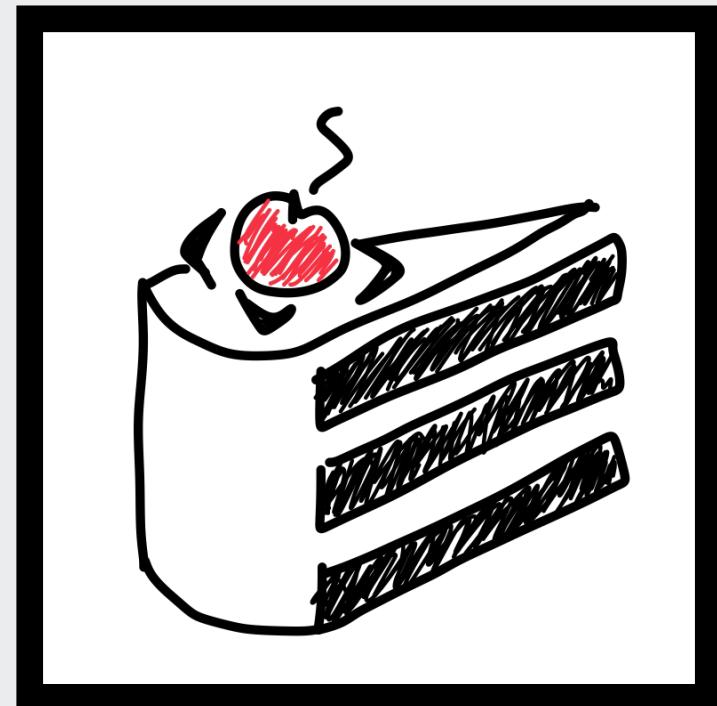


the cake
IS A Lie!

... and so is your login's accessibility

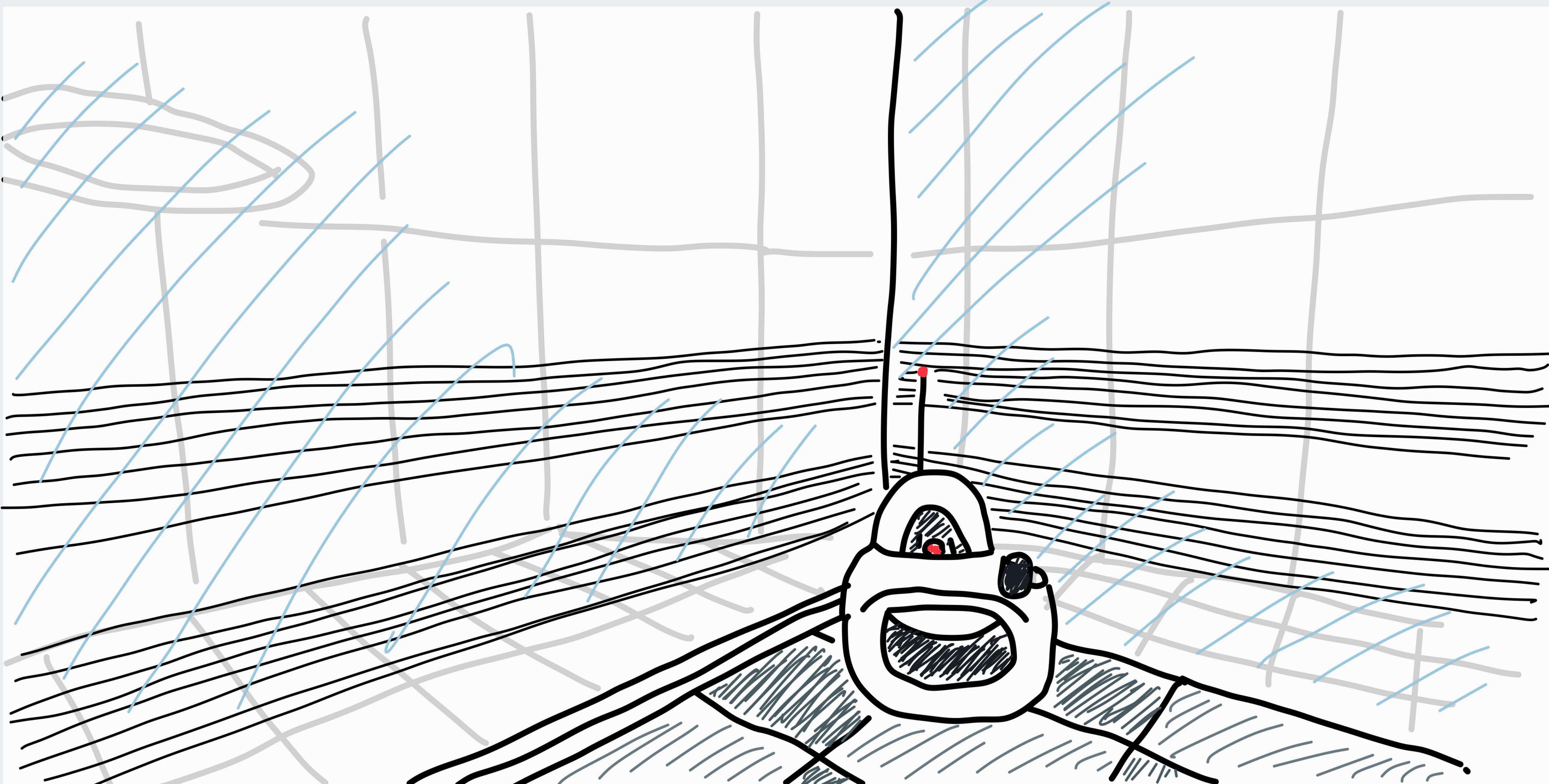




The cake is a lie!



@leichteckig

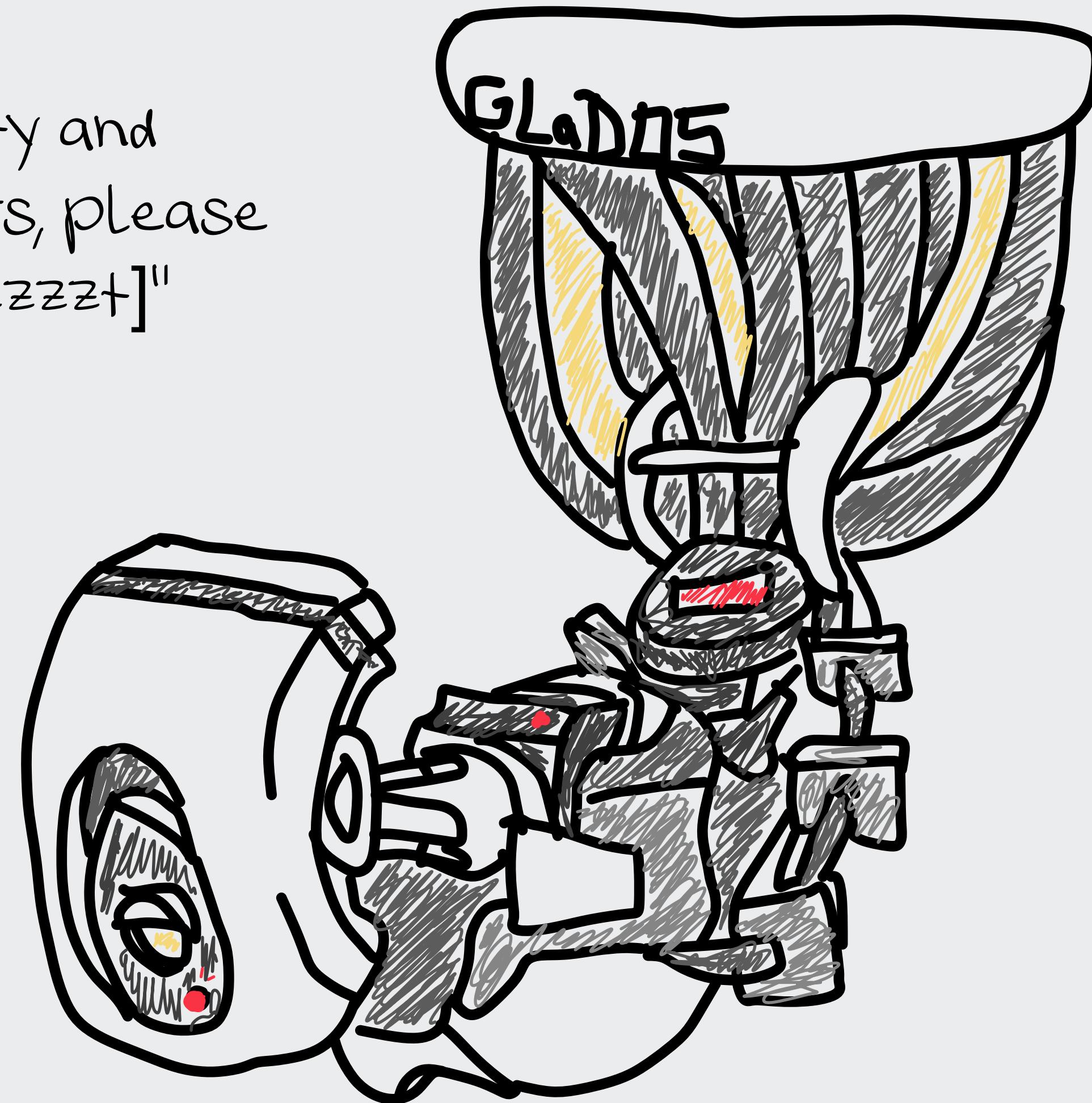


The cake is a lie!



@leichteckig

"For your own safety and
the safety of others, please
refrain from-- [bzzzzzt]"



"Por favor bordon de
fallar Muchos gracias
de fallar gracias"

The cake is a lie!



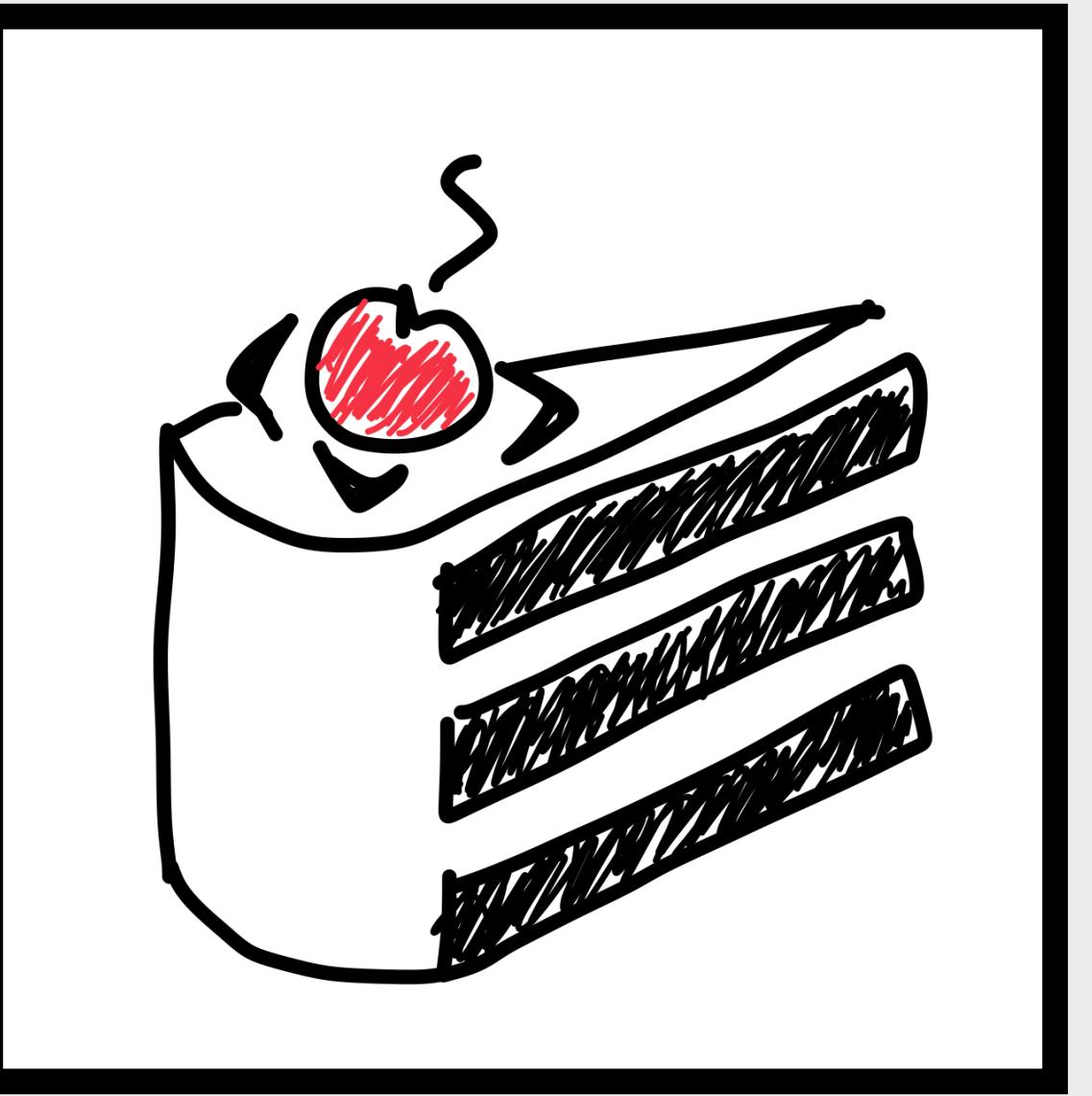
@leichtekig

PORTAL

The cake is a lie!



@leichteckig



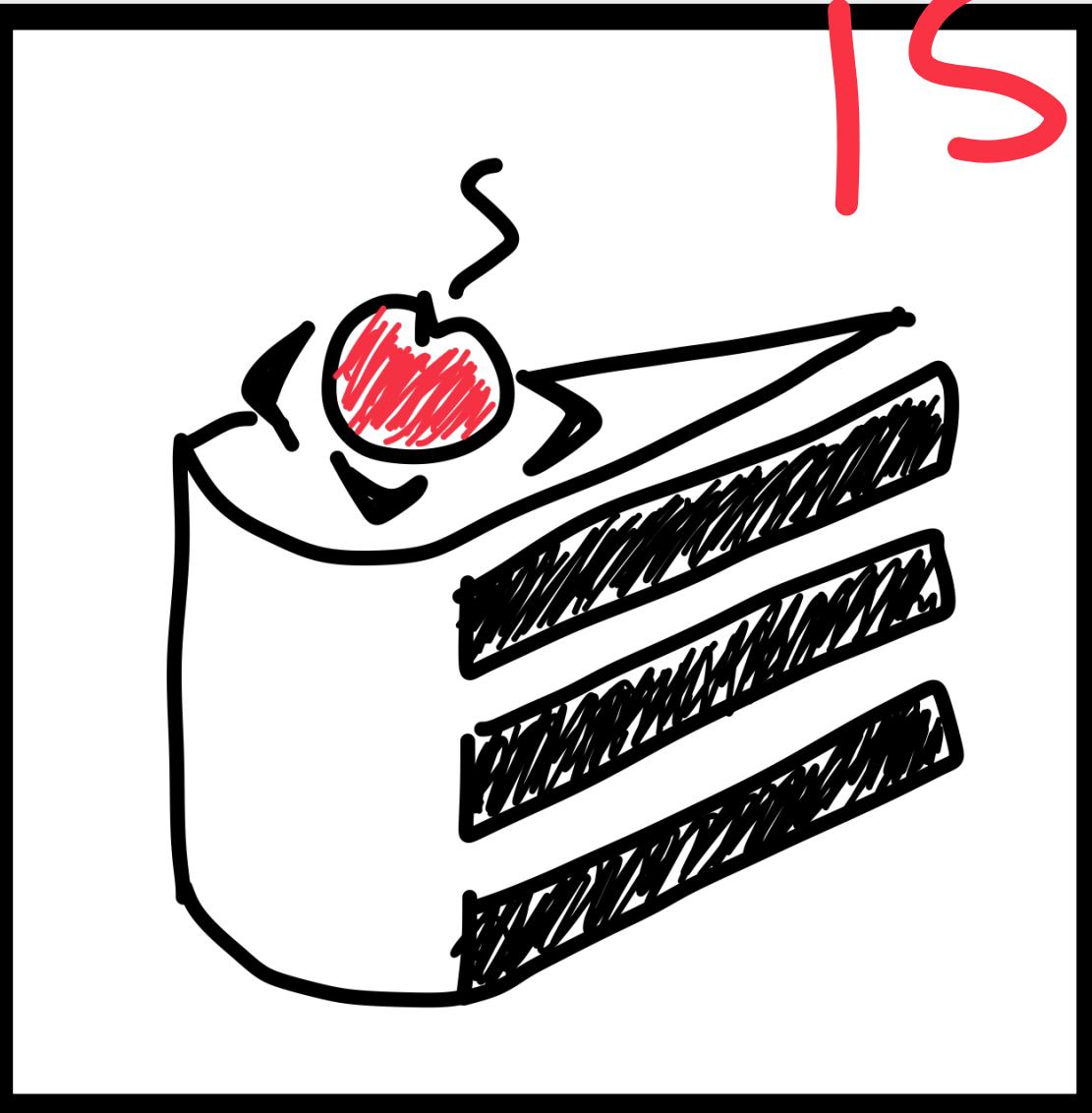
A11y == Usability for
everyone (not just a "nice to
have")

The cake is a lie!



@leichteckig

the cake
IS A Lie!

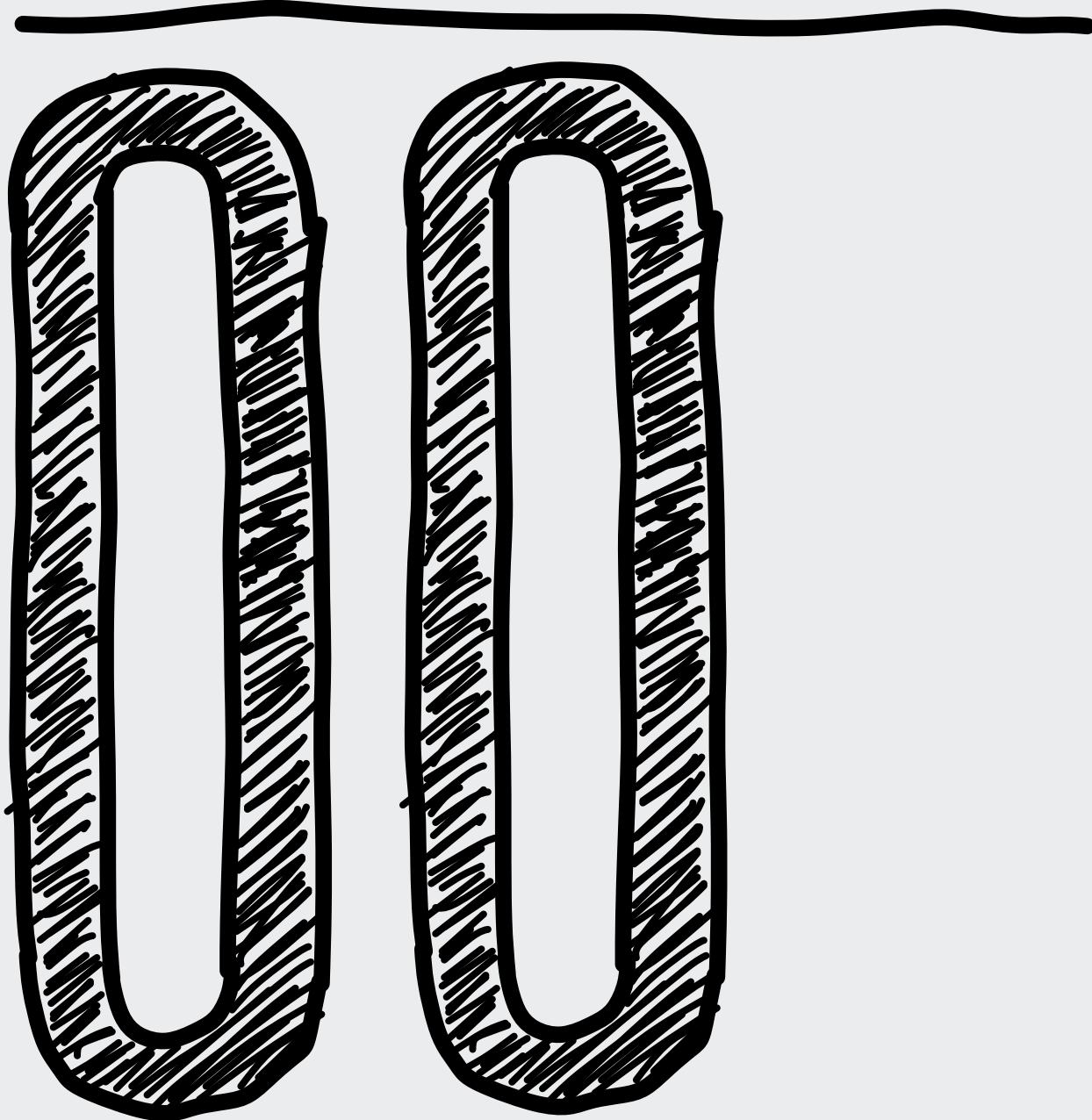


A11y == Usability for
everyone (not just a "nice to
have")

The cake is a lie!

