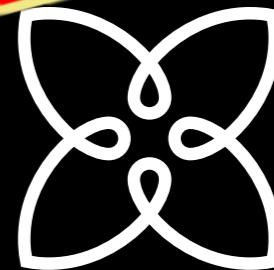


\*IN THE STYLE OF XKCD

TIPS FOR  
**LIBRARY DEVELOPMENT**  
FROM A STARTUP DEV



LISA WRAY  
@LISAWRAYZ

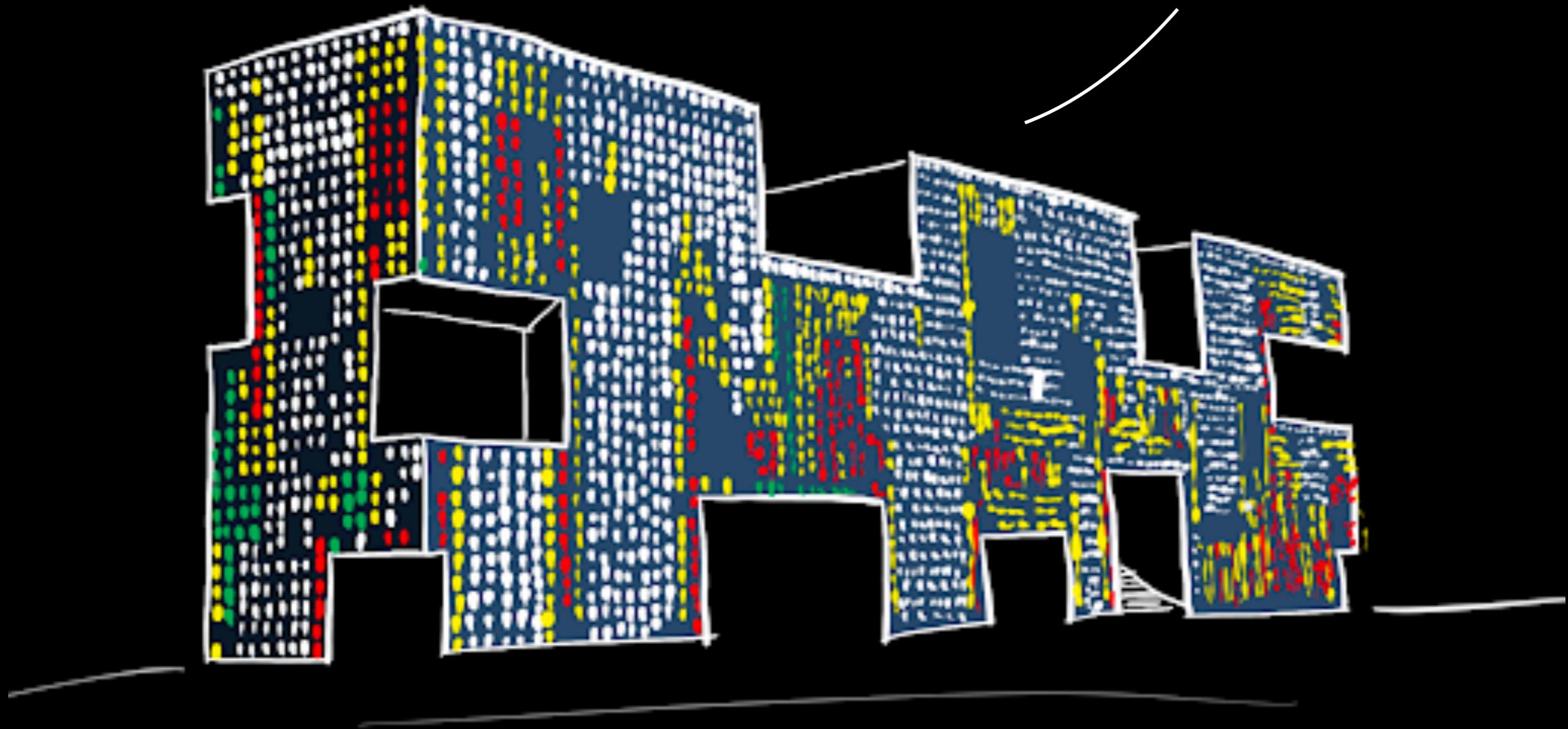


PRESENT



~~4-YEAR~~ B.S., COURSE 6 & 2IM  
8-YEAR

RESISTANCE  
IS FUTILE

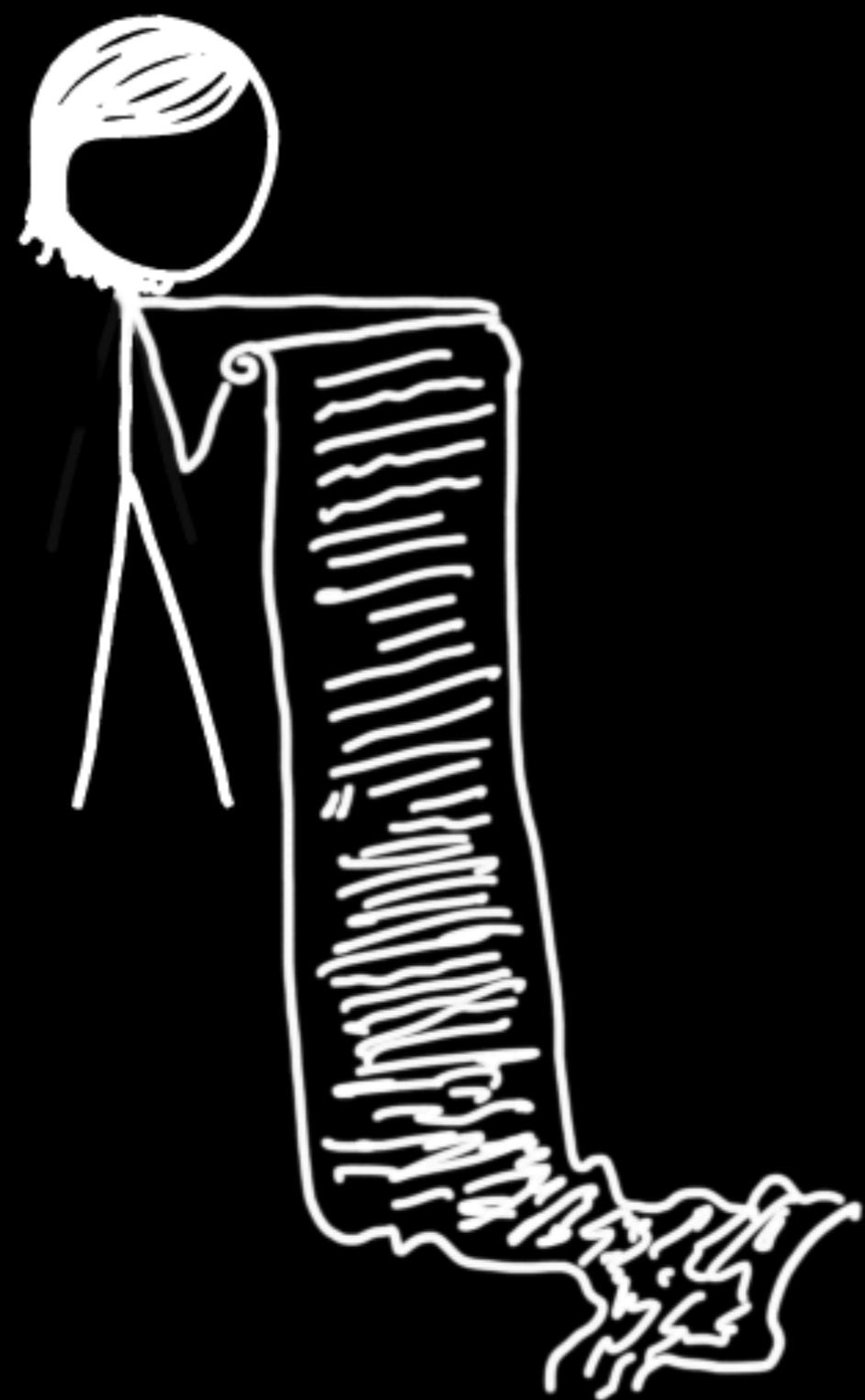


SIMMONS HALL

# GRADLE FILE, DAY 1

```
DEPENDENCIES {  
    IMPLEMENTATION APPCOMPAT-V7  
    IMPLEMENTATION CONSTRAINT-LAYOUT  
    TESTIMPLEMENTATION JUNIT  
    ANDROIDTESTIMPLEMENTATION ESPRESSO-CORE  
}
```

# GRADLE FILE, DAY 7





WHY DO THIS THING



WHY DO THIS THING,  
FOR FREE



WHY DO THIS THING,  
FOR FREE,  
ON THE INTERNET?!



SELF-INTEREST



A Venn diagram consisting of two overlapping circles. The left circle is white with the text "COMMUNITY INTEREST". The right circle is dark gray with the text "SELF-INTEREST". The intersection of the two circles is empty.

