



NOW  
WITH  
240%  
MORE  
BUGS!

# NDC { Oslo }

279

~~82~~ Bugs I Collected in a Year

You Won't Believe Made It to Production

François Martin

# KaRakun

# François Martin

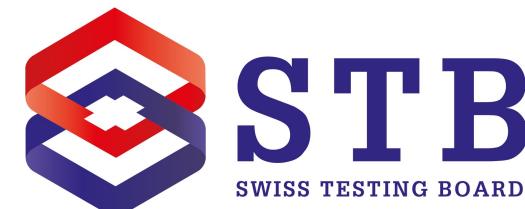
Senior Full Stack Software Engineer

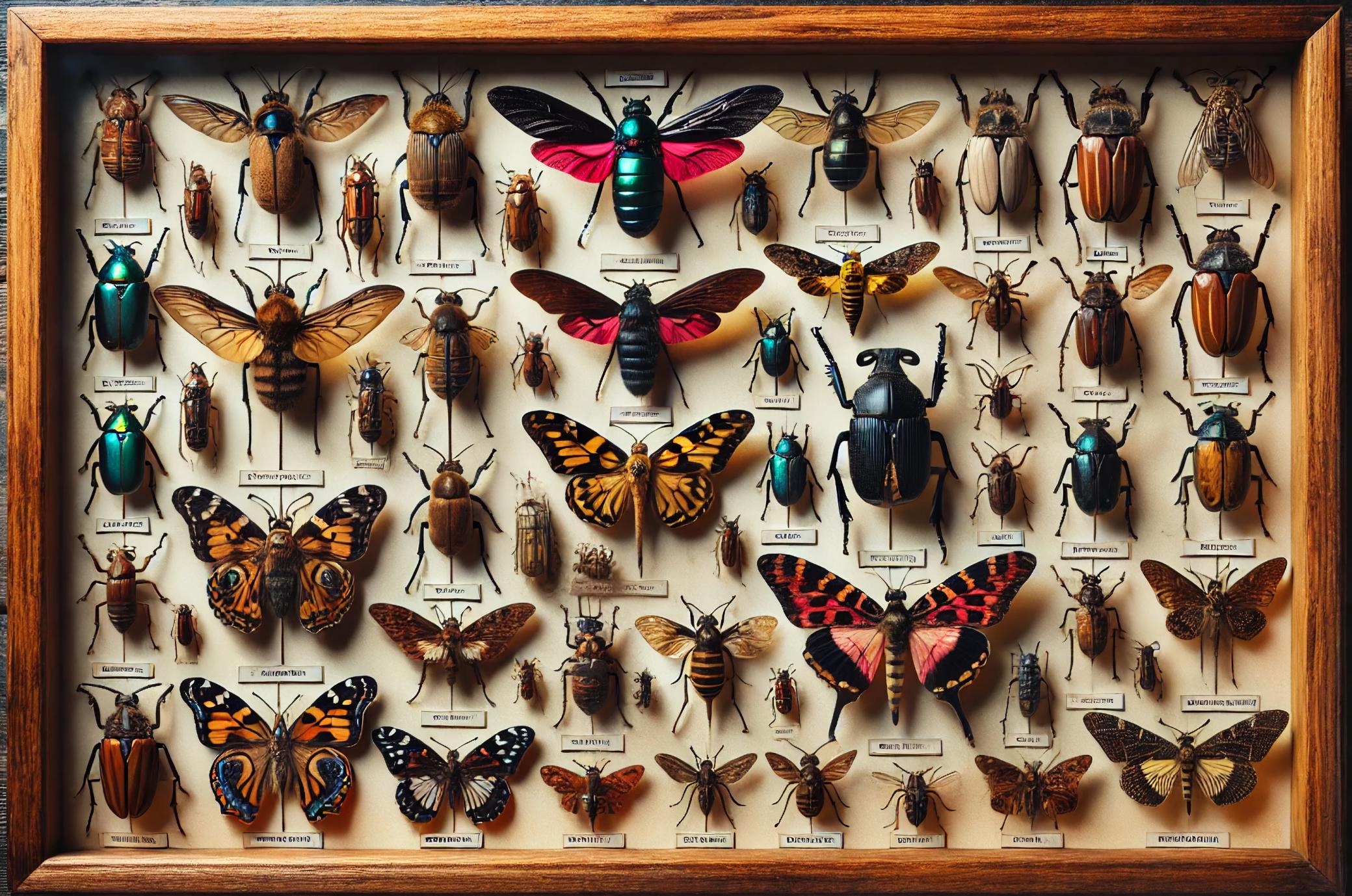
✉️ [francois.martin@karakun.com](mailto:francois.martin@karakun.com)

📞 [martinfrancois](https://www.linkedin.com/in/martinfrancois)

linkedin [/in/francoismartin](https://www.linkedin.com/in/francoismartin)

X [@fmartin\\_](https://twitter.com/fmartin_)







Identit  
Default

Inbox • 77



...

