

# The Sheer Terror of PAM

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RustConf 2022



# Speaker Introduction

- ✦ Archmage of Infrastructure at Tailscale
- ✦ SRE for half of my career
- ✦ Moving into DevRel



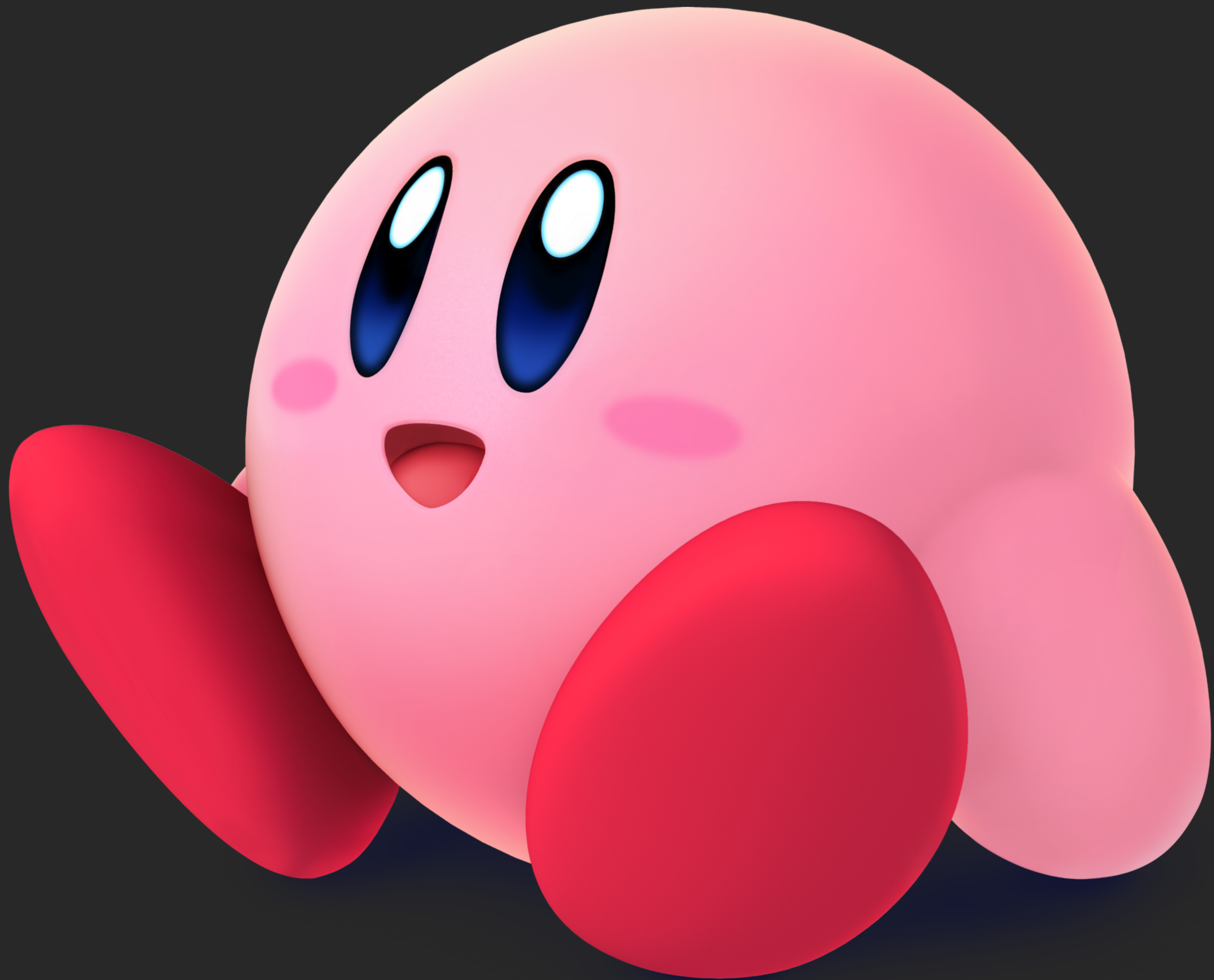
Authentication

Authorization

# Authentication



# Authorization





2 PACK

NO-STICK COOKING SPRAY

PAM<sup>®</sup>

ORIGINAL

made with CANOLA OIL BLEND



SERVING SUGGESTION



PER 0.25g SERVING

0  
Calories

0g  
Sat. Fat  
0% DV

0mg  
Sodium  
0% DV

0g  
Total  
Sugars

CAUTION FLAMMABLE  
CONTENTS UNDER PRESSURE READ  
PRECAUTIONS ON BACK BEFORE USING

2 - 12 OZ CANS  
NET WT 24 OZ (680g)