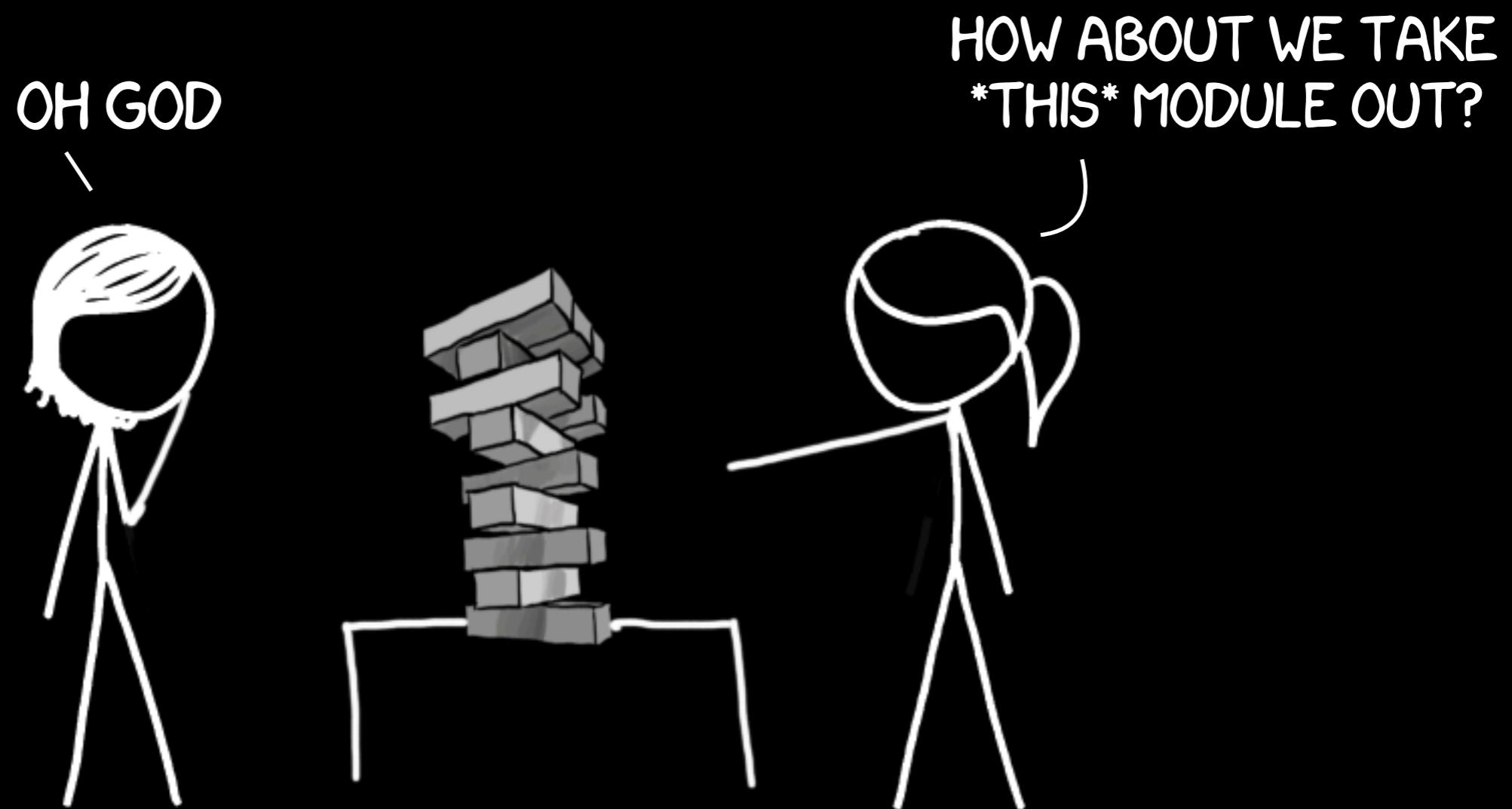
COMMUNITY  
INTEREST

SELF-INTEREST

HOW CAN A LIBRARY  
BENEFIT ME?

# MODULARITY

APP JENGA



# COMMUNITY HELP

AKA “OTHER PEOPLE WRITE YOUR CODE FOR FREE”

# APOLLO GRAPHQL FOR ANDROID



IVAN  
