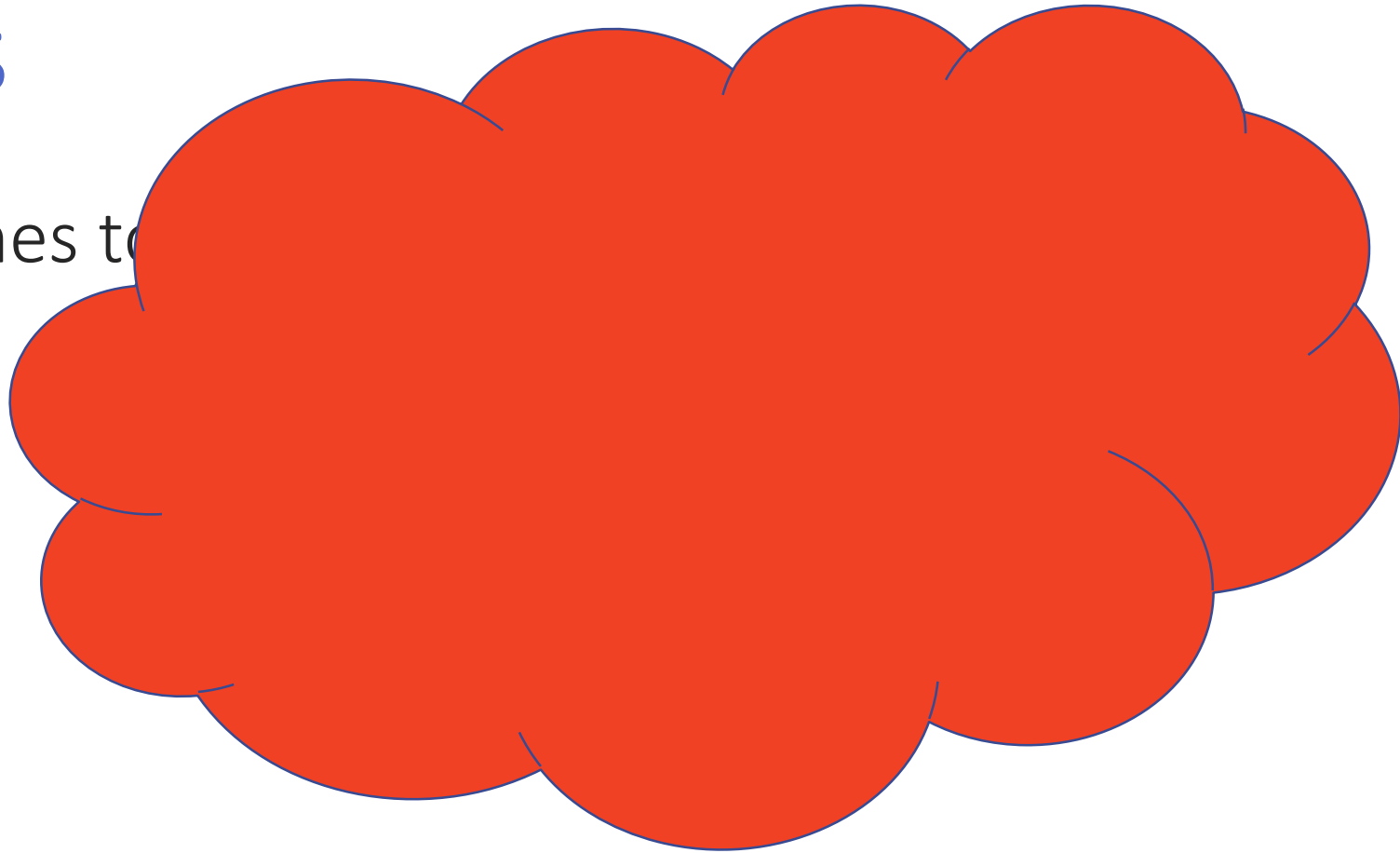
No length limits

A multitude of names

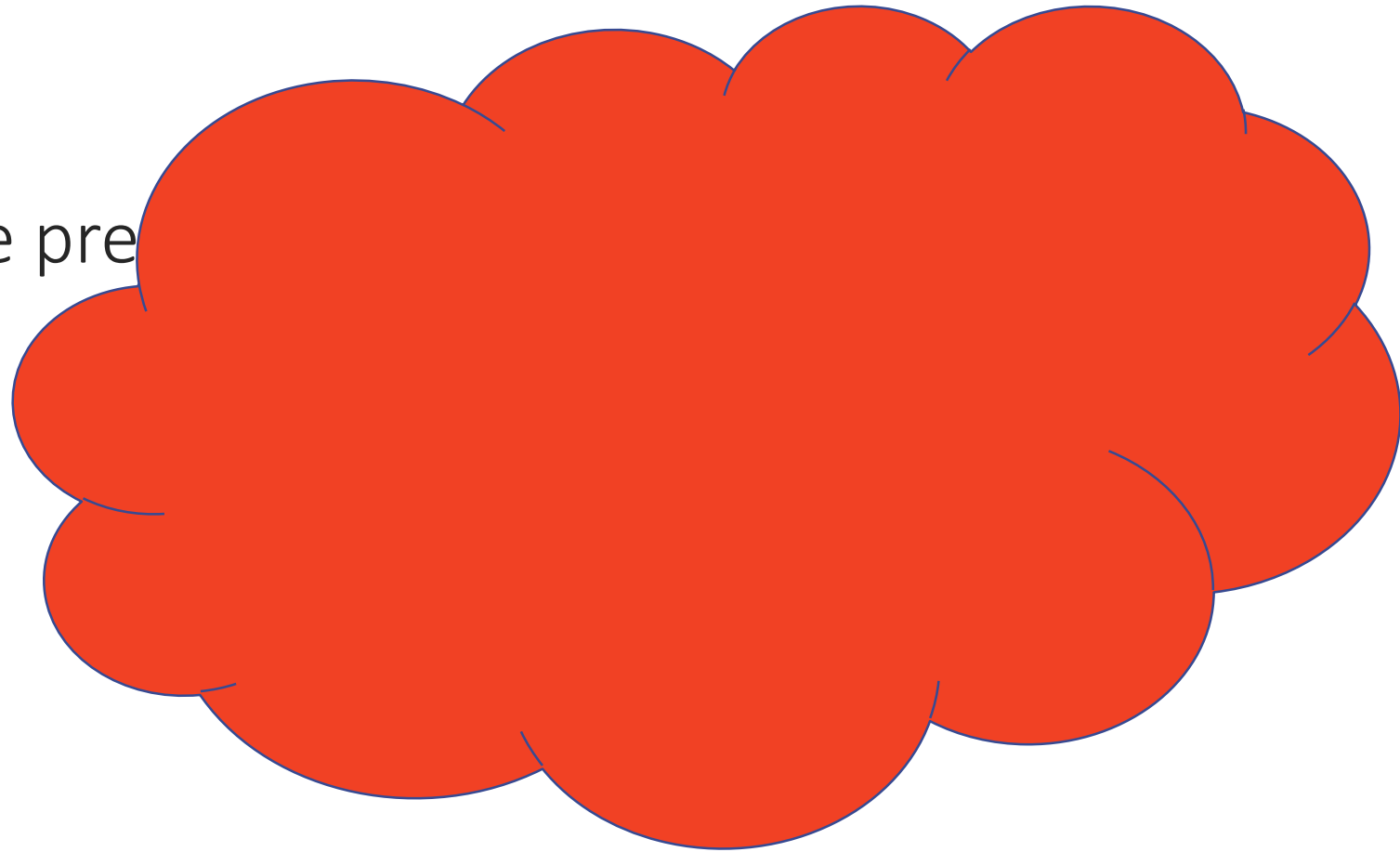


Names

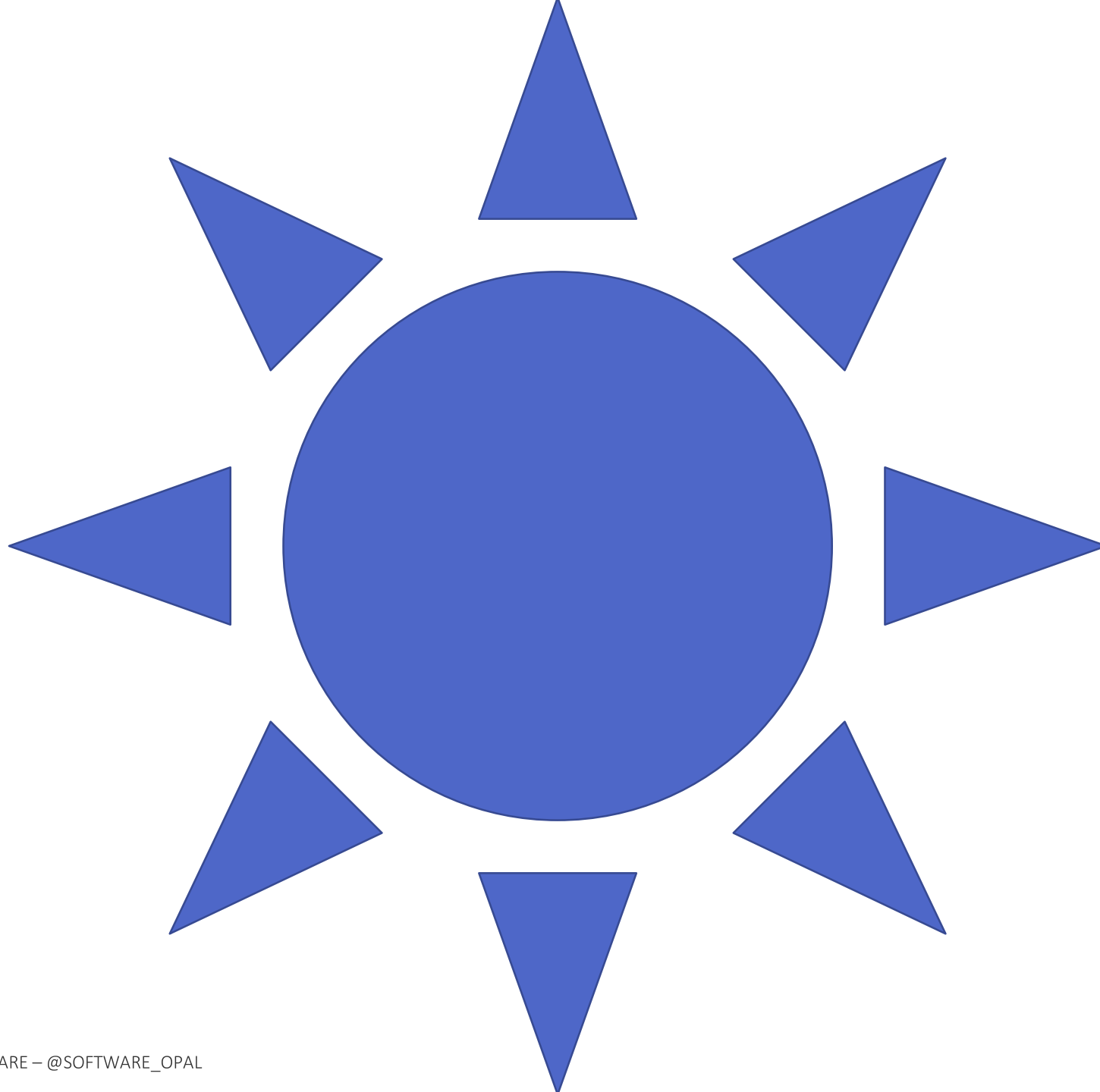
Many names to



TODO: See pre



Email



Newsletter

Name – ~~First & Last~~ – Greeting

Email

Validating Emails

SIMPLE

Does it have an '@'

Similarity to well known email providers:

Think gnail vs gmail

COMPLEX

Look for MX records

Ask the SMTP server if the username is valid

Newsletter

Name

- Avoid separating names into first & last

- UTF-8 everywhere

- Don't limit length

Email

- Simple checks to catch common errors

- Don't limit characters & length

Gender

Community

Gender composition

Gender	<input checked="" type="radio"/> Female
	<input type="radio"/> male

Non-binary

TODO

Community

Gender composition

Gender	<input checked="" type="radio"/> Female
	<input type="radio"/> Male
	<input type="radio"/> NB

