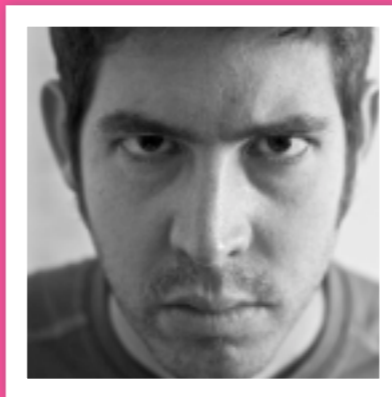




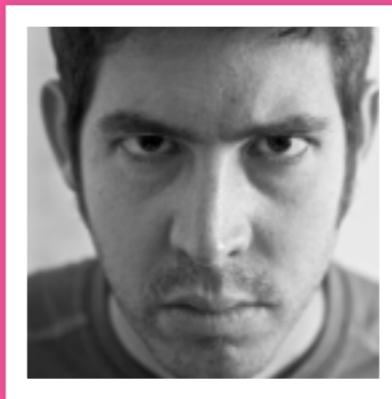
HOW
GITHUB
WORKS

THE
STORY
BEGINS
WITH

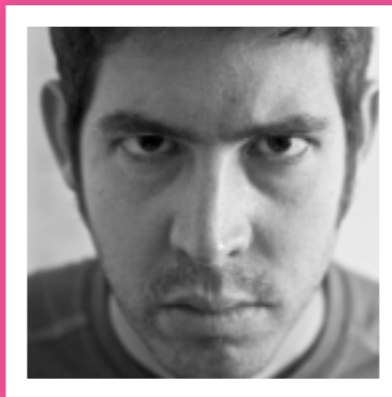
4 FOUNDERS IN A COFFEE SHOP



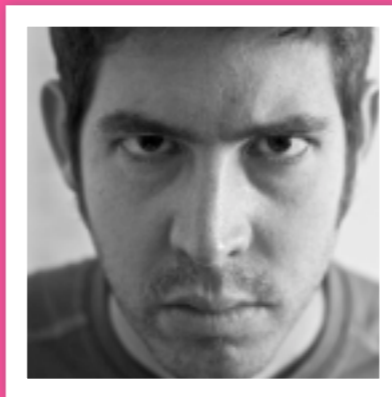
4 FOUNDERS IN A BAR



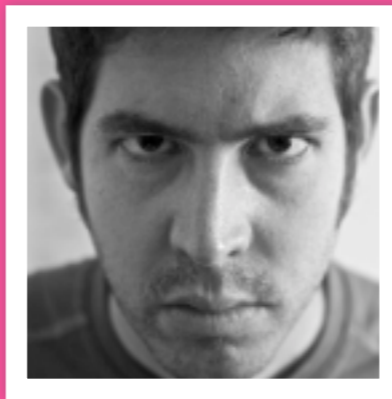
4 FOUNDERS IN A RESTAURANT



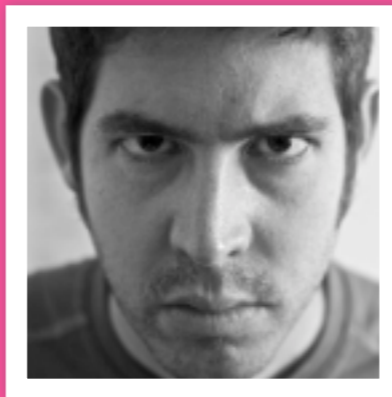
4 FOUNDERS IN A PLANE

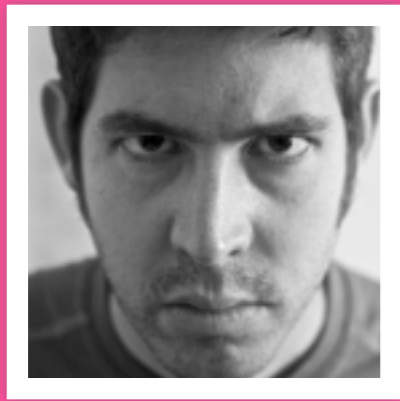


4 FOUNDERS IN A JAIL CELL

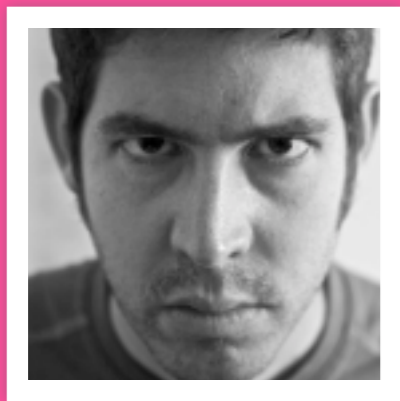


4 FOUNDERS IN A SOMEWHERE





NO OFFICE



HAD OTHER JOBS



THIS WAS THE START OF **github**

GITHUB WAS FORCED TO BE

DISTRIBUTED

FLEXIBLE

HAPPY

**TURNS OUT,
GREAT WAY TO WORK**

THIS TALK

IS KIND OF ABOUT

GITHUB

BUT IT'S REALLY ABOUT
IMPROVING YOUR COMPANY

@HOLMAN





github
SOCIAL CODING





HOW **GITHUB**
WORKS

[ZACHHOLMAN.COM/POSTS/HOW-GITHUB-WORKS](https://zachholman.com/posts/how-github-works)



..... HOURS ARE
BULLSHIT

WORKIN'

NINE TO FIVE

WHAT A WAY TO MAKE A LIVIN'

(DOLLY PARTON WAS BASICALLY A PROGRAMMER)