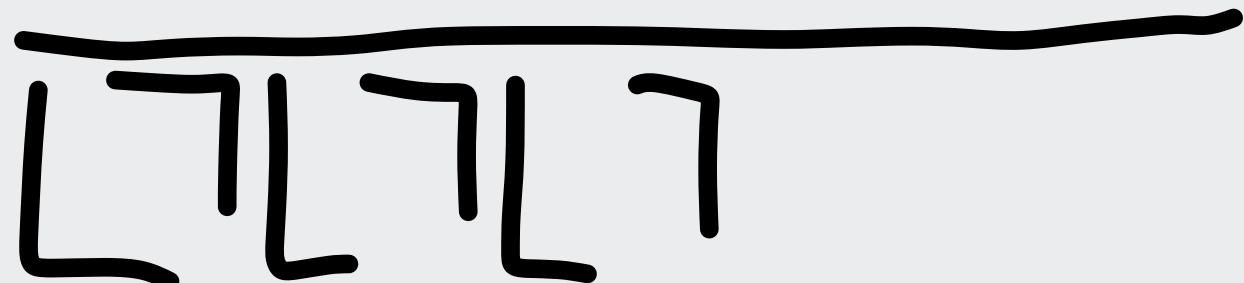
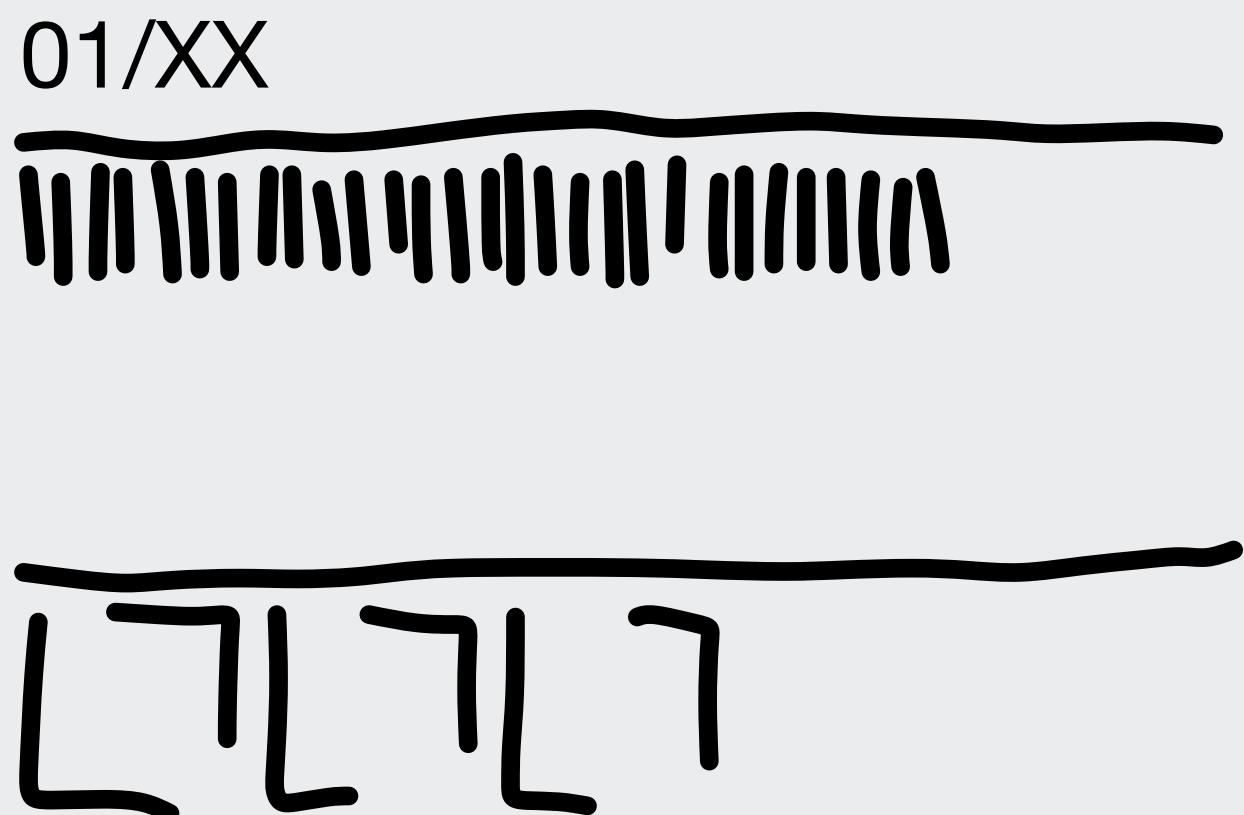


@leichteckig



"Hello and, again, welcome to the [a11y] enrichment center."

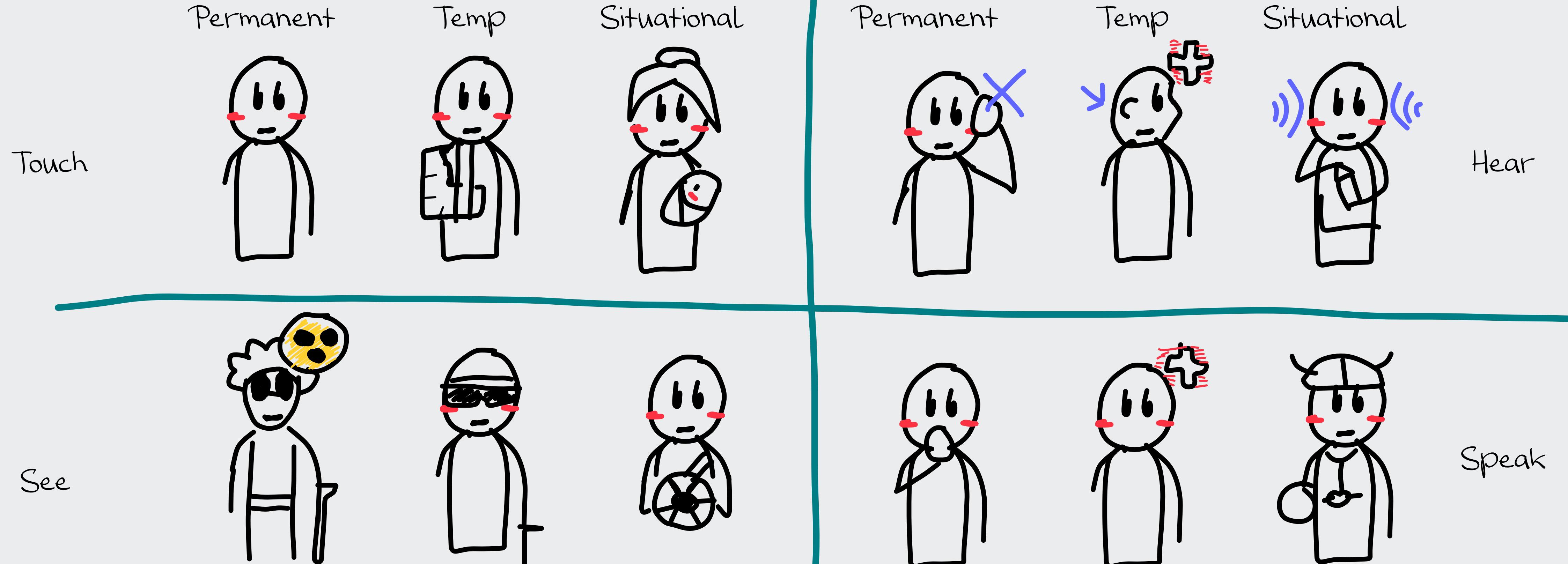
- IRL Situation



The cake is a lie!



@leichteckig



The cake is a lie!

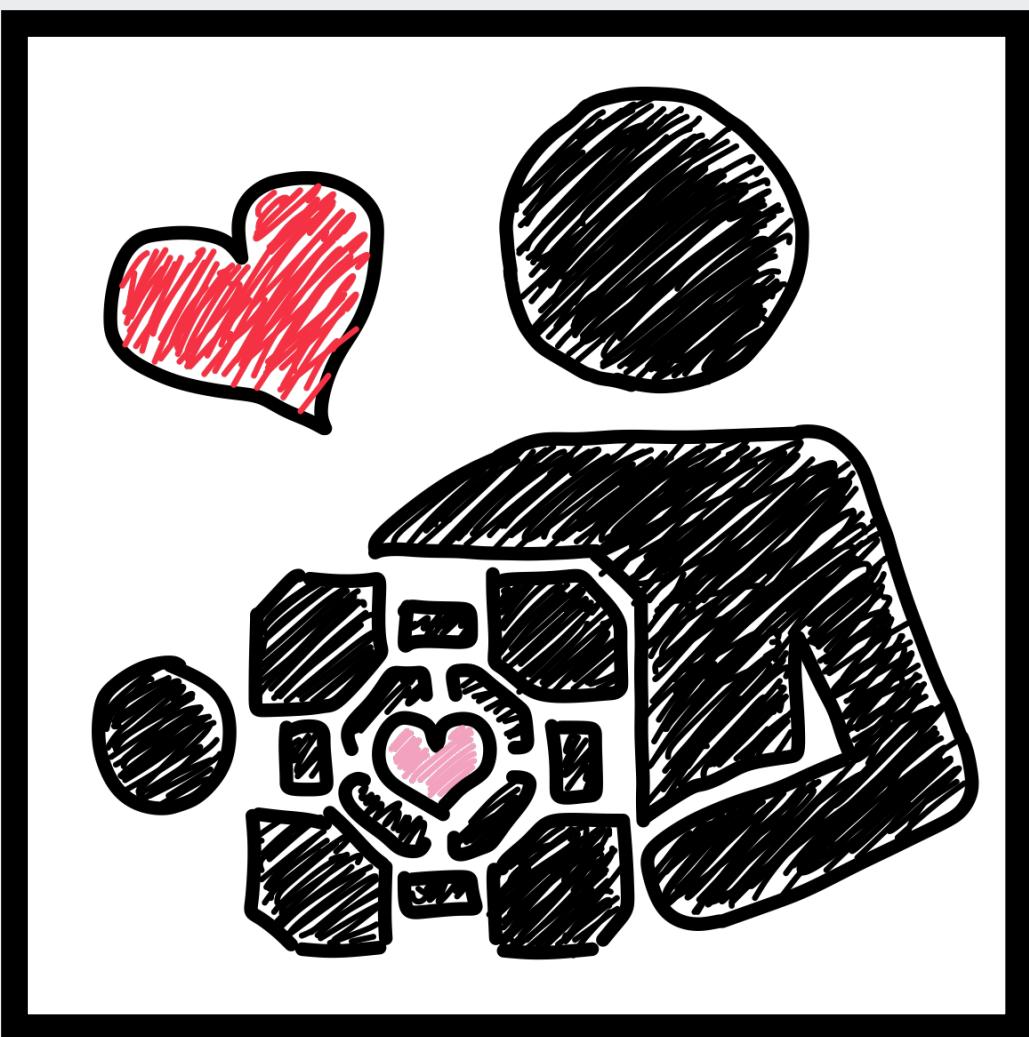


@leichteckig

... but this spectrum involves more.



Web Content Accessibility Guidelines (WCAG)

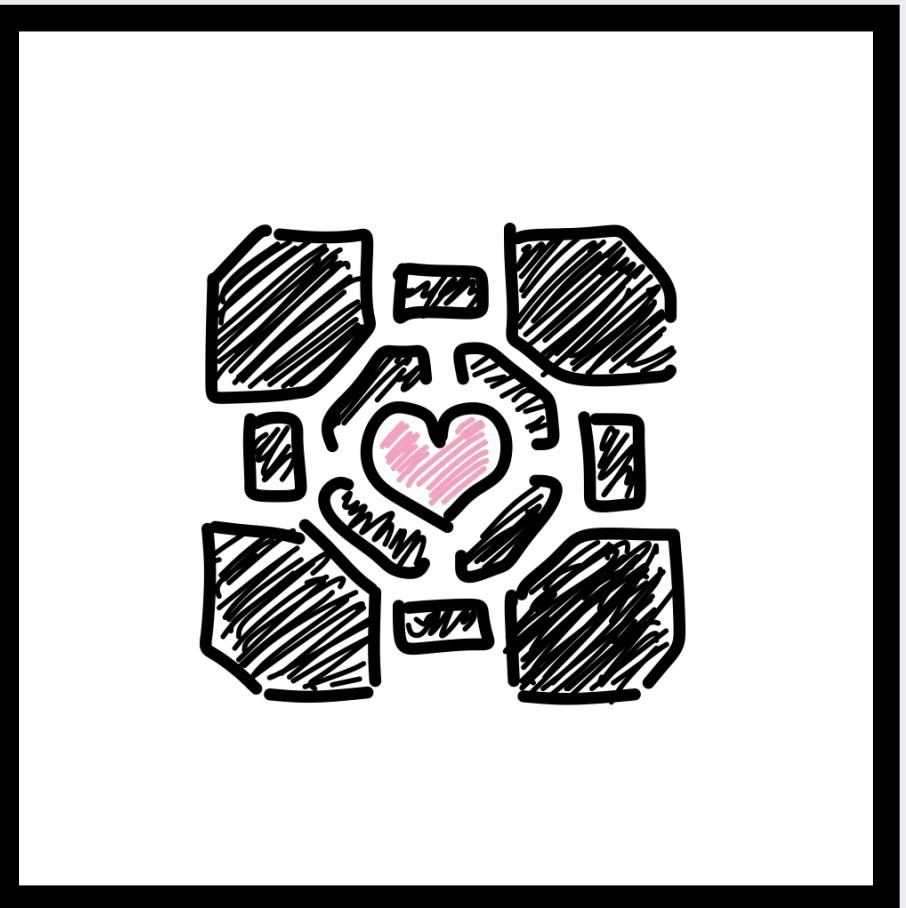


The cake is a lie!



@leichteckig

Accessible Authentication! ❤



The cake is a lie!



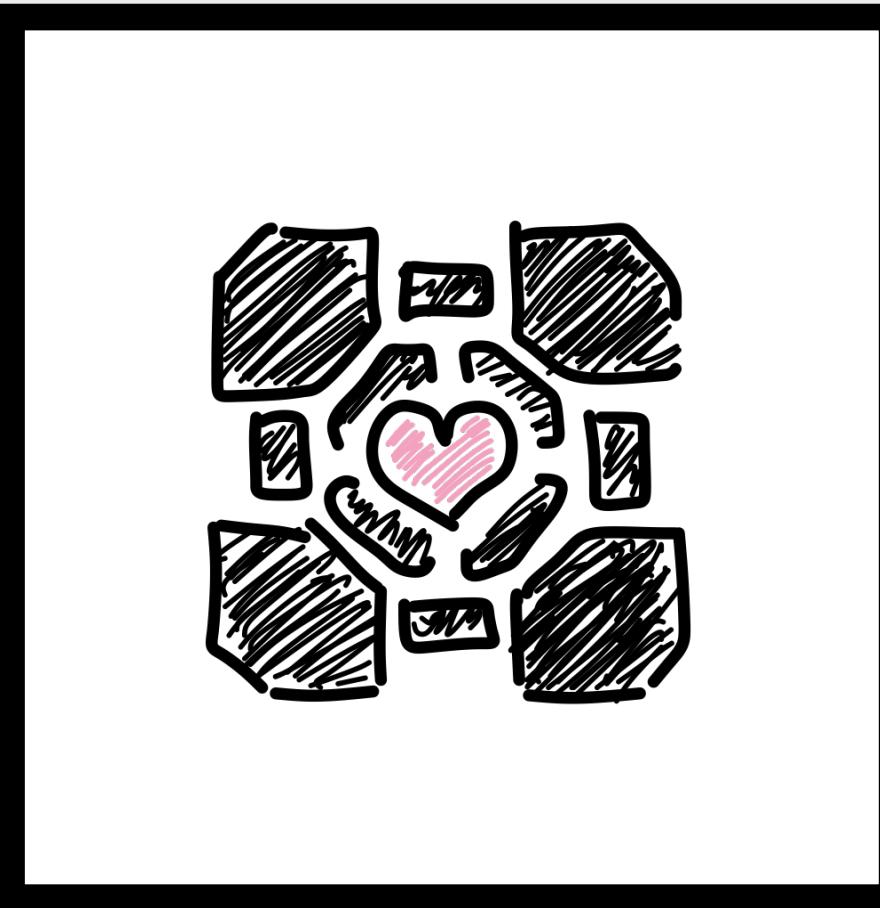
@leichteckig



Accessible Authentication!



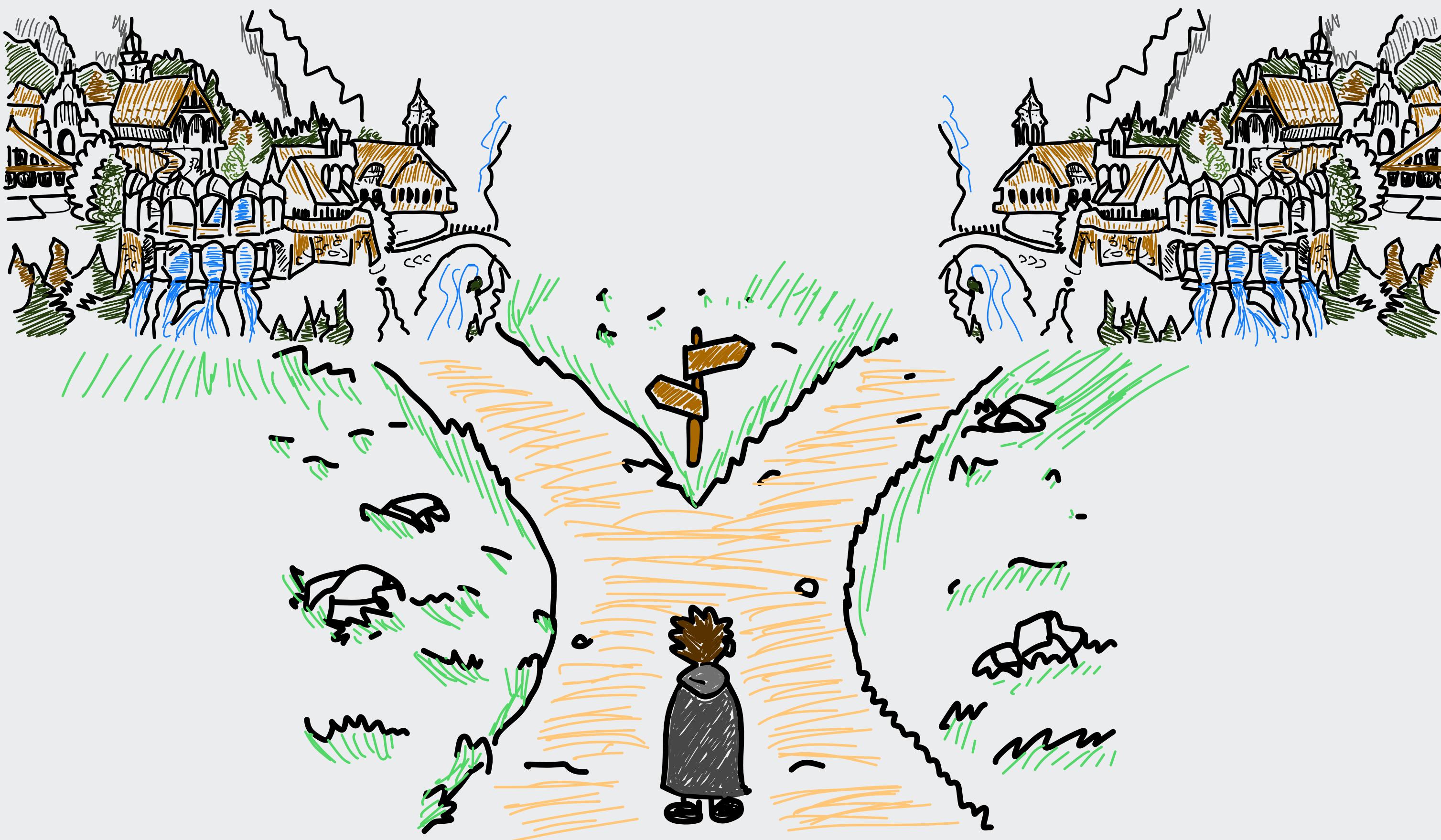
Cognitive test!?