Community

Gender composition

```
Do you consider yourself to be transgender?  
( ) Yes  
( ) No  
( ) Questioning  
  
Do you consider yourself to be gender non-conforming, gender diverse, ge  
( ) Yes  
( ) No  
( ) Questioning  
  
Are you intersex?  
( ) Yes  
( ) No  
( ) I don't know  
  
Where do you identify on the gender spectrum (check all that apply)?  
[ ] Woman  
[ ] Demi-girl  
[ ] Man  
[ ] Demi-boy  
[ ] Non-binary  
[ ] Demi-non-binary  
[ ] Genderqueer  
[ ] Genderflux  
[ ] Genderfluid  
[ ] Demi-fluid  
[ ] Demi-gender  
[ ] Bigender  
[ ] Trigender  
[ ] Two-Spirit  
[ ] Multigender/polygender  
[ ] Pangender/omnigender  
[ ] Maxigender  
[ ] Aporagender  
[ ] Intergender  
[ ] Maverique  
[ ] Gender confusion/Gender f*ck  
[ ] Gender indifferent  
[ ] Graygender  
[ ] Agender/genderless  
[ ] Demi-agender  
[ ] Genderless  
[ ] Gender neutral  
[ ] Neutrois  
[ ] Androgynous  
[ ] Androgyne  
[ ] Prefer not to answer  
[ ] Self Identify: _____
```

<http://nikkistevens.com/open-demographics/>

Community

Gender composition

Please indicate any of the following under represented communities you identify with

☐ gender

☐ Race

☐ None

☐ age

☐ Religion

☐ Prefer not to Say

Community

Gender composition

gender :
(optional)

Gender – Pronouns

He, She, and They

Pronoun.is

Gender – Pronouns

He, She, and They

Pronoun.is

Custom field

Gender – Pronouns

He, She, and They – Translations


Gender, with restrictions

WGEA

The Act defines gender as **female or male**. If an employee does not identify as either female or male, you do not need to include them in your workplace profile.

WGEA

Gender APIs - Don't



[All](#) [News](#) [Images](#) [Shopping](#) [Videos](#) [More](#) [Settings](#) [Tools](#)

About 102,000,000 results (0.42 seconds)

Gender API - Determines the gender of a first name

<https://gender-api.com> ▼

Keep your registration form simple. Optimize your conversations and let us determine the **gender** of your customer.

[Faq](#) · [Gender-API API Clients](#) · [Api Docs](#) · [Gender-API.com account](#)

Faq - Gender API - Determines the gender of a first name

<https://gender-api.com/frequently-asked-questions> ▼

The new European General Data Protection Regulation (GDPR) goes into effect on May 25, 2018. We can assure you that all **Gender-API.com** services will be in ...

Gender API

<https://genderapi.io> ▼

Detection **gender** from name or email address. And also you can find social media users **gender's** by their username. Find your name is female or male, get ...

[Instagram Gender](#) · [İsimden Cinsiyet](#) · [FAQ](#) · [Name Geschlecht](#)

Genderize.io | Determine the gender of a name

<https://genderize.io> ▼

Free **API** to predict the **gender** of a name. Easy integration into any platform. Over 250.000 names in our database, Serving more than 1 million requests/day.

[Localization](#) · [Rate Limiting](#) · [Responses & Errors](#)

Summary

Gender as a textbox, or do the work to capture everything

Ask more direct questions instead of gender

Gender != Pronouns; ask for them separately

Store newsletter

Email	<input type="text"/>	
Interested categories	Mens	Womens
	<input type="checkbox"/> Shirts	<input type="checkbox"/> Shirts
	<input type="checkbox"/> trousers	<input type="checkbox"/> trousers
	<input type="checkbox"/> Sleepwear	<input type="checkbox"/> Dresses
		<input type="checkbox"/> Sleepwear

Newsletter

2, Electric Boogaloo

Data retention

Changing

Make it simple to change

Give users options if it isn't

Changing Name

Personal details

If your name has changed, or is incorrect, please visit our [Help & Contact](#) page to update it.

Name

Mrs [REDACTED]

Middle name optional

[REDACTED]

Preferred name optional

☐ Display my preferred name

We'll display this name on the seatback entertainment screen, and other communications when we can. Don't have one? We'll use your first name instead.

Date of birth

[REDACTED]

Changing username

Username are often names

Changing them comes with some caveats

Changing usernames

Use IDs/UUIDs to link to users instead of usernames

Changing usernames

What happens to old usernames?

Changing Email

Deleting data

Conclusion

Names

Unicode everywhere

Don't assume first name is someone's given name

Make changing them easy

Use a “preferred” name when changing is hard

Emails

Follow the RFC(5322). Accept everything the RFC does
Make changing email easy; but secure it

Data retention

Make it easy to update information stored

Be aware of the risks around changing usernames & emails

Allow users to delete their data easily.

Things I didn't cover

Security

Privacy

Passwords

Encryption(in flight & at rest)

Thank you

Slides, notes & references – opal.codes/lca2020