

Write/Speak/Code 2018

Speak Your Truth



Google Pivotal

The New York Times  
NYTIMES.COM

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# WRITE/SPEAK/CODE 2018

## Speak Your Truth

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# Welcome + Code of Conduct

with Marie Casabonne

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- Speak from your experience
- Two people speak once before you speak twice
- Allow a person to finish speaking
- Listen. Then ask “Do you want me to just listen or also respond?”
- Prefer shared experience over advice (“should”)
- Silence is OK

## Inclusion

## Accommodations

- Front most seating is for hard of hearing or those with low mobility
- Please use the mic during Q&A for those who are hard of hearing
- We have ASL Interpreters! Welcome them!



# Code of Conduct

- Harassment-free environment
- Online & offline
- All affiliated events, outings

**We prioritize  
marginalized people's safety  
over privileged people's comfort**

<http://www.writespeakcode.com/about/code-of-conduct/>



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- **Regulatory instructions:** “follow this code style guide”
- **Advisory comments:** “you could rename this variable for clarity”
- **Descriptive observation:** “you used this same conditional twice”
- **Rhetorical questions:** “how does this relate to the classes purpose?”
- **Direct criticism:** “you need to use the strategy pattern here”
- **Praise:** “this refactoring makes the code much easier to read!”
- **Correctness:** “this line of code will never execute”

- Regulatory **instructions**: “follow this code style guide”
- Advisory **comments**: “you could rename this variable for clarity”
- Descriptive **observation**: “you used this same conditional twice”
- Rhetorical **questions**: “how does this relate to the classes purpose?”
- ~~Direct criticism~~: “you need to use the strategy pattern here”
- Praise: “this refactoring makes the code much easier to read!”
- Correctness: “this line of code will never execute”

- Be a **rubber ducky** first: ask to describe what they are trying to do, why, and how they have approached it
- Prefer **watching or navigating** (speaking instructions or ideas) over typing or driving
- **Ask before taking the keyboard**
- **Think out loud**
- **Explain** what you are doing or did or why something worked
- Be conscious of **emotional state**: frustrated, tired
- Be conscious of **work style**: experimental, deliberate, verbal, visual

1. **Mirror:** Summarize and repeat what was said. Make sure you understood.
2. **Empathy:** Show you understand their reasoning and emotions.
3. **Validation:** Ask questions that show you understand.

# Don't forget positive feedback

3 pieces of positive feedback = 1 piece of negative feedback

(up to 10:1)



## Feedback TART:

1. Buttery crust      Praise: Identify strengths
2. Tart center          Issue: Identify what needs to be improved or developed
3. Whipped cream      Opportunities: Where and how to grow and improve



# Announcements

Thursday / Speak / Leadership

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- **YOYO Conference:**
  - You own your own experience
  - Do what's most valuable to you
  - You get to do you!
- **Temperature:** We have asked Microsoft to set the temperature warmer
- **Locations / Group Lists:**
  - We will share open source breakout spaces on Slack (they're at WeWorks again)
  - Sponsor workshops are [here](#) at Microsoft

- **Gluten Free / Vegan Breakfast Zone**
  - Middle counter (next to coffee) reserved for vegan and GF
  - Keep knives separate, please
- **Lunch Today**
  - Boxed Lunches (salads, sandwiches)
  - We'll post menus on slack once I get off this stage!
- **Water / Tea / Coffee:**
  - Explorations: in lobby / entrance area where lunch is served
  - Foundations: in the kitchenette outside the space

## MEET THE ORGANIZERS



Neha Batra  
@nerdneda



Rebecca Miller-  
Webster  
@rmillerwebster



Lateesha Thomas  
@lateeshathomas



Marie Casabonne  
@goodcasa



Dalal Al Rayes  
@dalrayes



Kara Carrell  
@KaraAIC



Lisa van Gelder  
@lisa\_van\_gelder



Zoe Gagnon  
@UnusedPotential



Rebecca Long  
@amaya30



Alex Millatmal  
@halfghaninNE



Mercedes Bernard  
@mercedescodes



Mina Slater  
@Minar528



Ifeoma Okereke  
@ifeomaRO



Rebecca Bever  
@beckabec



Ting Deng  
@tingex



Anna Watt  
@annalynnwatt



Tien 'Mimi' Nguyen  
@Mimi\_Dumpling



Kelly Mason  
@kellymase



Lauren Murphy  
@laurennor



Jessica Simon  
@jsimon727



Evelyn Masso  
@outofambit



Dawn Parzych  
@dparzych

**THANK YOU!**

# Super Supporters

- Sara Linsley
- Anne LoVerso
- Bri Alcoran
- Sarah Zinger
- Annie-Claude Cote
- Emma Haruka Iwao
- Nishtha Agarwal
- Julie Iskow
- Lori Buchanan
- Belinda Lai
- Katie Simmons
- Caroline Lee
- Mirella Batista
- Micaela Neus
- Anu Srivastava
- Lerna Ekmekcioglu
- Shirking Bielefeld

# Submit to speak on Saturday!!

<http://bit.ly/wsc2018-raffle>

by 2pm EST (after lunch)



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# Fureigh



WRITE / SPEAK / CODE

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# If not us, who?

