THE INVISIBLE TRACEBACK

BLOCKERS THAT MAKE POTENTIAL CONTRIBUTORS DROP OUT (AND HOW TO FIX THEM)

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TWO REQUESTS:

TWO REQUESTS: 1. PLEASE IGNORE ME

TWO REQUESTS:

1. PLEASE IGNORE ME 2. PLEASE KEEP TRACK OF WHAT YOU DO WHEN YOU IGNORE ME





HACKER

WHO AM I?

HACKER OF SYSTEMS

MHO AW IS

HACKER OF SYSTEMS FOR PEOPLE

WHO AM I? HACKER OF SYSTEMS OF

- **FEOFLE**

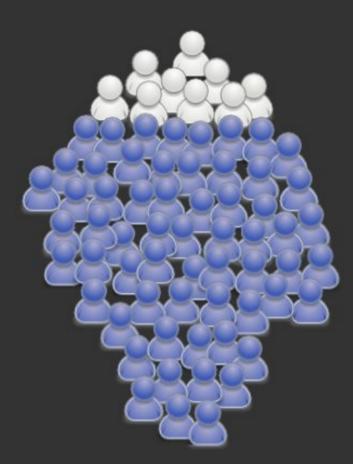
MHO AW IS

HACKER OF SYSTEMS OF PEOPLE MAKING SYSTEMS FOR PEOPLE

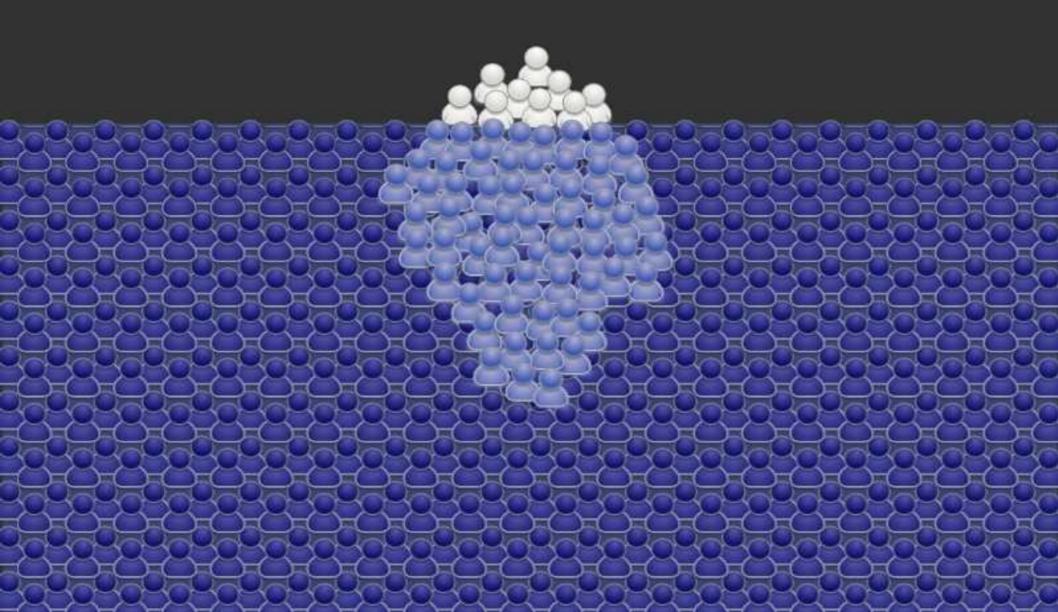
WHERE ARE THE PEOPLE?







OR REALLY, HERE.



UNIX FHILOSOFHY #12: RULE OF REPAIR

"WHEN YOU MUST FAIL, FAIL NOISILY AND AS SOON AS POSSIBLE."

THESE PEOPLE KNOW IT.



LISTEN UNDERWATER.

THE IMPORTANT THING IS WHAT YOU DON'T HEAR.