# Rapidly build modern

Viewing 42 of 38

Hello  
Thought for 15

\_BAR: React  
without usin  
possibly link

## A utility-first CSS framework packed with



## Customize

### Customise your Burger



Bacon



1



American Cheese



1



Flame-grilled Patty



1



# Disclaimers



- No bashing of companies
  - → Found bugs in some of the biggest tech giants and smallest startups
- I didn't develop these apps
  - → I can only guess where the bugs originate based on my experience
- UI Bugs
  - → Code likely written in the frontend
- Platforms used: **Android, macOS, iPadOS, and Windows**
- Most found by me, a handful sent by others or posted recently online



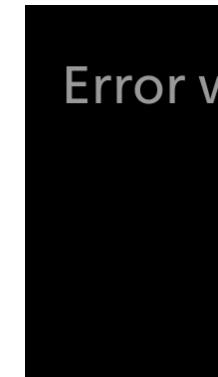
# What is a bug?

## ISTQB Glossary Definition – “defect”

An imperfection or deficiency in a work product where it does not meet its requirements or specifications or **impairs its intended use**.

### My Rules

- Only unique bugs
- Errors count if:
  - They expose information they shouldn't
  - They provide no instructions on what to do
  - Instructions exist but don't work
  - Reproducibility doesn't matter – if it happens once, it counts
- No apps/websites I contributed to



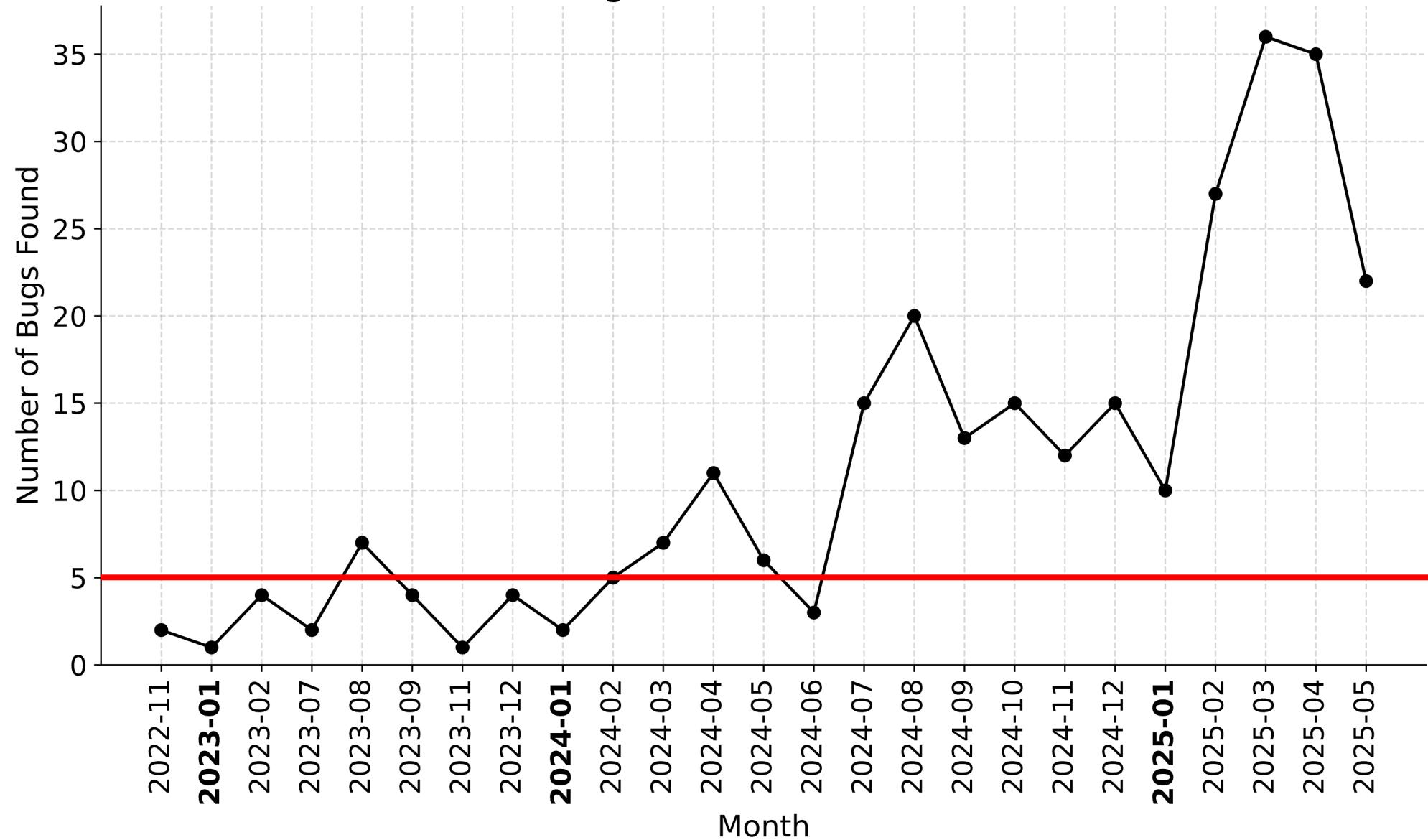
**Oops...**

Oops, Something went wrong. Talk to support for assistance.