## Technology transformation in the federal government



# Hi, I'm Fureigh!

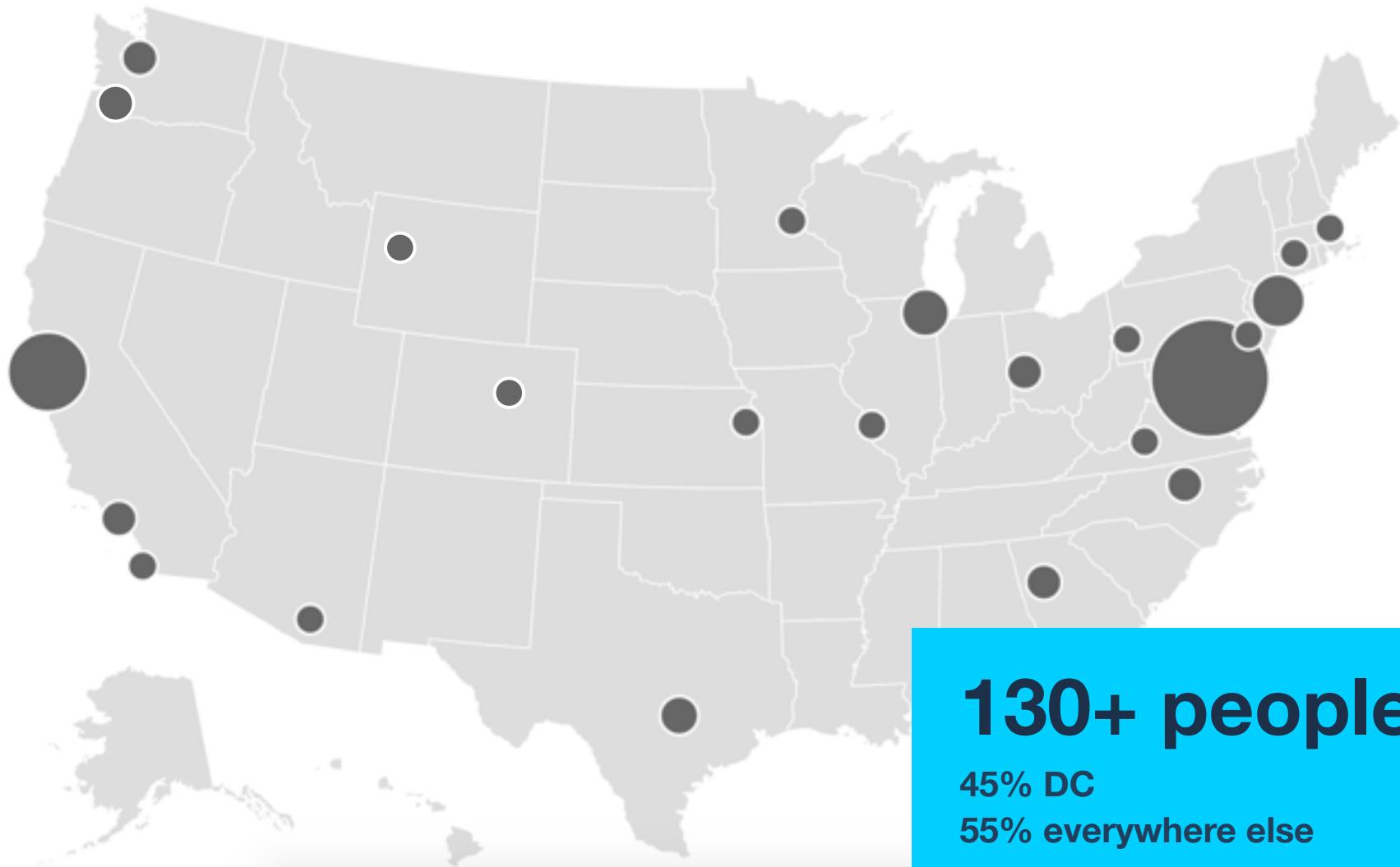
[my.pronoun.is/they](https://my.pronoun.is/they)

WHAT?

**18F is a digital consultancy  
for the U.S. government,  
*inside* the U.S. government.**



@fureigh



**130+ people**

45% DC

55% everywhere else

**“If not us, who?”**

# **Technology should be kind to people.**

**Government technology all the more  
so.**

**The federal government spends more than \$90 billion on IT annually**







Why this matters

## Just to show how this scales...

1

**>\$90 billion**

is spent a year on federal IT projects

2

**94%**

of federal IT projects are over budget and behind schedule

3

**40%**

of them never see the light of day — they're scrapped or abandoned

# legacy systems







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# user experience



# perspective

# Why it's like this

# **Buying IT is not the same as buying pencils and tanks.**

**Work happens in silos.**

**Bureaucracy over human needs.**

**Forced to comply with outdated regulations.**

**“do more with less”**

# Kodak

# perspective

(often)  
**it's not intentional**

# Story time!

>200

>200 → 3

**Your perspective  
is valuable**

**We seek to do things differently**

# **Delivery is the strategy.**

Just start.  
MVP.  
Learn and iterate.

## Digital Service Plays

1. Understand what people need
2. Address the whole experience, from start to finish
3. Make it simple and intuitive
4. Build the service using agile and iterative practices
5. Structure budgets and contracts to support delivery
6. Assign one leader and hold that person accountable
7. Bring in experienced teams
8. Choose a modern technology stack
9. Deploy in a flexible hosting environment
10. Automate testing and deployments
11. Manage security and privacy through reusable processes
12. Use data to drive decisions
13. Default to open



U.S. DEPARTMENT OF EDUCATION

# College Scorecard



## Find Schools

Compare schools now

Programs/Degrees



Location



Size



Name



Advanced Search



FIND SCHOOLS

@fureigh



# beta.FEC.gov

A work in progress

beta.FEC.gov | 11/11/13

We're designing this site in phases. This allows us to launch new features faster than releasing a completely redesigned FEC.gov. The official site for FEC data is still the [Campaign Finance Disclosure Portal](#).

## New features



Explore campaign finance data

See how money is raised and spent in federal elections. Compare candidates' financial data. Learn how campaigns have spent their money, whoever who contributed to which candidates.



Use the glossary to learn the meaning of an unfamiliar word or phrase

Click words or phrases with the book icon next to them to pull up a definition. Or click the glossary icon at the top of any page to open the full, searchable glossary. For example, click on this term to see its definition: principal campaign committee(s).

## Coming soon



Learn how congressional candidates and committees register and report

View a calendar of FEC deadlines and events

We're making it easier for groups to learn the essentials of registration and reporting. We started with House and Senate candidates and committees, but soon we'll have content for all the individuals and groups that register with the FEC.

Build a custom calendar to suit your needs, and export it to your personal calendar.

[What's next?](#)

@fureigh

# Fill out your FFR (SF-425)

This automatically pre-fills some of the SF-425's fields based on information you provided when you first applied for a grant.

You'll have a chance to make edits before you submit it.

Let's go



Name of Agency



Agency Contact Center

(800) CALL-GOVT

[info@agency.gov](mailto:info@agency.gov)

18F

[https://en.wikipedia.org/wiki/Turtles\\_all\\_the\\_way\\_down#/media/File:River\\_terrapin.jpg](https://en.wikipedia.org/wiki/Turtles_all_the_way_down#/media/File:River_terrapin.jpg)



**Do what you can where you are**

**You never know the effect that  
speaking your truth can have.**

# A few tactics\*

\* your mileage may vary

## What We Strive For

We strive to create a welcoming and inclusive culture that empowers people to provide outstanding public service. That kind of atmosphere requires an open exchange of ideas balanced by thoughtful guidelines. If we have only openness, colleagues who are on the receiving end of thoughtless or intentionally hurtful comments and behavior may reasonably withdraw. If we have overly intrusive guidelines, people may feel unwelcome.

It would be impossible to list everything staff can do to create a more welcoming space, and we know this team will find ways to include their colleagues that we haven't even thought of. But when in doubt, we encourage you to look to these principles for guidance:

- Practice empathy and humility.
- Assume competence in your colleagues, clients and the public.
- Assume that everyone we work with is doing their best work for the public.
- Listen carefully and actively.
- Ask questions, and seek to understand your partners' context.
- Encourage other people to listen as much as they speak.
- Treat other people's identities and cultures with respect. Make an effort to say people's names correctly and refer to them by their chosen pronouns.