(SAV007)



MIKE  
(FRIENDLYMIKE)



BRIAN  
(BRIANPLUMMER)

... AND MANY MORE!!



SHOPIFY



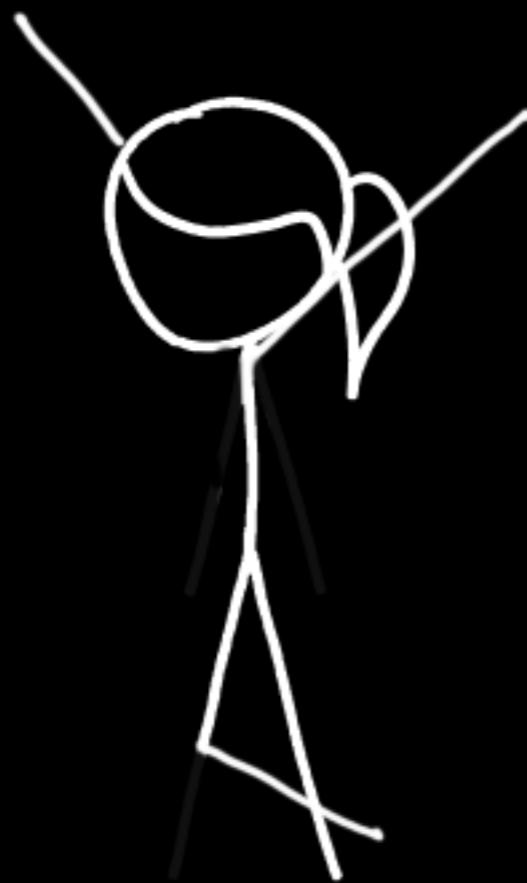
AIRBNB



NEW YORK  
TIMES

# BARE NECESSITY

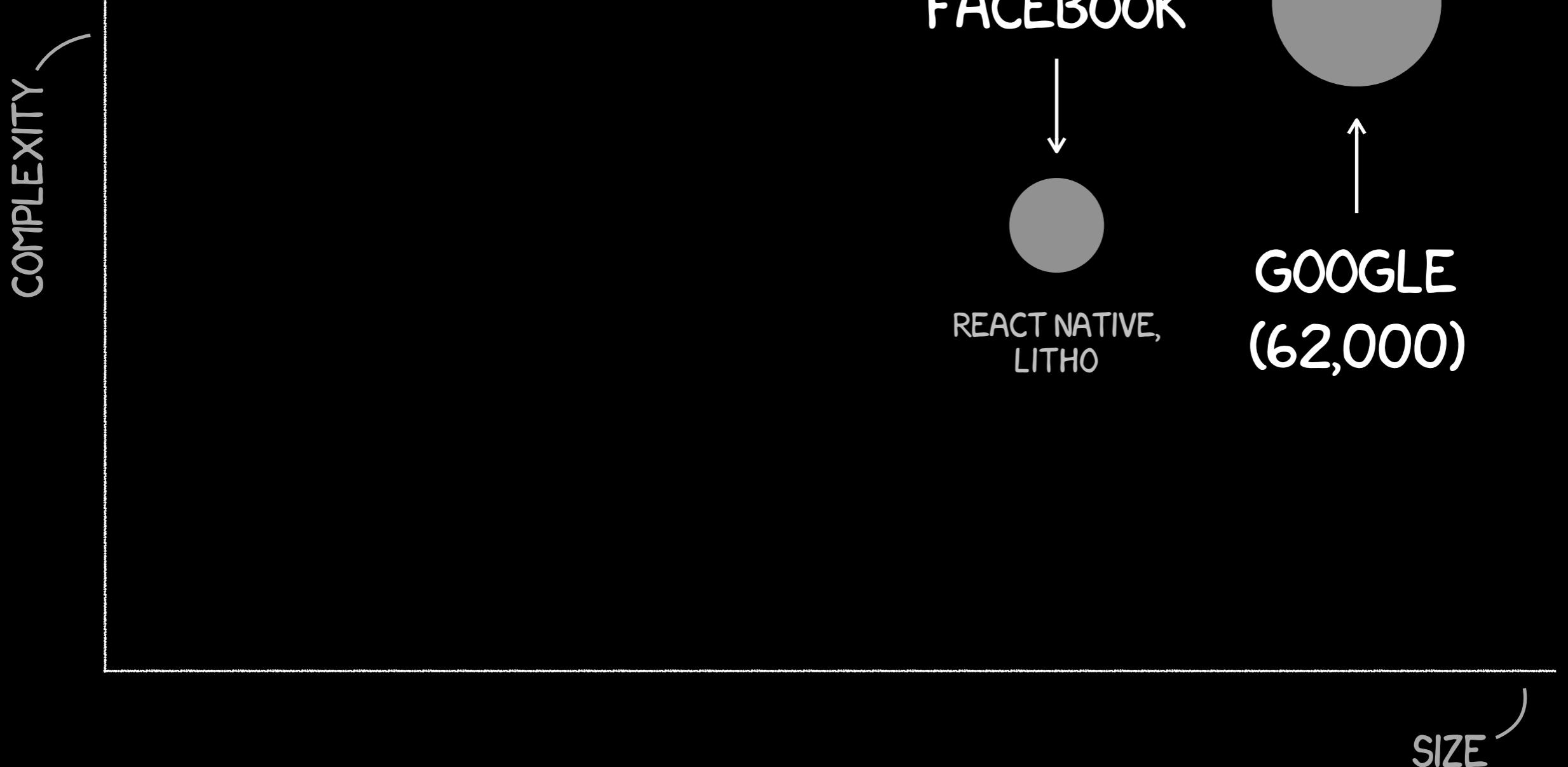
TEE HEE!