Refresh

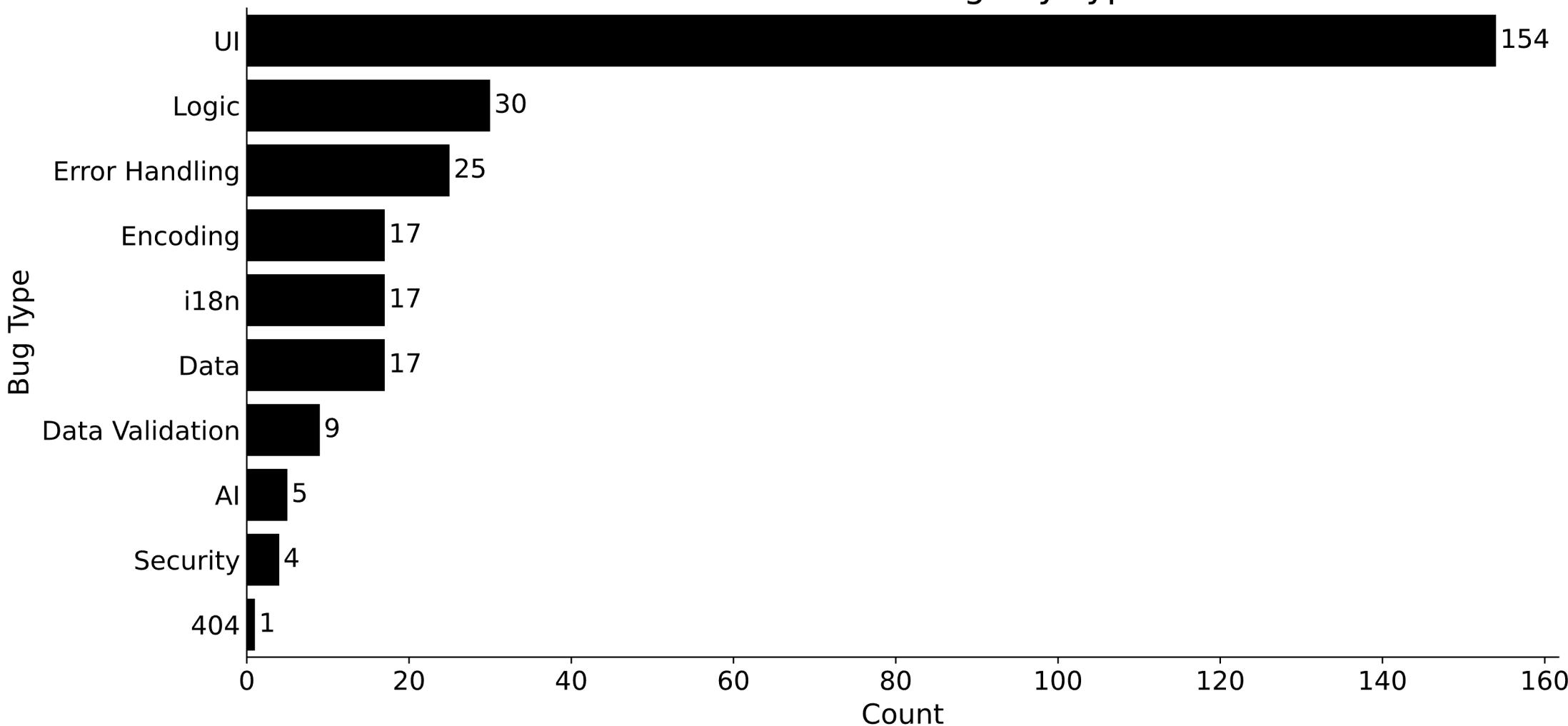
Talk to support

# Bugs Found Per Month





## Distribution of Bugs by Type



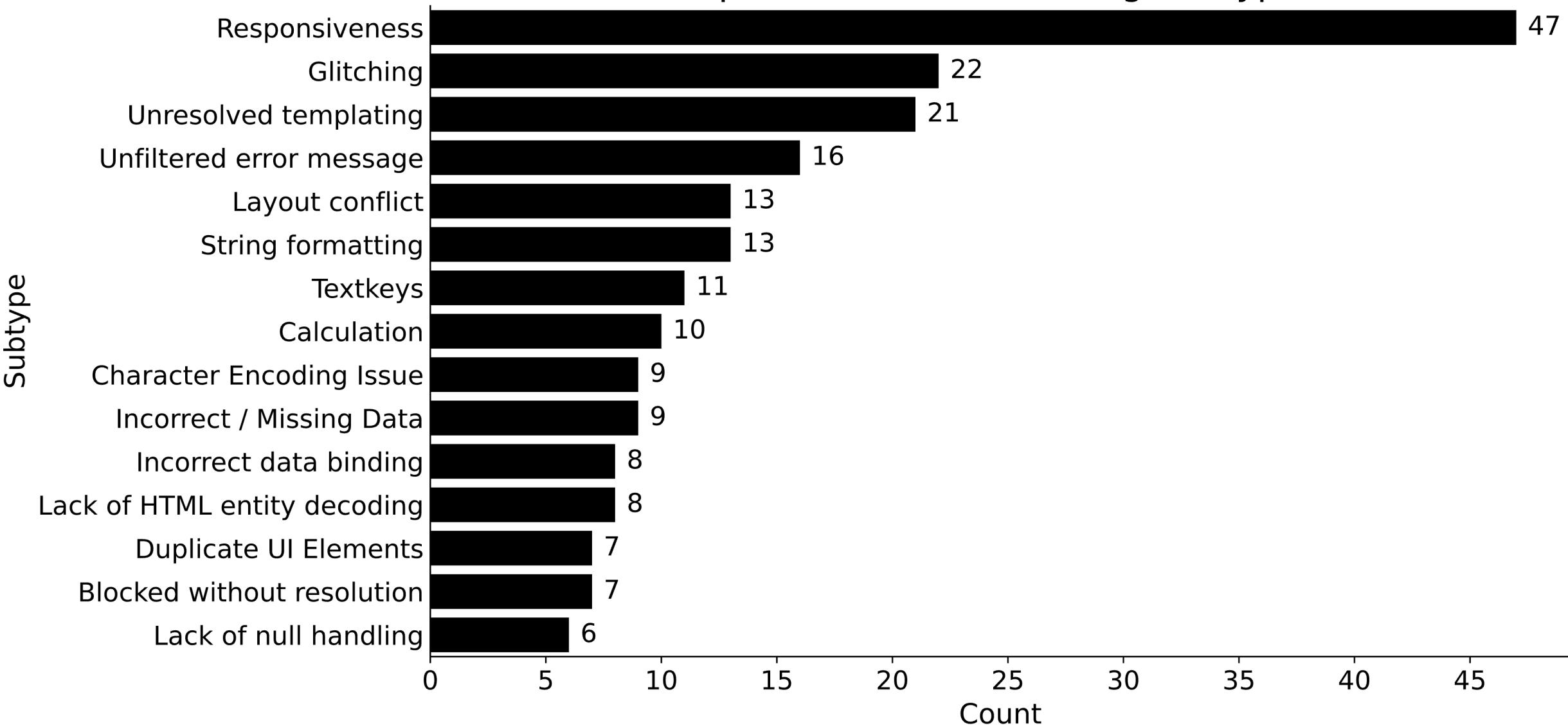


it's better, but there's still a layout shift

Thought for 11 seconds >

It looks like you've pasted a bunch of content about "Juggernaut Astro Toilet" that doesn't relate to our image-loading conversation. Could you clarify what you need help with here? If you meant to show a different Astro component or example, please point me to the specific file or code so I can help troubleshoot the layout shift.