<https://github.com/18F/code-of-conduct/blob/master/code-of-conduct.md>

# 1. Matter-of-fact bug reports

## 2. Pull requests

## 2. Pull requests

or, “make the robot do it”



**Fureigh (OAK, they/them)** 2:31 PM

I can join; we can keep it quick



### GitHub

<https://www.github.com/fureigh>

### Display text

fureigh

Optional

### Twitter

<https://www.twitter.com/fureigh>

### Display text

@fureigh

Optional

### Pronouns

they/them/their

What pronouns should people use to refer to you?



◀ Blog

# Hacking inclusion: How we customized a bot to gently correct people who use the word 'guys'

By Maya Benari

January 12, 2016

how we work

communication tools and practices

How do you nudge people to make better decisions with their language?

It's a difficult question: you don't want to make someone feel bad, but it's important to have everyone think about diverse and inclusive language.



I love you guys! Great news



**slackbot** 12:21 PM

Did you mean **comrades**?



no slackbot I meant guys, guys, guys!



**slackbot** 12:21 PM

Did you mean **folks**?



**Dolores Landingham** BOT 2:34 PM

Hi there:

If you've checked out our Code of Conduct (<https://github.com/18F/code-of-conduct/blob/master/code-of-conduct.md>), you've seen that it stresses the importance of using the right pronouns and forms of address when you talk about people.

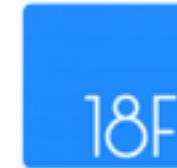
If someone uses pronouns that are new to you, or if yours might be new to someone else, you might like the website <http://pronoun.is>, which demonstrates how to use different pronouns in a sentence.

Also: Feel free to include a [my.pronoun.is](#) link in your Slack profile.

GitHub

[18F/code-of-conduct](#)

code-of-conduct - 18F's code of conduct.



# emergent outcomes

## 3. Speak up

## 3. Speak up

...and own your expertise

## 4. Don't wait for permission



<https://laurenancona.com/blog/illustration/everyones-been-winging-it-since-forever>

@fureigh

# design decisions

# project selection

You are uniquely qualified.

**There's a whole  
world out there**

# Defaulting to open

- cities
- states
- Code for America

# Brigade 101: How to Hack Night

JULY 24, 2013

BY NOEL HIDALGO

SHARE

 Tweet

SHARE

Following in the footsteps of Chicago's [Open City Open Gov Hack Night](#), Code for America Brigades are [increasing innovation](#) and [building a national network](#) of weekly meetups to socialize, code, and foster interdisciplinary collaboration for civic change. These hack nights are building the social and technical infrastructure to make government by the people, for the people, for the 21st century.

## What is a hack night?

A civic hack night is a safe space\* event that brings together an interdisciplinary group of community makers\*\* to meet regularly and collaborate on software and policy projects at the intersection of government and civic engagement.

\* **Safe space** - A place where anyone can relax and be fully self-expressed, without fear of being made to feel uncomfortable, unwelcome, or unsafe on account of biological sex, race/ethnicity, sexual orientation, gender identity or expression, cultural background, age, or physical or mental ability; a place where the rules guard each person's self-respect and dignity and strongly encourages everyone to respect others.

\*\* **Community Makers** - tinkerers, designers, software developers, data scientists,



Noel  
Hidalgo  
[@noneck](#)

"noneck" Noel Hidalgo is an Eagle Scout, an activist, technologist, and organizer. For the last 15 years, he has explored the innovative technologies that bring us together. His work has focused on building communities, transforming organizations, and building digital participatory frameworks to connect all of the in-between-bits. He started NYC's Drupal Users Group, helped cement unconferences and hackathons in NYC, founded one of NYC's first coworking facilities, and traveled the World meeting the other side of the Internet. In 2009, he helped reinvent legislative information

You are not  
an edge case.

# Your voice matters.

# Do the thing.



**18F.gsa.gov  
join.18F.gov  
github.com/18F**

@fureigh



DATADOG



Ashley Miller

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# Get Noticed

Ashley Miller

Why should you stand  
out?

Isn't it easier to fit in?

# Recency Bias

People gravitate to  
what is top of mind

What does that mean  
for you?

# Projects

Projects  
Promotions

Projects  
Promotions  
Opportunity

Projects  
Promotions  
Opportunity  
Cool Projects

# How?

You already stand out.

You already stand out.  
Own it.

It doesn't have to be  
perfect

A stumble is better  
than silence

Be \*visible\*

Start small  
and  
scale up

Speak in a team  
meeting

Comment on:  
code  
proposals  
design docs

Start answering  
questions in team chat

Ask to lead an  
upcoming project

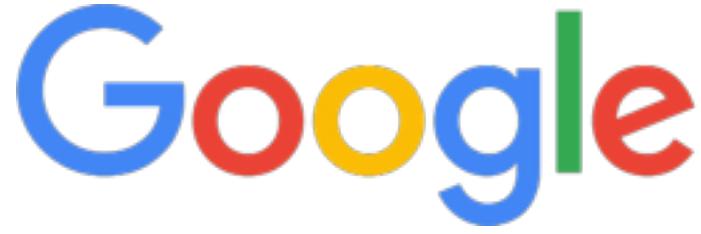
# Talk at a meetup

Work at a cool  
company :)

# We're hiring!

[datadoghq.com/careers/](https://datadoghq.com/careers/)

@csprite



Demma  
Rodriguez

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# Raffle Winners!

- **Michelle Brenner** - Started a book pitch. Pitch: How Tech Really Gets Made is a collection of true stories from tech veterans that will help newbies and career changers who are struggling to understand the wide array of day-to-day challenges from Google to Exxon to a 2 person startup.
- **Tyler Beebe** - I wrote and performed a talk that I've been wanting to do for like a year!
- **Alice Yuan** - I wrote and performed a talk that I've been wanting to do for like a year!

# Raffle Winners!

- **Melissa Moy** - I gave a talk and it wasn't all that bad!
- **Shannon Turner** - I wrote a book proposal and outline! I didn't think I could write a book but after the workshop, I feel empowered!
- **DeeDee Lavinder**
- **Yejia Chen**



# Code / Ethics Topic

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**What are your top 3 values when it comes to your work and how it impacts the world?**

- Talk to someone new! Welcome someone into a convo!
- Have a meaningful conversation with our sponsors - they are why we are here today.

## Foundations

Microsoft (Here!)