**FOR MANY PROGRAMMERS,
9-5 DAYS DON'T WORK.**

**CRAFTING CODE IS A HUGELY
CREATIVE ENDEAVOR.**

**YOU CAN'T FORCE
CREATIVITY TO HAPPEN
BETWEEN 9 AND 5.**

THE BEST SOLUTIONS HAPPEN WHEN
YOU'RE
IN THE ZONE

OUR OFFICE

EARLY BIRDS
NIGHT OWLS
NINE-TO-FIVERS
INTERNATIONAL EMPLOYEES
TRAVELING EMPLOYEES

EMBRACE FLEXIBILITY



WORKING LONG HOURS
ISN'T A **BADGE OF HONOR**

...IT'S A **BADGE**
OF FOOLISHNESS

ALL-NIGHTERS ARE A RECIPE FOR
REDOING EVERYTHING AGAIN LATER

MARATHON CODE SESSIONS

DRAIN YOU MENTALLY
LEAD TO POOR CODE QUALITY
IMPACT FUTURE CODE

WE WANT TO GET

THE BEST WORK

FROM OUR EMPLOYEES

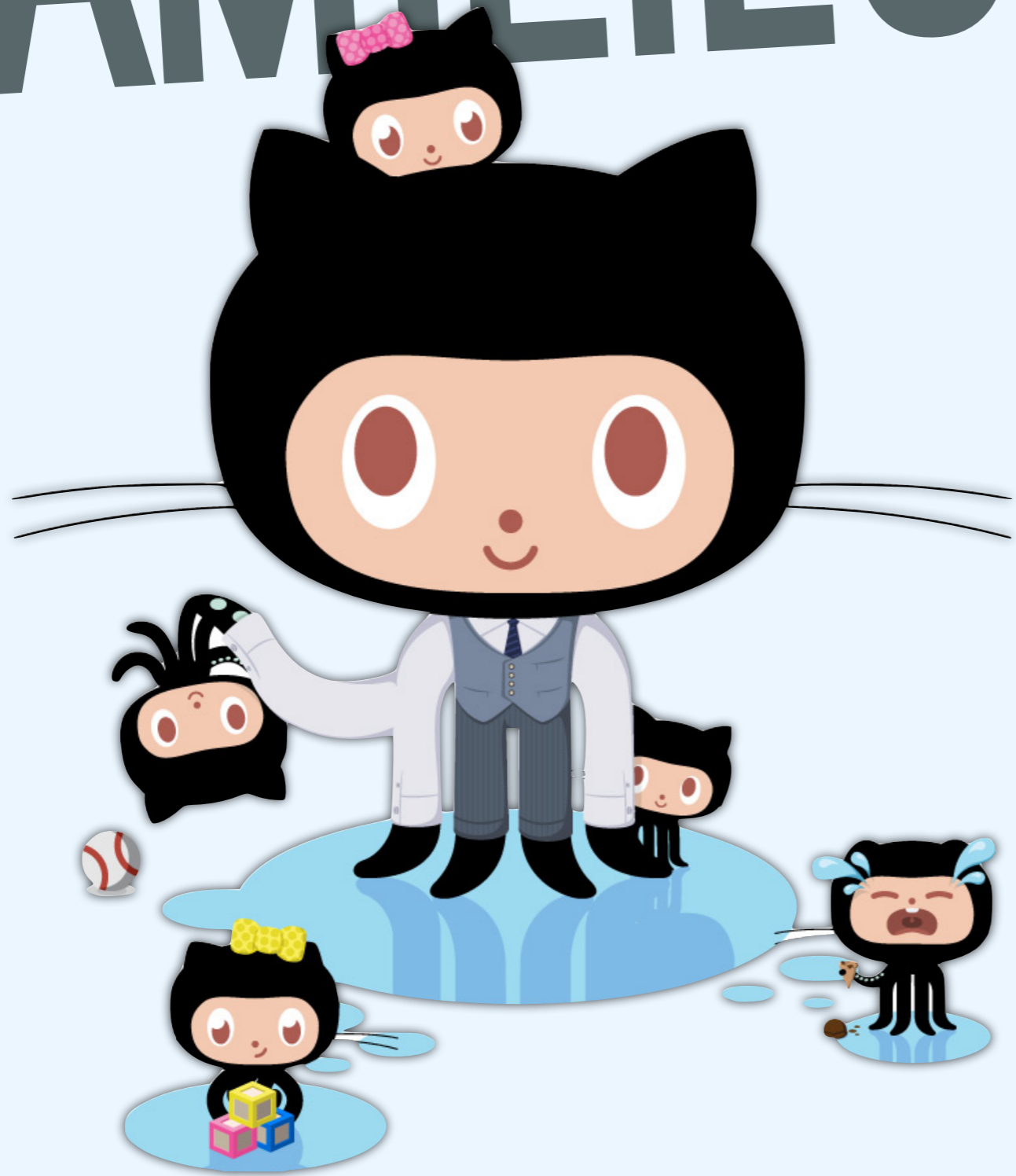
THAT HAPPENS WHEN THEY ARE

HAPPY, FRESH, AND CREATIVE

I'VE BEEN TOLD:

STARTUPS ARE
ONLY FOR SINGLE
20-SOMETHINGS

FAMILIES





GITHUB.....
FAMILY

**BEING LESS HOUR-CENTRIC =
MORE FAMILY-FRIENDLY**

HAPPY FAMILIES,
HAPPY COWORKERS

HAPPY COWORKERS,
PRODUCTIVE COMPANIES

TRUST
YOUR EMPLOYEES

YOU HIRED THEM, AFTER ALL

**TRUST, BUT
VERIFY**



**YOUR
REAGANISM
FOR TODAY**

TRUST EMPLOYEES,
HELP THEM OUT,
THEN **VERIFY** THEY'RE DOING THE WORK.

THIS REQUIRES COMMUNICATION

ARE THEY COMMITTING?

ARE THEY PARTICIPATING?

WHAT'S THEIR CODE LOOK LIKE?

HOURS ARE BULLSHIT

WORRY ABOUT GOOD WORK



BE

ASYNCHRONOUS

ASYNCHRONOUS

A DISTRIBUTED WAY OF GETTING THINGS DONE



GEOGRAPHICALLY-DISTRIBUTED



ATTENTION-AWARE



TEAM-ORIENTED



MINIMAL PROCESS



★ SAN FRANCISCO

GITHUBHQ



Turns out,
the world is larger than
just **San Francisco.**



WE WANT TO HIRE THE BEST

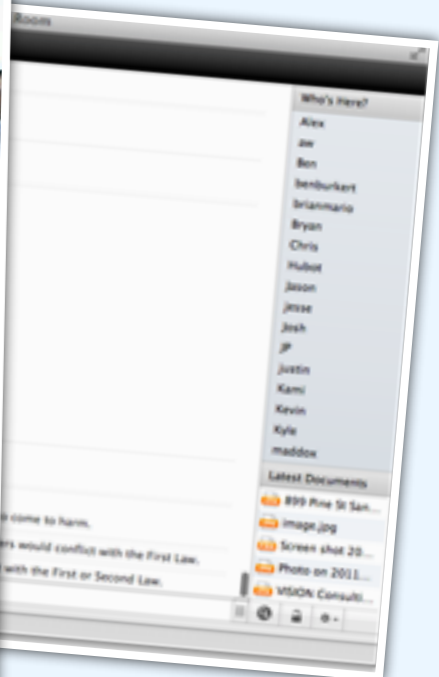


DISTRIBUTED WORK
NEEDS TO BE A PRIORITY FOR US



FLEXIBLE HOURS
HELP WITH **FLEXIBLE LOCATION** 

LIMIT REQUIRED IN-PERSON CONTACT



CHAT

BEER:30



FACETIME

RECORDED TALKS

SUMMIT 2010



SUMMIT 2011



GITHUB SUMMIT 2012



GET PEOPLE
MEETING IN
REAL-LIFE!

ENCOURAGE
STRUCTURED TEAM BUILDING



GEOGRAPHICALLY-DISTRIBUTED



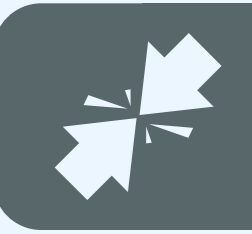
ATTENTION-AWARE



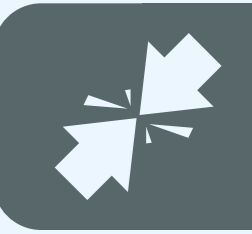
TEAM-ORIENTED



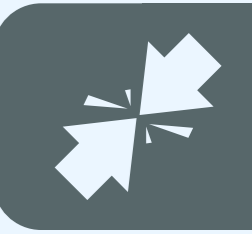
MINIMAL PROCESS



WE WANT DEVELOPERS
IN THE ZONE™

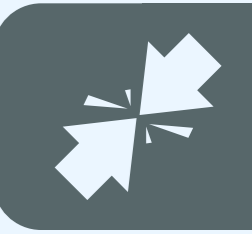


MINIMIZE DISTRACTIONS
THE ZONE IS DIFFICULT TO RE-ENTER

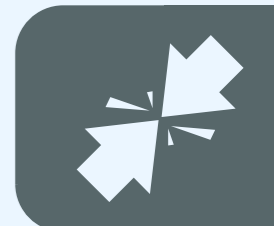


NO TECHNICAL MEETINGS

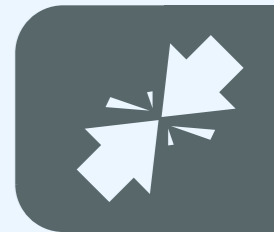
NO STANDUP, DAILY, OR PLANNING MEETINGS



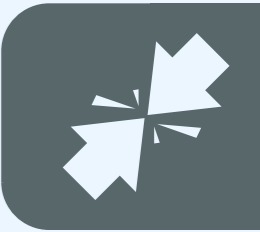
NO IN-PERSON DISTRACTIONS
INSTEAD, PING OVER CHAT



NO MANAGERS
THEY JUST DISTRACT



WE CAN WORK THIS WAY BECAUSE:



**PRODUCT
COMPANY**

DOGFOOD

**FULL
OWNERSHIP**

PROFITABLE

github



EACH COMPANY IS DIFFERENT
FIND OUT WHAT WORKS BEST FOR YOURS



GEOGRAPHICALLY-DISTRIBUTED



ATTENTION-AWARE



TEAM-ORIENTED



MINIMAL PROCESS



github

TEAMS

github:mac

github:help

github:shop

github:enterprise

github:gist

github:[redacted]

github:[redacted]

github:pages



SMALL TEAMS LET YOU MOVE
QUICKLY & INDEPENDENTLY



30 ≠ ROOMS:

THE DANGER ROOM
THE SERIOUS ROOM
THE ENTERPRISE ROOM
THE DESIGN ROOM
THE SUPPORT ROOM
THE INTERNAL ROOM
THE NATIVE ROOM
THE (REDACTED) ROOM
THE MOBILE ROOM
THE OPS ROOM
THE NOTICES ROOM
THE (REDACTED) RO