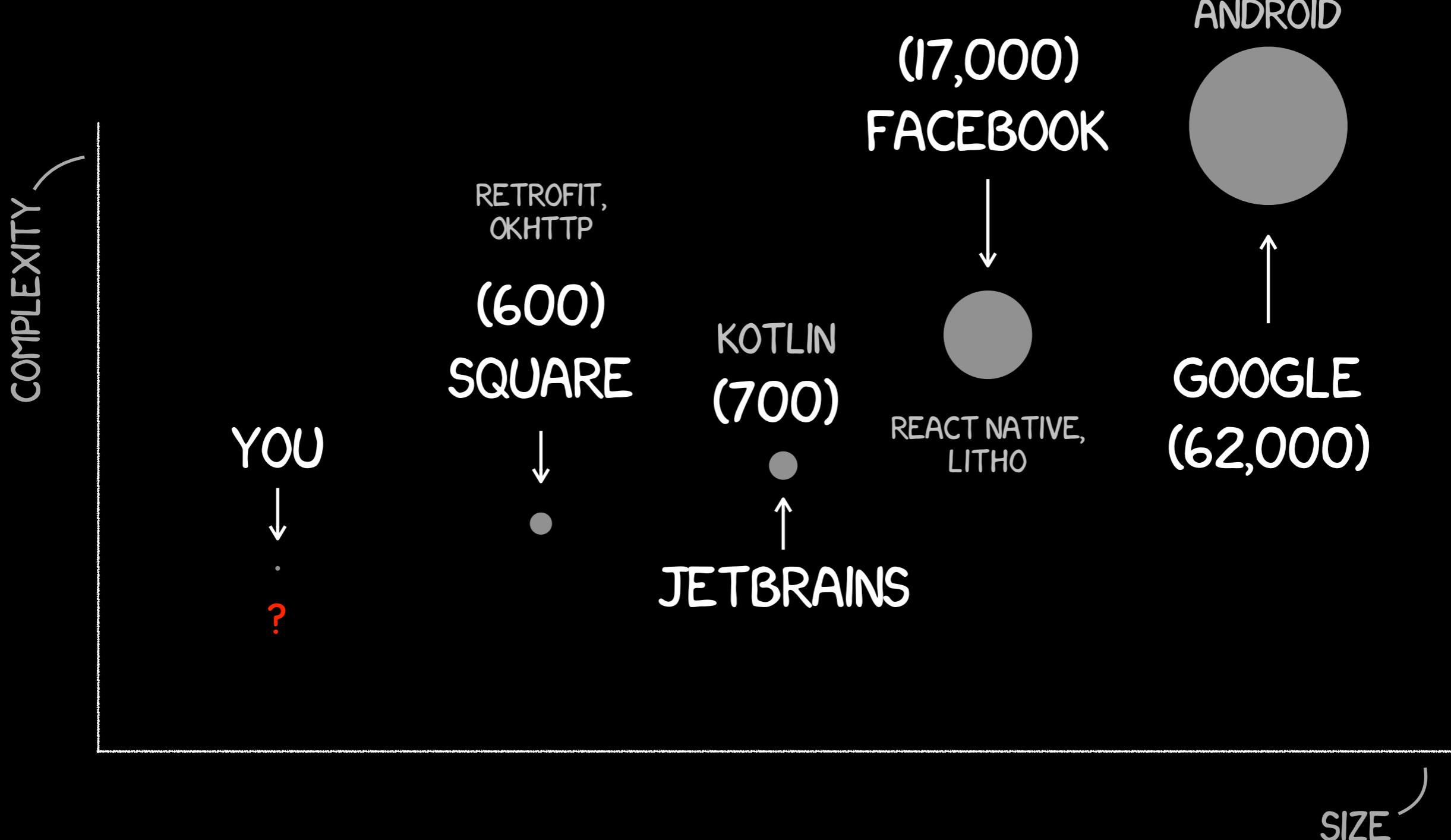
# LEARN SOMETHING NEW



SO, YOU WANT TO  
MAKE A LIBRARY



\*NOT TO SCALE



\*NOT TO SCALE

YOU



.

?

“WORK EXPANDS SO AS TO FILL  
ALL AVAILABLE TIME.”