The cake is a lie!



@leichteckig



The cake is a lie!

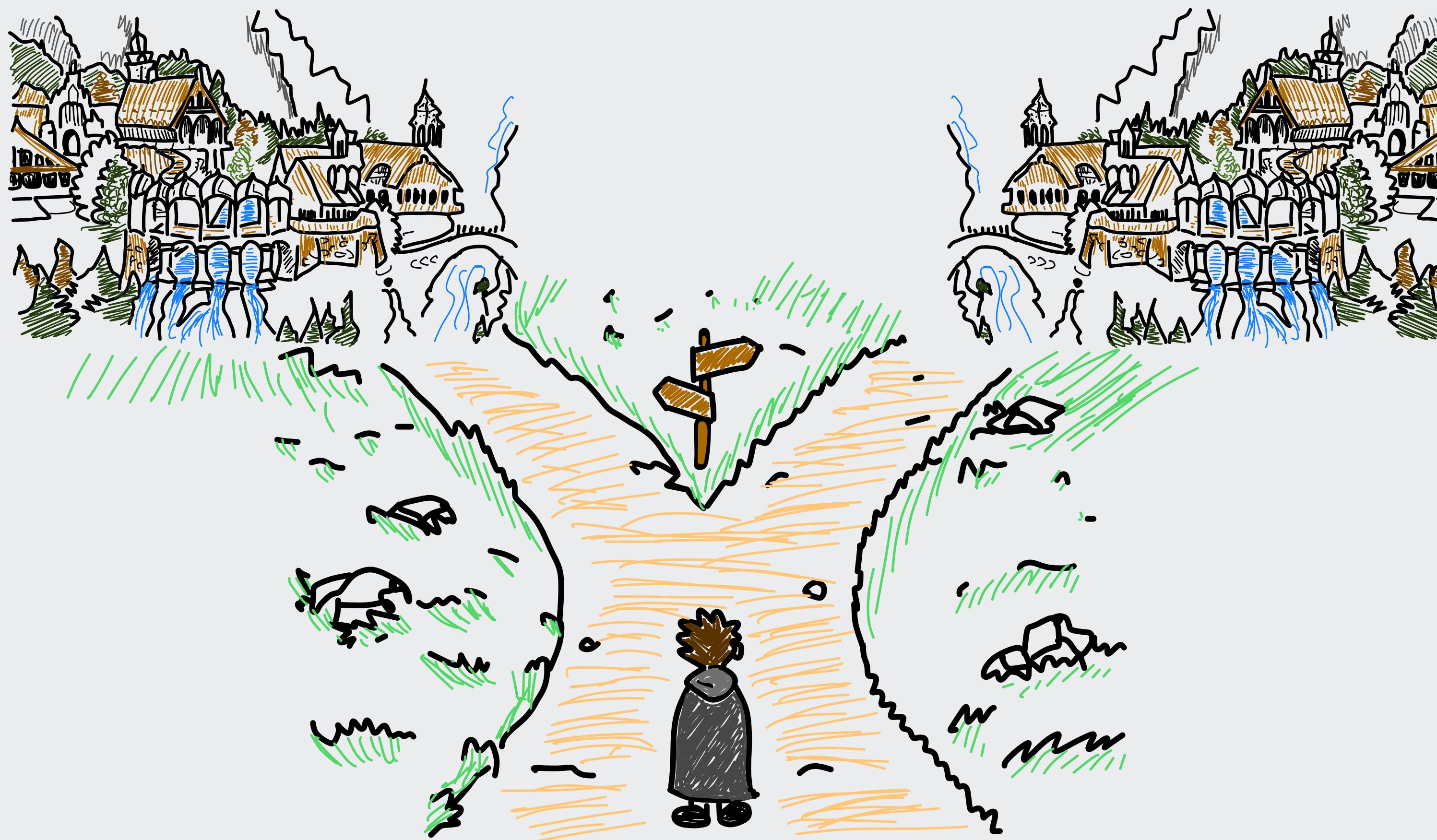


@leichteckig

SC 3.3.8

Accessible Authentication (Minimum)

Level AA



The cake is a lie!



@leichteckig

SC 3.3.8

Accessible Authentication (Minimum)

Level AA



SC 3.3.9

Accessible Authentication (Enhanced)

Level AAA



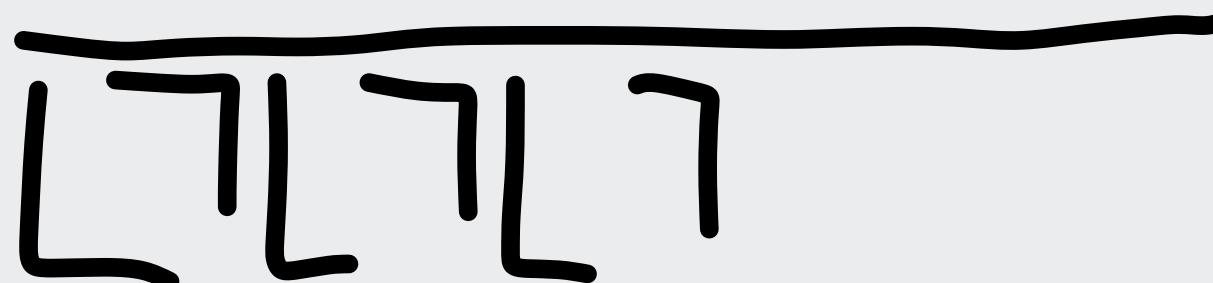
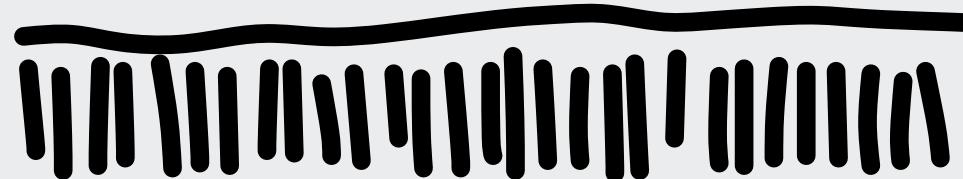
The cake is a lie!



@leichteckig

01

01/07



This Weighted Companion Cube will accompany you through the test chamber. Please take care of it."

- Semantics and general steps

The cake is a lie!



@leichteckig

<nav>

<header>

<section>

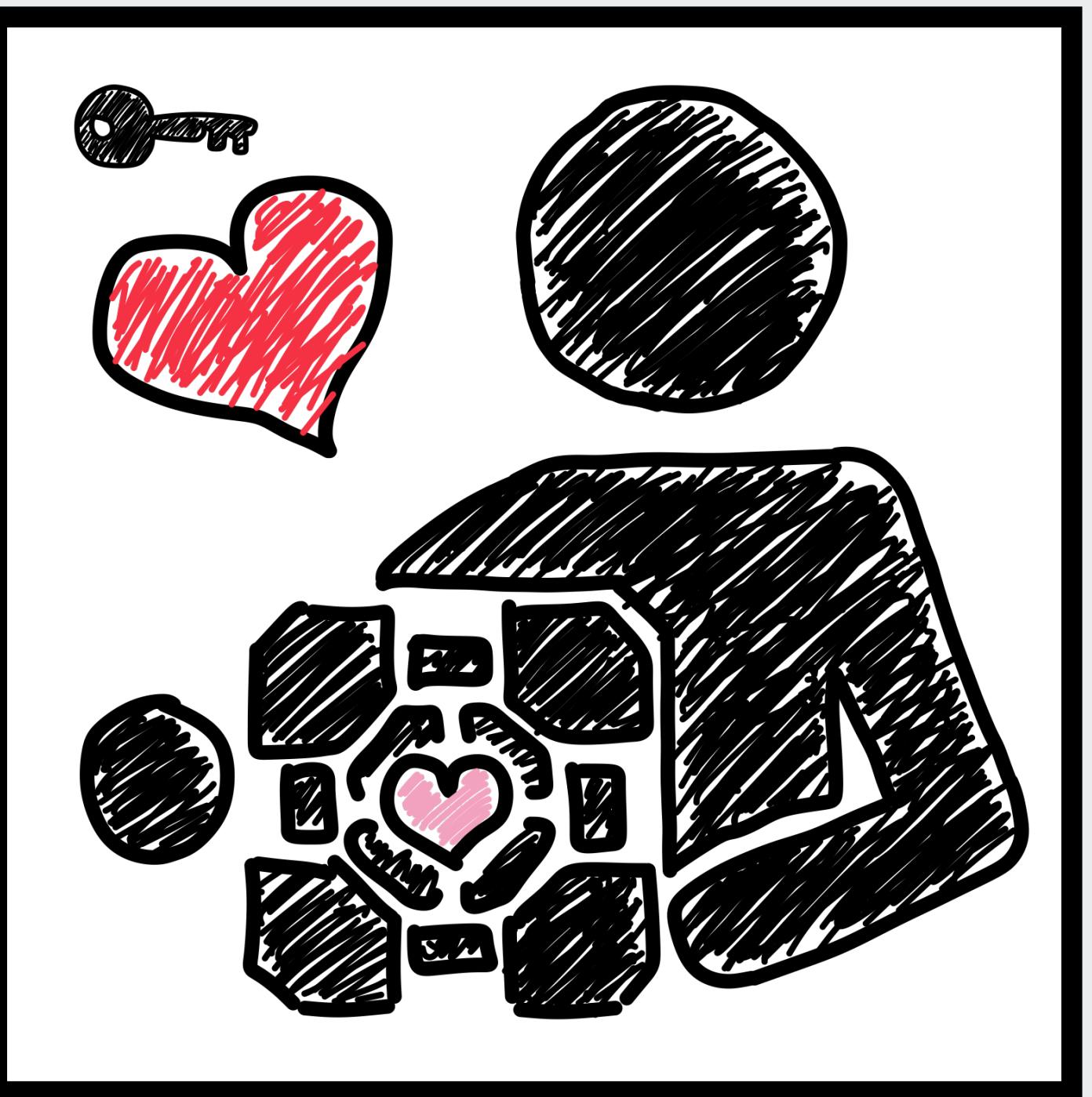
<figure>

<figcaption>

The Cake is a Lie!



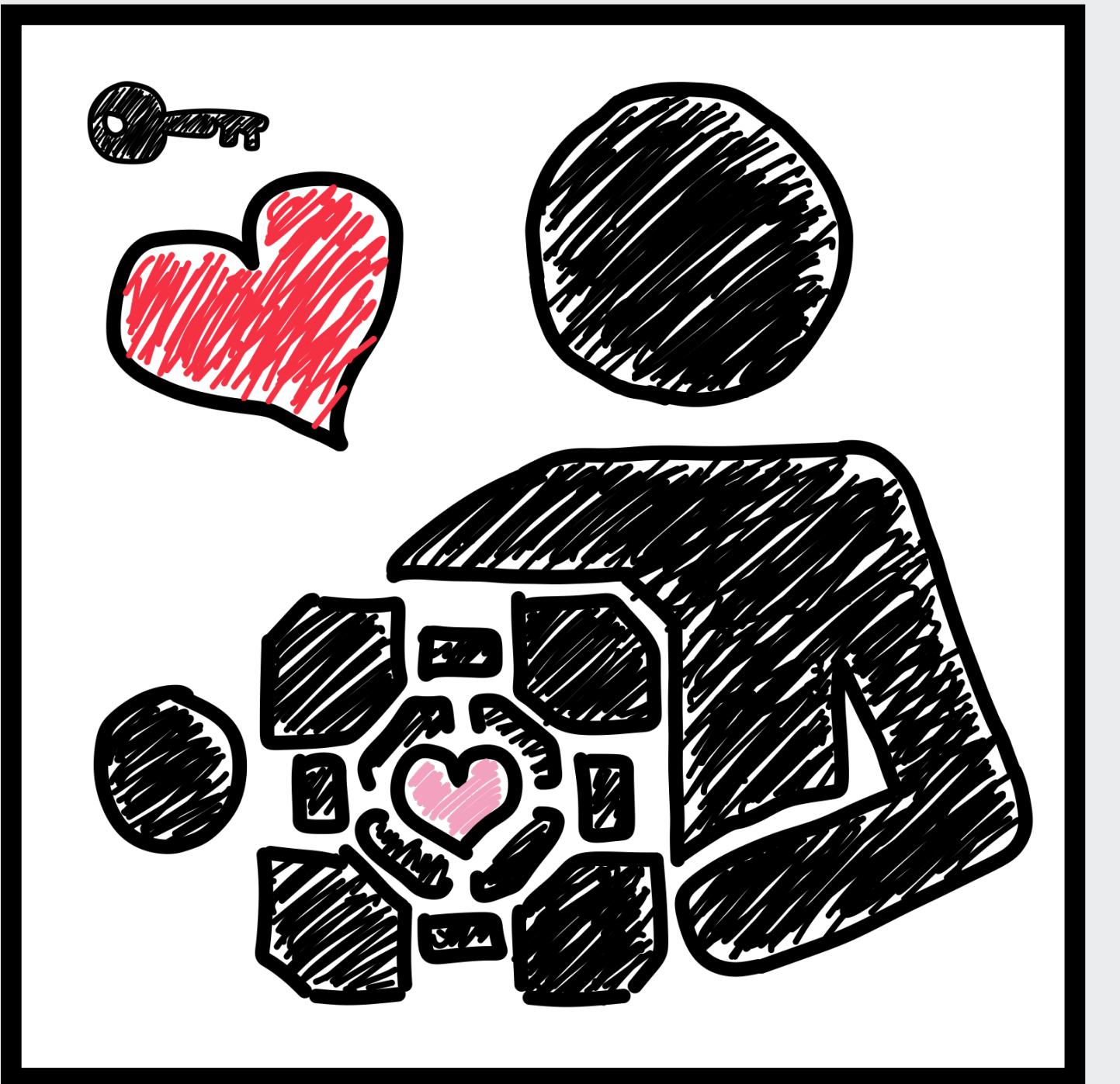
@leichteckig



The cake is a lie!



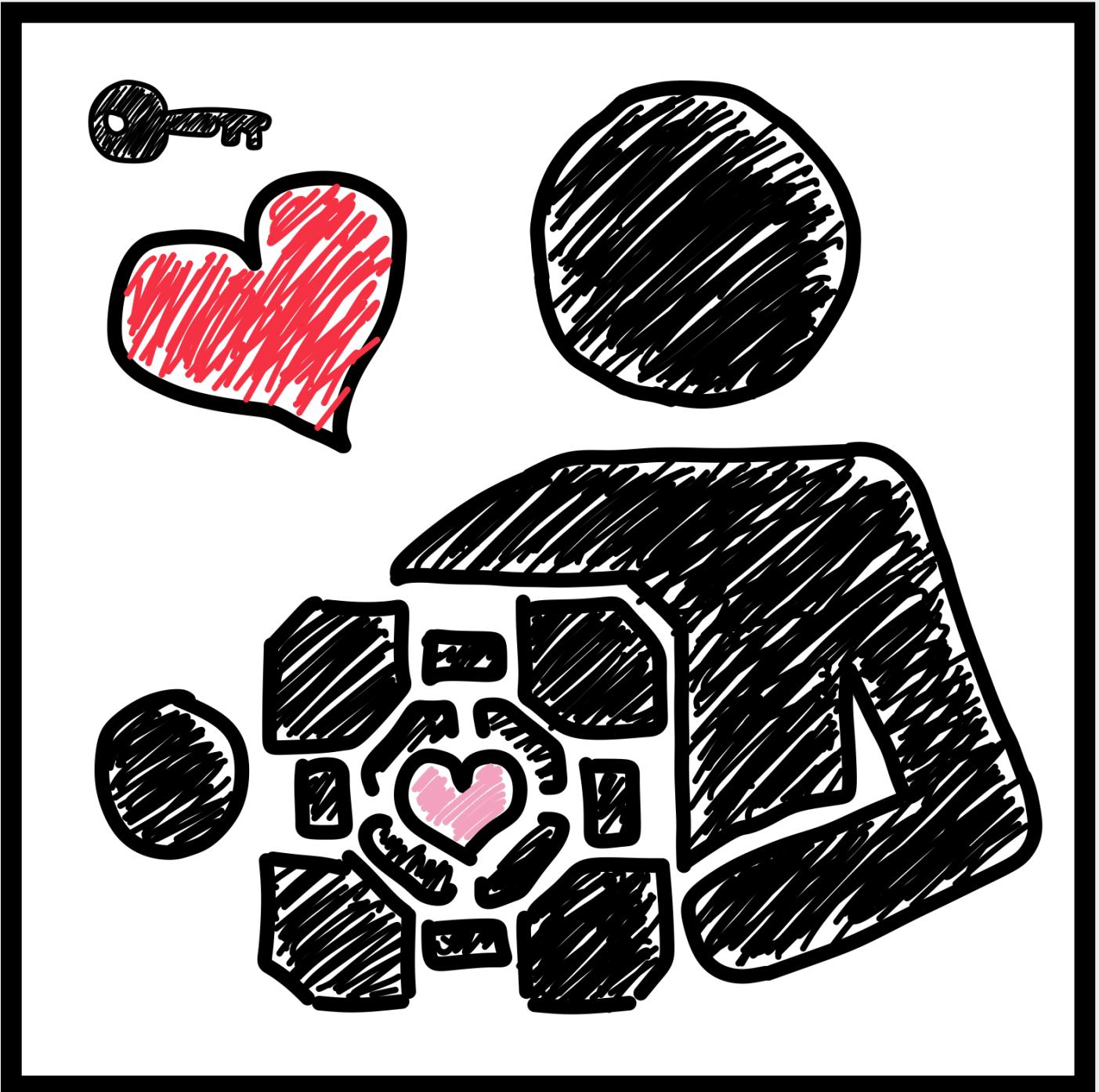
@leichteckig



The cake is a lie!



@leichteckig



Password
managers are
Assistive
Technology, too!

The cake is a lie!