## Explorations

Studio Arte, 265 W 37th St

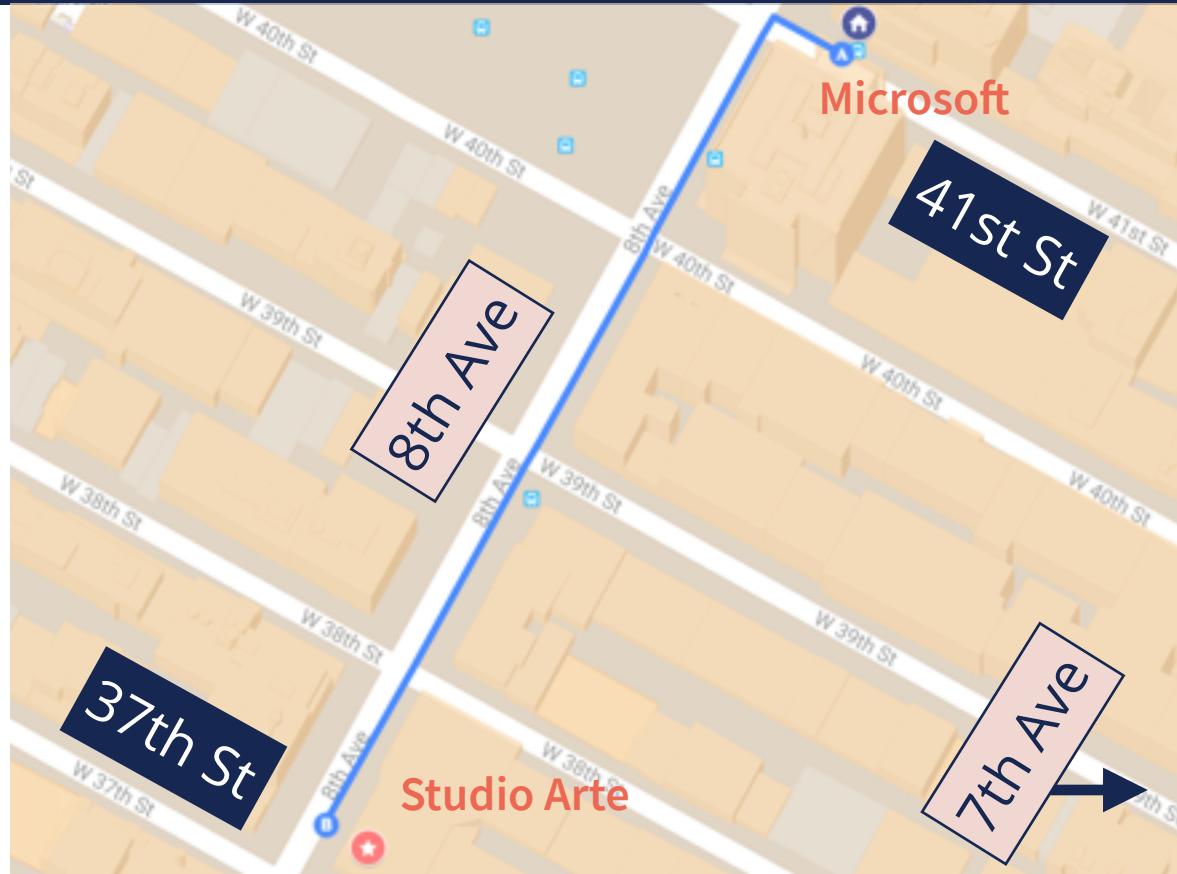
## Code / Ethics



What are your top 3 values when it comes to your work and how it impacts the world?



# Speak Your Truth



Write/Speak/Code 2018

Speak Your Truth



Google Pivotal

The New York Times  
NYTIMES.COM

MailChimp  
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# WRITE/SPEAK/CODE

## Day 3: Code

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# Getting Started

- Identify Your Goals
- Expand Your Options
- Select A Project
- Off you go!



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# # GOALS

What do you want from your work today?



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# # GOALS

Remember that you are giving something extremely valuable away for free. **Make sure that you are working towards your own goals.**



# # GOALS

- Building a network
- Learning or practicing a new technology
- Showing off your coding abilities
- Giving back to the community



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# What's a Contribution?

- Code feature
- Bug fix
- Code review
- Better docs
- Design/UX/Accessibility review
- Bug report investigation
- Translation
- Tutorial



# Featured Projects

- Instant access to a core contributor or maintainer
- Clear documentation
- Welcoming community
- Issues labelled **wsc2018**, sized for today's sprint
- Recommended for today's first-time contributors



<http://bit.ly/wsc2018-code-day>



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# #oss-new-sanctuary

**New Sanctuary Asylum** is software supporting the core work of the New Sanctuary Coalition of NYC, in solidarity with families and communities resisting detention and deportation in order to stay together.

# #oss-exercism

**Exercism** is a 100% free online platform designed to help coders improve their skills through practice and mentorship. It provides members with thousands of exercises spread across numerous language tracks.

# #oss-ifme

**if me** is a mental health communication app that allows people to share their mental health experiences in a safe and private space with loved ones. if me is a free, not-for-profit open source software project.

# #oss-electron

**Electron** allows you to build cross-platform desktop apps with JavaScript, HTML, and CSS.

Used for apps like Skype, Slack, and Visual Studio Code, Electron lowers the barriers to building native desktop apps.

## #oss-5calls

**5 Calls** transforms passive participation into active resistance. It provides phone numbers and scripts for your local representatives so making your voice heard is quick and easy.

# #oss-jupyter

**Project Jupyter** is an open source project born out of the IPython Project in 2014 as it evolved to support interactive data science and scientific computing across all programming languages.

# #oss-desktop

**GitHub Desktop** makes version management accessible via a desktop application. Written with Typescript and React, it supports coders as they embrace collaborative coding.

## #oss-athens

**Project Athens** is going to be the official Go proxy and registry, and works with the new Go Modules feature in the Go 1.11 beta. This is similar to what other languages already have, for instance ruby gems or npm. Not only will it let you register a package, but it can be used as a proxy (or cache) so that you are protected from packages disappearing from the internet, or github outages.

## #oss-kubernetes

There are a LOT of projects under the Kubernetes organization. Here are some good initial projects to learn about and contribute to:  
Service Catalog, Community Docs, Minikube.