CYRIL NORTHCOTE PARKINSON, 1955

# PARKINSON'S LAW:

## % BUREAUCRAT INCREASE OVER TIME

$$\frac{100(2K^M + P)}{YN} \%$$

K = STAFF SEEKING PROMOTION  
P = CAREER LENGTH  
M - (MAN) HOURS WORKED  
N = NUMBER OF UNITS  
Y = ORIGINAL STAFF

PARKINSON, CYRIL NORTHCOTE (19 NOVEMBER 1955). "PARKINSON'S LAW". THE ECONOMIST. LONDON.  
[HTTP://WWW.ECONOMIST.COM/NODE/1416121](http://WWW.ECONOMIST.COM/NODE/1416121)



LISAWRAY/COFFEEMAKER

WATCH 50

STAR 1,076

FORK 94

CODE

ISSUES 21

PULL REQUESTS 3

SOME OTHER TABS I THINK

BREWS A HOT, CAFFEINATED BEVERAGE FROM COFFEE BEANS.



LISAWRAY/COFFEE MAKER

WATCH 50

STAR 1,076

FORK 94

<> CODE

ISSUES 21

PULL REQUESTS 3

SOME OTHER TABS I THINK

BREWS A HOT, CAFFEINATED BEVERAGE FROM COFFEE BEANS.

README.MD

COFFEE MAKER

COMPILE 'COM.XWRAY:COFFEE MAKER:I.5.2

HOW TO USE IT:

NEW COFFEE MAKER().BREW(COFFEE)

README.MD

# COFFEEMAKER

COMPILE 'COM.XWRAY:COFFEEMAKER:I.5.2

## HOW TO USE IT:

NEW COFFEEMAKER()

.SETFILTER(FILTER.STANDARD)  
.SETGRINDTYPE(GRINDTYPE.NORMAL)  
.SETWATERTEMPERATURE(195)  
.SETDRIPSPEED(DRIPSPEED.NORMAL)  
.BREW(COFFEE)

README.MD

# COFFEEMAKER

COMPILE 'COM.XWRAY:COFFEEMAKER:I.5.2

## HOW TO USE IT:

NEW COFFEEMAKER()

.SETFILTER(FILTER.STANDARD)  
.SETGRINDTYPE(GRINDTYPE.NORMAL)  
.SETWATERTEMPERATURE(195)  
.SETDRIPSPEED(DRIPSPEED.NORMAL)  
.BREW(COFFEE)

README.MD

# COFFEEMAKER

COMPILE 'COM.XWRAY:COFFEEMAKER:I.5.2'

HOW TO USE IT:

NEW COARSEGRINDCOFFEEMAKER() .BREW(COFFEE)

NEW SLOWDRIPCOFFEEMAKER() .BREW(COFFEE)

README.MD

# COFFEEMAKER

COMPILE 'COM.XWRAY:COFFEEMAKER:I.5.2

## HOW TO USE IT:

```
NEW COFFEEMAKER()
.SETFILTER(NEW FILTER())
.SETGRINDER(NEW GRINDER())
.SETWATERHEATER(NEW HEATER())
.SETPUMP(NEW PUMP())
.BREW(COFFEE)
```

# FEATURE REQUESTS



LISAWRAY/COFFEEMAKER

WATCH 50

STAR 1,076

FORK 94

<> CODE

ISSUES 21

PULL REQUESTS 3

SOME OTHER TABS I THINK

# ADD PASTA COOKING CAPABILITY #23

! OPEN



JULIE COMMENTED ON OCT 2

I'M USING THIS LIBRARY TO MAKE SPAGHETTI AND IT'S NOT WORKING WELL.



LISAWRAY/COFFEEMAKER

WATCH 50

STAR 1,076

FORK 94

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# ADD PASTA COOKING CAPABILITY #23

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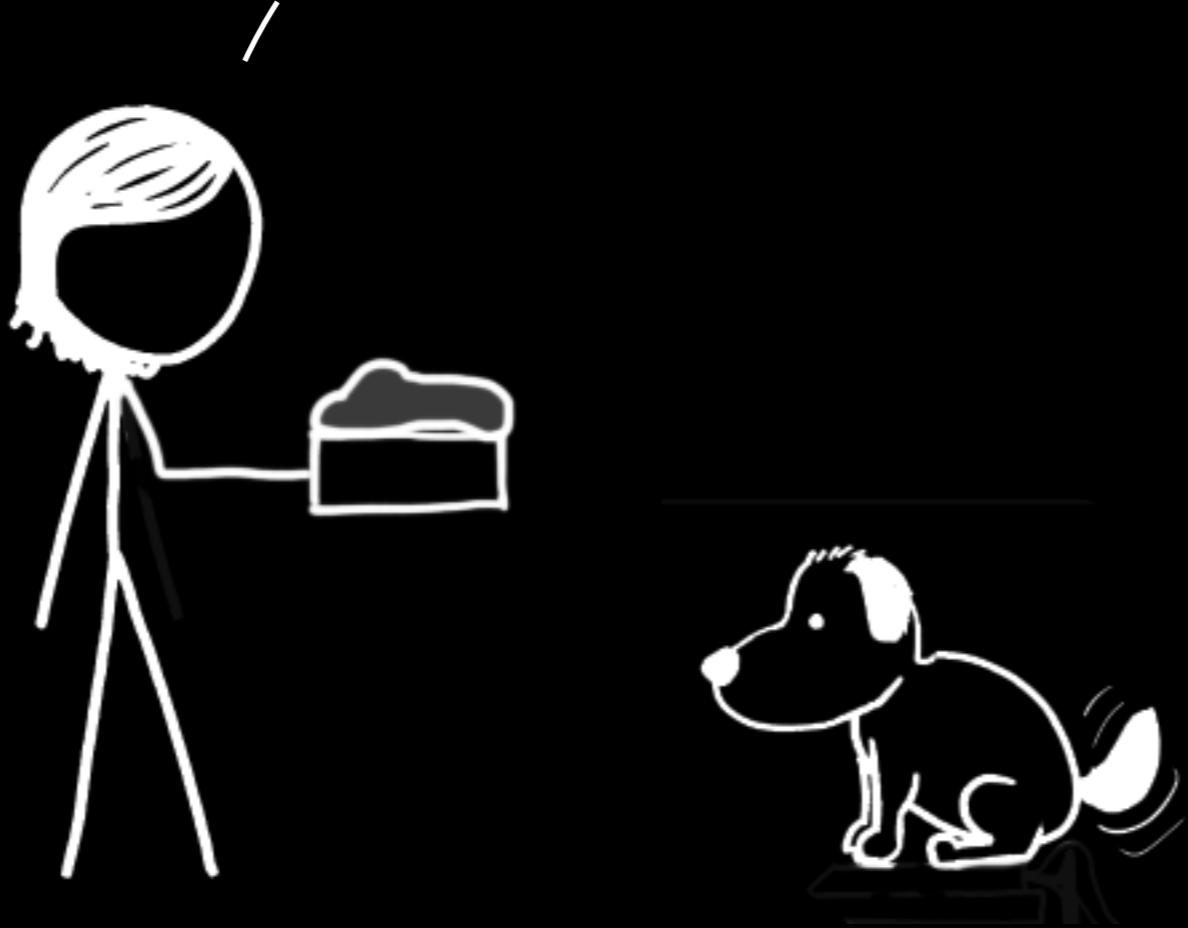