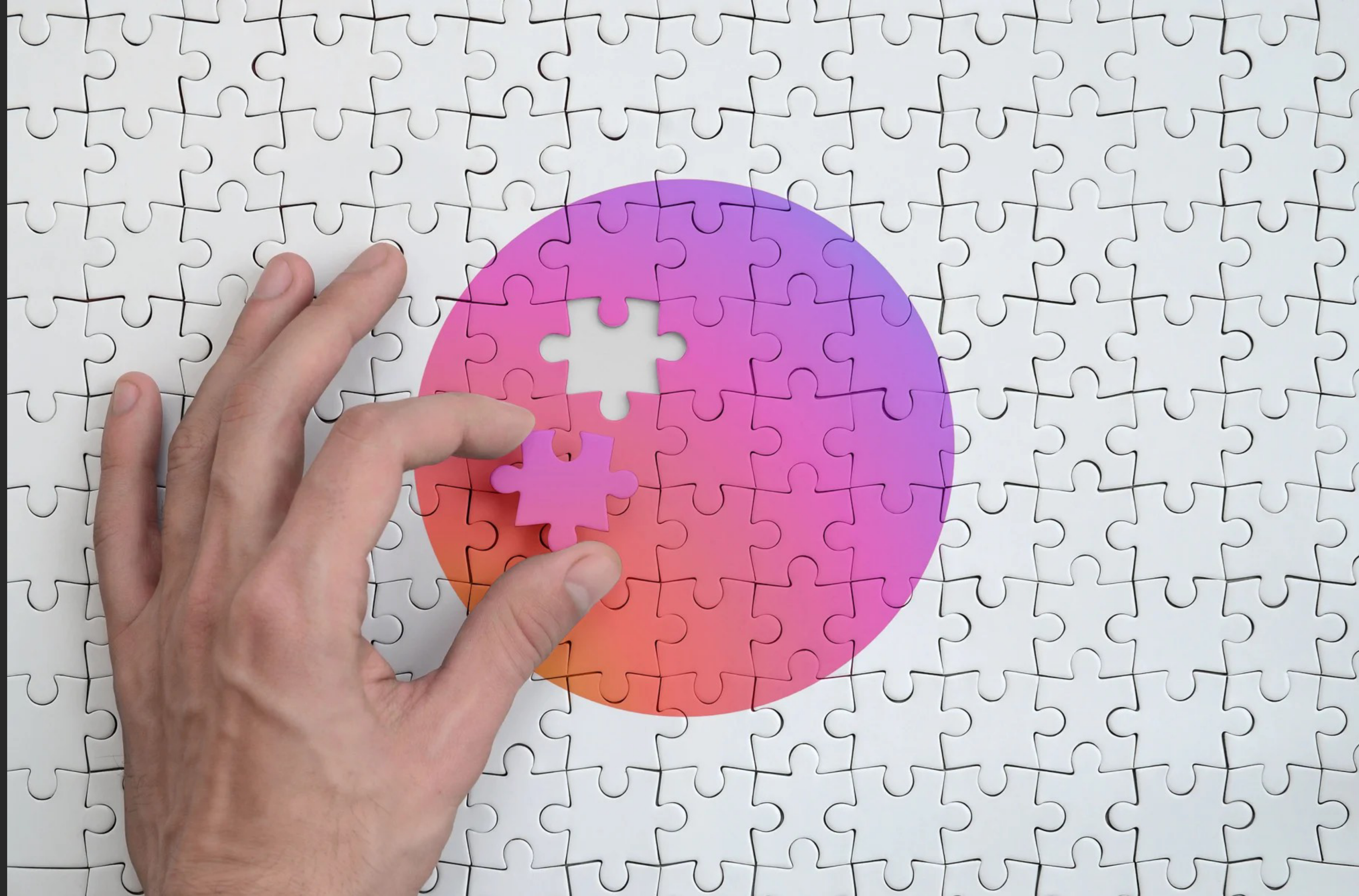


*Sum*®

microsystems









# FreeBSD Handbook

**THE**  
**C**  
**PROGRAMMING**  