# OSS Search Tools

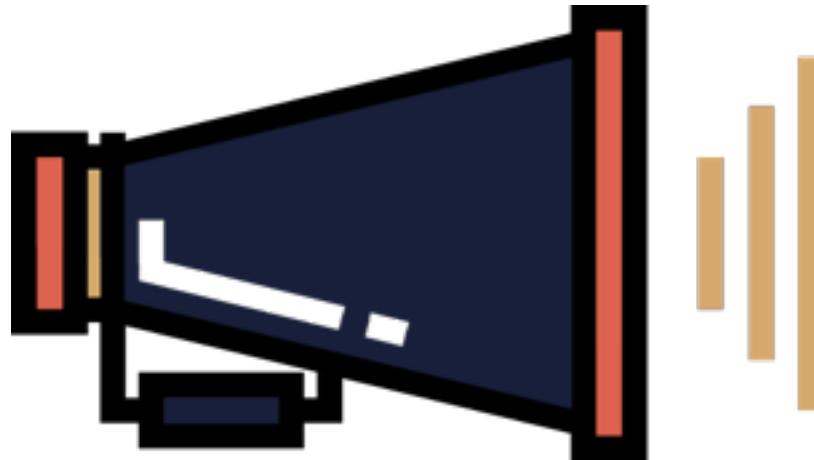
- other people in this room right now! (**post to #open-source in Slack**)
- **GitHub Explore:** <https://github.com/explore/>
- **Open Hatch - Bite-sized:** <https://openhatch.org/search/>
- **Code Triage:** <https://www.codetriage.com/>
- **Issue Hub:** <http://issuehub.io/>
- **First Timers Only:** <http://www.firsttimersonly.com/>
- **Up for Grabs:** <http://up-for-grabs.net/>
- **Your First PR:** <https://twitter.com/yourfirstpr>
- **Pull Request Roulette:** <http://www.pullrequestroulette.com/>



# OSS Search Tools

Tags to hunt for:

- **#help wanted**
- **#first-timers-only**
- **#text only**
- **#up-for-grabs**
- **#jump-in**
- **#easy**



Time is short, so stay focused.

also, be gentle.

But



# HAPPY HUNTING!



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# WRITE/SPEAK/CODE

## Intro to Open Source

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?? / 😅



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**open source** describes software for which the source code is made publicly available and often may be redistributed or modified.

# C'est Moi



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# Oh, the possibilities!



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# Oh, the possibilities!

- Ultimate Collaboration Power!
- Opportunities to learn & grow
- Supporting causes you care about
- Expanding your network
- Showing off your skills



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# Oh, the challenges!

- Unpaid effort
- OSS maintainer overwhelm
- Unwelcoming communities
- So very public



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# Evaluating a Project

- Is it active?
  - Check the latest commit date.
  - Look at open pull requests and issues.



# Evaluating a Project

- Is it safe?
  - Check code review comments on pull requests.
  - Find the community.
  - Ask friends & colleagues.



# Evaluating a Project

- Is it done already?
  - Comment on the issue.
  - Tell the project community.



# Evaluating a Project

- I'm stuck!
  - Pair with someone.
  - Reach out to a core contributor.
  - Update the documentation.
  - Create an issue.



# Two Roads Diverged

MAINTAINER



(Patrick Swayze  
is the codebase.)



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# Getting Started

## Maintainer

- Solve a problem.
- Have a clear README and installation instructions.
- Pick an open source license.

## Contributor

- Know your goals.
- Read docs and install with patience.
- Find some issues.
- Ask questions!



# Going Deeper

## Maintainer

- Use CONTRIBUTING.md and an enforced code of conduct.
- Use best practices (tests, small PRs, etc.)
- Invite other core contributors.

## Contributor

- Get to know a project.
- Write tests and detailed bug reports.
- Get feedback.



# To Infinity & Beyond

## Maintainer

- Create a community.
- Template new issues.
- Seek funding and support.

## Contributor

- Write code reviews.
- Respond to issues.
- Become a core contributor.



# Staying Sustainable

- Don't treat it as an obligation!
- Start an Open Source Friday practice at your company.
- Look for potential projects in your day-to-day work.
- Find funding through grants or other means.



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# Open source is not a requirement.



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# Thank you!



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@courteneyervin

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# Lunch time!!!



In order to serve everyone, we will call groups to line up for lunch in this order:

- Multiple dietary restrictions + Halal
- Vegan
- Gluten-Free
- Vegetarian + Other dietary restrictions
- Everyone Else

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# Bonnie Pan

# How to Tell A Better Story (In Code)



Welcome to NYC

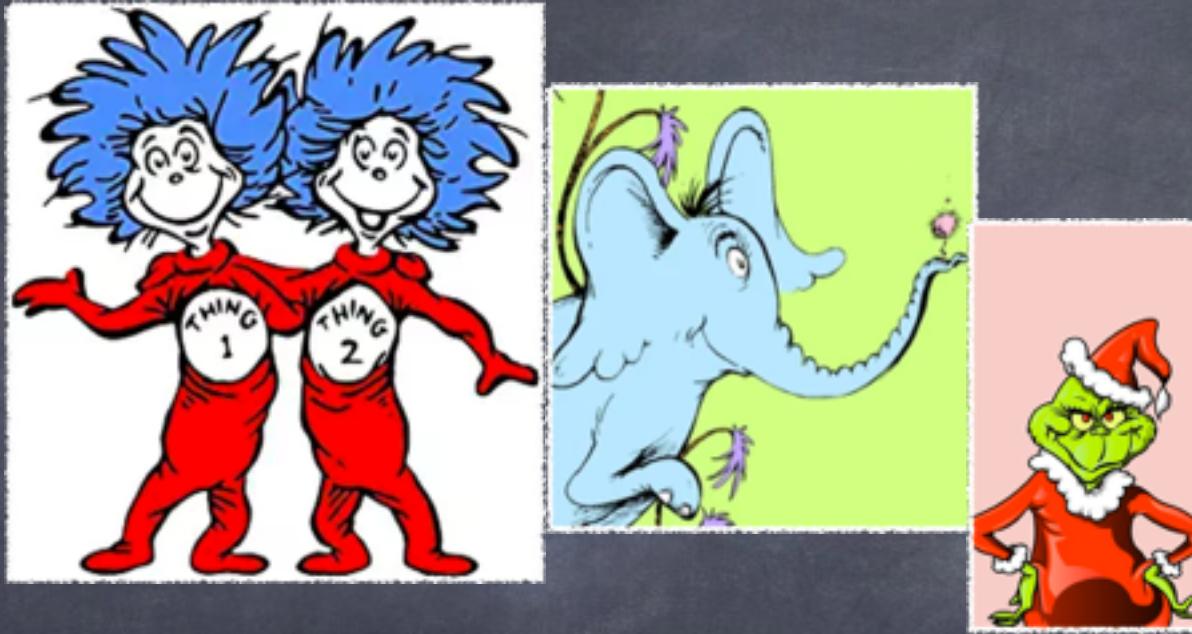
# Who Am I?