## Top 15 Most Common Bug Subtypes



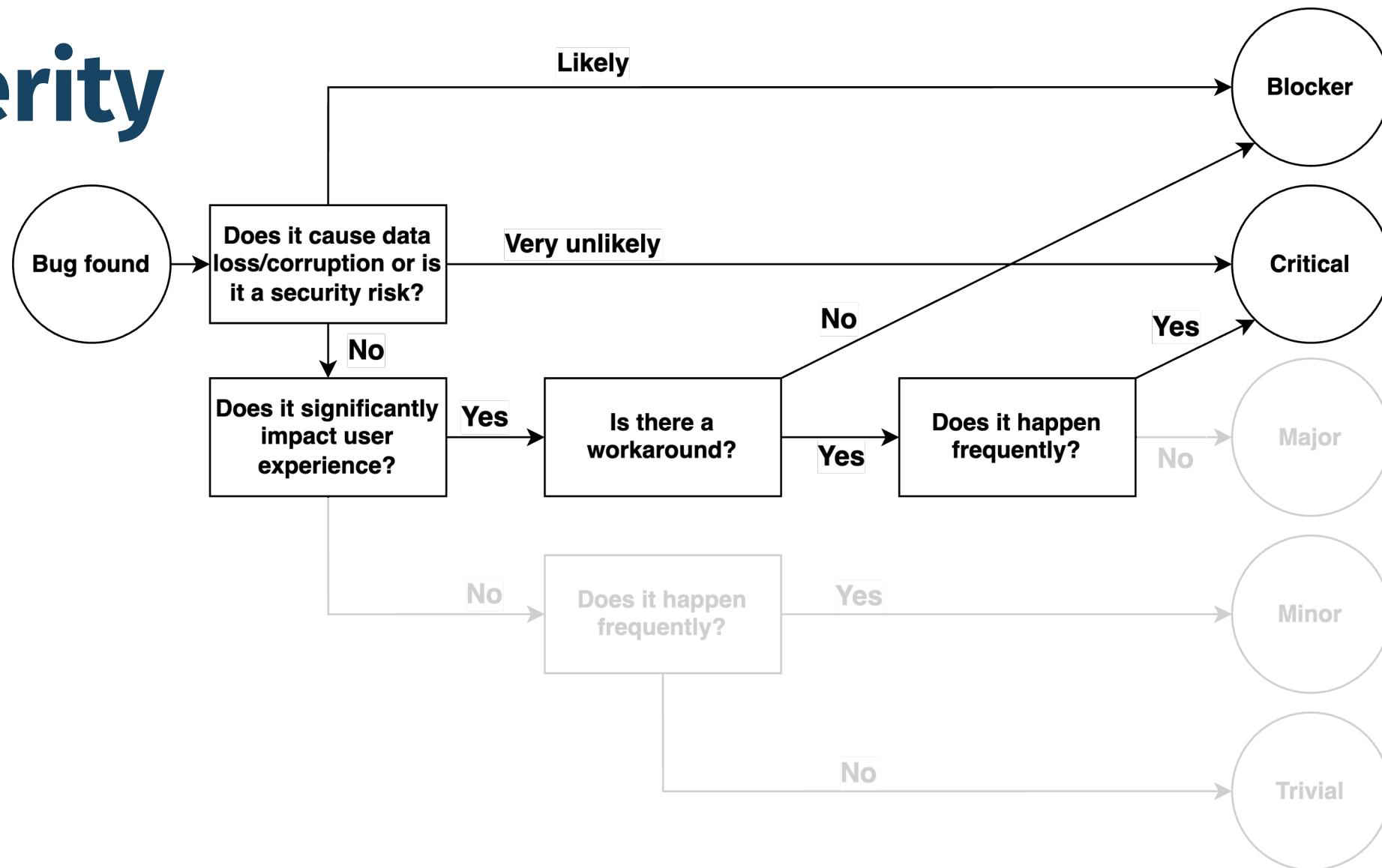


Twitter

@fmartin\_

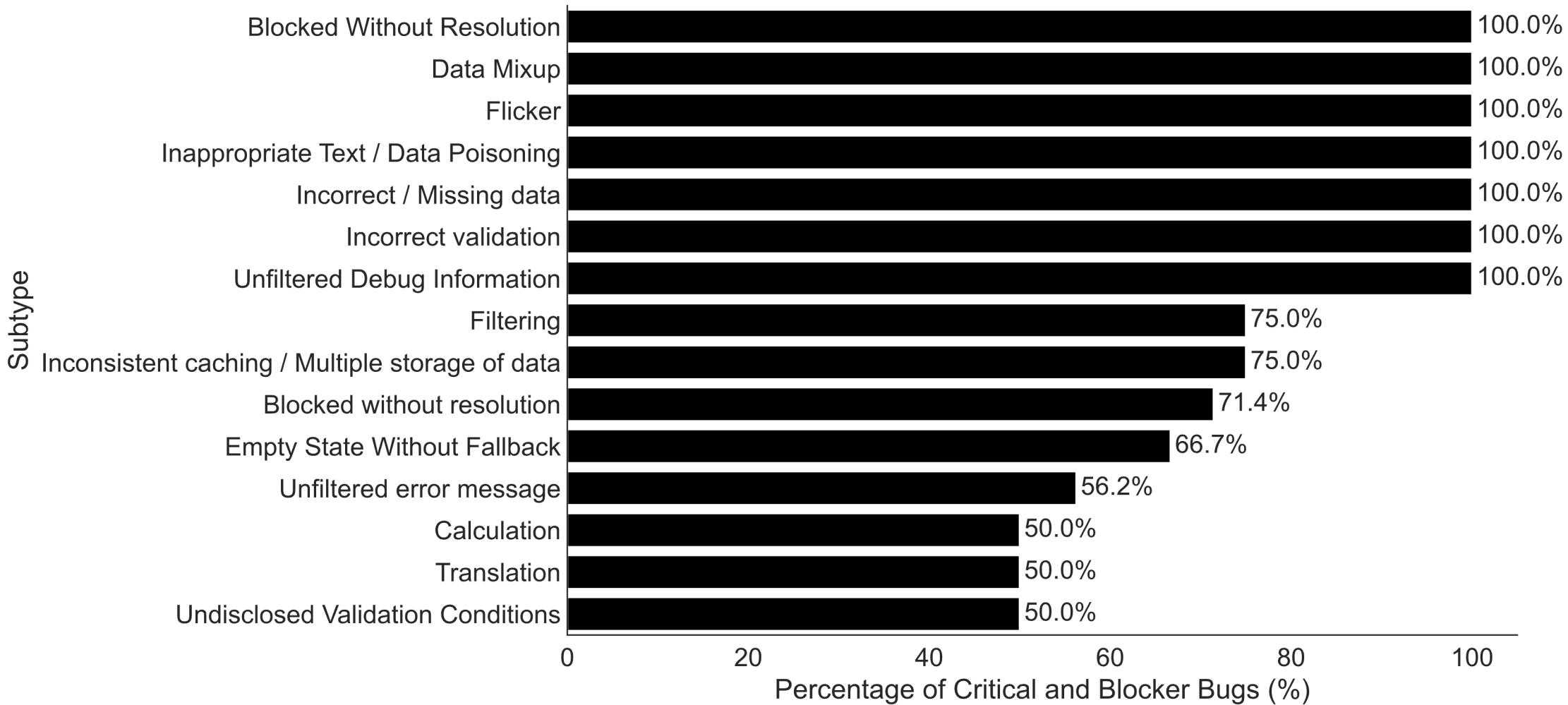
**Must be a valid Twitter username  
(e.g. '@username')**