TRACEBACK

WEB.SERVER TRACEBACK (MOST RECENT CALL LAST):

EXCEPTIONS.VALUEERROR?: INVALID LITERAL FOR INT(): /USR/LOCAL/LIB/PYTHON2.4/SITE-PACKAGES/TWISTED/WEB/SERVER.PY, LINE, 152 IN PROCESS 150 SELF.POSTPATH = MAP(UNQUOTE. STRING.SPLIT(SELF.PATH[1:], '/')) 151 TRY: 152 RESRC = SELF.SITE.GETRESOURCEFOR(SELF) 153 SELF.RENDER(RESRC) SELF SITE TWISTED.WEB.SERVER.SITE INSTANCE @ 0X4086F32C (TWISTED.WEB.SERVER.SITE INSTANCE AT 0X4086F32C) PATH '/AMD-FULL/BUILDS/' POSTPATH LIST INSTANCE @ 0X40D2F2EC LOCALS SELF TWISTED.WEB.SERVER.REQUEST INSTANCE @ 0X40D2448C (GET /AMD-FULL/BUILDS/ HTTP/1.1> GLOBALS UNQUOTE (BUILT-IN FUNCTION UNQUOTE) STRING (MODULE 'STRING' FROM '/USR/LIB/PYTHON2.4/STRING.PYC') /USR/LOCAL/LIB/PYTHON2.4/SITE-PACKAGES/TWISTED/WEB/SERVER.PY. LINE 507 IN GETRESOURCEFOR 505 # SERVERS AND DISCONNECTED SITES, 506 REQUEST.SITEPATH = COPY.COPY(REQUEST.PREPATH) 507 RETURN RESOURCE.GETCHILDFORREQUEST(SELF.RESOURCE, REQUEST) 508 SELF **RESOURCE BUILDBOT.STATUS.HTML.STATUSRESOURCE? INSTANCE @** 0X4086512C (BUILDBOT.STATUS.HTML.STATUSRESOURCE? INSTANCE AT 0X4086512C> LOCALS SELF TWISTED.WEB.SERVER.SITE INSTANCE @ 0X4086F32C (TWISTED.WEB.SERVER.SITE INSTANCE AT 0X4086F32C) REQUEST TWISTED.WEB.SERVER.REQUEST INSTANCE @ 0X40D2448C (GET /AMD-FULL/BUILDS/ HTTP/1.1> GLOBALS COPY (MODULE 'COPY' FROM '/USR/LIB/PYTHON2.4/COPY.PYC'> RESOURCE (MODULE 'TWISTED.WEB.RESOURCE' FROM '/USR/LOCAL/LIB/PYTHON2.4/SITE-PACKAGES/TWISTED/WEB/RESOURCE.PYC'> /USR/LOCAL/LIB/PYTHON2.4/SITE-



OKAY.

LET'S MOVE AROUND A BIT.

BLOCKERS

- 1. I DON'T HAVE IT.
- 2. I'M NOT ALLOWED TO USE IT.
- 3. I'M NOT ALLOWED TO PLAY WITH IT.
- 4. I DON'T KNOW I CAN TWEAK IT.
- 5. I DON'T KNOW HOW TO TWEAK IT.
- 6. I DON'T SEE WHY I'D TWEAK IT.