- Bonnie Pan
- Staff Applications Engineer
- Medidata Solutions





# The 3 Story Rules



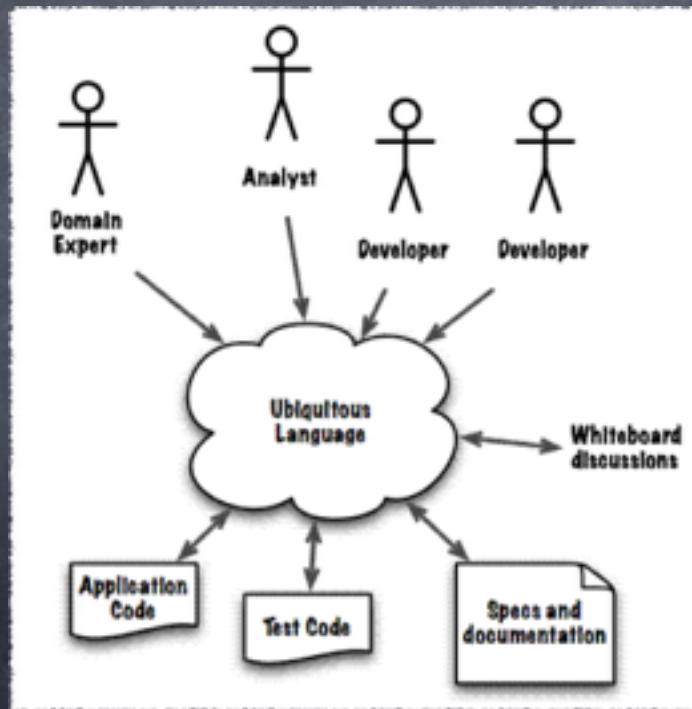
# RULE #1

## Know Your Audience

"To communicate effectively, the code must be based on the same language used to write the requirements - the same language that the developers speak with each other and with domain experts."

-Eric Evans, Domain Driven Design

# Speak in Ubiquitous Language



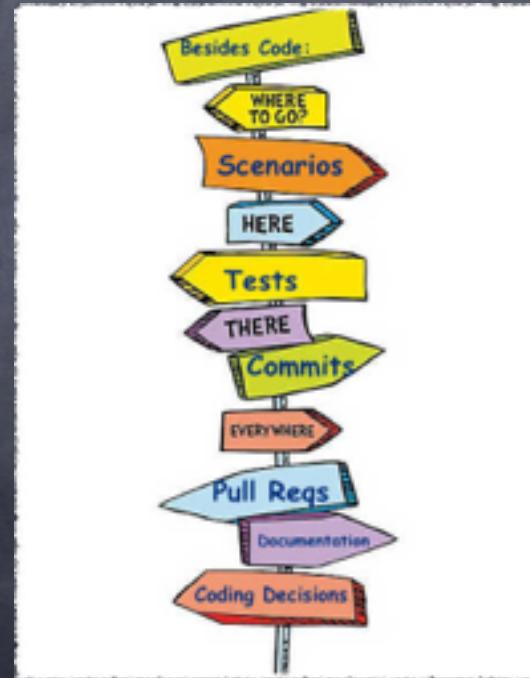
# Code in Ubiquitous Language

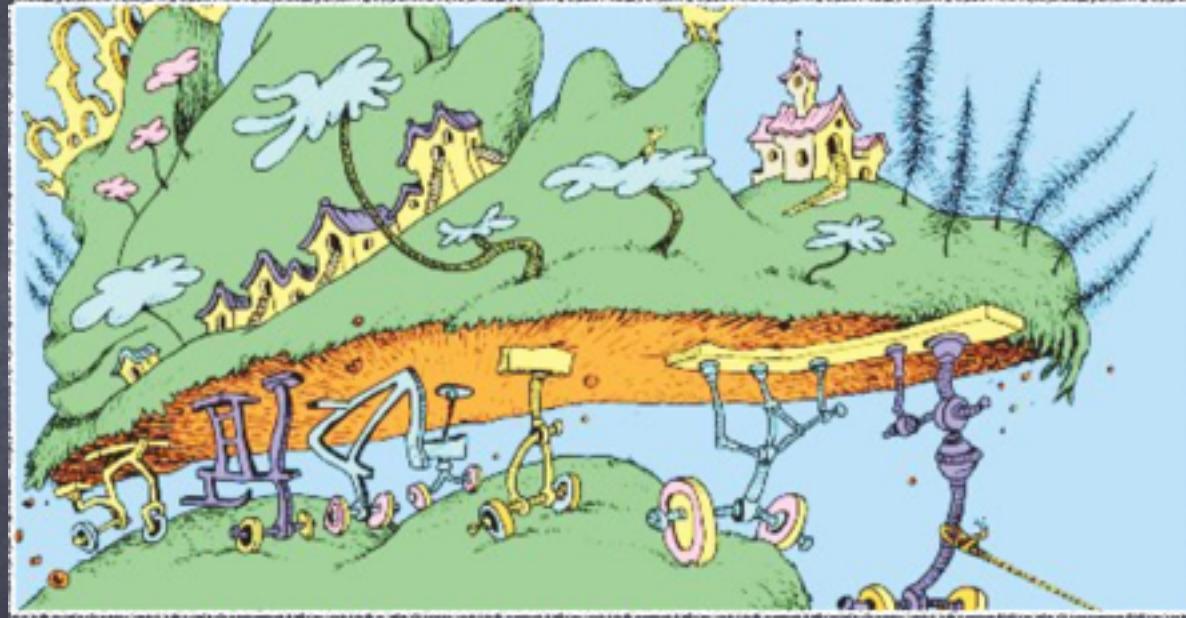
Code <----> People



# Utilize other asynchronous communication artifacts

- Scenarios
- Tests
- Commits
- Pull Request Descriptions
- Documentation
- Coding Decisions





But How to Write it?

To play "fizz-buzz", you need several people. They should stand in a circle. One person is chosen to start the game, and players take turns around the circle. When the person starts, they start by saying a number from 1 to 99. (When you are teaching a class the game, they should probably always start from 1.)

The next person must then say the next number, and so on. Each person takes their turn by saying the next number in sequence... but...

This is where the game gets interesting.

If the number is divisible by 5, the person doesn't say the number instead, they say "Fizz!".

Also, if the number contains a 5, the player must say "Fizz!".

Similarly, if the number contains a 7 or is divisible by 7, they must say "Buzz!".

These fizzes and buzzes combine together - for example, instead of saying "One, two, three, four, five", a person would say "Fizz, fizz, buzz!", because the number contains a 5, is divisible by 5, and is divisible by 7.

When a fizz or a buzz is said, the direction of play is reversed (from clockwise to clockwise, or vice-versa).

A player who makes a mistake is penalised somehow. A good rule might be "Three strikes and you're out" of the game.

46!

Buzz!

48!

Buzz buzz! (49 is seven times seven)

Fizz fizz fizz! (50 is divisible by 5 twice, and also contains a 5)

Fizz!