@leichteckig

0 0 0

```
<div class="login-box">  
  
    <span>Password</span>  
  
    <input name="p_field" />  
  
    <div onclick="login()">  
  
        Log In  
  
    </div>  
  
</div>
```



0 0 0

```
<form>

    <label for="pwd">Password</label>

    <input

        id="pwd"

        type="password"

        autocomplete="current-password"

    />

    <button type="submit">Log In</button>

</form>
```



o o o

```
<form>  
  <label for="pwd">Password</label>  
  <input  
    id="pwd"  
    type="password"  
    autocomplete="current-password"  
  />  
  <button type="submit">Log In</button>  
</form>
```



0 0 0

```
<form>

    <label for="pwd">Password</label>

    <input

        id="pwd"

        type="password"

        autocomplete="current-password"

    />

    <button type="submit">Log In</button>

</form>
```



0 0 0

```
<form>

    <label for="pwd">Password</label>

    <input

        id="pwd"

        type="password" <-- Boxed

        autocomplete="current-password"

    />

    <button type="submit">Log In</button>

</form>
```



0 0 0

```
<form>

    <label for="pwd">Password</label>

    <input

        id="pwd"

        type="password"

        autocomplete="current-password"

    />

    <button type="submit">Log In</button>

</form>
```



0 0 0

```
<form>

    <label for="pwd">Password</label>

    <input

        id="pwd"

        type="password"

        autocomplete="current-password" >
```

/>

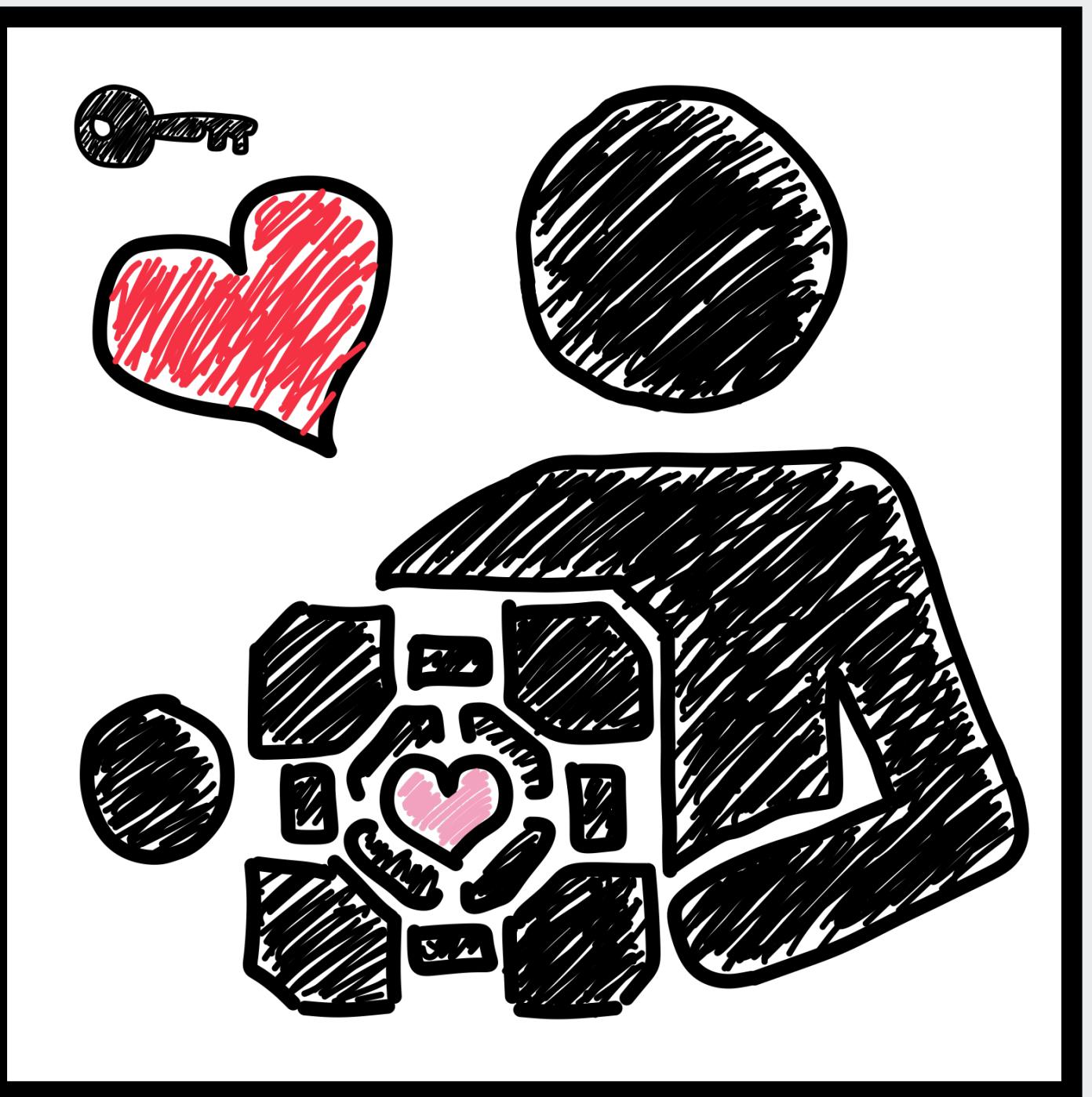
```
    <button type="submit">Log In</button>
```

```
</form>
```



Hasn't they've been an issue with auto
copy paste?

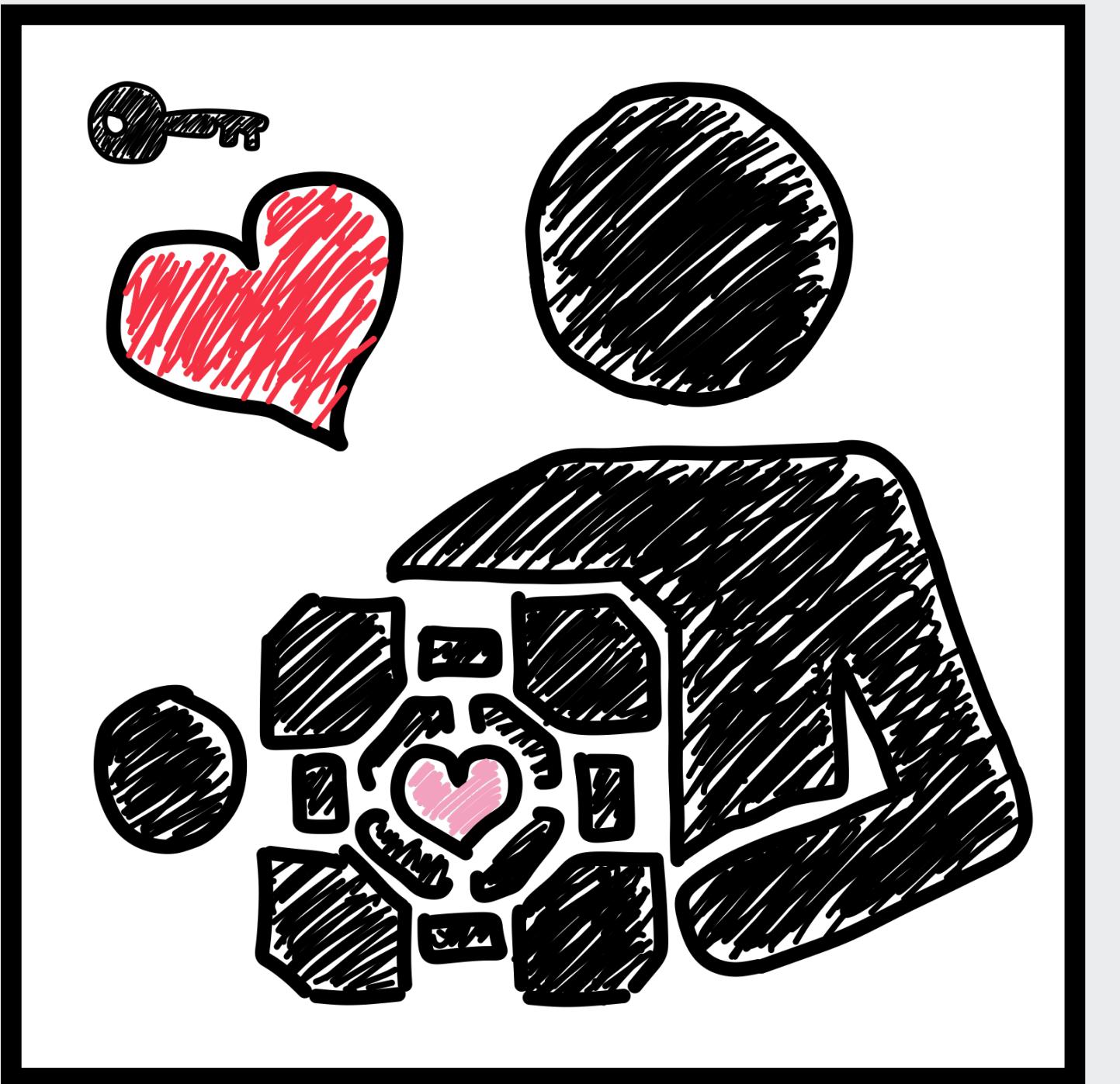




The cake is a lie!



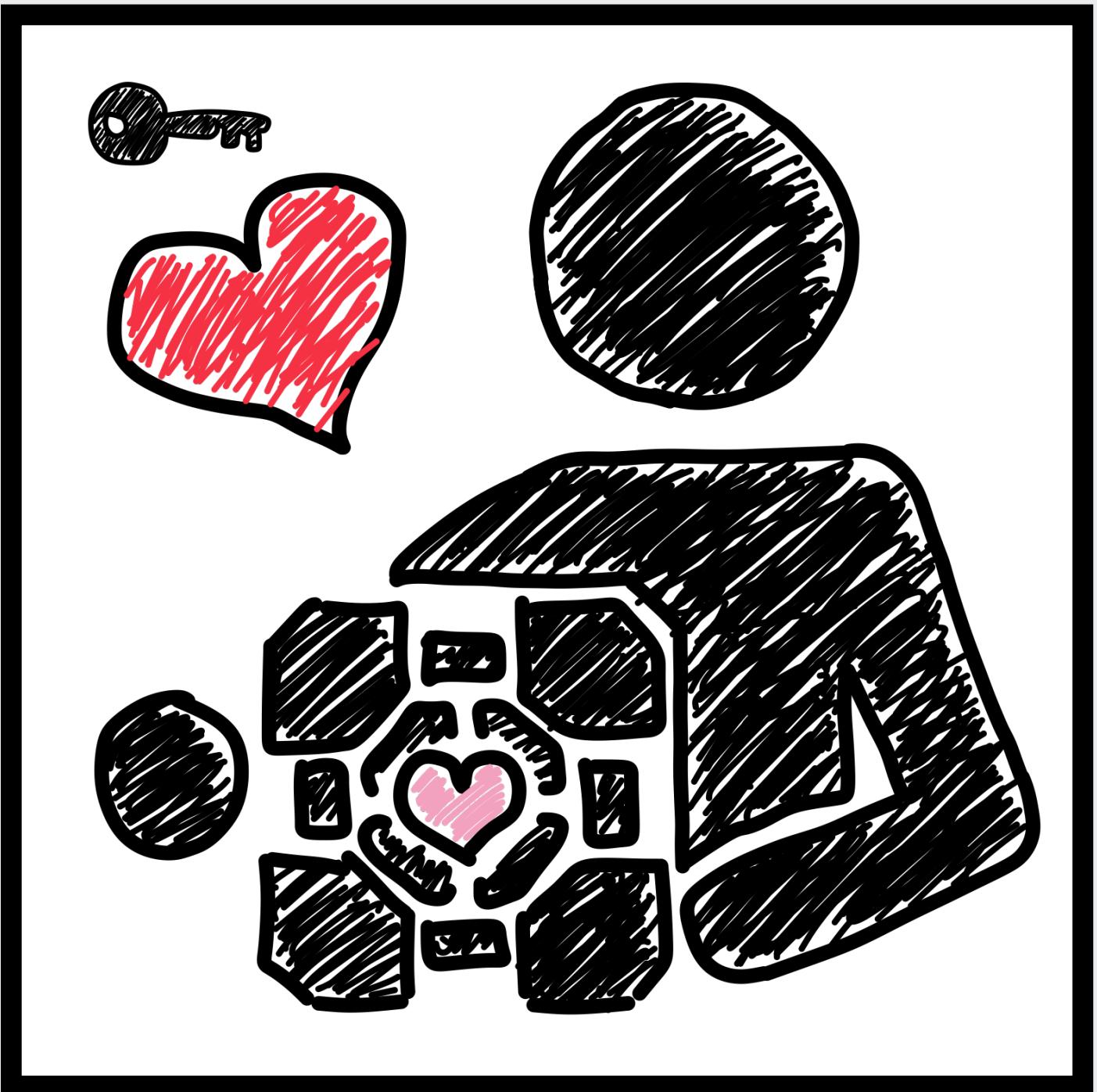
@leichteckig



The cake is a lie!



@leichteckig

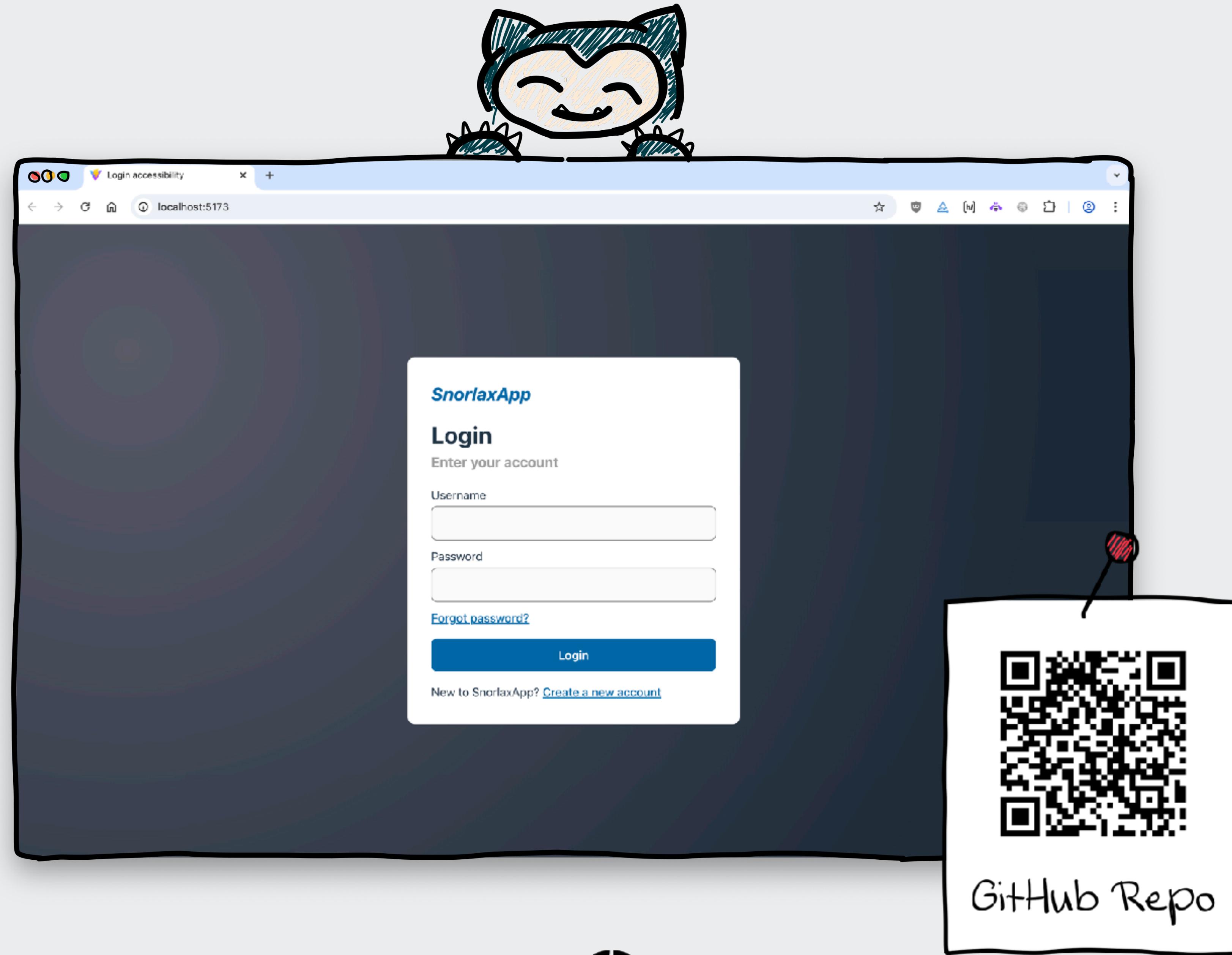


Screenreader-
the real
companion cube!

The cake is a lie!



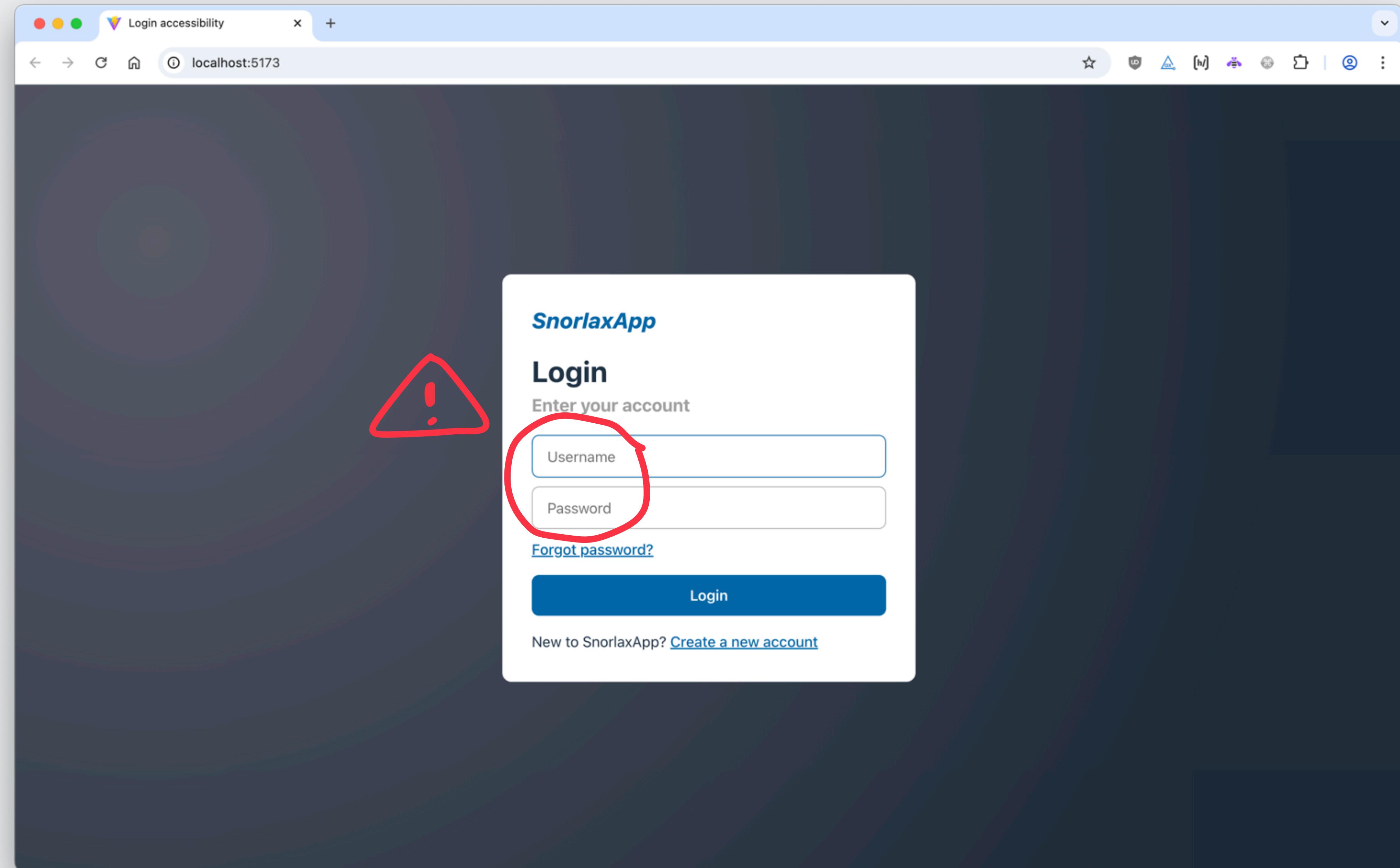
@leichteckig



The cake is a lie!



@leichtgekig



The cake is a lie!