SMALL TEAMS LET YOU
FOCUS



GEOGRAPHICALLY-DISTRIBUTED



ATTENTION-AWARE



TEAM-ORIENTED

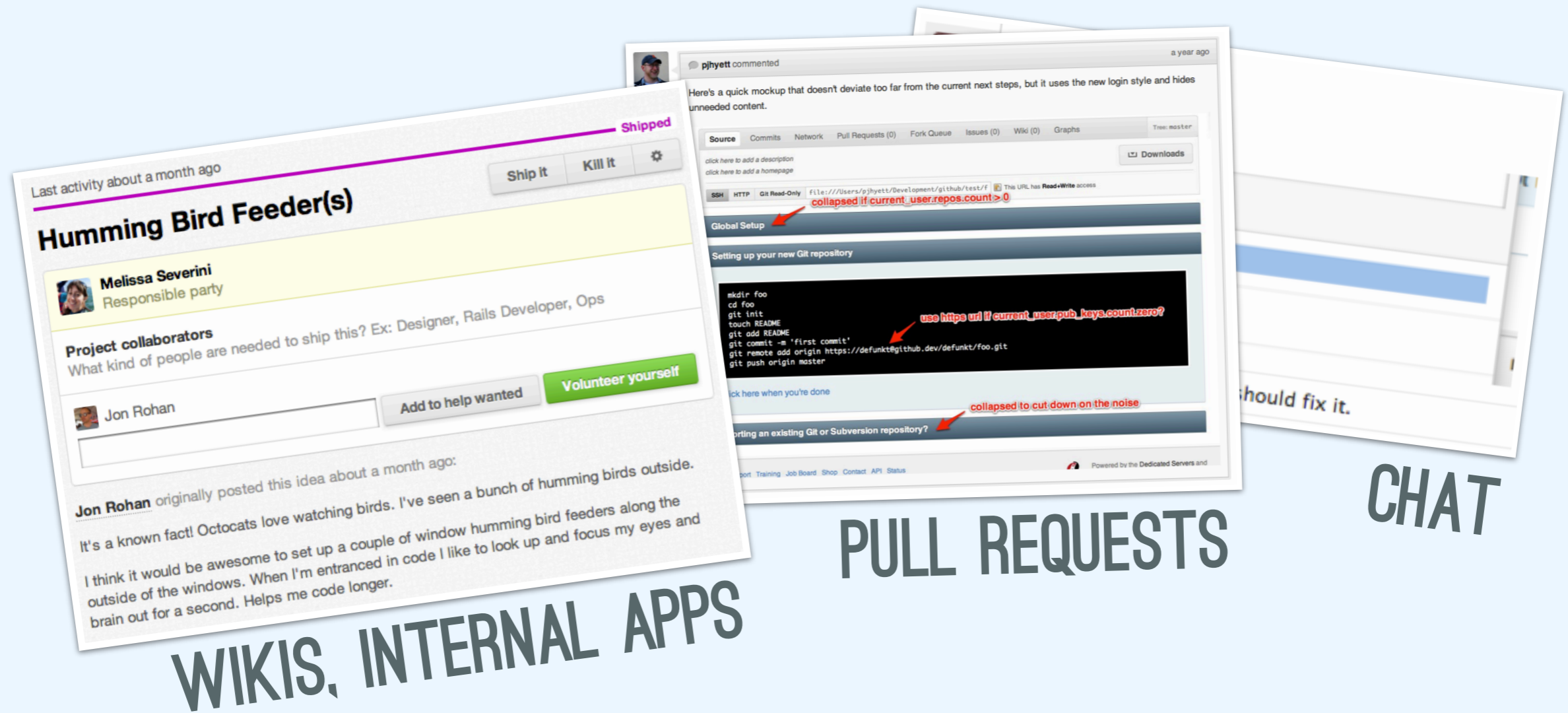


MINIMAL PROCESS

HOW DO WE ACTUALLY DO ALL THIS?

PLAN - BUILD - SHIP

SHOW IT AS SOON AS POSSIBLE



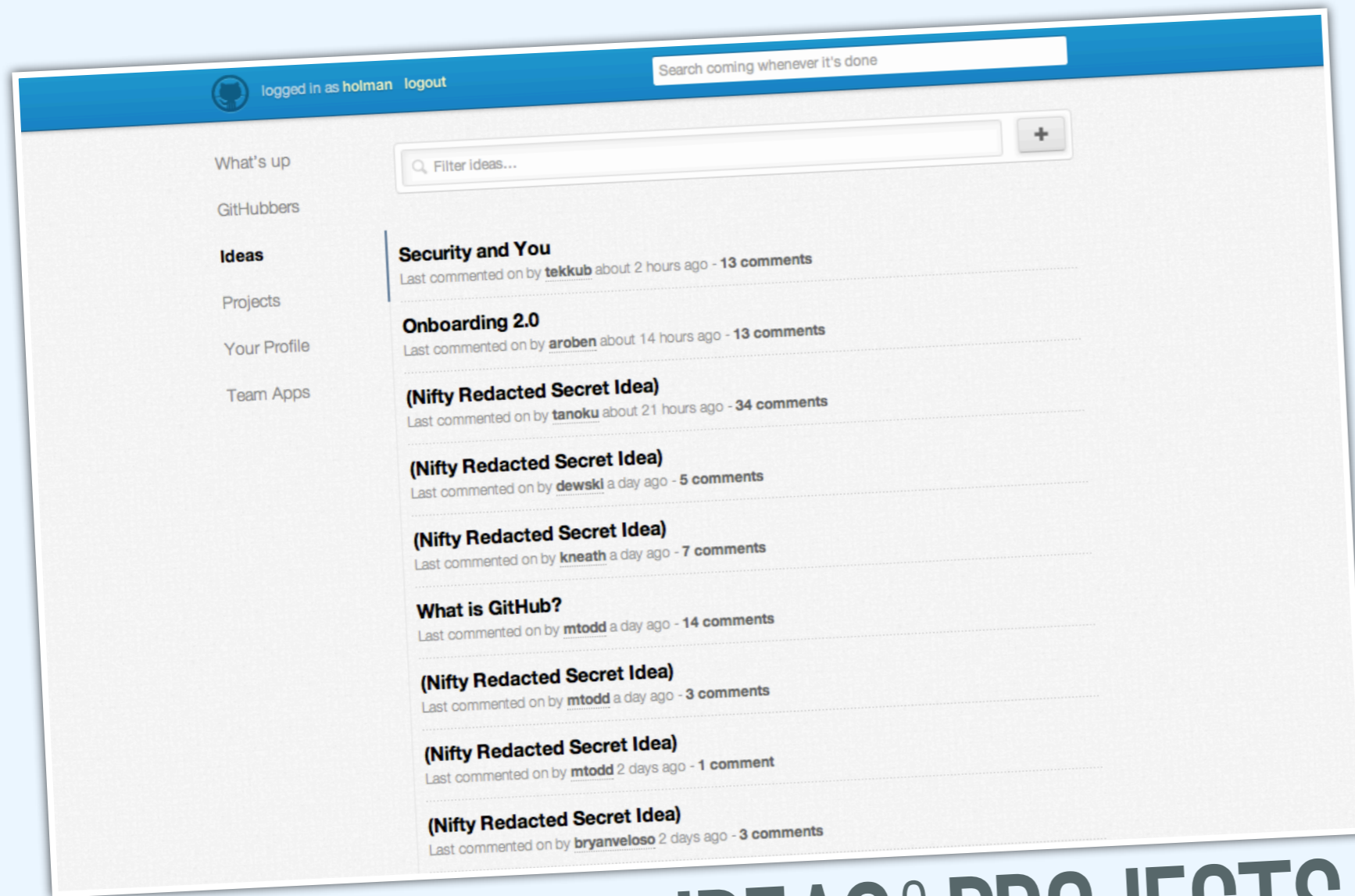
PULL REQUESTS

CHAT

WIKIS, INTERNAL APPS

MAKE IT OKAY TO SAY "NO"