**LANGUAGE**

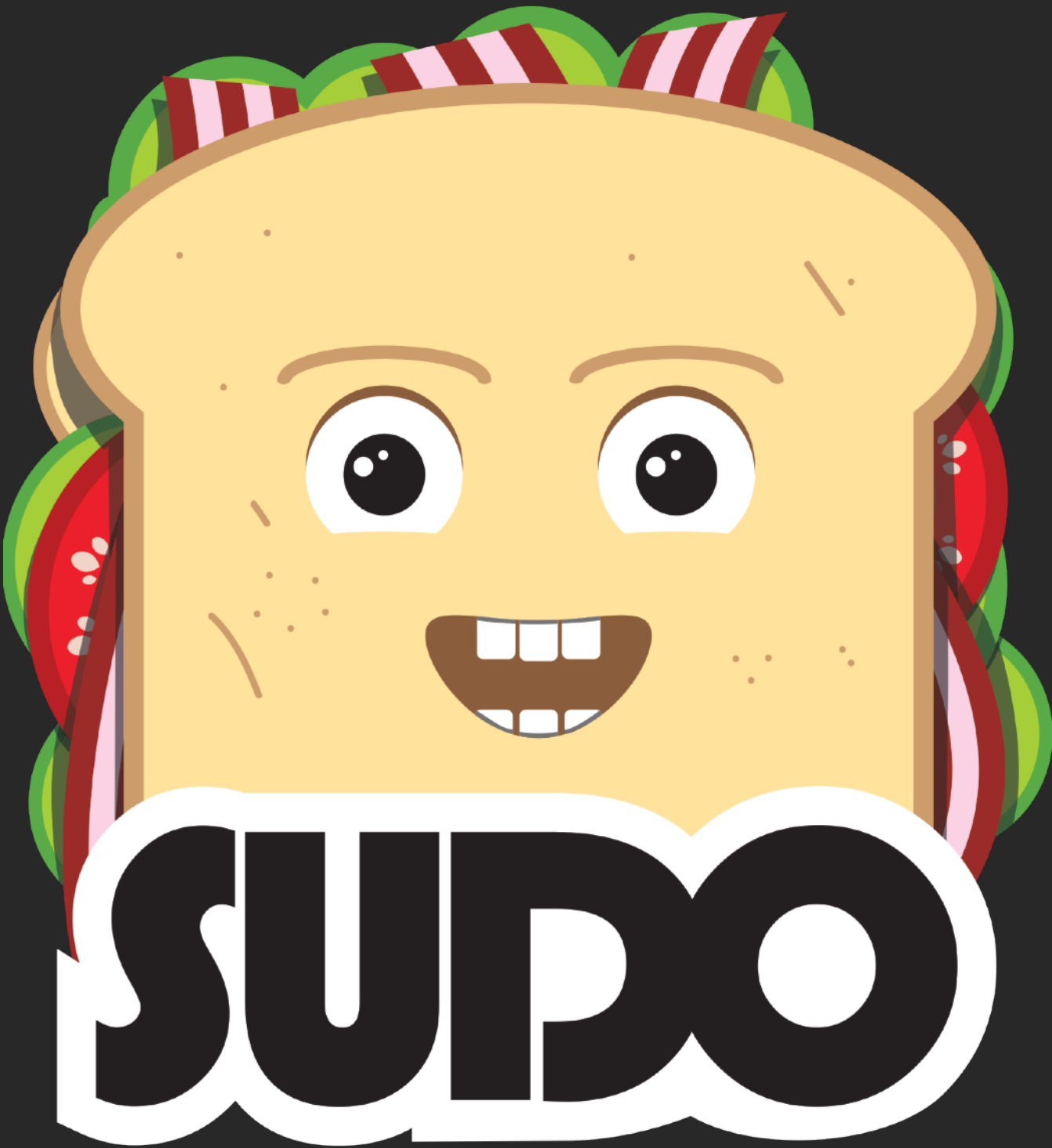
Brian W. Kernighan • Dennis M. Ritchie

PRENTICE HALL SOFTWARE SERIES