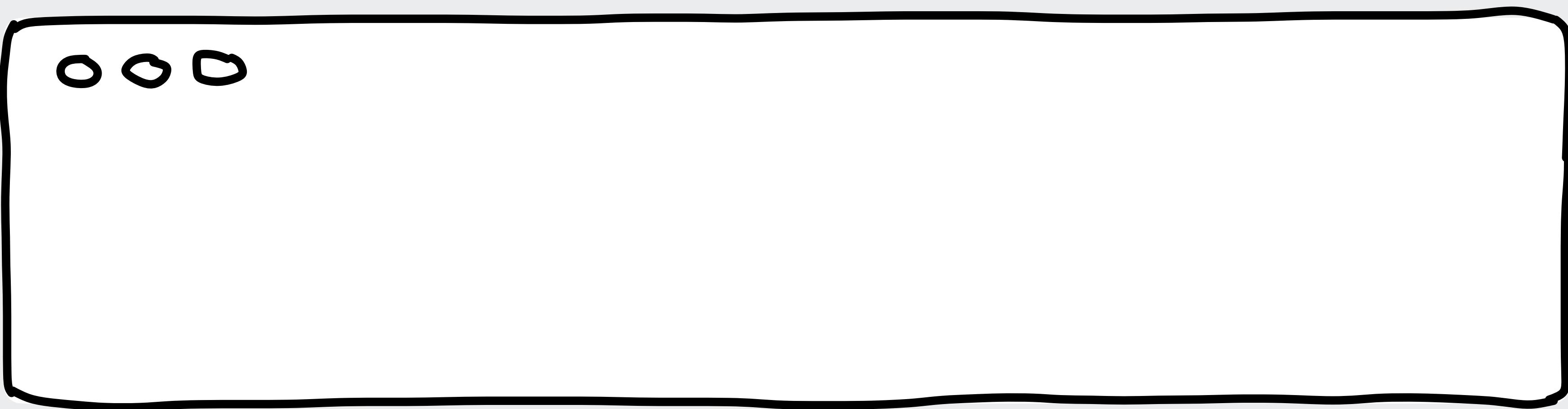
The bad example

@leichteckig

ooo

```
<input placeholder="Username" type="text">
```





The cake is a lie!

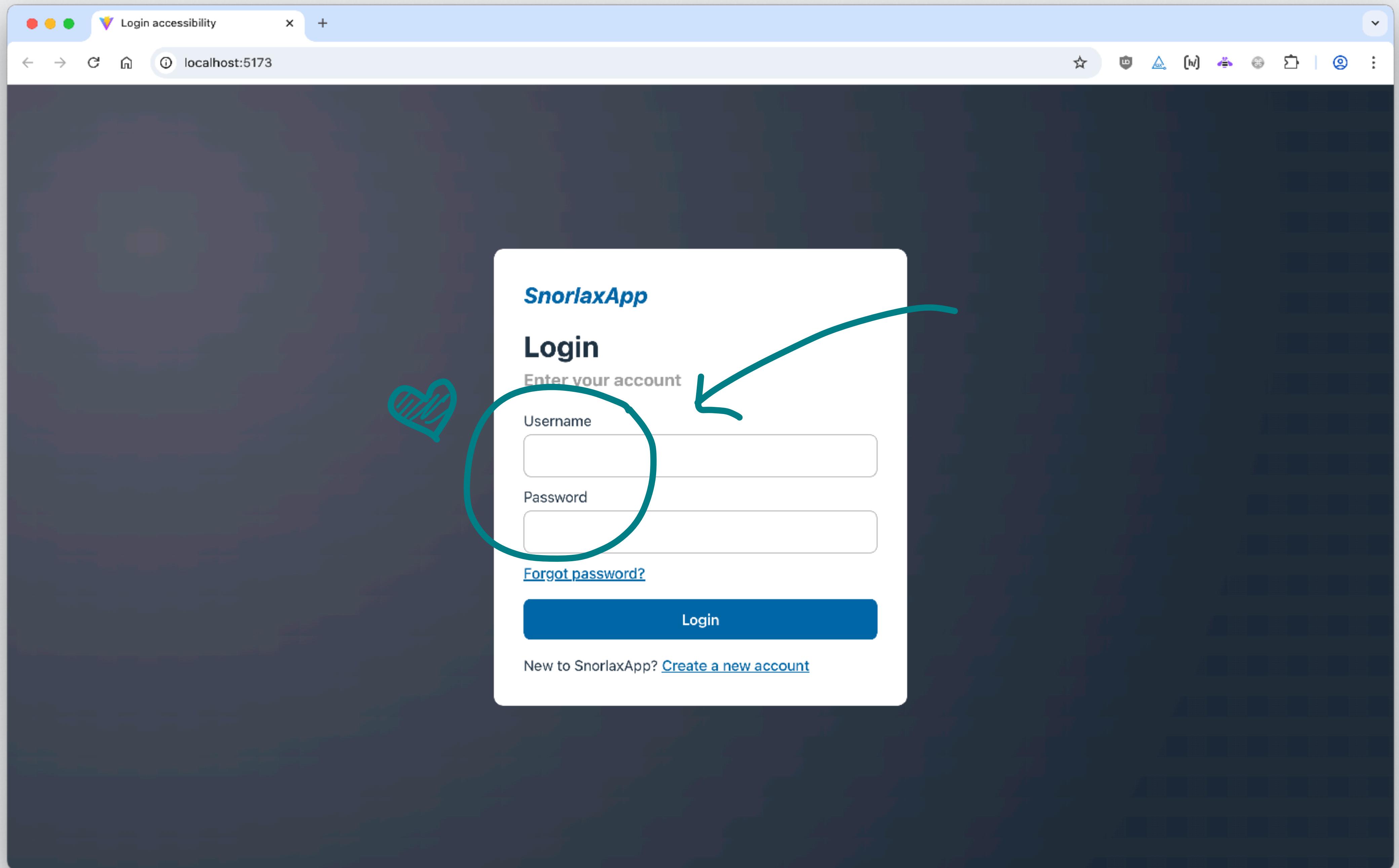


@leichteckig

ooo

```
<label for="username">Username</label>  
  
<input id="username" type="text">
```





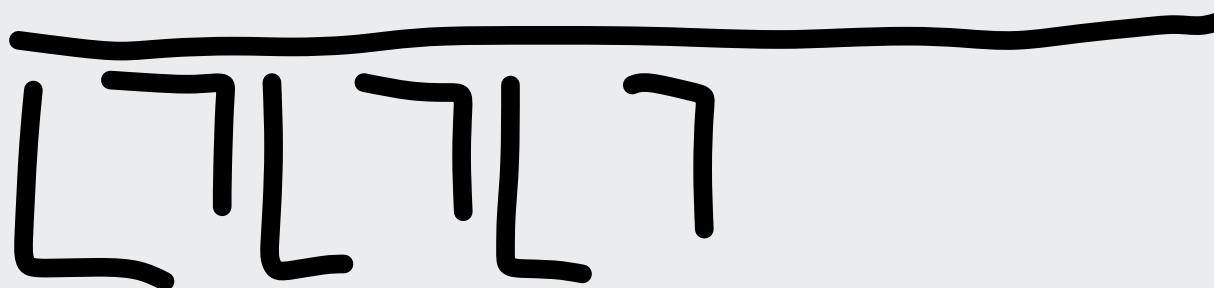
The cake is a lie!



@leichteckig



01/07



"Most importantly, under no circumstances should you [bzzzpt]"

- Error Handling

The cake is a lie!

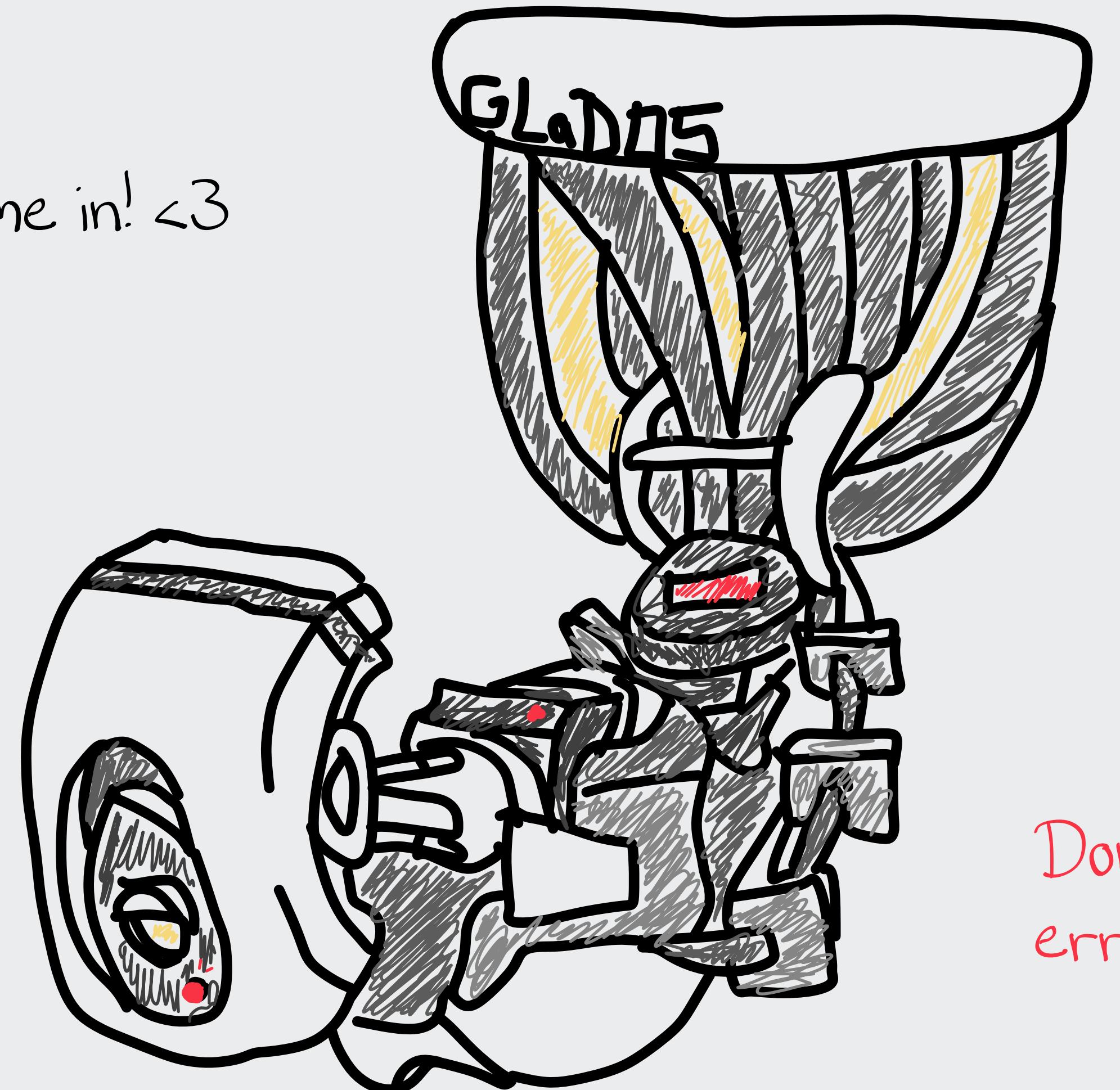


@leichteckig



Which error messages would you write?

Thanks for inviting me in! <3



Don't overshare in your
error messages!

The Cake is a Lie!

"This username
doesn't exist"



"Login failed"

"Invalid username or password." ❤



"Account locked due to 5 failed attempts."

"Login is temporarily disabled.
Please try again later or reset
your password.."



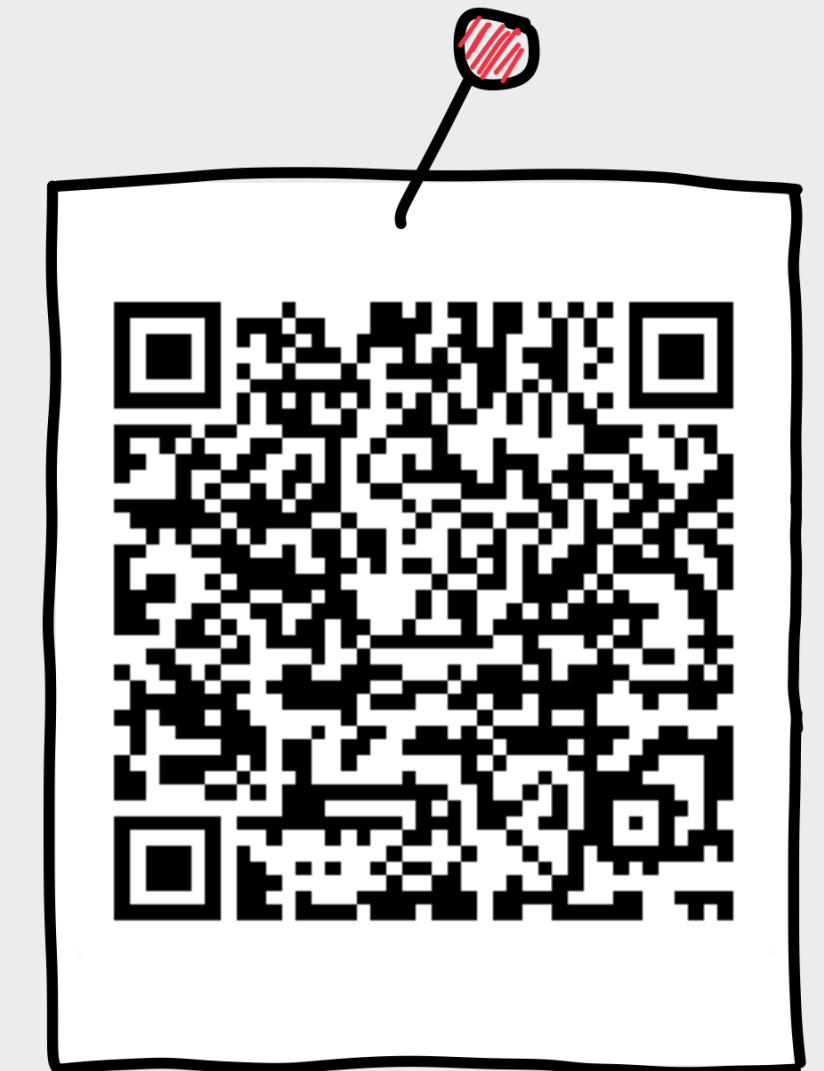


"We sent an email to max@example.com."

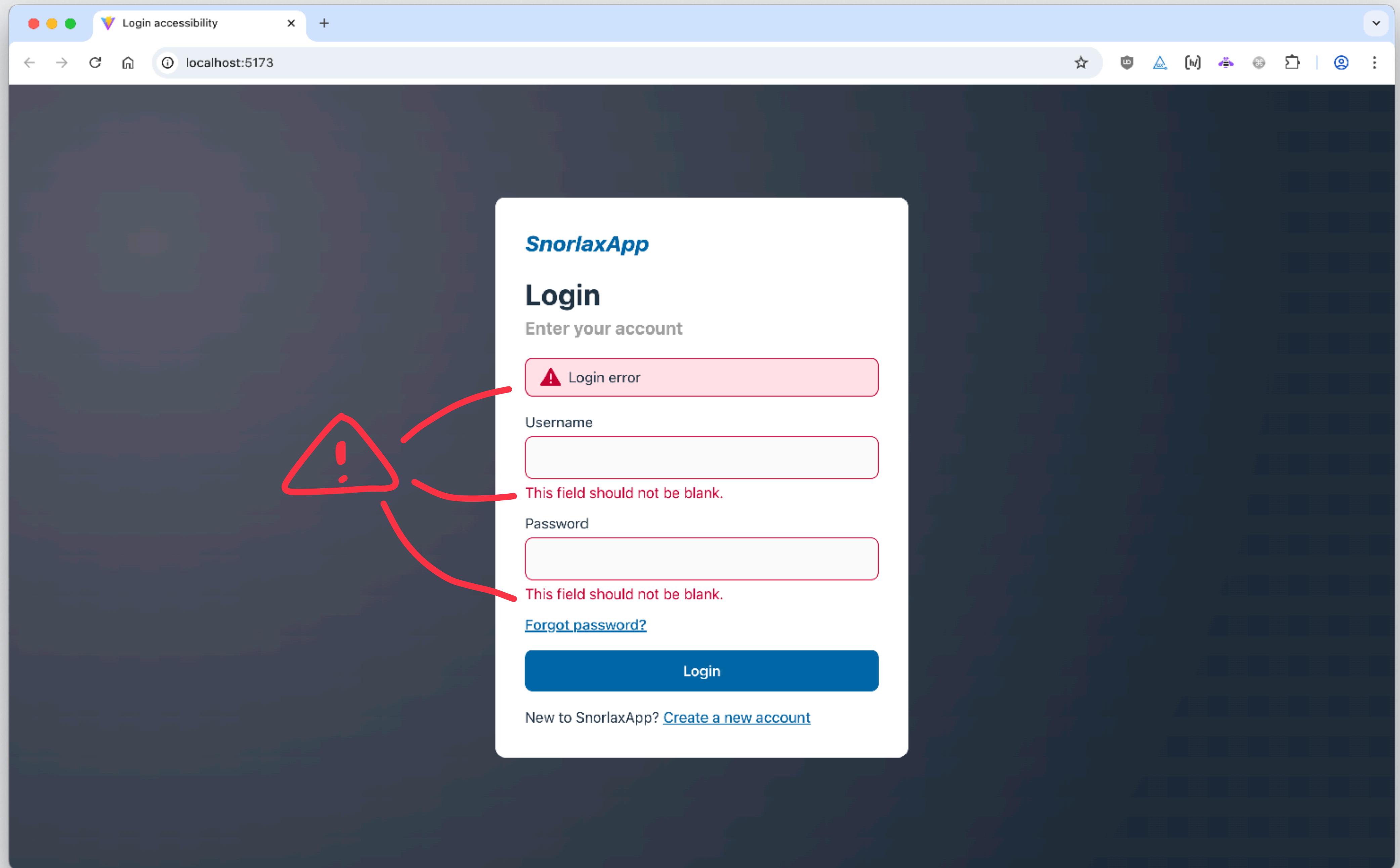
"If an account with this email exists,
we have sent instructions to reset
your password."



Native Browser Handling can be laggy



The Cake is a Lie!

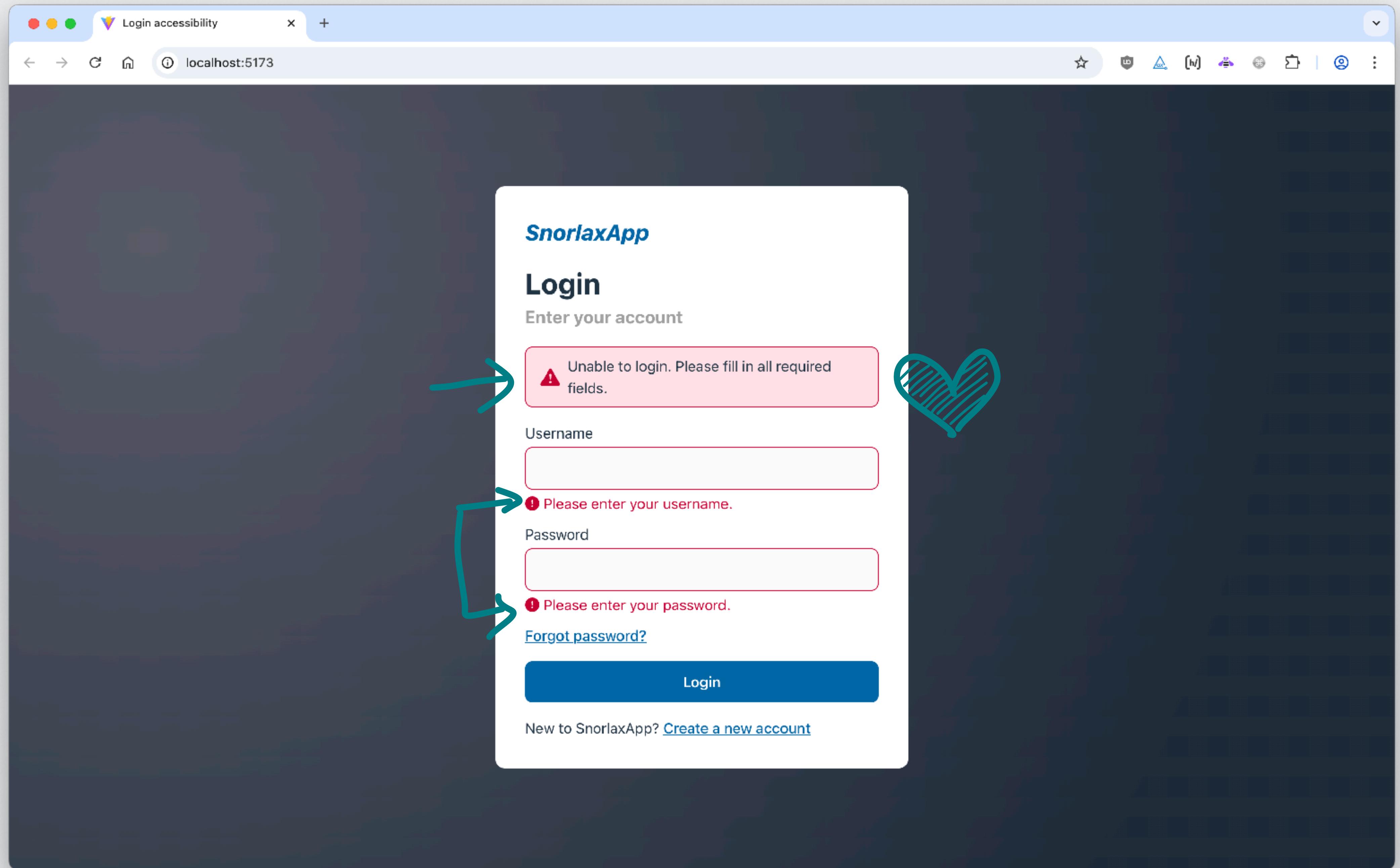


The Cake is a Lie!