PLAN



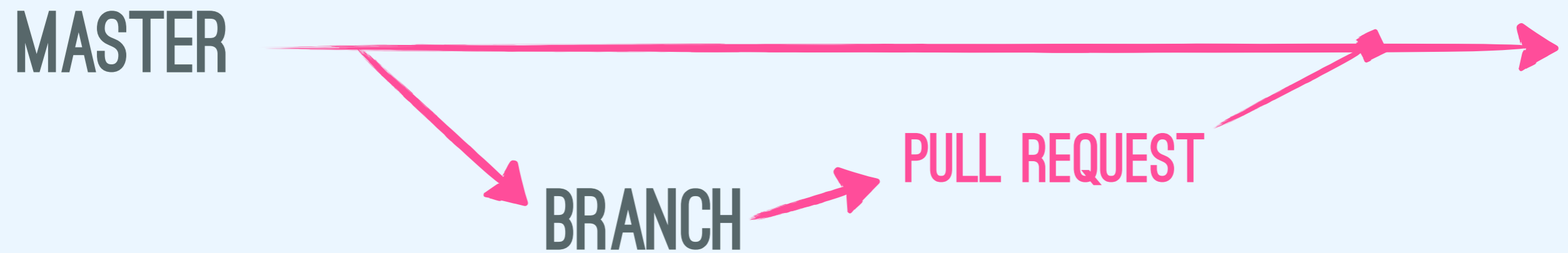
EVERYONE CONTRIBUTES

SEE STATUS UPDATES

AVOID ABANDONMENT

IDEAS&PROJECTS

SIMPLE BRANCHING



SIMPLE BRANCHING

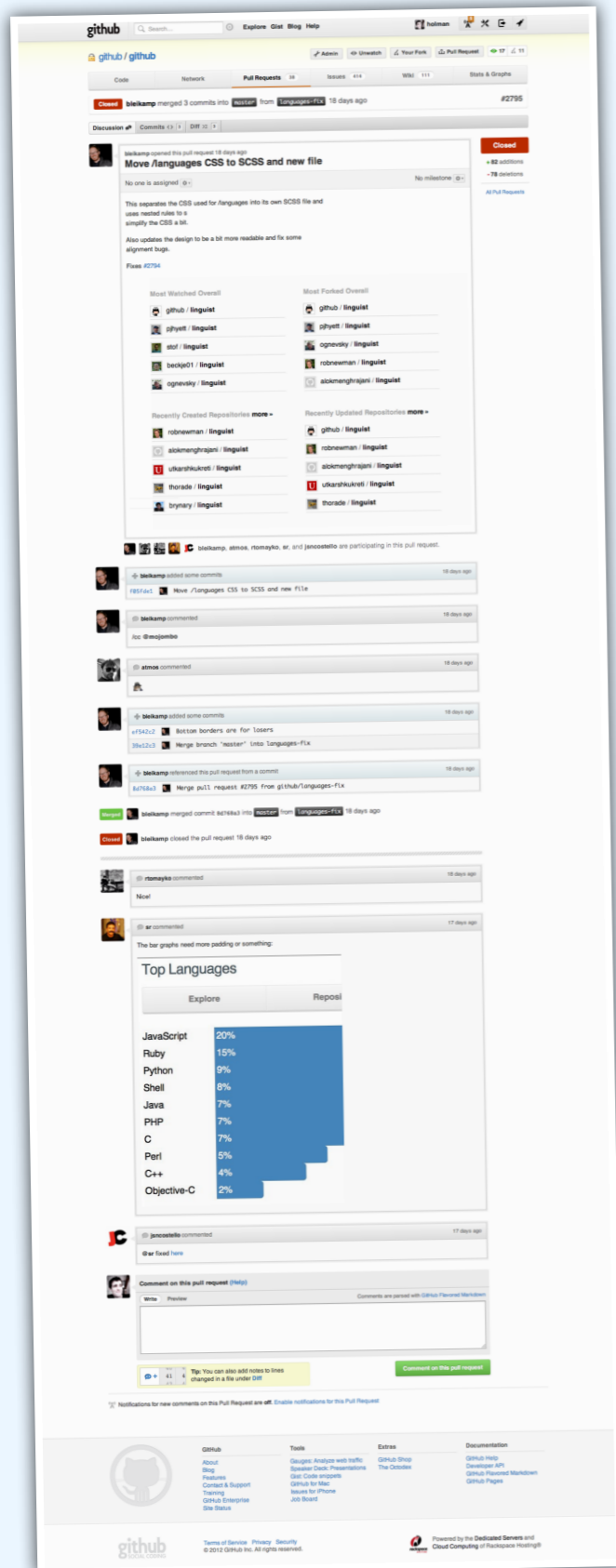
DESIGNER FRIENDLY
("NON-TECHNICAL")