# Severity



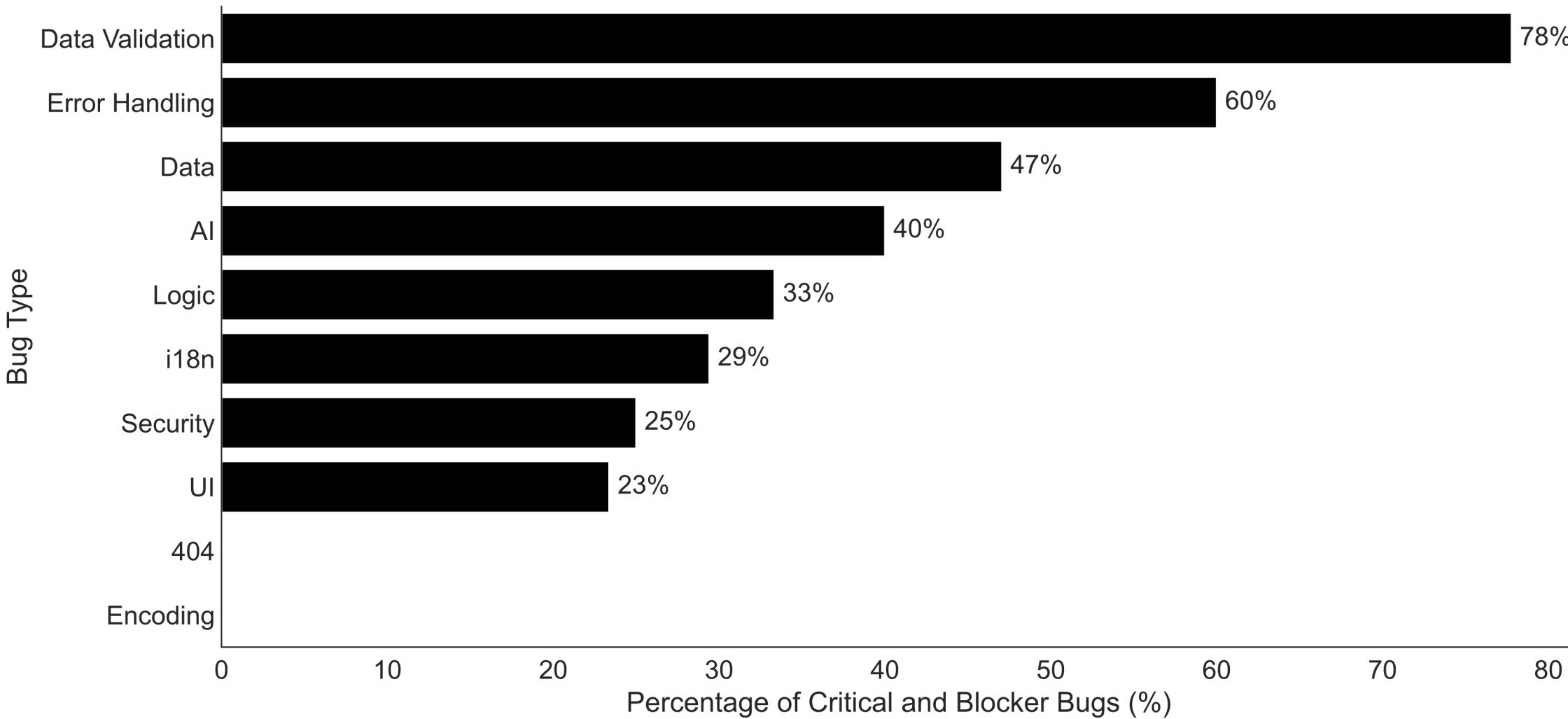


## Top 15 Bug Subtypes with Highest Percentage of Critical and Blocker Bugs

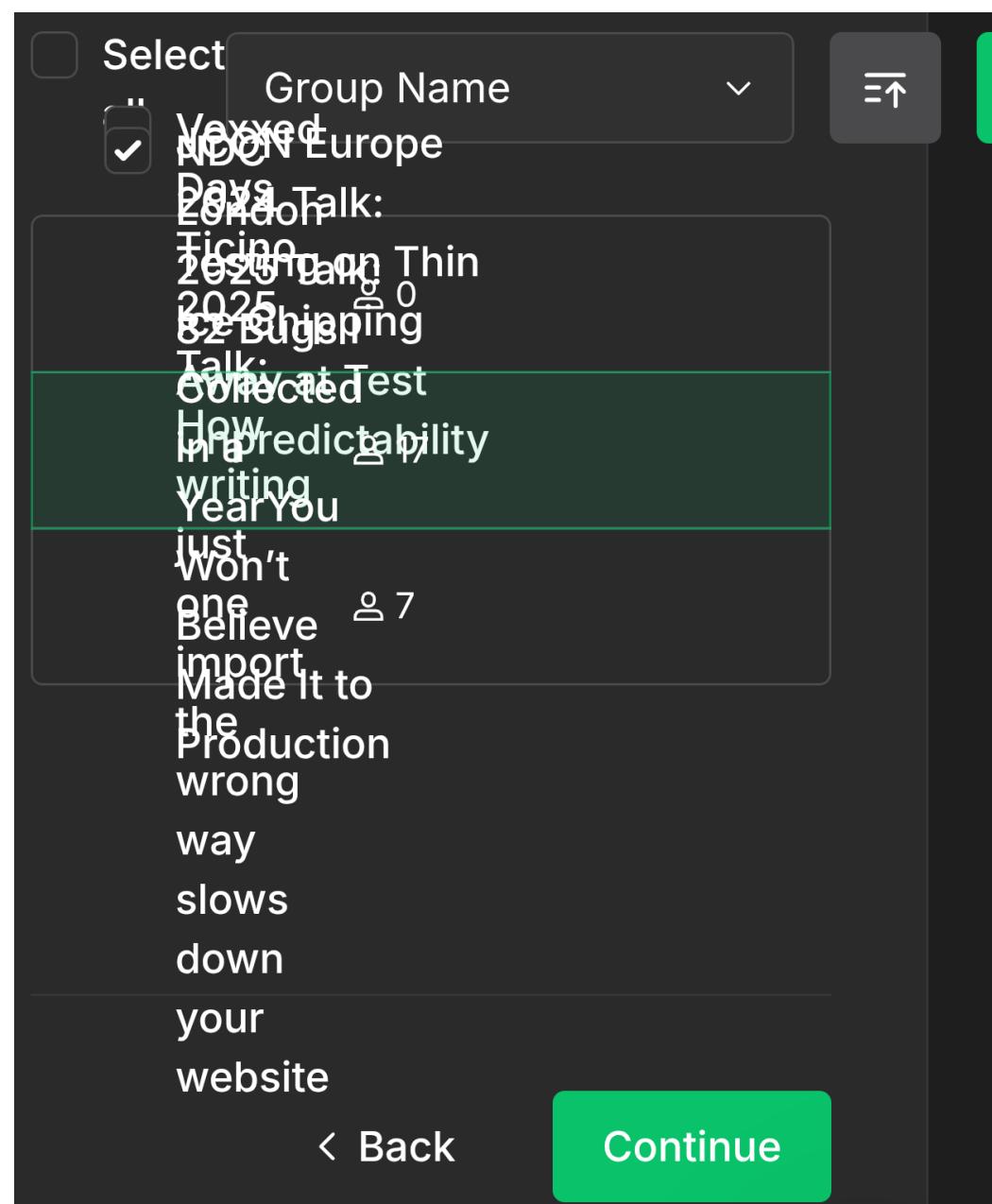




## Percentage of Critical and Blocker Bugs per Bug Type



# Responsiveness

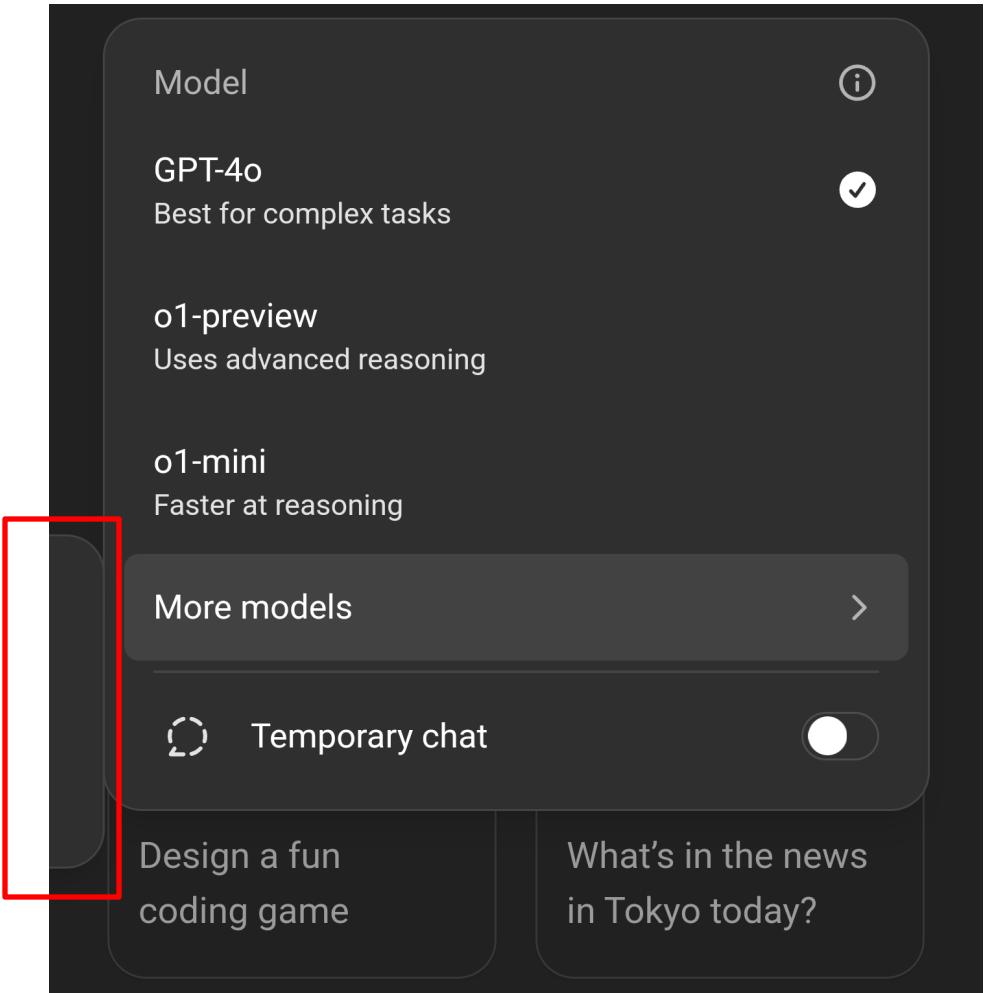


# Responsiveness



**Bug: “More models” are cut off, not clickable on mobile**

- Mobile-first design
- End-to-end testing on mobile devices
  - Use frameworks like WebdriverIO to test on simulators/emulators and real devices
  - Alternatively, Playwright offers emulation (not as good)



# Glitching



{"mobileapp\_buybox\_group\_1":  
[{"displayPrice":"CHF 14.34","priceAmount":1,  
"GB","buyingOptionType":"NEW","aapiBuyingO  
Brief content visible, double tap to read full  
content.