Color-Blindness!?



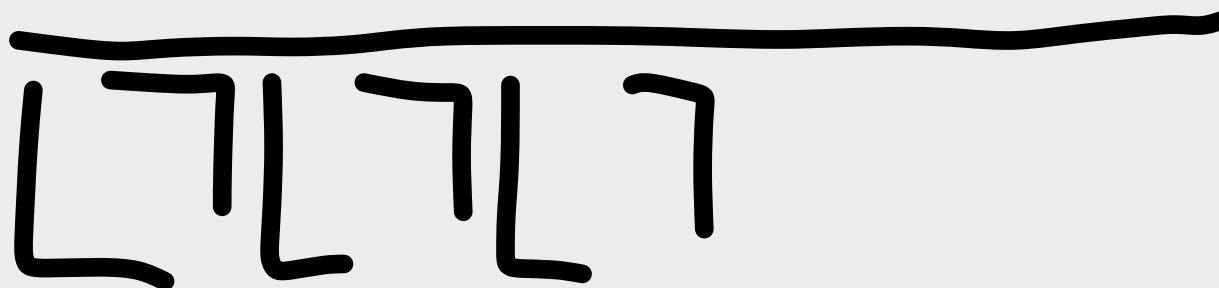
The Cake is a Lie!



The Cake is a Lie!

03

03/07



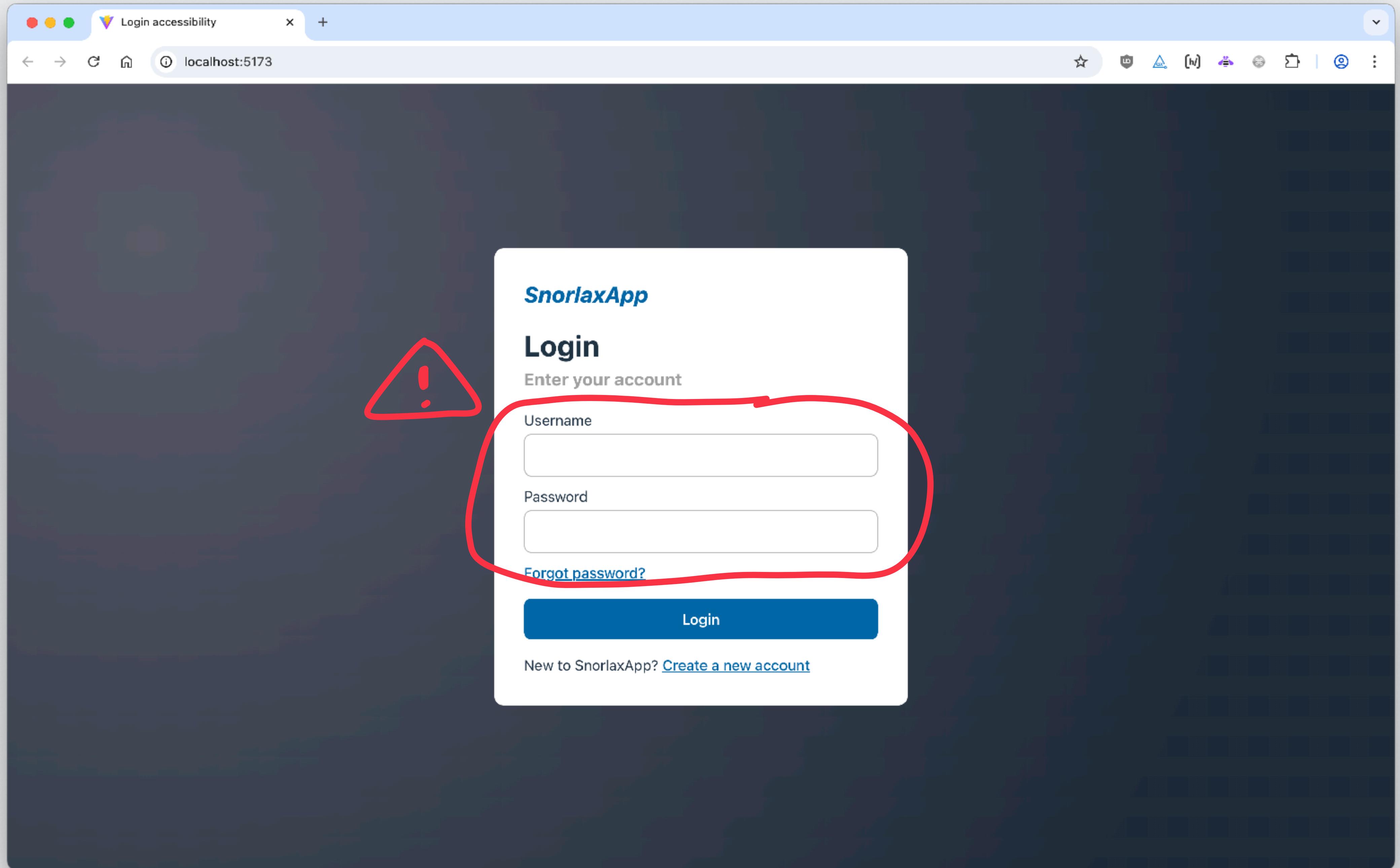
"What is that? It's not the surprise... I've never seen it before"

- Colors

The cake is a lie!



@leichteckig



The cake is a lie!

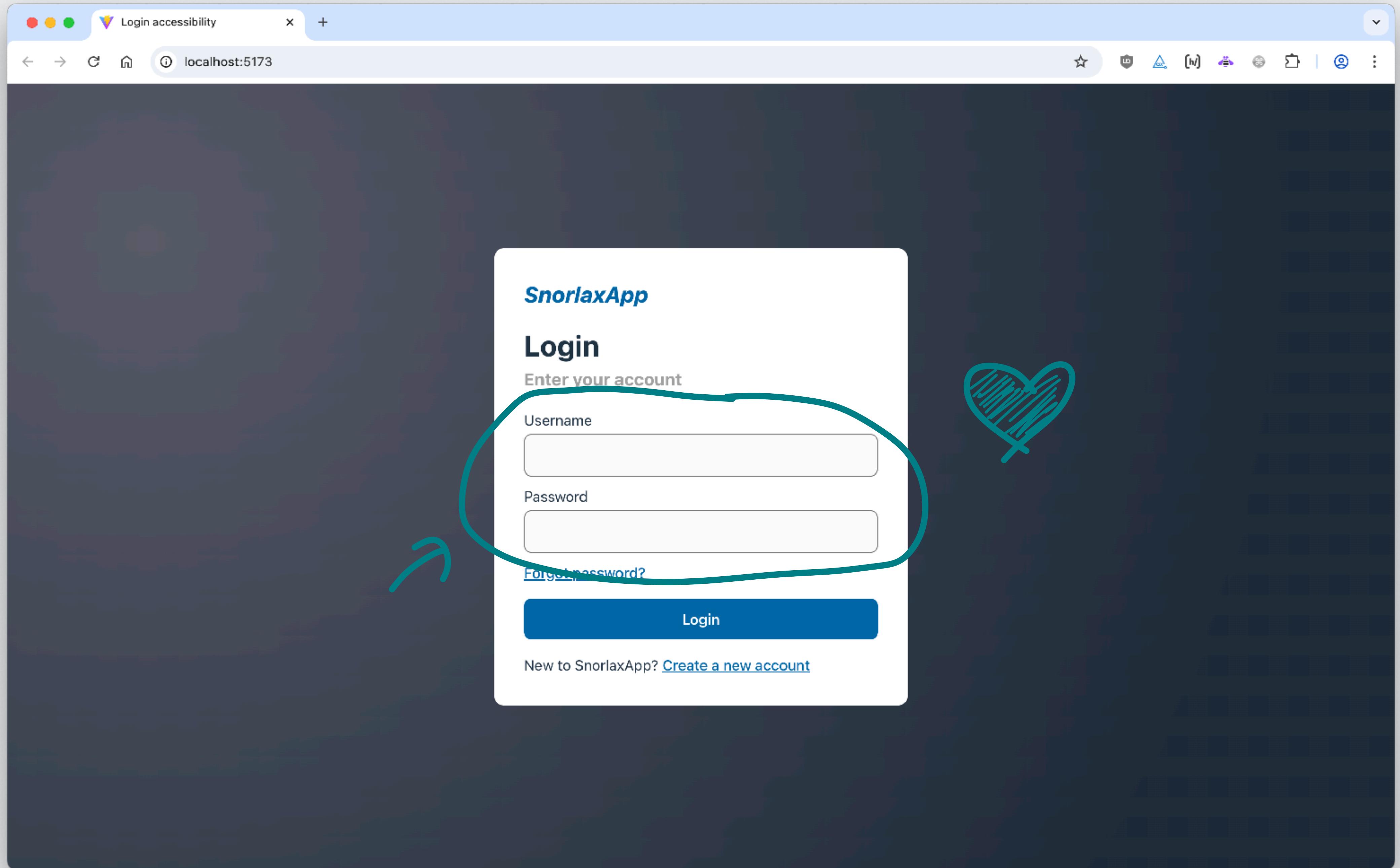


@leichteckig

Mind the contrast!

Choosing a darker color for the input fields
border



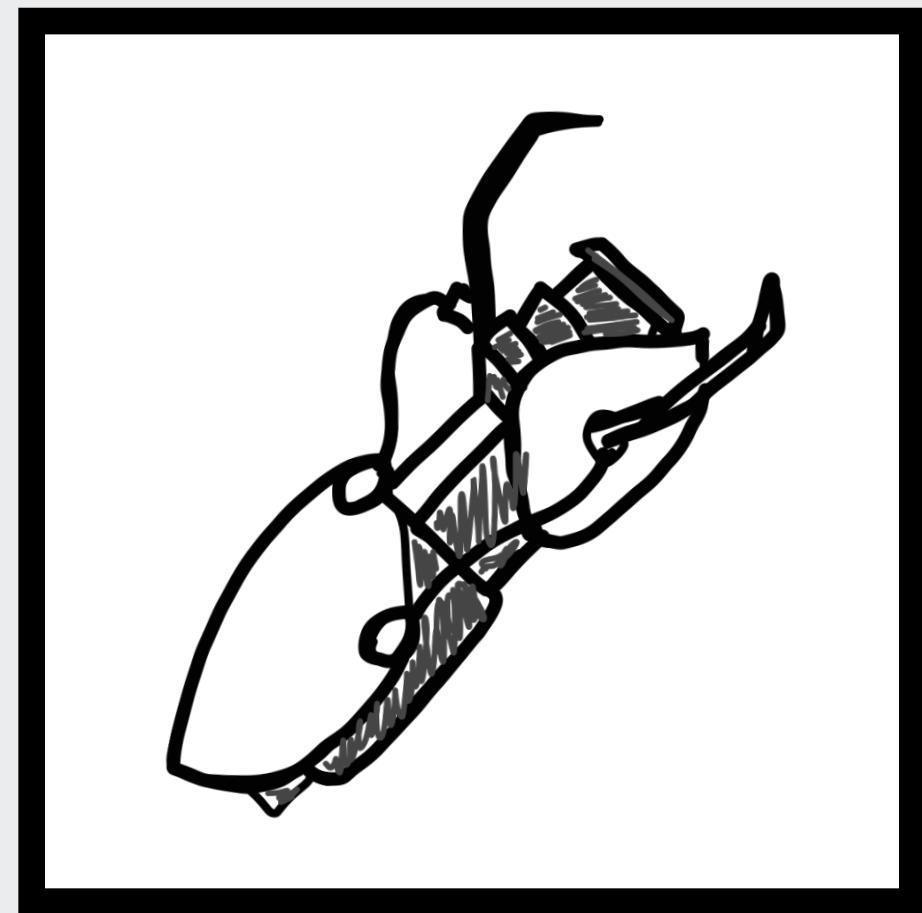


The cake is a lie!



@leichteckig

Use color-feature in DevTools



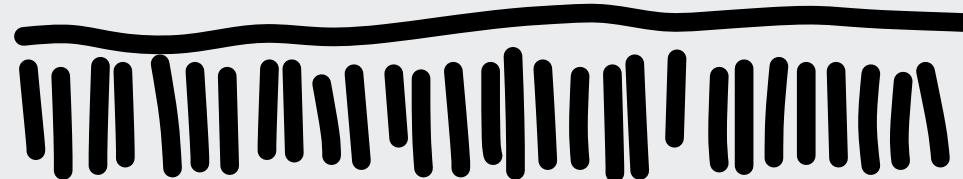
The cake is a lie!



@leichteckig



04/07



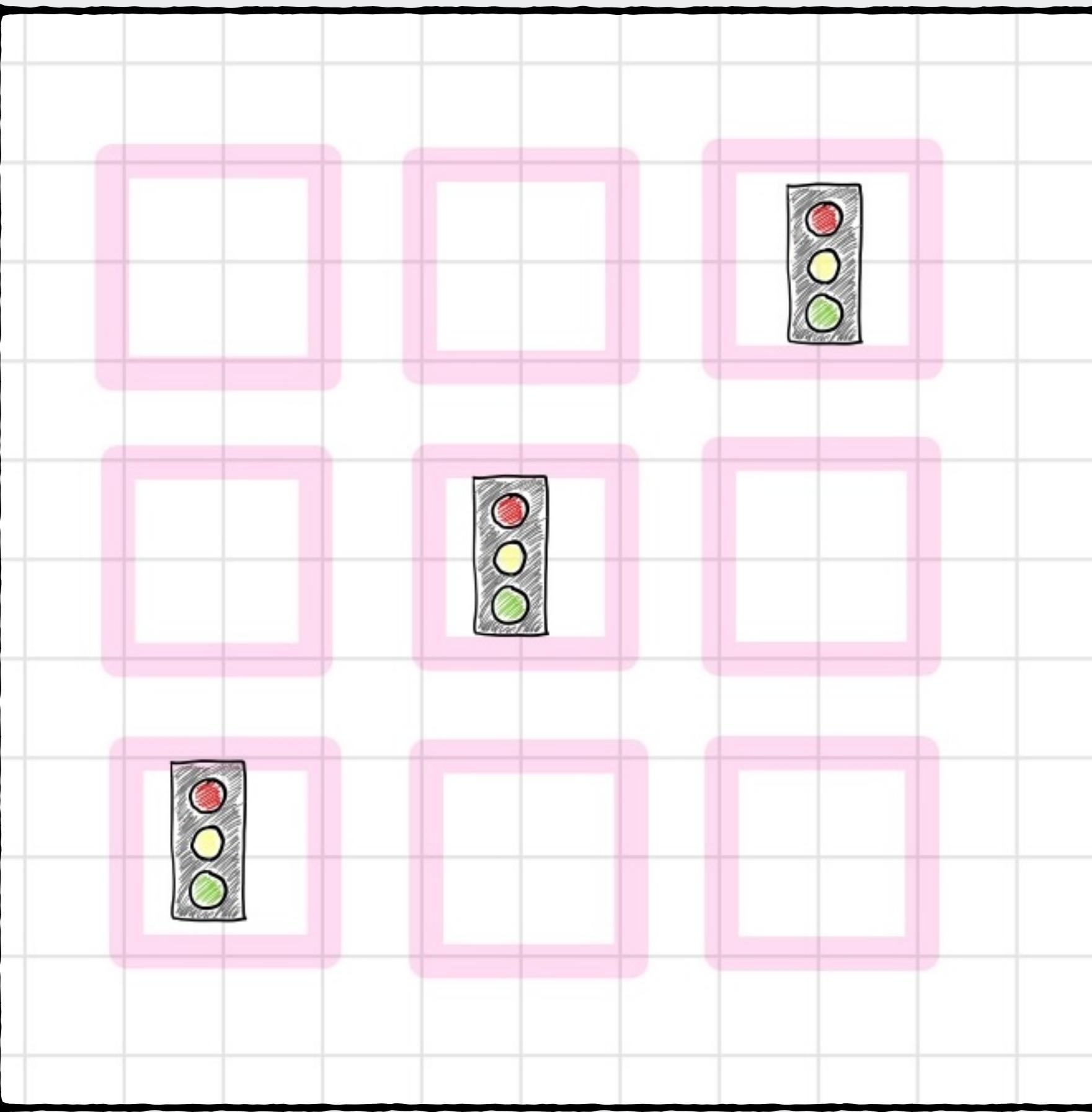
"You are now in possession of the Aperture Science Handheld
Portal Device"

- CAPTCHA

The cake is a lie!



@leichteckig



The cake is a lie!



@leichteckig

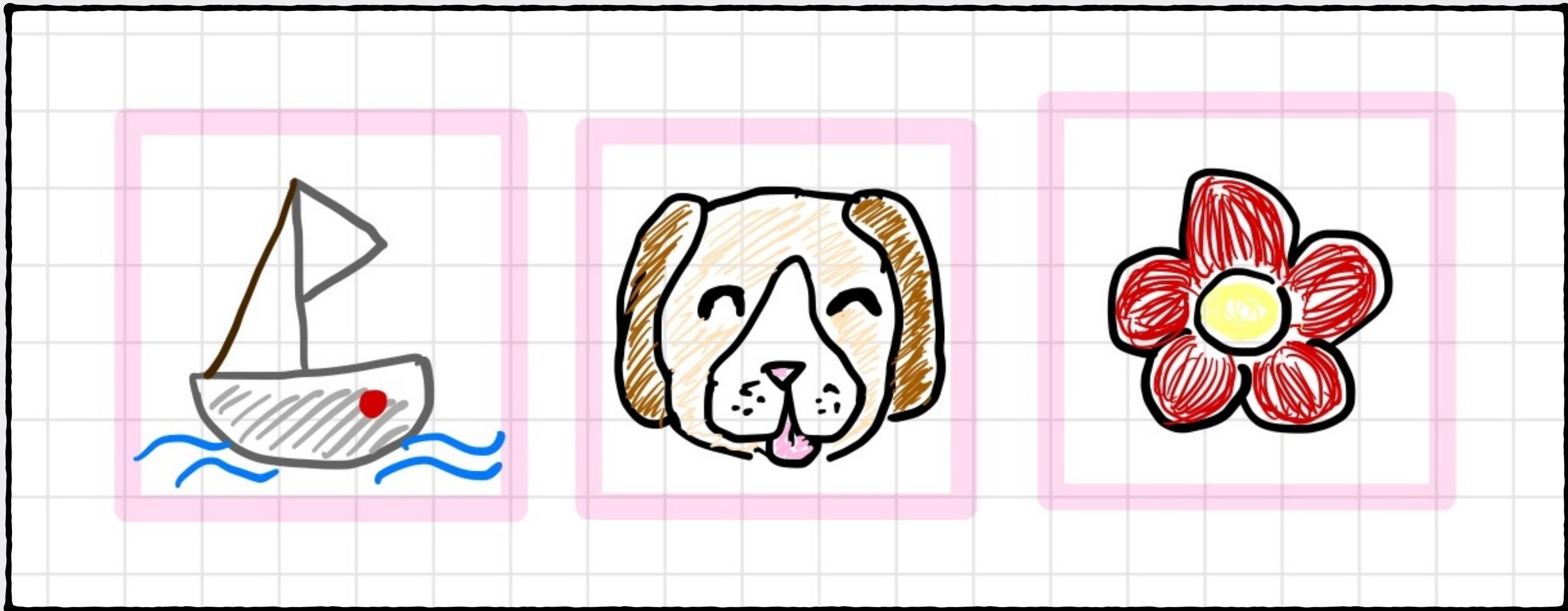


WCAG 3.3.8: maybe
okay" vs. "WCAG
3.3.9: FAIL"

The cake is a lie!