SIMPLE BRANCHING

SIMPLE ROLLBACK

PARTIAL DEPLOYS

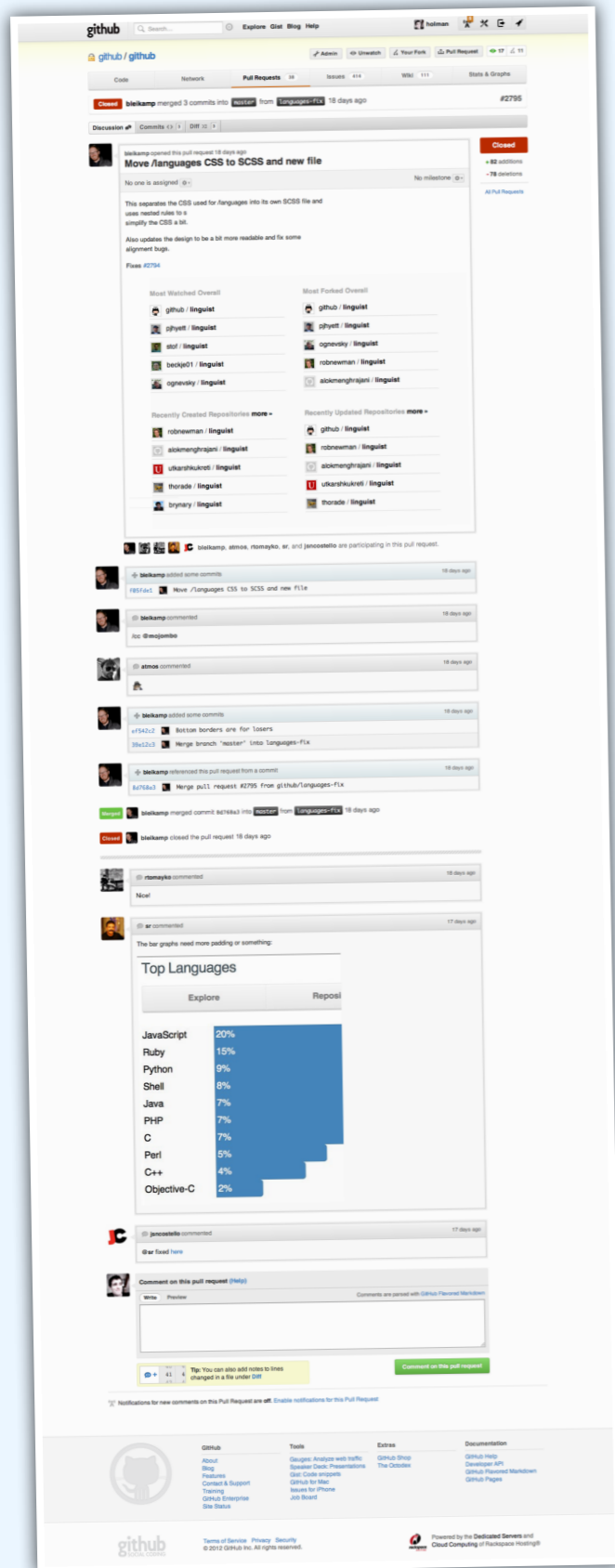
- STAFF-ONLY
- SPECIFIC SERVERS
- SPECIFIC PROCESSES



PULL REQUESTS ARE
DISCUSSIONS
 THAT IMPROVE
CODE QUALITY

BUILD

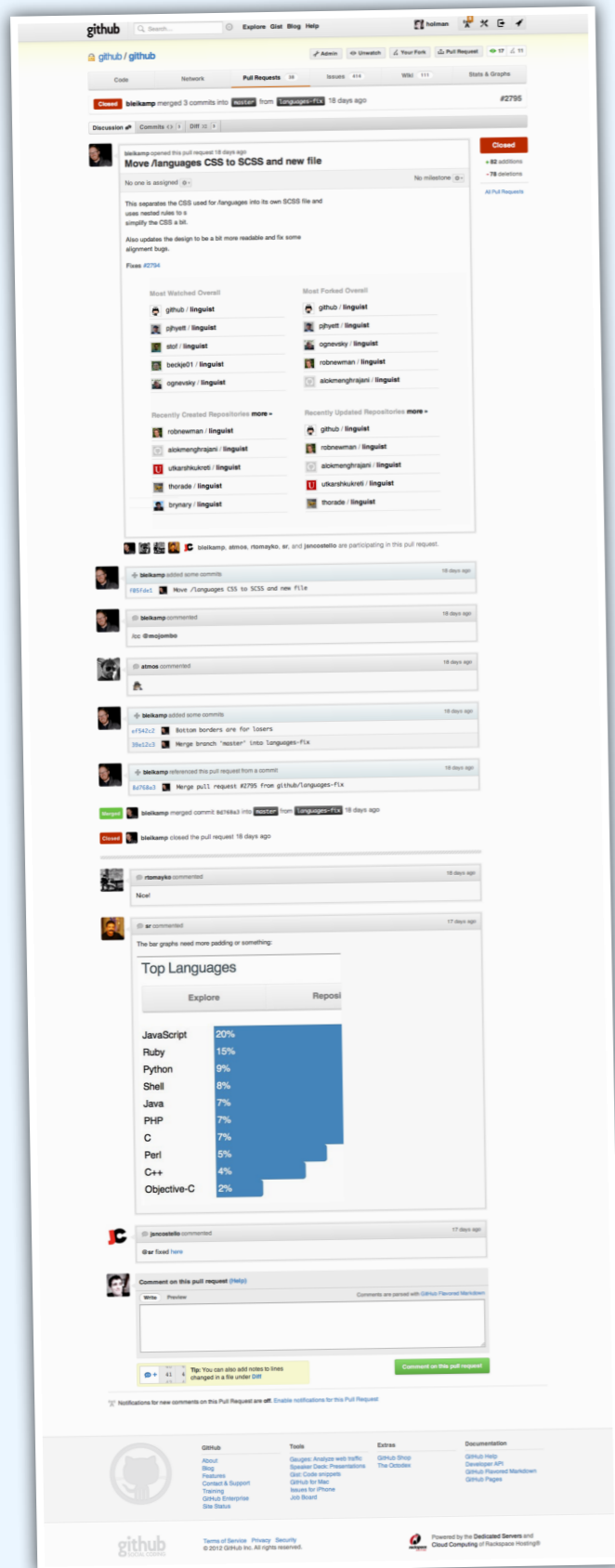
31



PUSH BRANCH
GET FEEDBACK
MAKE IMPROVEMENTS
MERGE BRANCH

BUILD

31



ASYNCHRONOUS, NON-INVASIVE
EXTREMELY VISIBLE FOR YOUR ORG
ONE-CLICK MERGE BUTTON
REPLACES TRADITIONAL CODE REVIEW



SUPER**FAST**TESTS



8000 ASSERTIONS IN
250 SECONDS