Fizz!

Fizz!

Fizz! (What number are we up to now??)

Fizz fizz fizz! (55 is divisible by 5, and contains a 5)

Fizz buzz!

Fizz buzz!

Fizz!

Fizz!

Fizz!

61! (Whew! We made it!)

62!

63!

# Let's Code FizzBuzz!

```
1  class FizzBuzz
2    def fizz_buzzify(input)
3      result = ''
4      dup = input.dup
5      while dup % 5 == 0 do
6        result += 'Fizz'
7        dup = dup/5
8      end
9      input.to_s.each_char do |char|
10        if char.include?('5')
11          result += 'Fizz'
12        end
13      end
14      dup = input.dup
15      while dup % 7 == 0 do
16        result += 'Buzz'
17        dup = dup/7
18      end
19      input.to_s.each_char do |char|
20        if char.include?('7')
21          result += 'Buzz'
22        end
23      end
24      if result.empty?
25        input.to_s
26      else
27        result
28      end
29    end
30
31    def prints(range)
32      result = ''
33      range.each do |i|
34        result += fizz_buzzify( input: i ) + ' '
35      end
36      puts result
37    end
38  end
```

```
context "given a '1'" do
  it "returns 1" do
    expect(fizzbuzz.fizz_buzzify( input: 1)).to matcher.eq!( expected: '1')
  end
end

context "given a '5'" do
  it "returns Fizz" do
    expect(fizzbuzz.fizz_buzzify( input: 5)).to matcher.eq!( expected: 'FizzBuzz')
  end
end

context "given a '2'" do
  it "returns 2" do
    expect(fizzbuzz.fizz_buzzify( input: 2)).to matcher.eq!( expected: '2')
  end
end

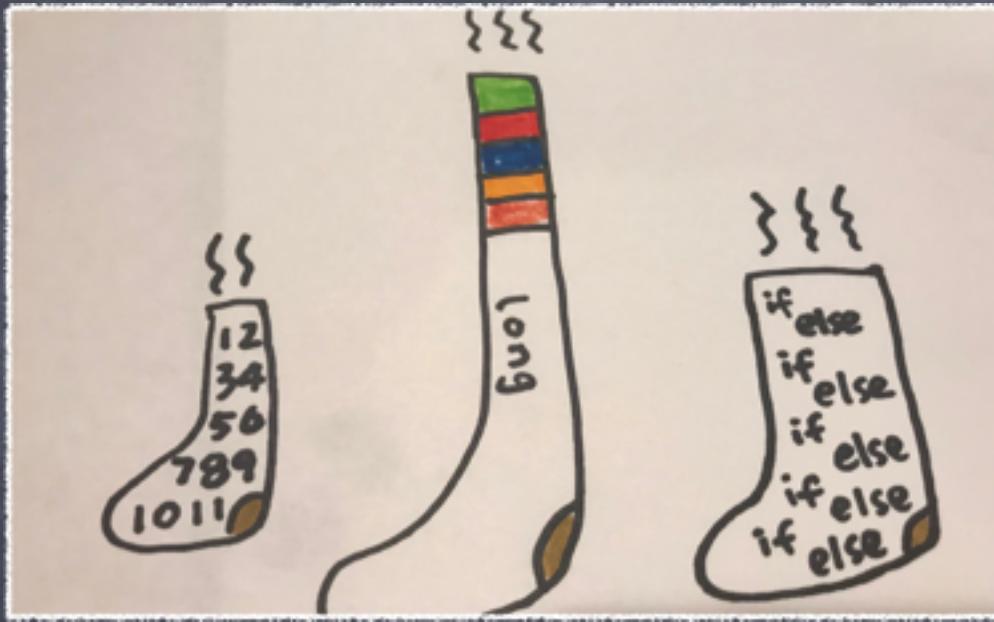
context "given a '46'" do
  it "returns 46" do
    expect(fizzbuzz.fizz_buzzify( input: 46)).to matcher.eq!( expected: '46')
  end
end

context "given a '47'" do
  it "returns Buzz" do
    expect(fizzbuzz.fizz_buzzify( input: 47)).to matcher.eq!( expected: 'Buzz')
  end
end

context "given a '49'" do
  it "returns BuzzBuzz" do
    expect(fizzbuzz.fizz_buzzify( input: 49)).to matcher.eq!( expected: "BuzzBuzz")
  end
end

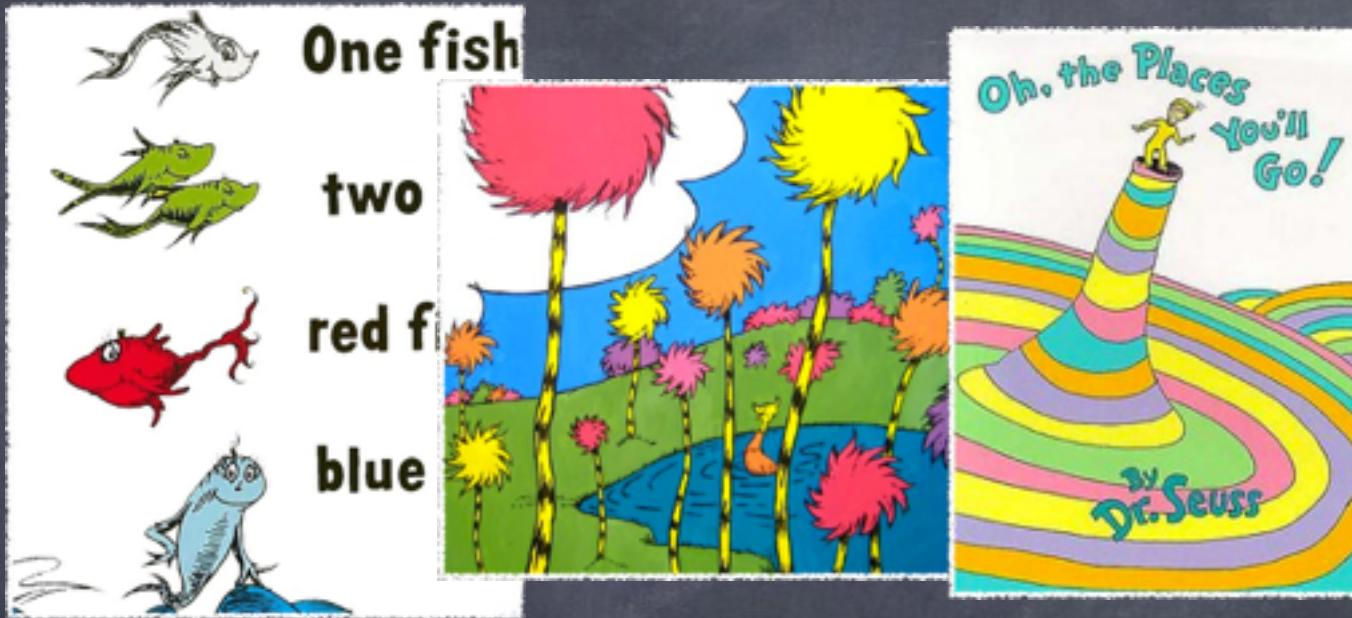
context "given a '50'" do
  it "returns FizzBuzzFizz" do
    expect(fizzbuzz.fizz_buzzify( input: 50)).to matcher.eq!( expected: "FizzBuzzFizz")
  end
end

describe ".prints' do
  subject name (:fizzbuzz) { FizzBuzz.new }
  context "given range '46..50'" do
    it "returns 46 Buzz BuzzBuzz FizzBuzzFizz" do
      expect { fizzbuzz.prints( range: 46..50 ) }.to matcher.output( expected: "46 Buzz 48 BuzzBuzz FizzBuzzFizz \n" ).to_stdout
    end
  end
end
```