@leichteckig



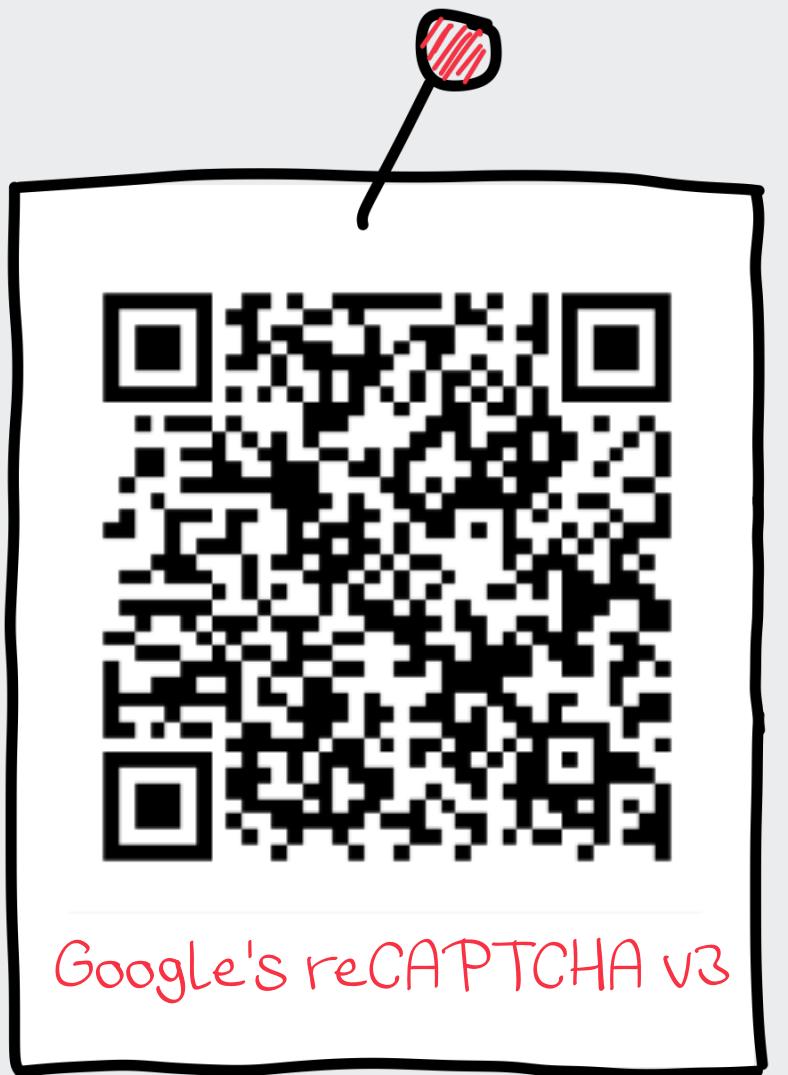
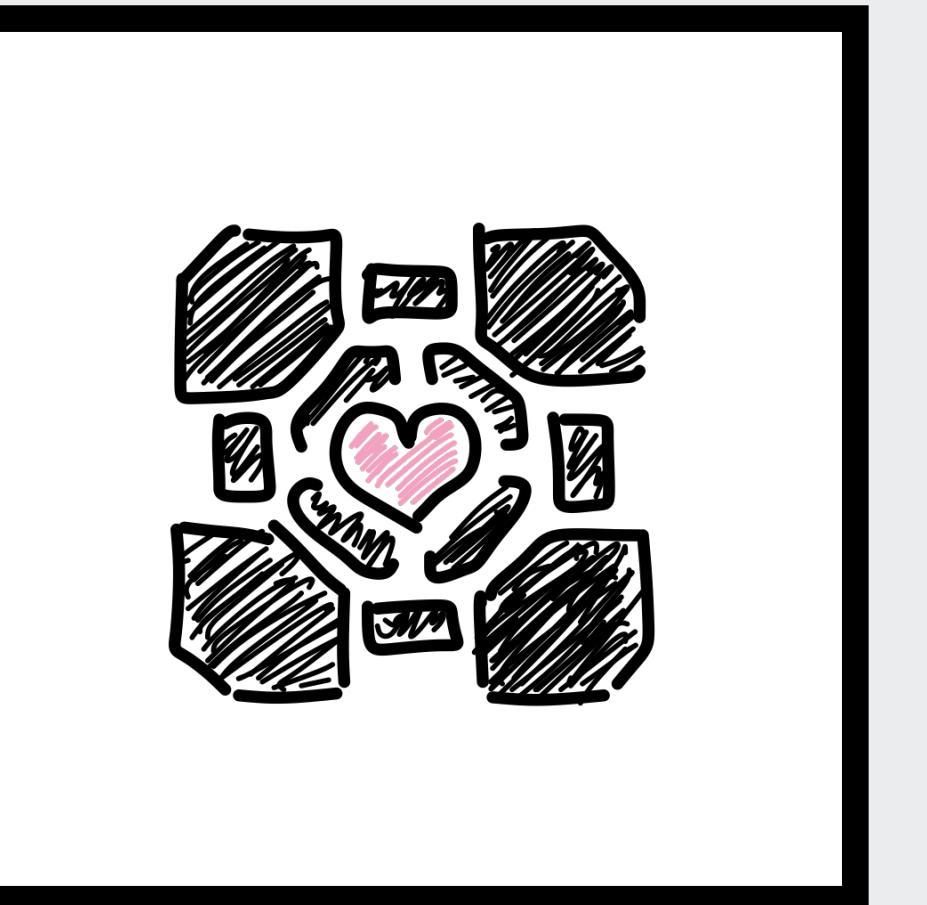
WCAG 3.3.8: maybe okay" vs. "WCAG 3.3.9: FAIL"

The cake is a lie!



@leichteckig

Invisible challenges / Risk based auth ❤



The Cake is a Lie!

05

05/07



7777

"Do not look directly at the operational end of The Device"

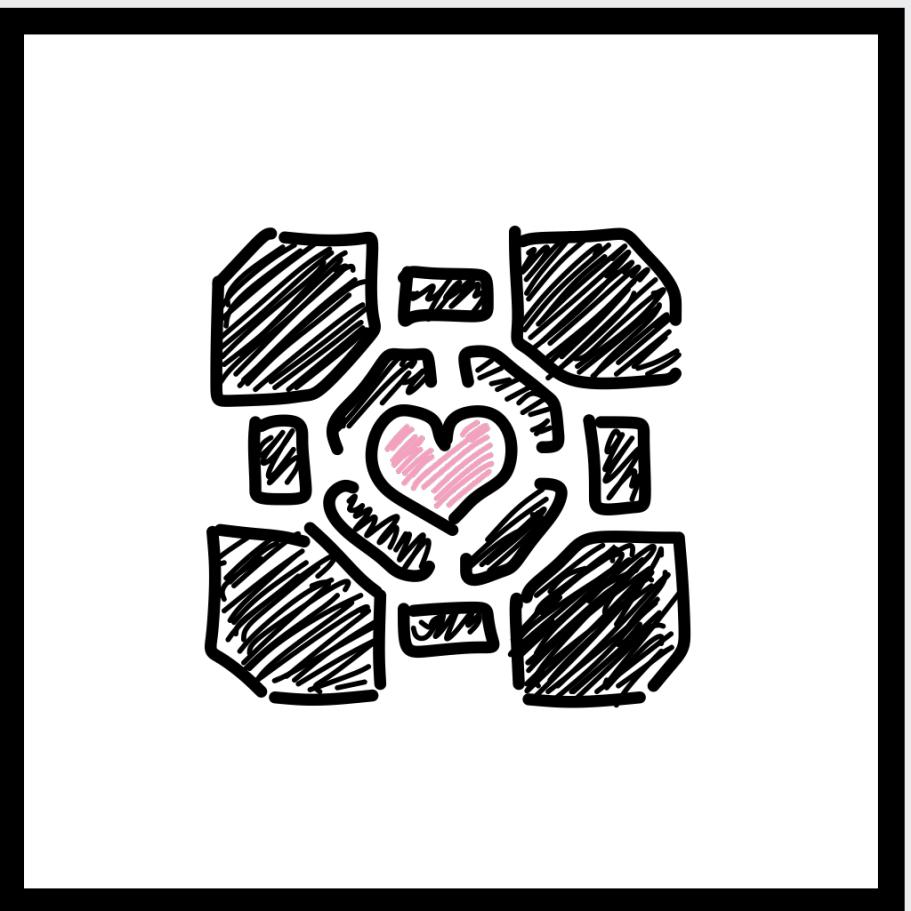
- Multi Factor Authentication

The cake is a lie!



@leichteckig

Multi-Factor Authentication (MFA/2FA) ❤



The cake is a lie!



@leichteckig

Cognitive and motoric traps



The cake is a lie!



@leichteckig

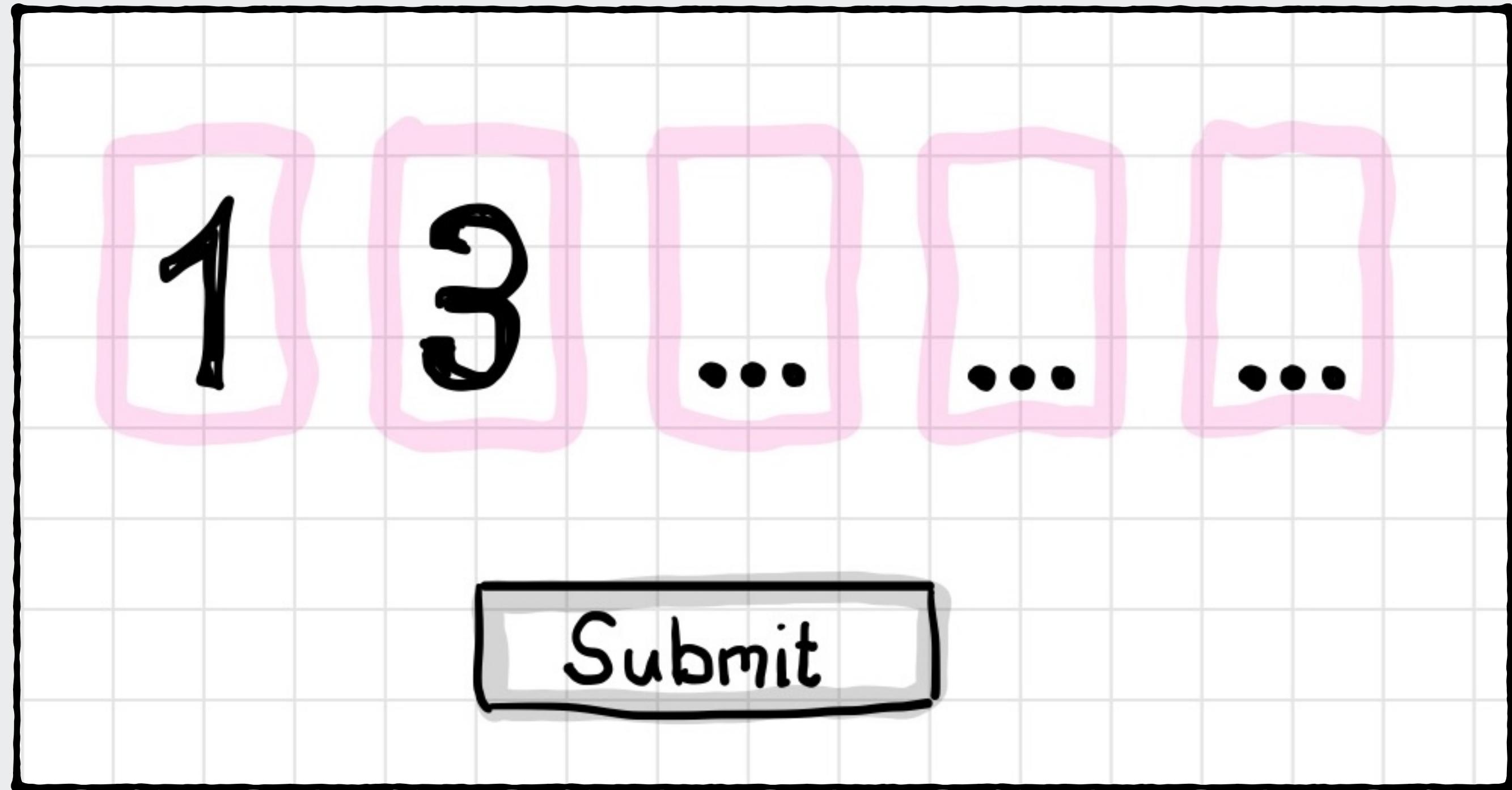
Traps in User Experience



The cake is a lie!



@leichteckig



The cake is a lie!



@leichteckig



Utilize onPaste

```
const handlePaste = (e) => {  
  e.preventDefault();  
  
  [...]  
  
  const newotp = [...otp];  
  
  pasteData.split('').forEach((char, index) => {  
  
    newotp[index] = char;  
  
  });  
  
  setotp(newotp);  
  
<input onPaste={handlePaste} ... />
```





Utilize on Paste

```
const handlePaste = (e) => {  
  e.preventDefault(); Stop the standard copy-paste  
  [...]  
  
  const newotp = [...otp];  
  
  pasteData.split('').forEach((char, index) => {  
  
    newotp[index] = char;  
  
  });  
  
  setotp(newotp);  
  
<input onPaste={handlePaste} ... />
```





Utilize onPaste

```
const handlePaste = (e) => {  
  e.preventDefault();  
  
  [...]  
  
  const newotp = [...otp];  
  
  pasteData.split('').forEach((char, index) => {  
  
    newotp[index] = char;  
  
  });  
  
  setotp(newotp);  
  
<input onPaste={handlePaste} ... />
```





Utilize on Paste

```
const handlePaste = (e) => {  
  e.preventDefault();  
  
  [...] Split the OTP in its single digits etc...  
  
  const newotp = [...otp];  
  
  pasteData.split('').forEach((char, index) => {  
  
    newotp[index] = char;  
  
  });  
  
  setOtp(newotp);  
  
<input onPaste={handlePaste} ... />
```





Utilize onPaste

```
const handlePaste = (e) => {  
  e.preventDefault();  
  
  [...]  
  
  const newotp = [...otp];  
  
  pasteData.split('').forEach((char, index) => {  
  
    newotp[index] = char;  
  
  });  
  
  setotp(newotp);  
  
<input onPaste={handlePaste} ... />
```



000 Utilize on Paste

```
const handlePaste = (e) => {  
  e.preventDefault();  
  
  [...]  
  
  const newotp = [...otp];  
  
  pasteData.split('').forEach((char, index) => {  
  
    newotp[index] = char;  
  });  
  setOtp(newotp);  
  
<input onPaste={handlePaste} ... />
```

Set the OTP as value to
the single inputs





Not sure about that...

The Cake is a Lie!

Using CSS to "fake the single digit look"

The screenshot shows a web application titled "OTP input" by Ramona Schwering. The interface features six white input boxes arranged horizontally. Below them is a tip in German: "Tipp: Öffne die DevTools, um den unsichtbaren Input über den Boxen zu sehen! 🧐". To the right, the browser's DevTools are open, displaying the following code:

```
HTML
1 <div class="otp-compo">
2   ...
3     <input
4       type="text"
5       id="ghost-input"
6       inputmode="numeric">
7   ...
8 </div>
```

```
CSS
1 body {
2   font-family: sans-serif;
3   display: flex;
4   flex-direction: column;
5   align-items: center;
6   justify-content: center;
7 }
```

```
JS
1 // Wir holen uns die Elemente
2 const ghostInput =
3   document.getElementById('ghost-
4     input');
5 const boxes =
6   document.querySelectorAll('.box');
```

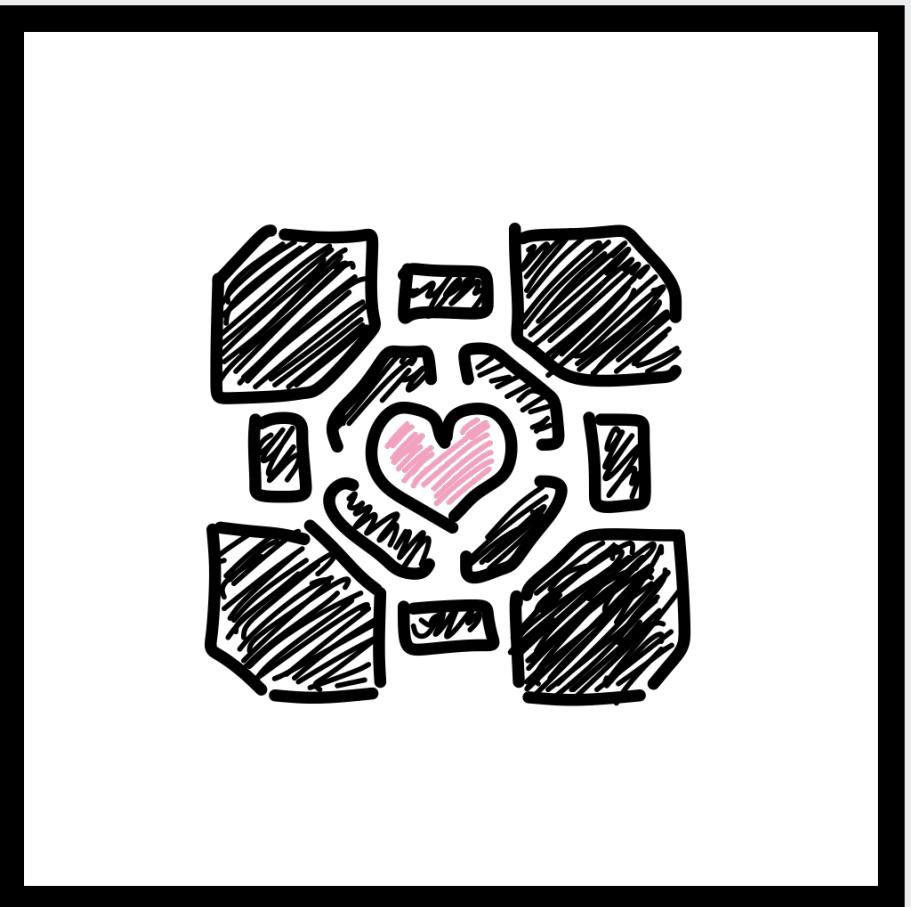


The cake is a lie!