A SLOW TEST IS
A REGRESSION

SHIP



GRAPH EVERYTHING



SHIP



GRAPH EVERYTHING

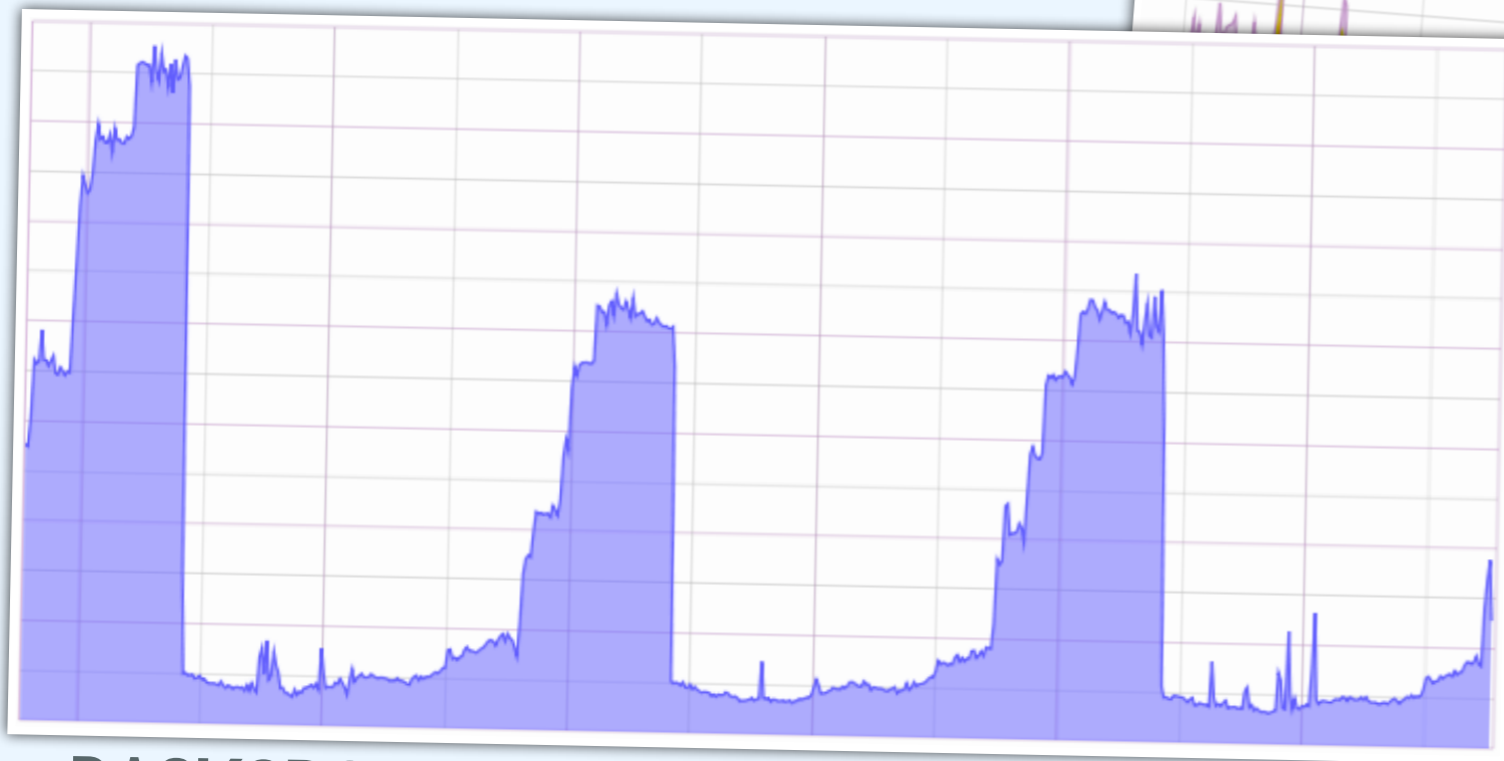
COLLECTING METRICS GIVES
YOU A **DIFFERENT PERSPECTIVE**
ON PERFORMANCE

SHIP

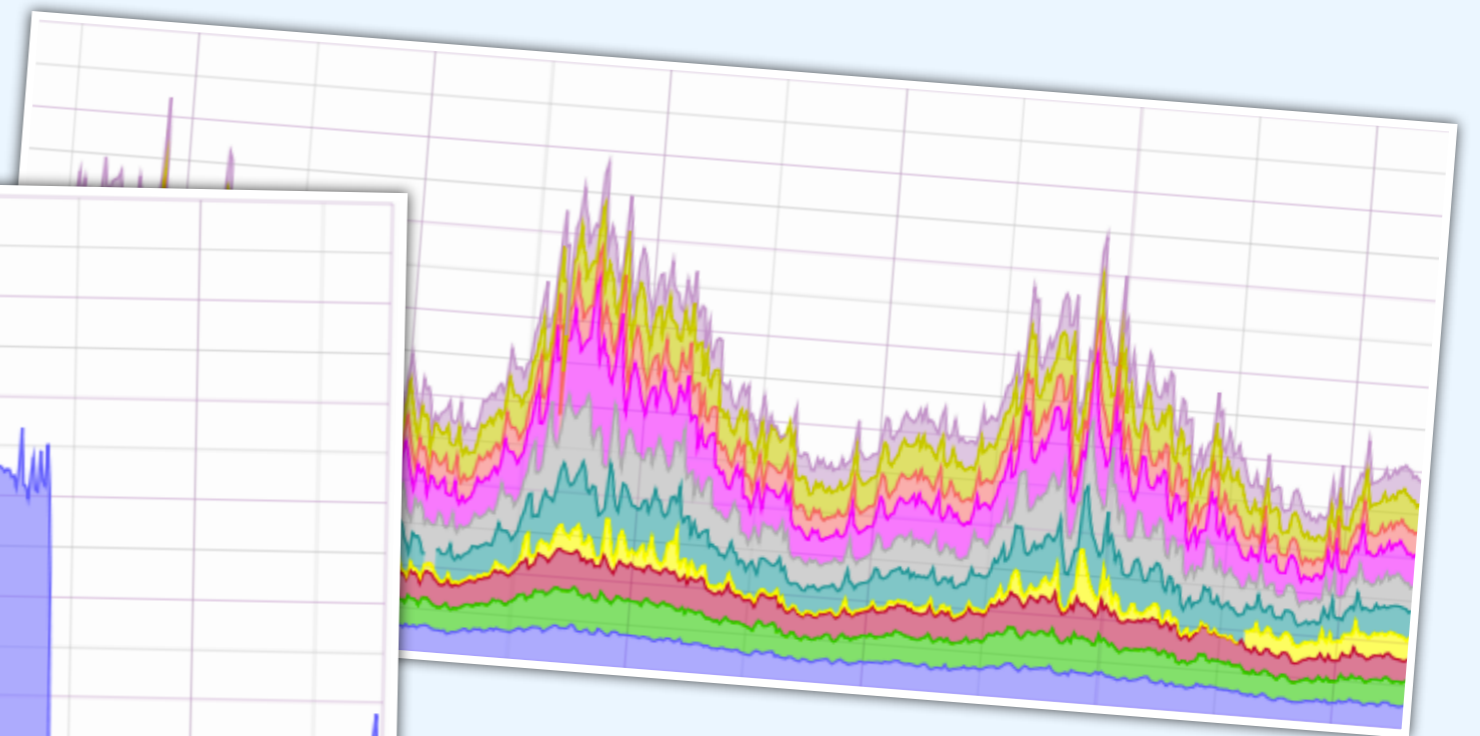
31



GRAPH EVERYTHING



BACKGROUND JOBS/MINUTE, LAST 3 DAYS



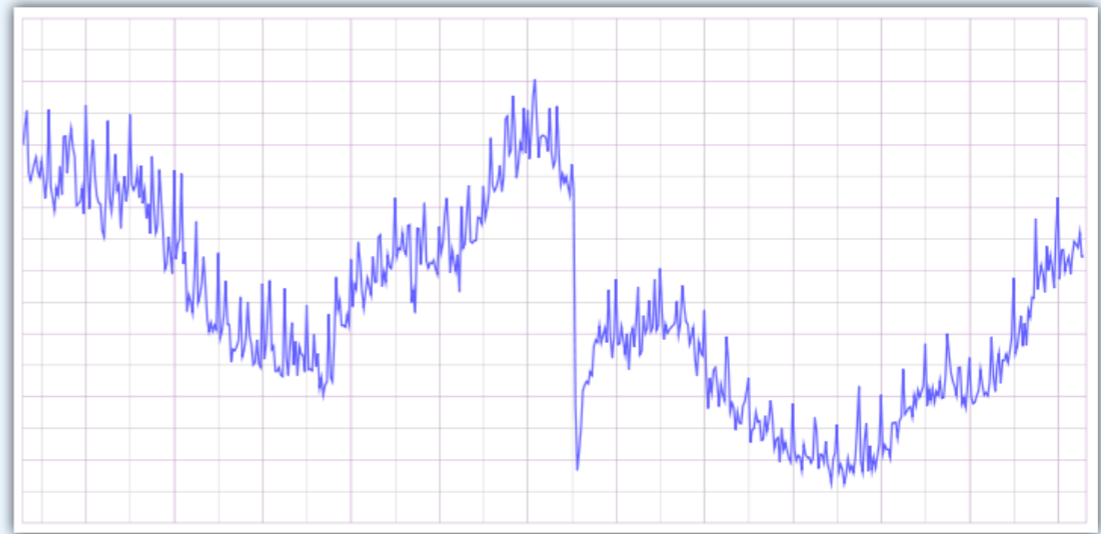
CPU LOAD

SHIP

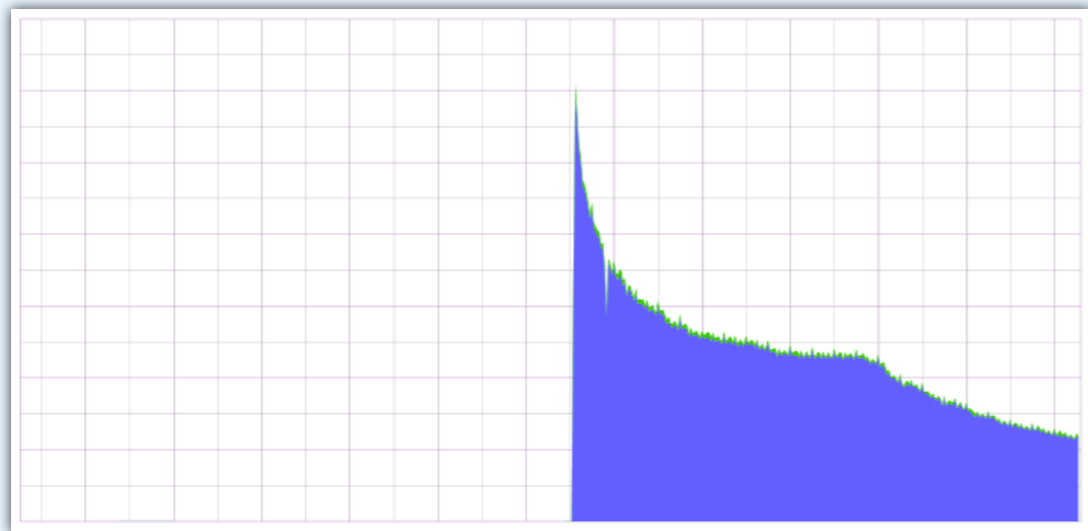
31



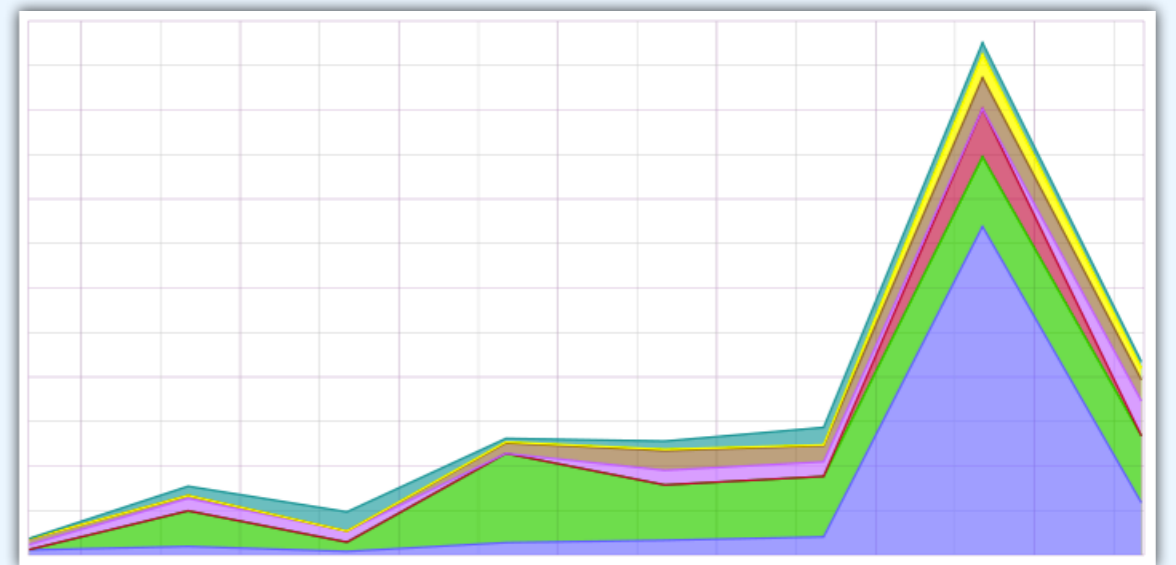
GRAPH EVERYTHING (DURING MARCH 7 PUBLIC KEY RESET)