2022











goto













**MT. INCREDIBLY UNSTABLE**





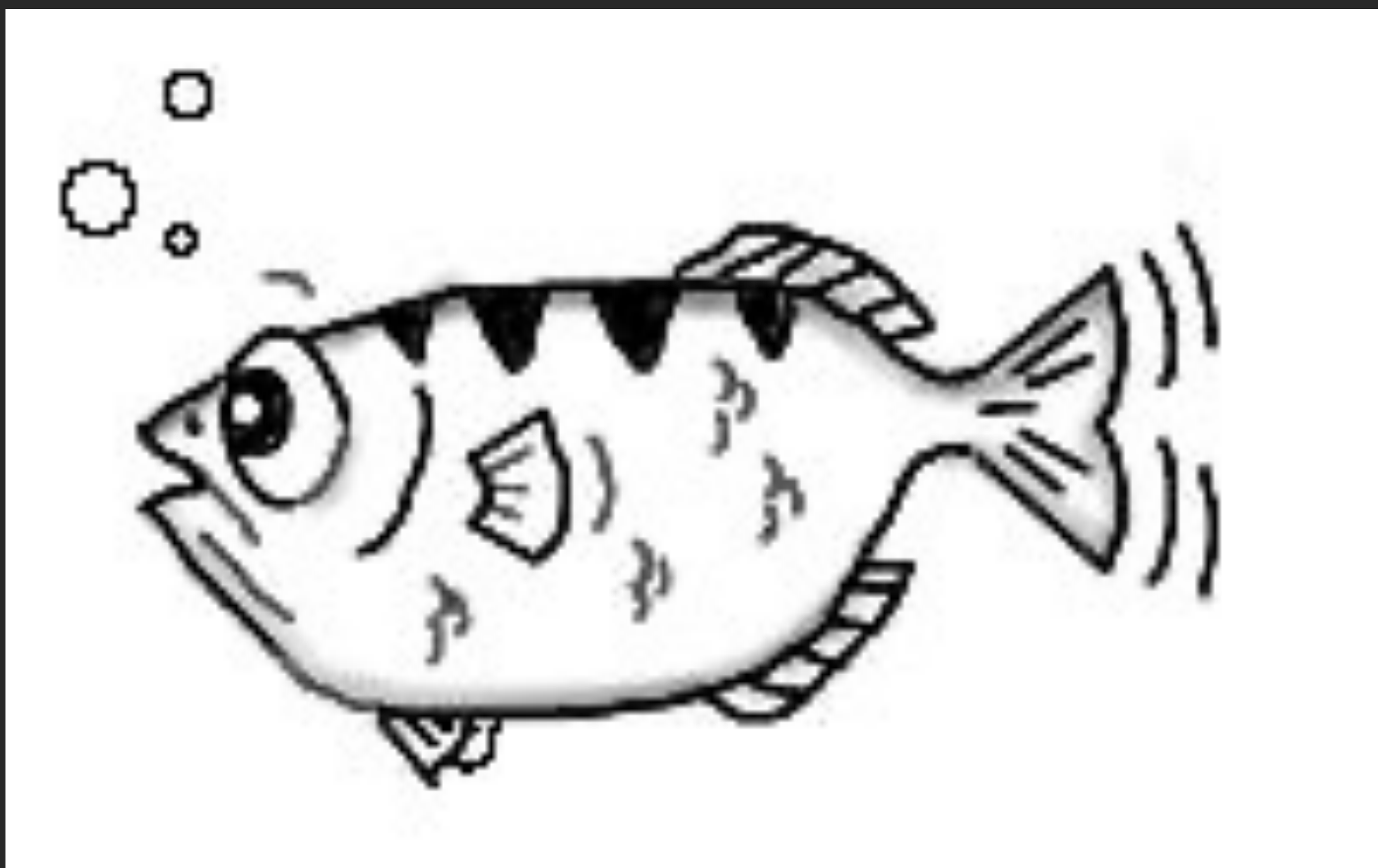


SSH...