@leichteckig

Always provide options 



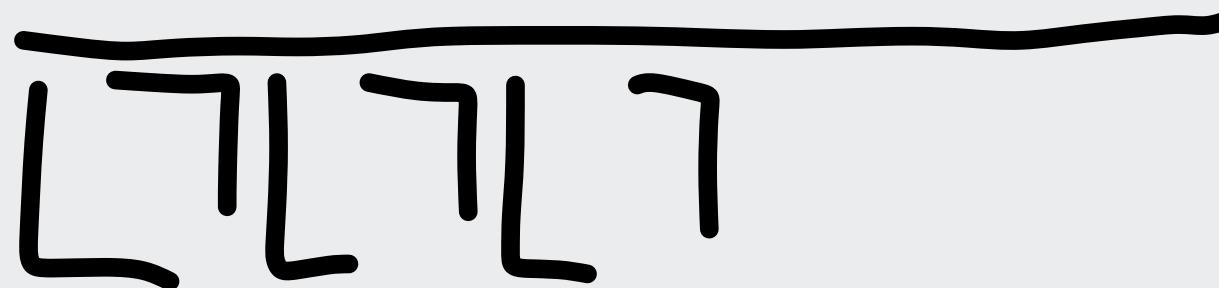
The cake is a lie!



@leichteckig

06

06/07



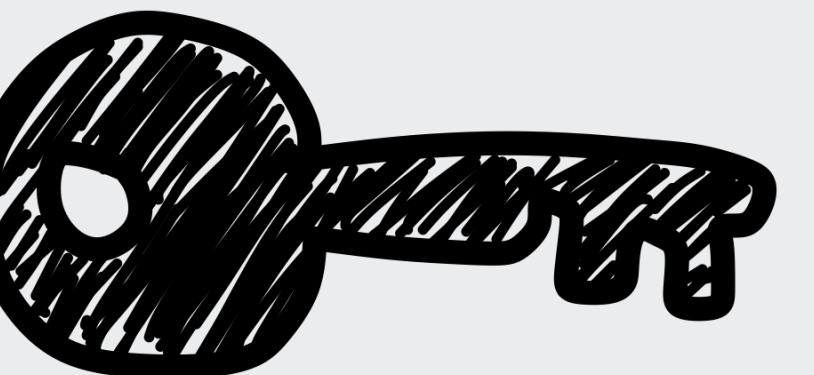
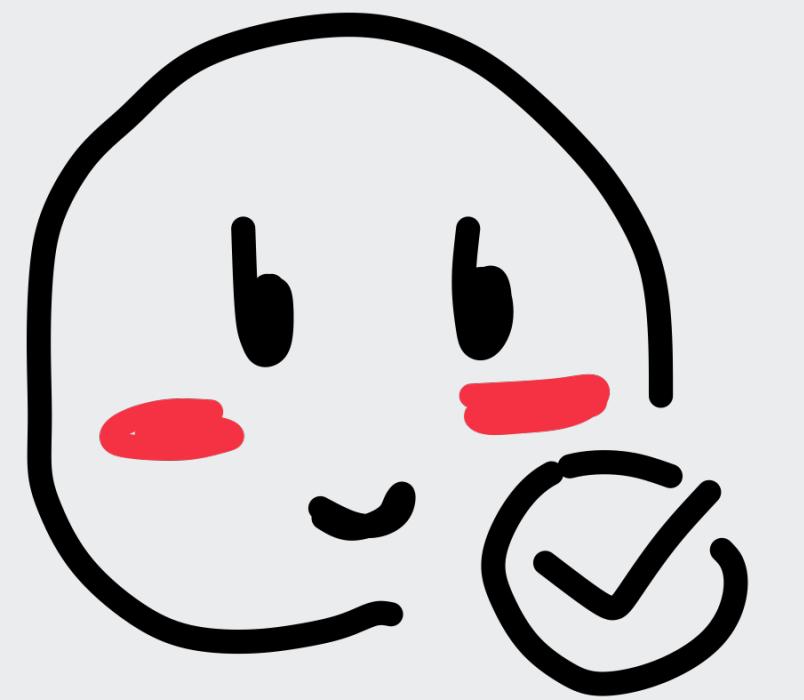
"Who's gonna make the cake when I'm gone? You?"

- Passwordless

The cake is a lie!



@leichteckig



The cake is a lie!



@leichteckig



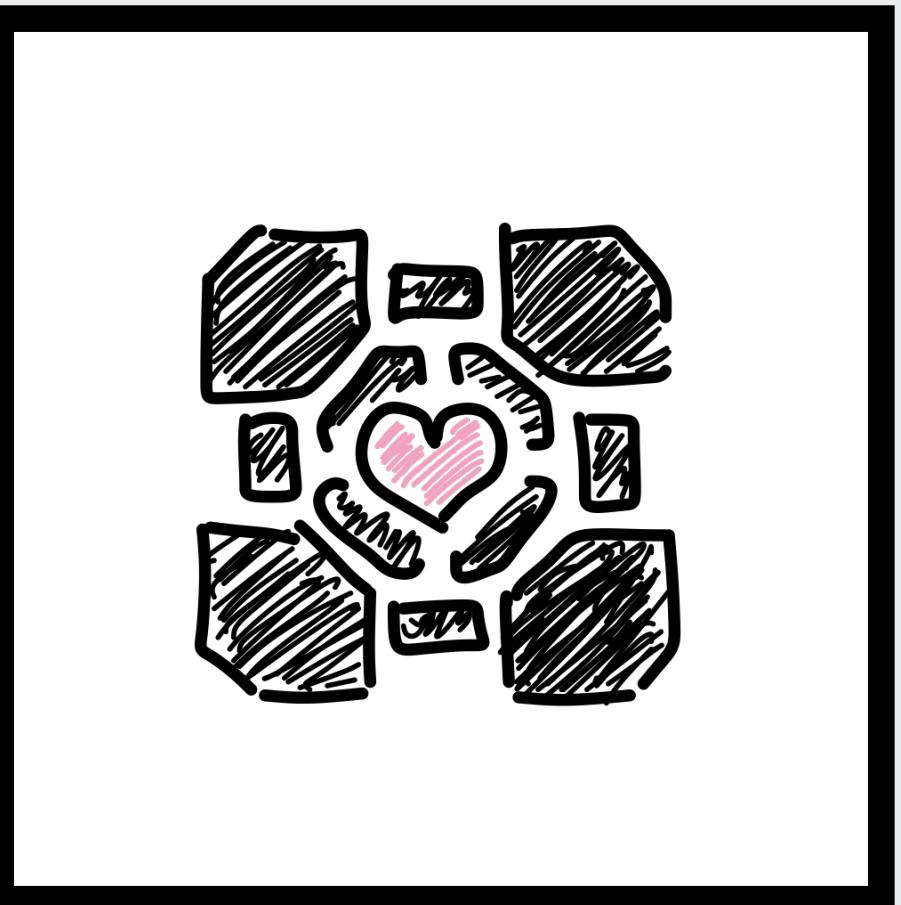
Possible issues!?
...
...

The cake is a lie!



@leichtgekig

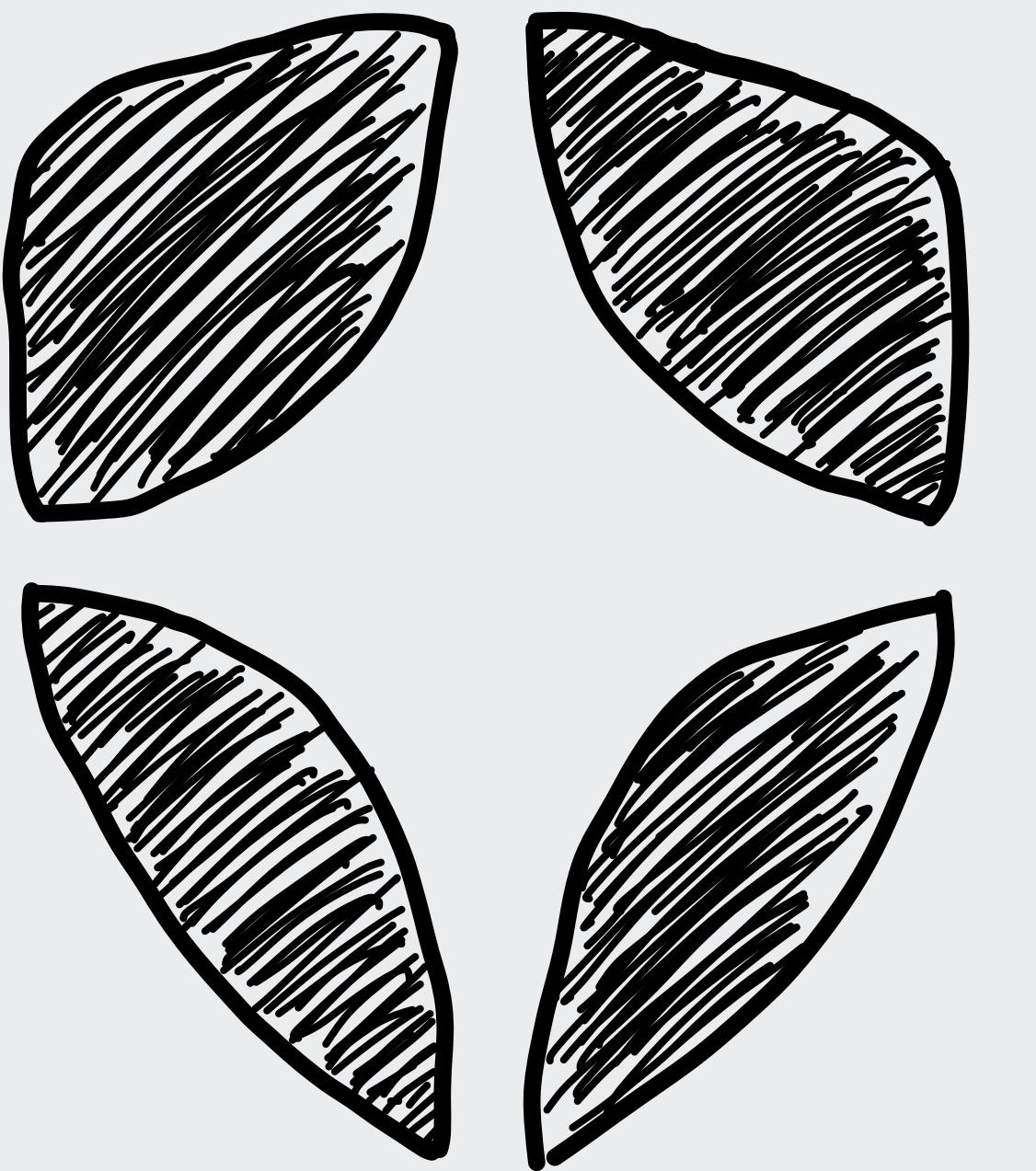
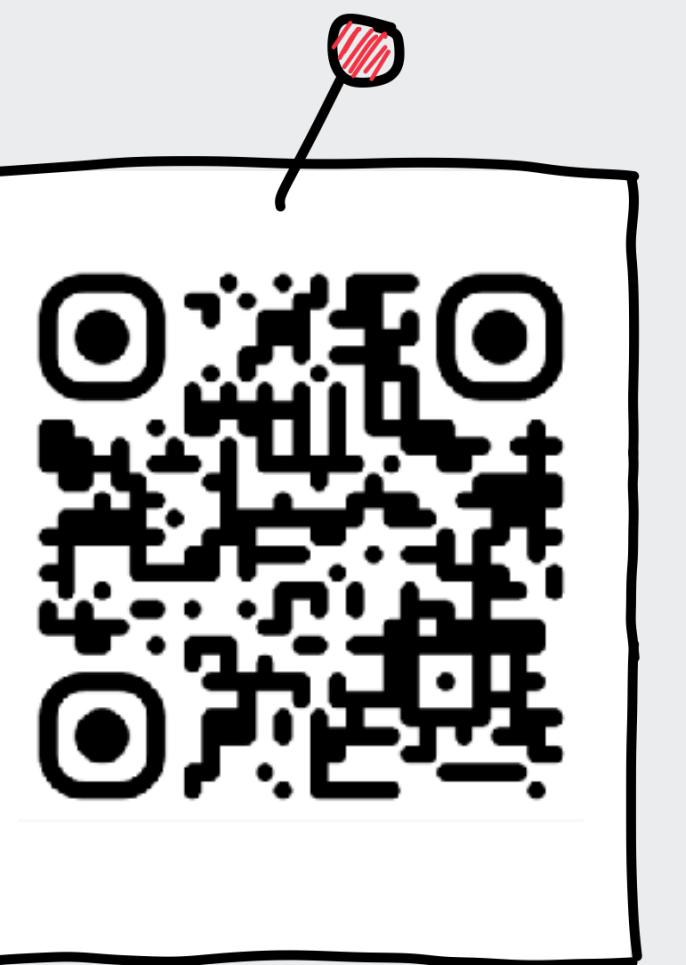
Always provide options 



The cake is a lie!



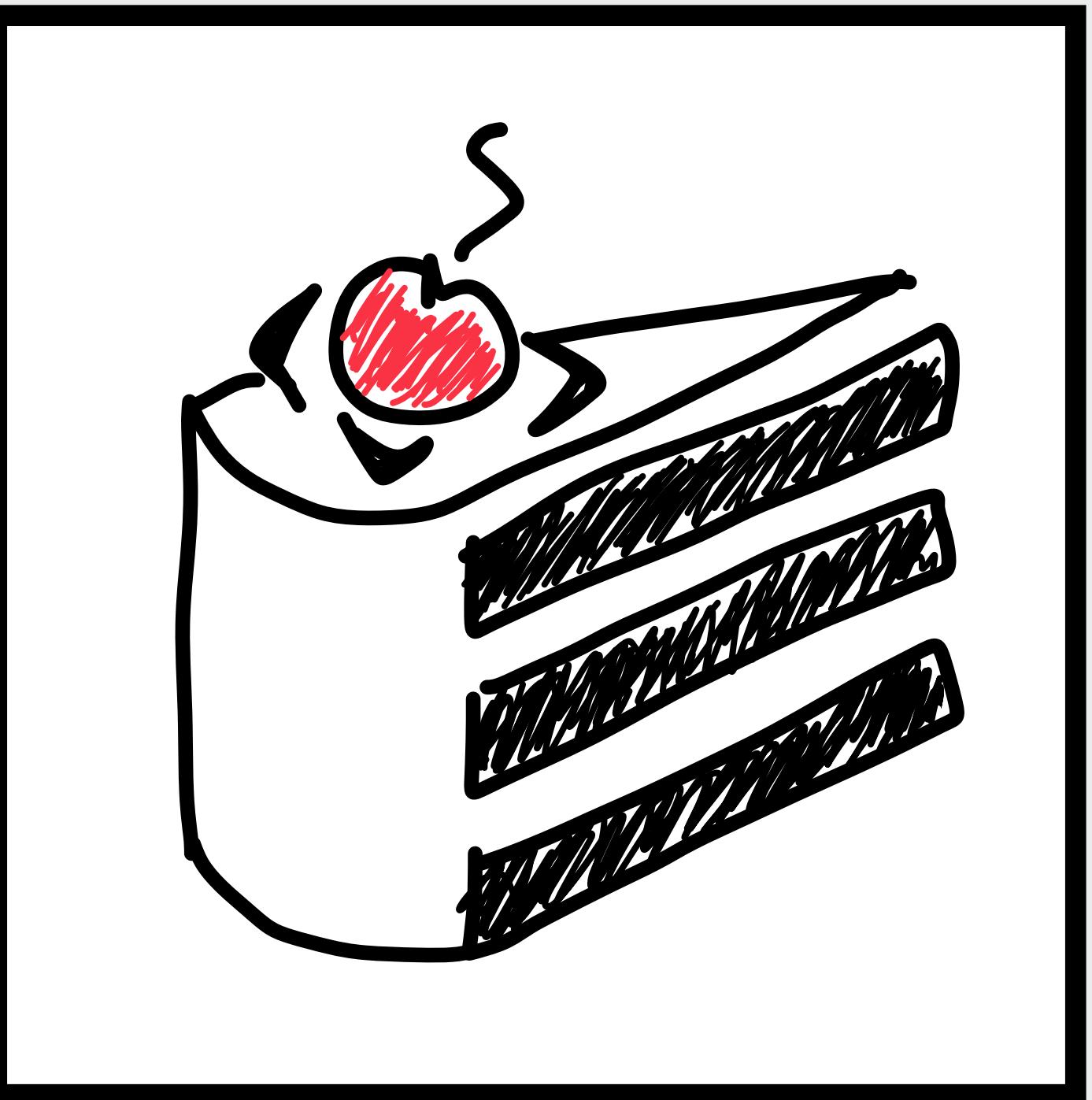
@leichteckig



The cake is a lie!



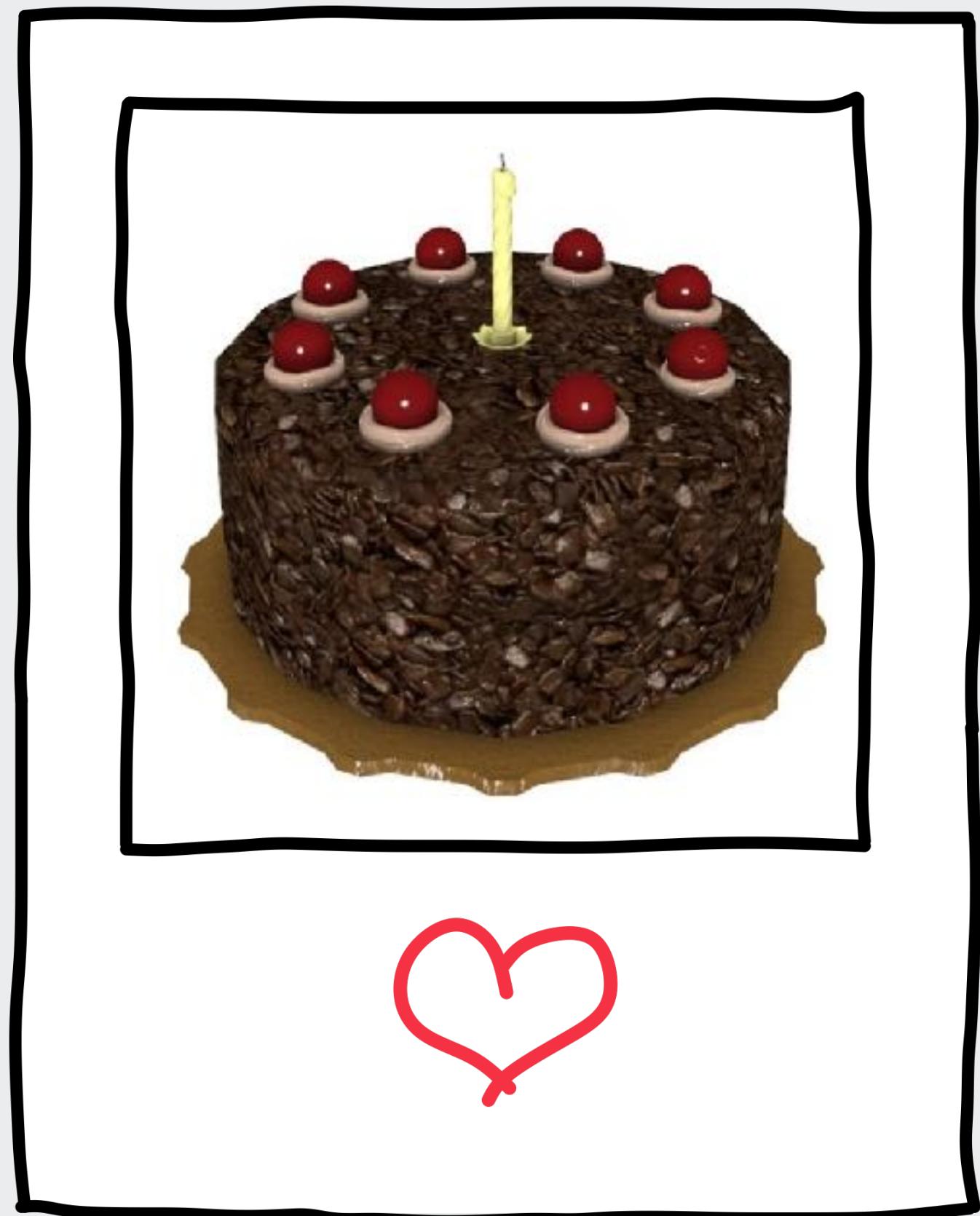
@leichteckig



The cake is a lie!



@leichteckig



The cake is a lie!

@leichteckig



The cake is a lie!



@leichteckig

"Thank you for helping us help you help us all."