SUCCESSFUL SSH PUSHES



REJECTED SSH CONNECTIONS



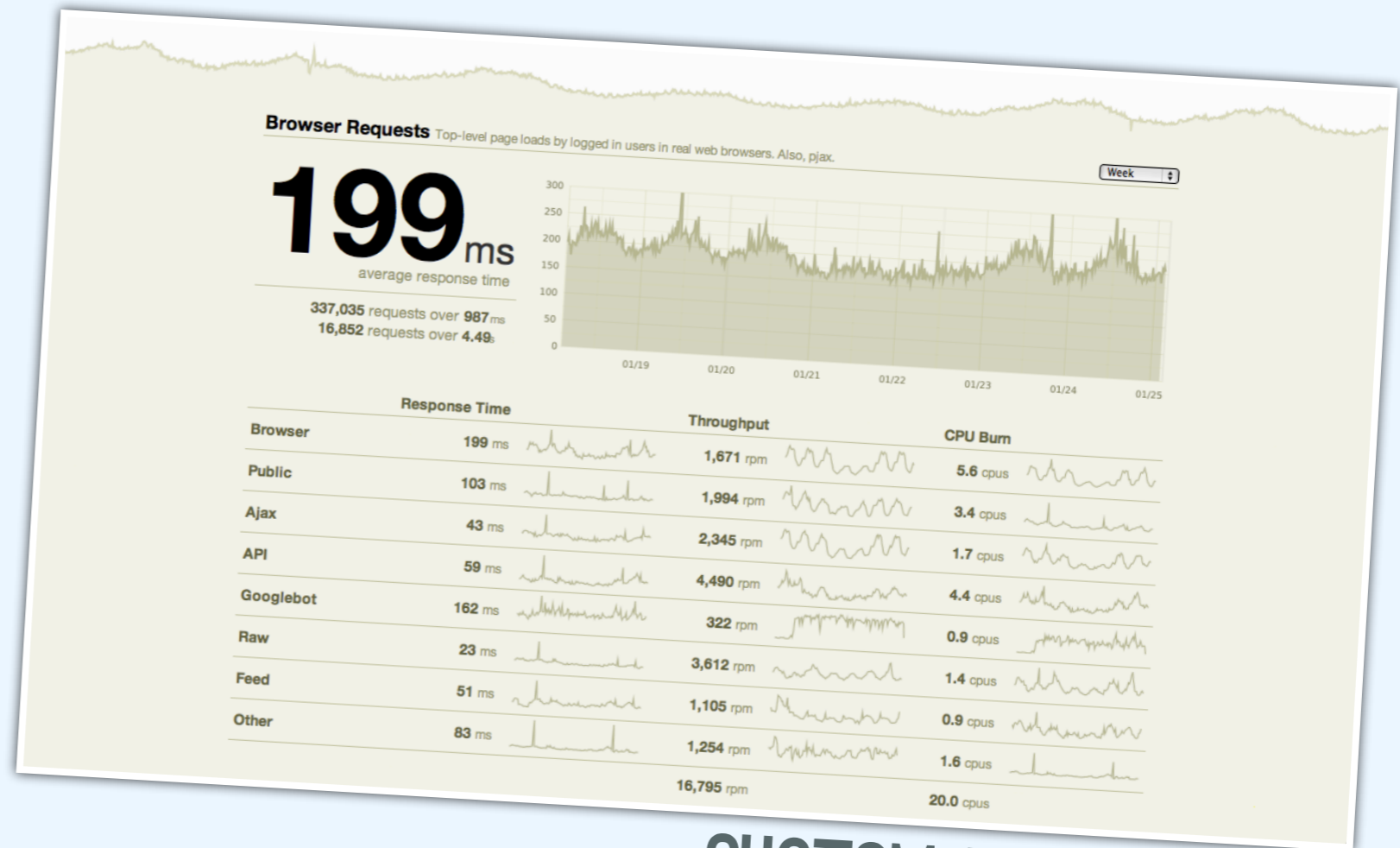
SUPPORT REQUESTS



SHIP



GRAPH EVERYTHING

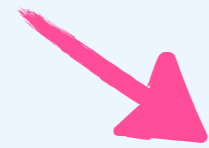


CUSTOM DASHBOARDS

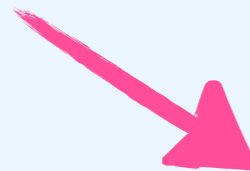
SHIP



DEPLOY



CHECK EXCEPTIONS



CHECK PERFORMANCE



MERGE INTO MASTER
(IF APPLICABLE)



CELEBRATE!

