#### THE INVISIBLE TRACEBACK

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

#### MEL CHUA MEL CREDHAT.COM

#### 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**

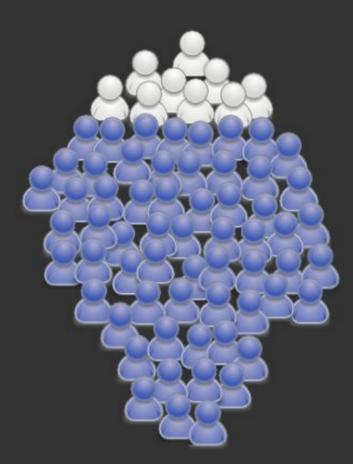
#### MHO AW IS

#### HACKER OF SYSTEMS OF PEOPLE MAKING SYSTEMS FOR PEOPLE

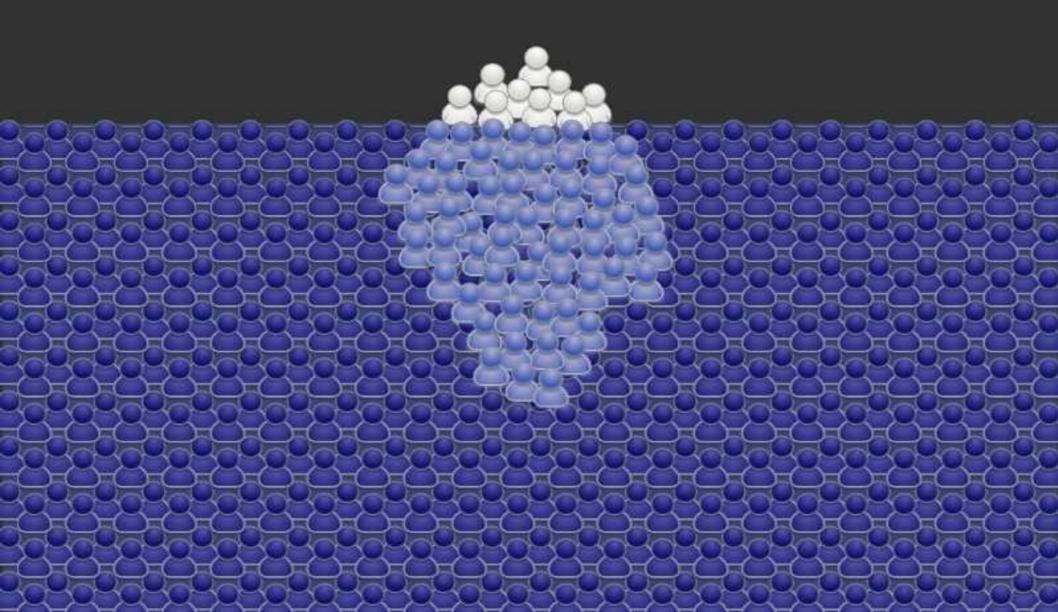
#### WHERE ARE THE PEOPLE?







#### 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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