*Open* **SSH**

KEEPING YOUR COMMUNIQUÉS SECRET









Windows XP



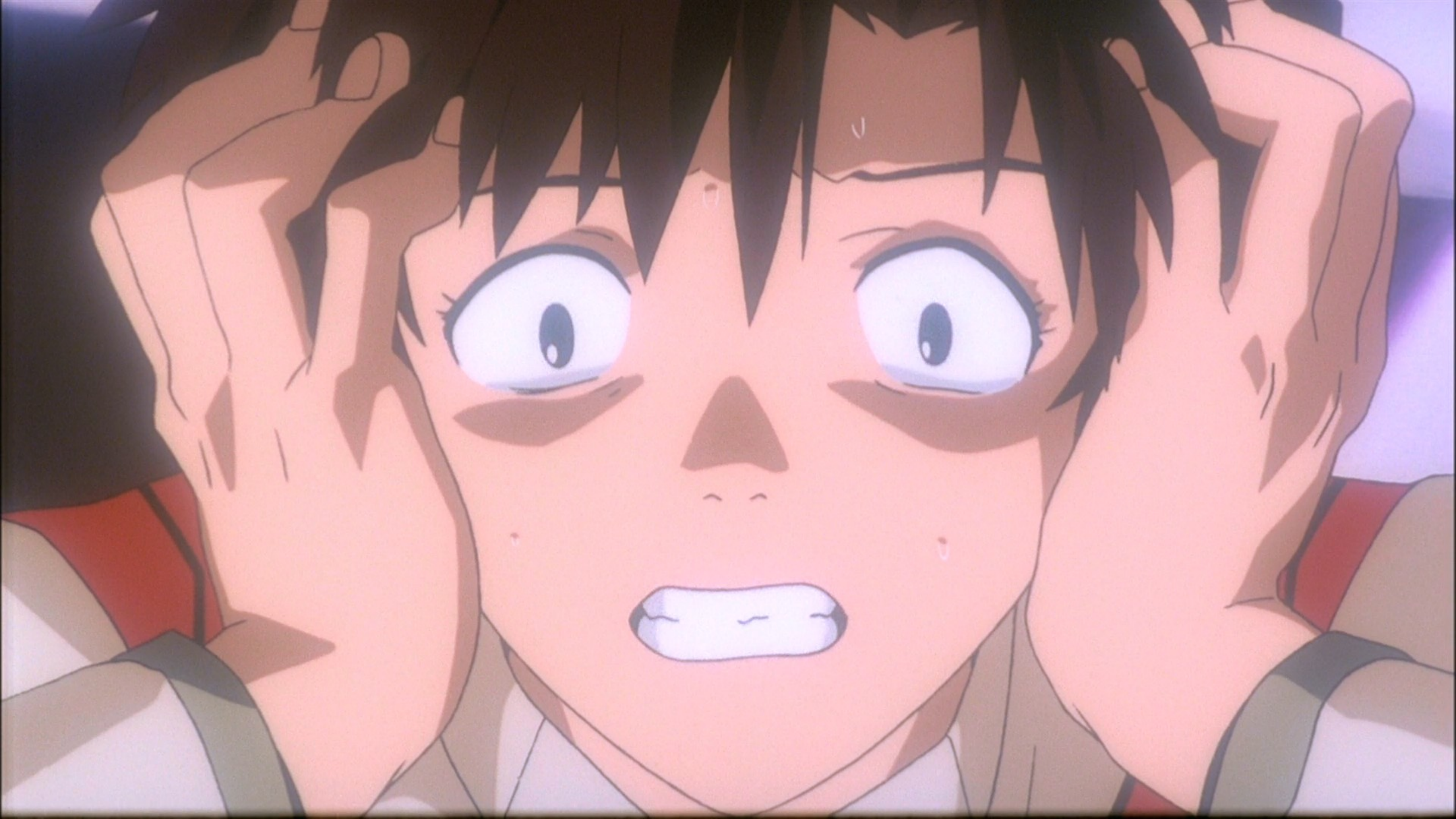
Task failed successfully.