JULIE COMMENTED ON OCT 2

I'M USING THIS LIBRARY TO MAKE SPAGHETTI AND IT'S NOT WORKING WELL.

# BE YOUR OWN USER

TECHNICALLY, IT'S  
\*HIS\* DOGFOOD



HONESTY

README.MD

BEANS & RABBIT BREWERY ON THEIR RETRO LIBRARIES!  
DOESN'T AIM TO MAKE ALL TYPES OF  
BEVERAGES.

NEW  
FEATURES

2 . 5 . 1

/  
BREAKING  
CHANGES

/  
BUG FIX

2.5.0 - ALPHA 1



QUESTIONS

SOME OTHER STUFF

## HOW TO MAKE COFFEE ON ANDROID?



I'VE TRIED TO MAKE COFFEE ON ANDROID, BUT I CAN ONLY  
SEEM TO MAKE TOAST. CAN SOMEONE HELP ME?



I MADE A LIBRARY THAT DOES THIS FOR YOU!!  
CHECK OUT [COFFEEMAKER!](#)



# GOOGLE

ANDROID LIBRARY MAKE COFFEE

GOOGLE SEARCH

I'M FEELING LUCKY

# TESTING



LISAWRAY/COFFEEMAKER

WATCH 50

STAR 1,076

FORK 94

<> CODE

ISSUES 21

PULL REQUESTS 3

SOME OTHER TABS I THINK

OPEN

# FIX FILTER LEAK #57

CONVERSATION 5

COMMS 1 FILES CHANGED 2



JULIE COMMENTED ON OCT 19

FIXES PROBLEM WHERE COFFEE CAN CONTAIN BITS OF GROUNDS



FIX COFFEE FILTER LEAK

2D686E0

 OPEN

# FIX FILTER LEAK #57

 CONVERSATION 5     COMMITS 1     FILES CHANGED 2



JULIE COMMENTED ON OCT 19

FIXES PROBLEM WHERE COFFEE CAN CONTAIN BITS OF GROUNDS



FIX COFFEE FILTER LEAK

2D686E0



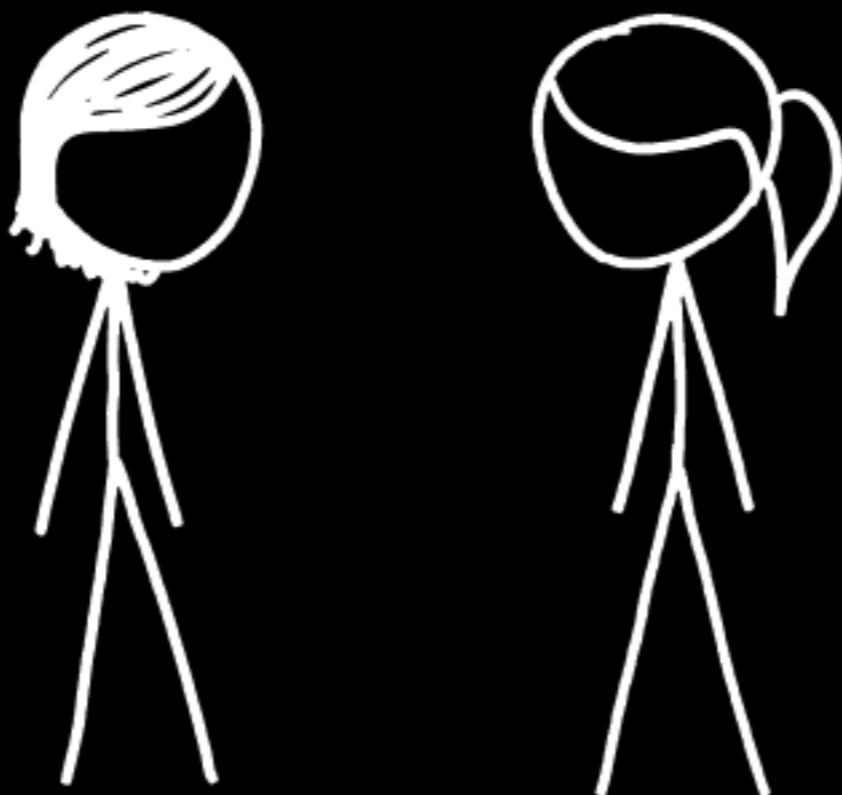
ALL CHECKS HAVE PASSED

# OWNERSHIP

# BIG COMPANY

WE OWN EVERYTHING  
YOU MAKE!