YOU DON'T NEED DISTRACTIONS

**YOU DON'T NEED TO BE
IN THE SAME COUNTRY**

**YOU REALLY DON'T
NEED A LOT OF
PROCESS**



OPTIMIZE FOR
HAPPINESS

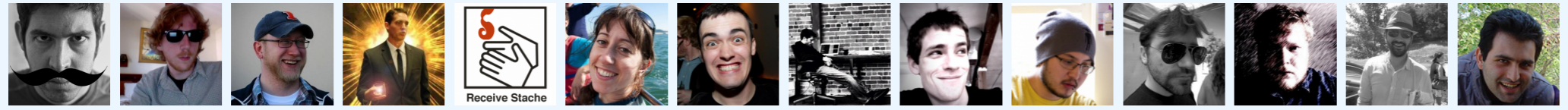
2008



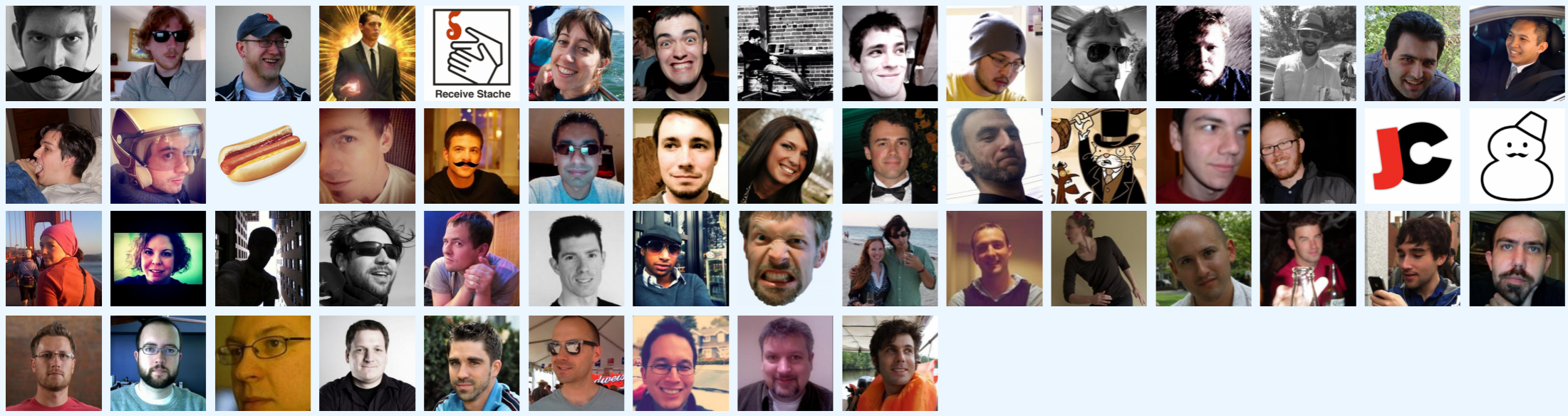
2009



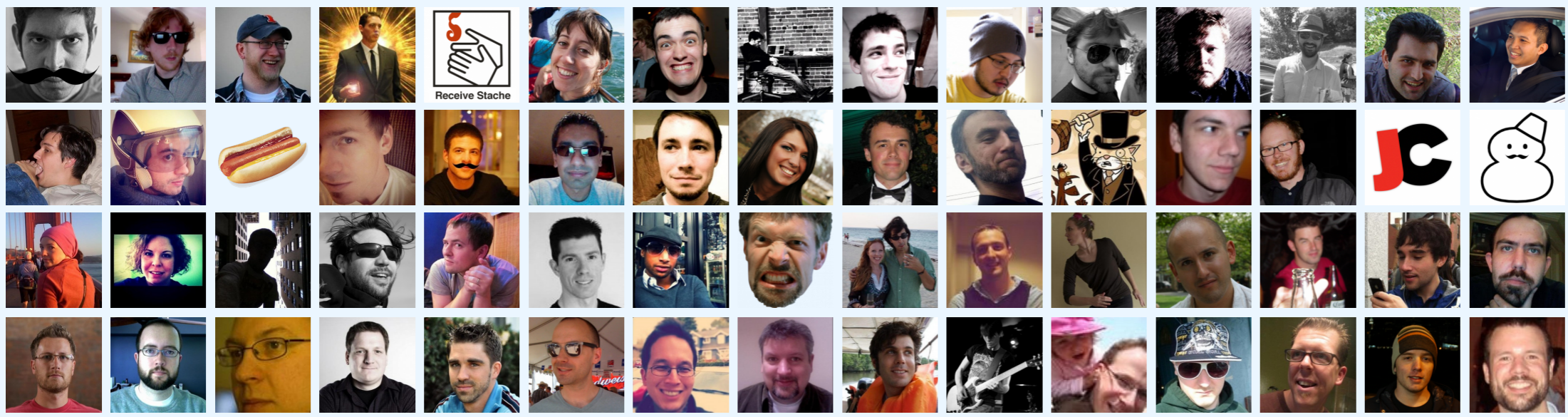
2010



2011



MARCH 2012



githup

EMPLOYEES

60

EMPLOYEES WHO HAVE LEFT

0

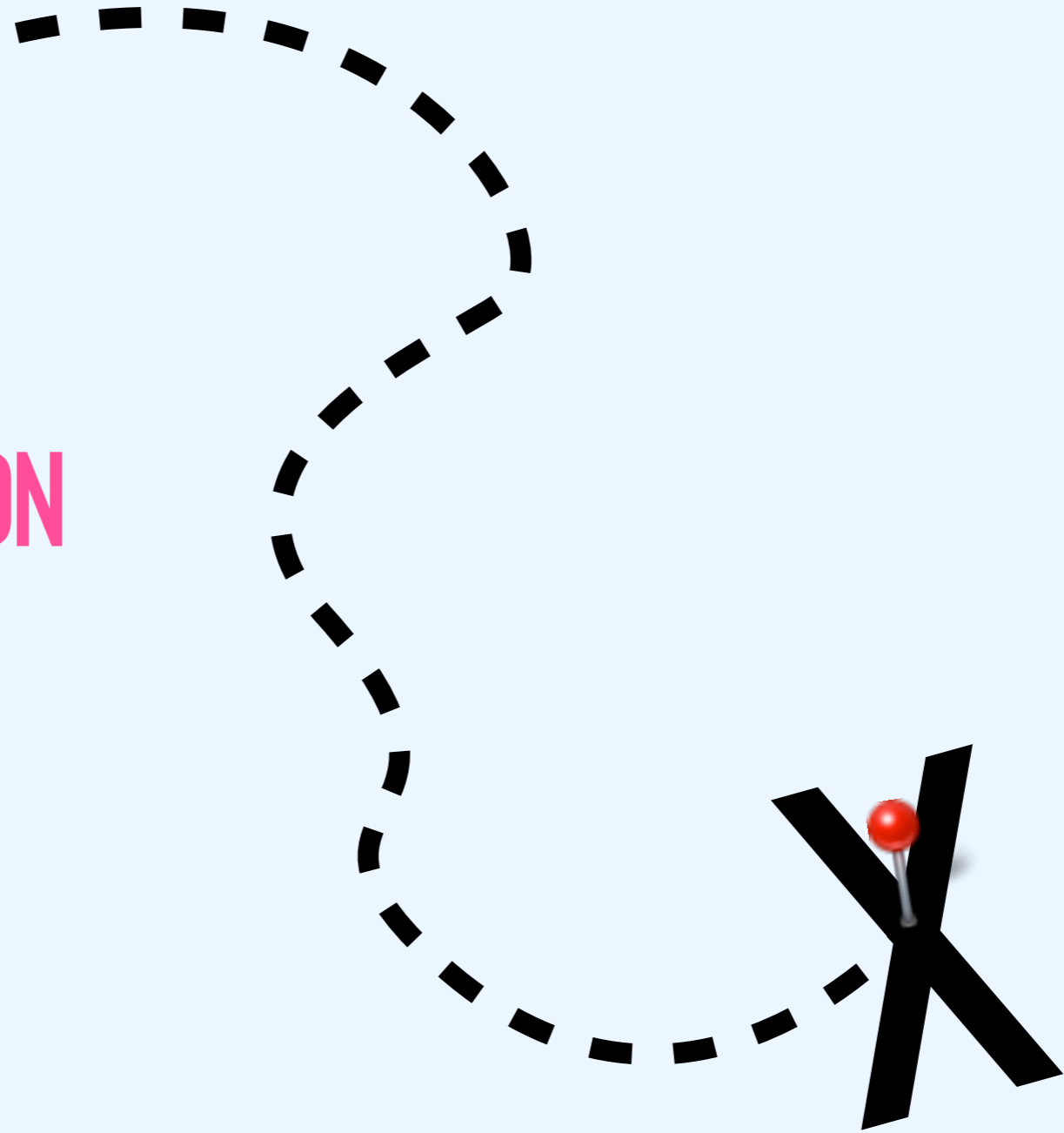
github

THIS REQUIRES

A HAPPINESS-ORIENTED WORKPLACE

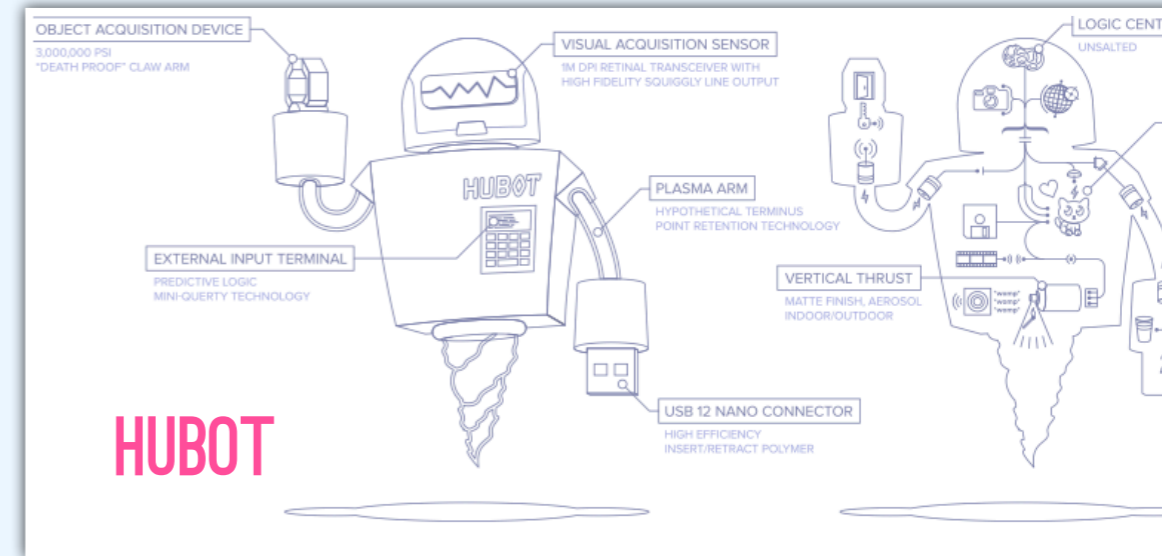
github

FOSTER EXPLORATION



FOSTER EXPLORATION

SHARED SIDE PROJECTS



halp Search

Triage (1) Waiting (2) Neglected (84) Reminders (1)

INTERNAL APPS



FOSTER EXPLORATION
LEARNING

KINDLES&EBOOKS
ARDUINO LESSONS
SPANISH TUTORING

FOSTER EXPLORATION

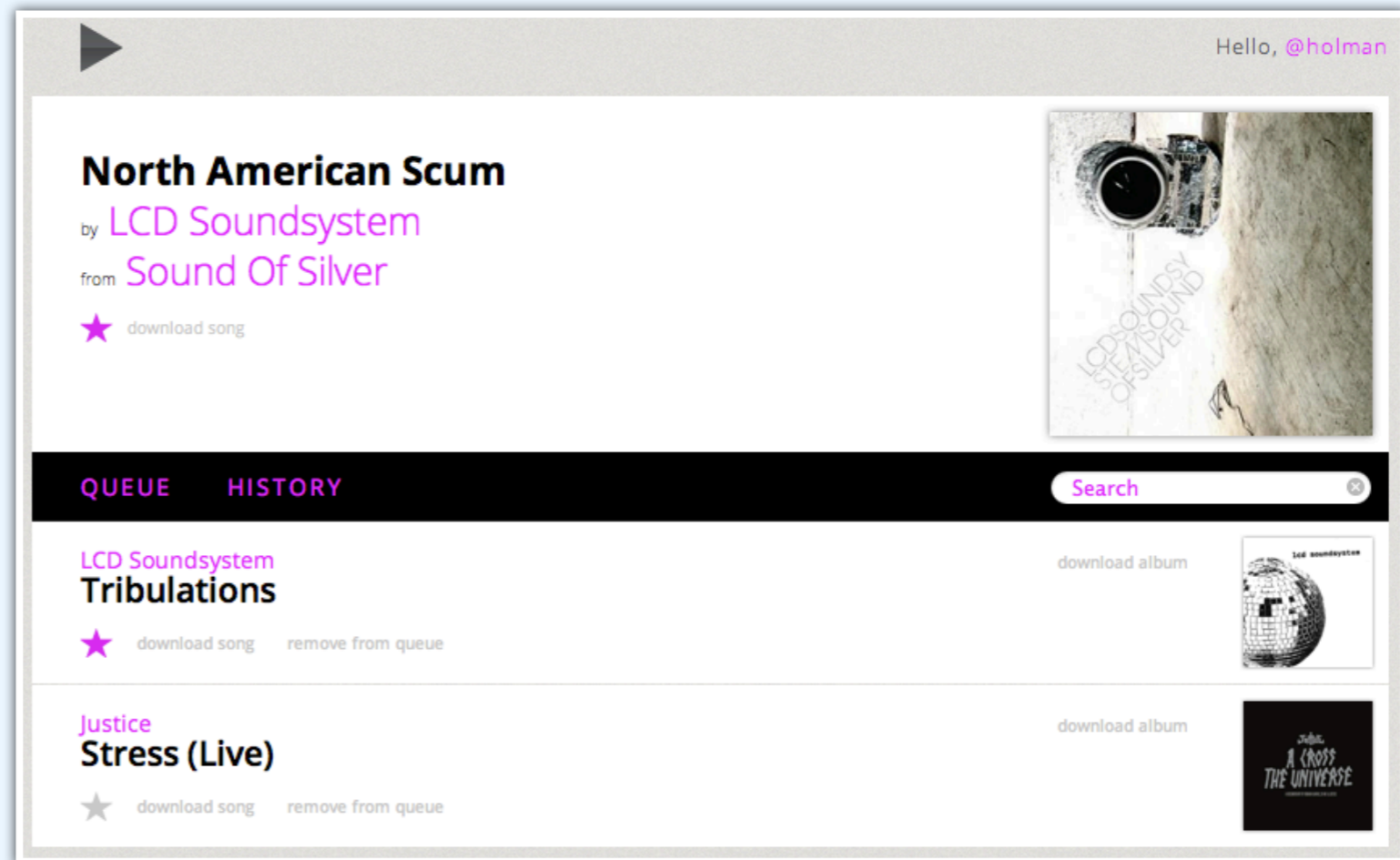
**AVOID BURNOUT BY
ENCOURAGING NEW THINGS**

ENCOURAGE NETWORKING

CONFERENCES, MEETUPS
MEET PEOPLE
HIRING • LEARNING • MARKETING


HOLMAN/PLAY

MUSIC 




Navigation: Home icon, Hello, @holman

North American Scum
by LCD Soundsystem
from Sound Of Silver
★ download song




QUEUE HISTORY Search

LCD Soundsystem
Tribulations
★ download song remove from queue



Justice
Stress (Live)
★ download song remove from queue



SPEAKERS - LIVESTREAM - SHARED CULTURE

BRING EVERYONE TOGETHER ON

FRESH & NEW

AS OFTEN AS POSSIBLE



BE
FLEXIBLE



BUILD A COMPANY
YOU WANT TO WORK FOR



PUSH FOR
HAPPINESS



THANKS.



ZACHHOLMAN

ZACHHOLMAN.COM/TALKS @HOLMAN