OK





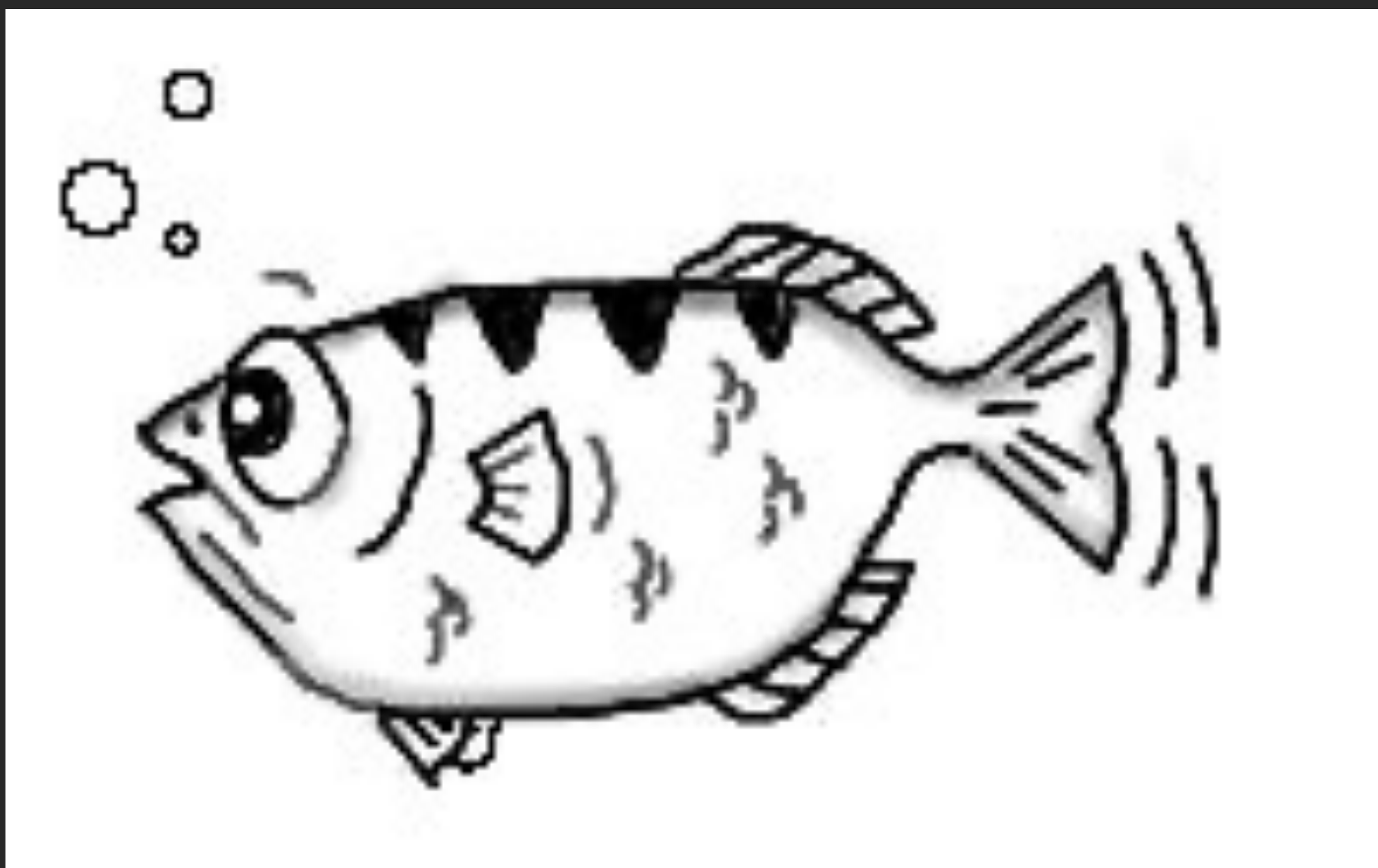




























SSH...

*Open* **SSH**

KEEPING YOUR COMMUNIQUÉS SECRET





# Drawbacks of PAM

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- ✦ Safe as an earthquake

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- ✦ Yolo pointers



int \*\*



0x3f800000



SIGSEGV





# Triton Reef

RG  
mech  
EX









# Drawbacks of PAM

- ✦ Safe as an earthquake
- ✦ Yolo pointers
- ✦ Administrators are in control

# PAMConfigFrameworkSpec

- **Launchpad Entry:** [pam-config-framework](#)
- **Created:** 2008-07-08
- **Contributors:** [SteveLangasek](#)
- **Packages affected:** pam, auth-client-config, libpam-\*



# Drawbacks of PAM

- ✧ Safe as an earthquake
- ✧ Yolo pointers
- ✧ Administrators are in control
- ✧ Don't leak ram

# Lessons Learned



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- ✦ Minimize dependencies

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- ✦ Minimize dependencies
- ✦ Less is more
- ✦ Keep your target in mind
- ✦ Use bindgen





# Conclusion



# GReeTZ



- ✧ Selicre
- ✧ dominikh
- ✧ catzkorn
- ✧ raggi
- ✧ Soypete
- ✧ andrew-d
- ✧ Open Skies

- ✧ HakerTeam
- ✧ Scootaloose
- ✧ sailorfrag
- ✧ tytso
- ✧ blackhole
- ✧ artemis
- ✧ Sage



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