ALSO YOU GET TONS  
OF MONEY, THREE  
FREE MEALS A DAY,  
MASSAGES, LAUNDRY,  
A GYM ON CAMPUS  
AND A NEW PUPPY



# MEDIUM COMPANY

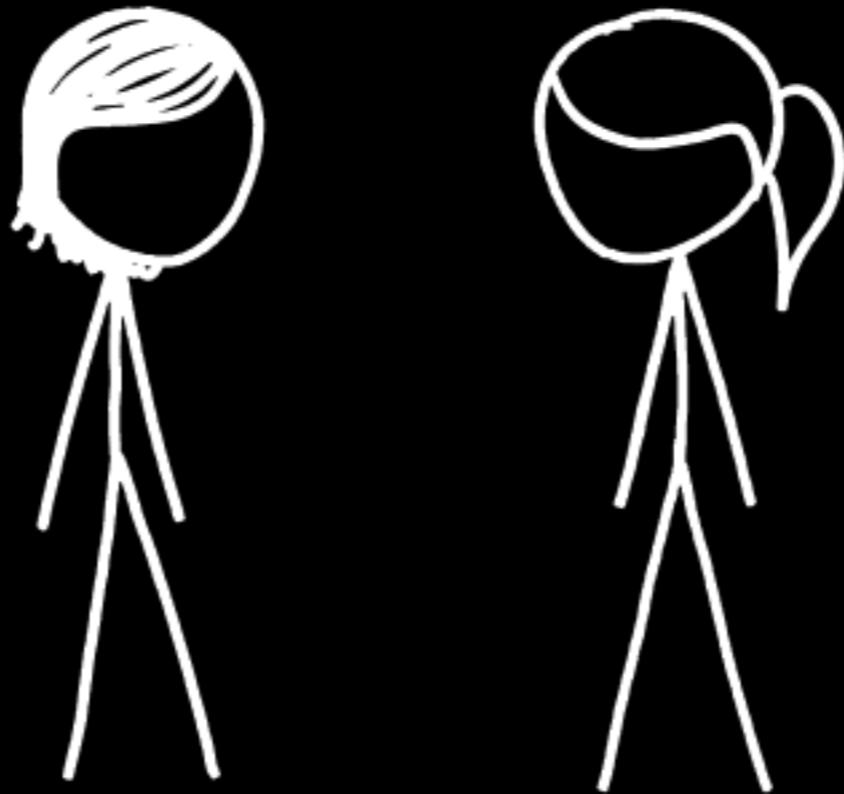
WE OWN EVERYTHING  
YOU MAKE!

PROBABLY. WE'LL  
CHANGE IT. PLEASE  
DON'T LEAVE US

DID YOUR LAWYERS  
LEAVE THAT IN  
ACCIDENTALLY?

# SMALL COMPANY

YOU CAN WEAR BATMAN -  
PAJAMAS TO WORK



# COMPETITION



HEXAGON/COFFEE

WATCH 110

STAR 6,032

FORK 479

CODE

ISSUES 4

PULL REQUESTS 8

TYPE-SAFE BEVERAGE MAKER FOR ANDROID BY HEXAGON, INC

README.MD

COFFEE



COMPILE 'COM.HEXAGON:COFFEE:1.1.0'



HEXAGON/COFFEE

WATCH 110

STAR 6,032

FORK 479

CODE

ISSUES 4

PULL REQUESTS 8

TYPE-SAFE BEVERAGE MAKER FOR ANDROID BY HEXAGON, INC

README.MD

COFFEE



COMPILE 'COM.HEXAGON:COFFEE:1.1.0'