7. I DON'T KNOW ANYONE WOULD CARE ABOUT MY TWEAKS.

8. I DON'T KNOW WHO WOULD CARE ABOUT MY TWEAKS.

9. I DON'T KNOW HOW TO APPROACH THE PEOPLE WHO WOULD CARE ABOUT MY TWEAKS.

10. I DON'T KNOW THAT THIS IS A BUG.

MORE BLOCKERS

11. THE PEOPLE ON THE MAILING LIST ARE MEAN,

12. I'M AFRAID TO BREAK IT.

13. I DON'T WANT TO MAINTAIN MY TWEAK FOREVER.

14. NO VOLUNTEER TRIAGE. OR: VOLUNTEER TRIAGE, BUT NO VOLUNTEER EXCLUSION

15. I'M TOO NEW TO FIT IN WITH THE OLD HATS

16. SITE IS NOT WELL KNOWN

17. NEED A BETTER ELEVATOR PITCH

18. NEED A BETTER PROJECT TO START WITH GRADUALLY.



19. NEED TO CLARIFY APPROPRIATENESS OF PROJECT FOR PARTICULAR SITUATIONS.

20. I DON'T KNOW IF THIS WILL SUIT MY NEEDS

21. I DON'T KNOW IF THIS WILL SCALE

22. I DON'T UNDERSTAND THE SCOPE OF THE PROJECT

23. I DON'T KNOW ENGLISH

24. I'M TRYING TO BE POLITE, AND PEOPLE ARE IGNORING ME

25. I'VE SIGNED AN NDA

26. I CAN'T FIND THE CORRECT PLACE TO CONTRIBUTE (TOO MANY MAILING LISTS, ETC)

LEARNING ABOUT VS LEARNING TO BE

IT'S NOT WHAT YOU KNOW, IT'S WHAT YOU WANT TO LEARN.

HOW TO GET A JOB

1. STUDY HARD

- 2. GET GOOD GRADES
- 3. MAKE A RESUME
- 4. DO RESEARCH
- **5. APPLY TO JOBS**
- 6. GET INTERVIEWED
- 7. GET AN OFFER
- 8. ACCEPT THE OFFER
- 9. GO TO ORIENTATION
- **10. WORK ON SOMETHING**

HOW TO WORK ON OPEN SOURCE.

10. WORK ON SOMETHING

WHAT DO THESE STEPS DO?

- 2. GET GOOD GRADES
- 3. MAKE A RESUME
- 4. DO RESEARCH
- 5. APPLY TO JOBS
- 6. GET INTERVIEWED
- 7. GET AN OFFER
- 8. ACCEPT THE OFFER
- 9. GO TO ORIENTATION

FLLTERS

HIRING DEPENDS ON THE APPROVAL OF ONE.

FARTICIPATION DEPENDS ON A RAPPORT WITH MANY.

SCAFFOLDING

DREYFUS MODEL

- I. NOVICE
- 2. ADVANCED BEGINNER
- 3. COMPETENT
- 4. PROFICIENT
- 5. EXPERT

RADICAL TRANSPARENCY

TEACHES STUDENTS YOU DIDN'T KNOW WERE THERE





ACCIDENTAL LEARNING ZONE OF PROXIMAL DEVELOPMENT LEGITIMATE PERIPHERAL PARTICIPATION

LEARNING TO BIKE

WATCHING SOMEBODY PUSHES YOU RIDING ON THE DRIVEWAY

FAY IT FORWARD

TO PAY FOR A LESSON, DOCUMENT IT.

LEGITIMATE PERIPHERAL PARTICIPATION

1. MISSION-CRITICAL,

3. NOBODY REALLY CARES

LEGITIMATE PERIPHERAL PARTICIPATION

MISSION-CRITICAL,
WE HAVE NO TIME
NOBODY REALLY CARES

"HARD TO CONTRIBUTE" IS A BUG

MISSION-CRITICAL WE HAVE NO TIME NOBODY REALLY CARES

DREYFUS MODEL

- I. NOVICE
- 2. ADVANCED BEGINNER
- 3. COMPETENT
- 4. PROFICIENT
- 5. EXPERT

RULE OF THUMB

EVERYTHING IS HACKABLE.

DREYFUS MODEL

- I. NOVICE
- 2. ADVANCED BEGINNER
- 3. COMPETENT
- 4. PROFICIENT
- 5. EXPERT

ALGORITHM

1. THINK OF SOMETHING YOU ALREADY CARE ABOUT 2. RUN (WHILE THINKING OUT LOUD)

UNIX FHILOSOFHY #12: RULE OF REPAIR

"WHEN YOU MUST FAIL, FAIL NOISILY AND AS SOON AS POSSIBLE."

TRACEBACK

- I. OLDER SIBLING USES LINUX
- 2. DISCOVER THE GIMP
- 3. OFFER TO HELP
- 4. "NO, GO AWAY"

TRACEBACK I. INTRODUCE SELF ON MAILING LIST 2. "I'M IN CHARGE"

TRACEBACK

OFFER TO HELP WAIT FOR INSTRUCTIONS LOOP RUNS FOREVER



HOW ABOUT YOURS?

THANK YOU

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