Full content visible, double tap to read  
brief content.

## ALL DEVICE BACKUPS



FiPad

iPad เครื่องนี้

626.4 MB >

Whenever your device is backed up in iCloud, you can use that backup to restore information or set up a new device.

Price (CHF 14.34x)	-CHF 14.34
Subtotal CHF	Initial payment breakdown
Subtotal	CHF 14.34

# Glitching

- End-to-end testing
- “Dogfooding”
- Exploratory Testing



due to a genuine bug, but instead of



Correctness · Correct your spelling



...a genuine **bugbug bug bug**, but instead...

Accept

Dismiss



...

# Glitching

## Heatmap Visualization

- “Dead clicks”
  - Click on element, nothing happens
- “Rage clicks”
  - Repeated clicks out of frustration
  - Point of friction
  - Broken element
- Open Source Tool: [Posthog](#)

How many Rs are in the word "strawberry"?

List of good questions to ask an AI chat bot

How many Rs are in the word  
"strawberry"?

Claude 3.5 Sonnet ▾





# Unresolved templating

## Included Software



\_NOT\_AVAILABLE\_ (3)

---

Creative Projection (35)



# Unresolved templating

## Bug: Placeholders not replaced

- Unit-/Integration testing
  - Test email templates, assert all placeholders missing
- Test edge cases:
  - No value
  - Very long value
  - UTF-8 characters



We would like to remind you that the reception  
is open XNUMX/XNUMX every day.

Hi \*|FNAME|\*,

Join our upcoming webinars to hear directly



# Unfiltered error message



Cannot read properties of undefined (reading 'toString')

Application error: a client-side exception has occurred (see  
the browser console for more information).



# Unfiltered error message

**Bug: Error message shown to user is generated from library/framework used**

- Can be security or usability issue
- Turn off stack traces in the UI in production
- In production, only show explicit errors returned from backend
  - Otherwise show generic error message  
“An unexpected error occurred, please try again later or contact ... if the issue persists.”
- Add alerting for errors from frontend and backend

**Server Error in '/\_mvc' Application.**  
*Response is not available in this context.*

**Exception Details:** System.Web.HttpException: Response is not available in this context.

**Stack Trace:**

```
[HttpException (0x80004005):  
Response is not available in  
this context.]  
System.Web.HttpContext.get_Resp  
onse() +11822135  
[REDACTED].Web.MvcApplication.Appl  
ication_Start() in  
C:\Users\WorkBox\Source\Workspa  
ces\[REDACTED]\[REDACTED]\[REDACTED]\[REDACTED]  
[REDACTED].Web\Global.asax.cs:47
```

The field Coupon must match the regular expression '^[a-zA-Z0-9\_]{4,30}\$'.



# Unfiltered debug information

## Bug: Debug information shown to users

- Turn off debug flags for production
  - If you must, use feature flags for specific users
- Prevent SQL injection and XSS

The screenshot shows a user interface element with a light gray background. At the top right, the text "Ci sono 1 pagine" is displayed. Below it, a horizontal line separates the page count from the main content area. In the main content area, there is a line of SQL code: "-UPDATE carrello SET sconto='664-DDF' WHERE id=". A large black rectangular redaction box covers the majority of the content below the SQL query. To the right of this redacted area, the text "USEFUL PAGES" is visible in a dark gray box.



# String formatting

## Bug: Text not adjusted depending on input

- Unit-/Integration testing
- Parameterized testing/data driven testing
- Beware with i18n: can be different depending on the language
- Test edge cases

PLAYING FROM SEARCH  
"my+way" in Search

NUMBER OF GUESTS  
**2 Guest**



# Text keys

Products

Contact Us

po

npl

???

jsp.footer.products.nowy???

???

jsp.footer.products.gravitrax???

pa

???

jsp.footer.products.puzzle???

???

jsp.footer.products.puzzle-  
3d???

cripti

???

???



# Text keys

## Bug: Text keys showing

- Unit-/Integration testing
- Libraries like i18next can log warning when text key is not translated
  - Effective in combination with component tests where test fails on console warnings but requires good test coverage
- Flashing of text keys
  - Use SSR
  - Show skeleton screen when i18n files not loaded yet

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???BLUE\_LIGHT\_FILTER\_DISCLAIMER???

# Incorrect/missing information



## Bug: Incorrect information being shown

- Use four-eyes principle when entering data
- Add validations in case of data being significantly different from previous
- When fetching data from an API, especially in finance: perform plausibility checks
  - In case of unexpected data, alert and show old data with notice or display error message

41.007,83 Japanese Yen  
equals

**239,33 Swiss Franc**

29 Aug, 11.55 UTC · Disclaimer



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