HEXAGON/COFFEE

WATCH 110

STAR 6,032

FORK 479

CODE

ISSUES 4

PULL REQUESTS 8

TYPE-SAFE BEVERAGE MAKER FOR ANDROID BY HEXAGON, INC

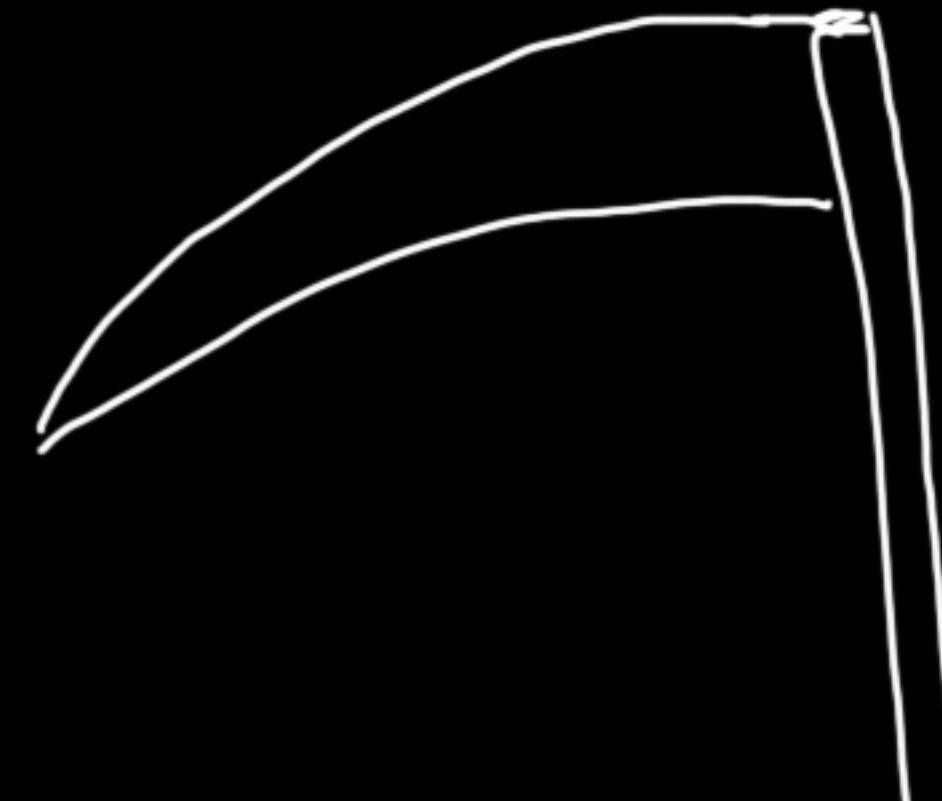
README.MD

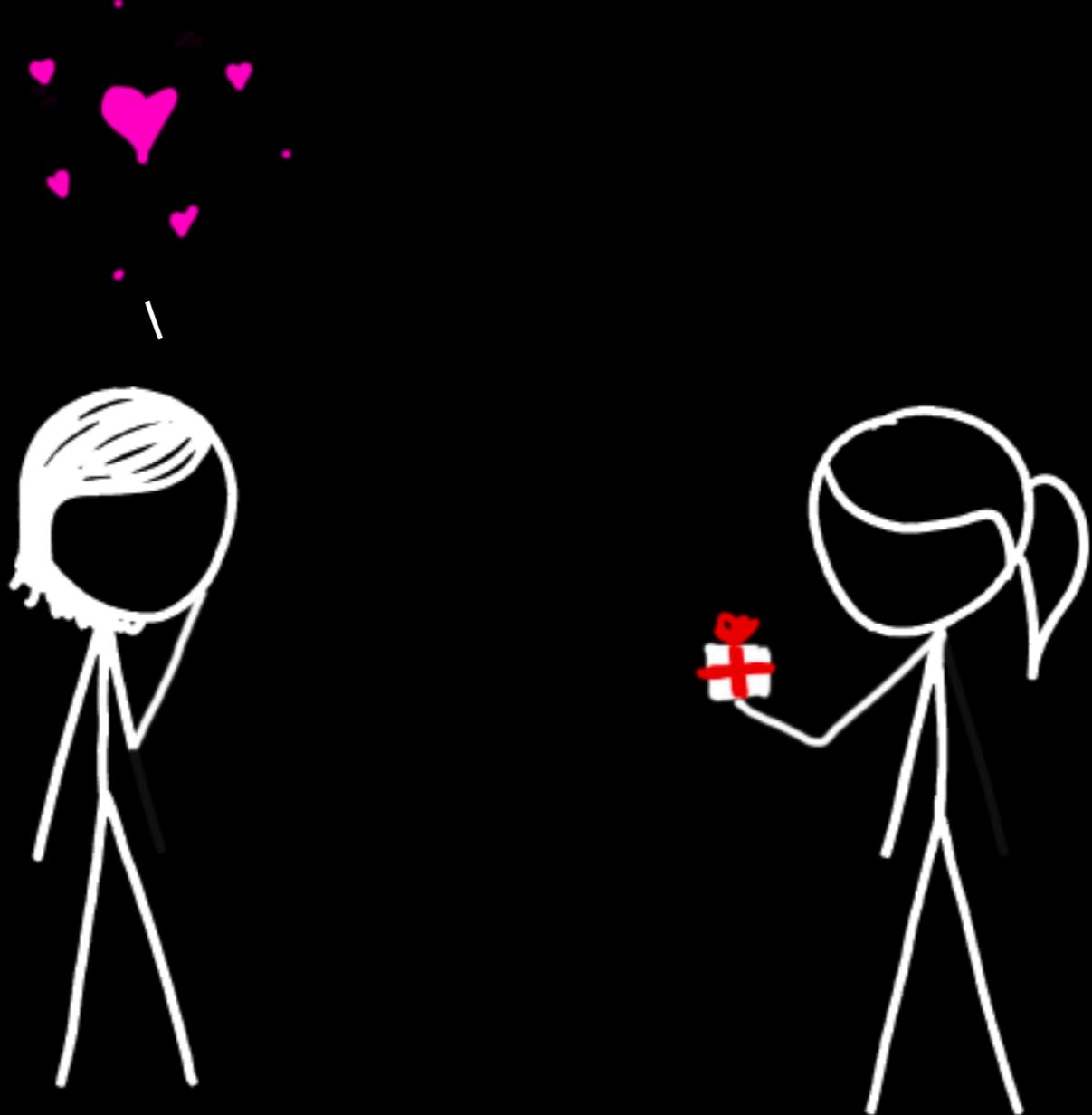
COFFEE



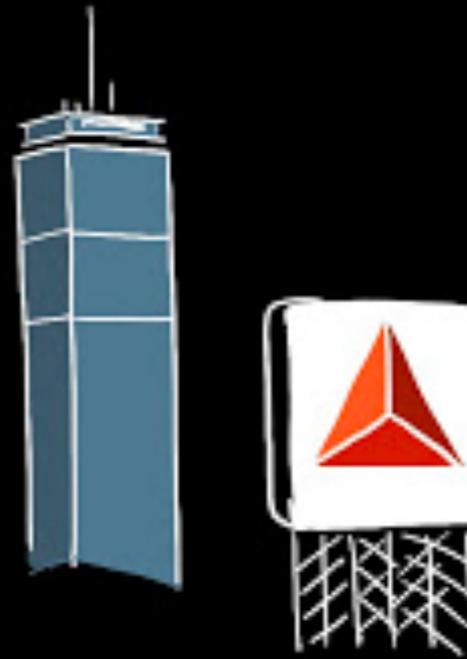
COMPILE 'COM.HEXAGON:COFFEE:1.1.0'

# DEPRECATION





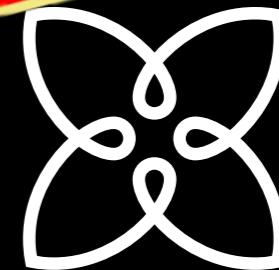
NO LIBRARY IS TOO SMALL



# THANK YOU!



LISA WRAY  
@LISAWRAYZ



PRESENT