# Code Smells

What are they?



## RULE #2

# Visual Design

```
1  class FizzBuzz
2    def fizz_buzzify(input)
3      result = ''
4      dup = input.dup
5      while dup % 5 == 0 do
6        result += 'Fizz'
7        dup = dup/5
8      end
9      input.to_s.each_char do |char|
10        if char.include?('5')
11          result += 'Fizz'
12        end
13      end
14      dup = input.dup
15      while dup % 7 == 0 do
16        result += 'Buzz'
17        dup = dup/7
18      end
19      input.to_s.each_char do |char|
20        if char.include?('7')
21          result += 'Buzz'
22        end
23      end
24      if result.empty?
25        input.to_s
26      else
27        result
28      end
29    end
30
31    def prints(range)
32      result = ''
33      range.each do |i|
34        result += fizz_buzzify( input: i ) + ' '
35      end
36      puts result
37    end
38  end
```

# Visual Design

## Principle 1:

# White Space

```
2 def fizz_buzzify(input)
3   result = ''
4
5   dup = input.dup
6   while dup % 5 == 0 do
7     result += 'Fizz'
8     dup = dup/5
9   end
10  input.to_s.each_char do |char|
11    if char.include?('5')
12      result += 'Fizz'
13    end
14  end
15  dup = input.dup
16  while dup % 7 == 0 do
17    result += 'Buzz'
18    dup = dup/7
19  end
20  input.to_s.each_char do |char|
21    if char.include?('7')
22      result += 'Buzz'
23    end
24  end
25
26  if result.empty?
27    input.to_s
28  else
29    result
30  end
31
32
33  def prints(range)
34    result = ''
35    range.each do |i|
36      result += fizz_buzzify( input(i) ) + ' '
37    end
38    puts result
39  end
```

# Visual Design

## Principle 1:

# White Space

```
2   def fizz_buzzify(input)
3     result = ''
4
5     dup = input.dup
6     while dup % 5 == 0 do
7       result += 'Fizz'
8       dup = dup/5
9     end
10    input.to_s.each_char do |char|
11      if char.include?('5')
12        result += 'Fizz'
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14    end
15
16    dup = input.dup
17    while dup % 7 == 0 do
18      result += 'Buzz'
19      dup = dup/7
20    end
21    input.to_s.each_char do |char|
22      if char.include?('7')
23        result += 'Buzz'
24      end
25    end
26
27    if result.empty?
28      input.to_s
29    else
30      result
31    end
32  end
```

# Visual Design

## Principle 2:

# Proximity

```
2  def fizz_buzzify(input)
3      result = ''
4
5      result = fizzify(input, result)
6      result = buzzify(input, result)
7
8      if result.empty?
9          input.to_s
10     else
11         result
12     end
13   end
14
15  def buzzify(input, result)
16      dup = input.dup
17      while dup % 7 == 0 do
18          result += 'Buzz'
19          dup -= dup/7
20      end
21      input.to_s.each_char do |char|
22          if char.include?('7')
23              result += 'Buzz'
24          end
25      end
26      result
27  end
28
29  def fizzify(input, result)
30      dup = input.dup
31      while dup % 5 == 0 do
32          result += 'Fizz'
33          dup -= dup/5
34      end
```

# Visual Design Principle 3:

## Alignment

```
2  def fizz_buzzify(input)
3      result = ''
4
5      dup = input.dup
6      while dup % 5 == 0 do
7          result += 'Fizz'
8          dup = dup/5
9      end
10
11     dup = input.dup
12     while dup % 7 == 0 do
13         result += 'Buzz'
14         dup = dup/7
15     end
16
17     input.to_s.each_char do |char|
18         if char.include?('5')
19             result += 'Fizz'
20         end
21     end
22
23     input.to_s.each_char do |char|
24         if char.include?('7')
25             result += 'Buzz'
26         end
27     end
28
29     if result.empty?
30         input.to_s
31     else
32         result
33     end
34 end
```

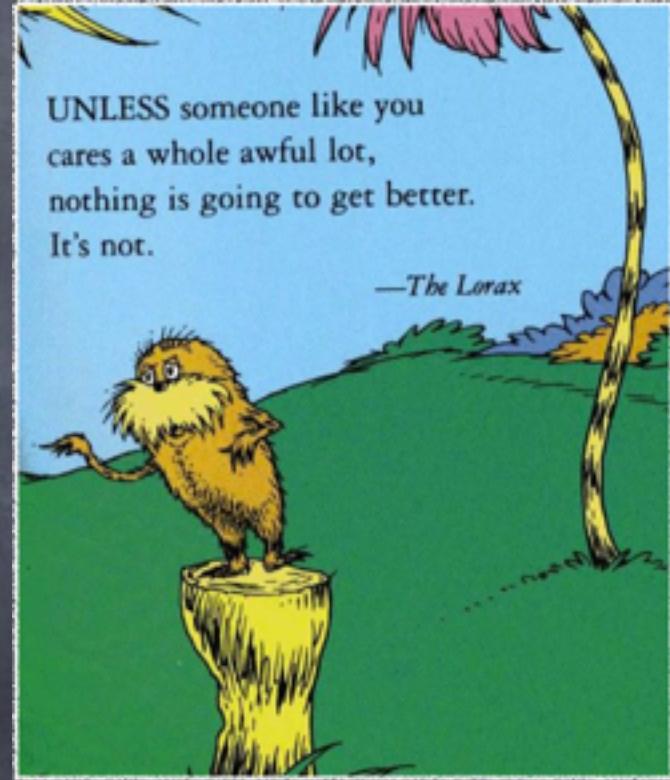


# RULE #3

## Practice by Refactoring

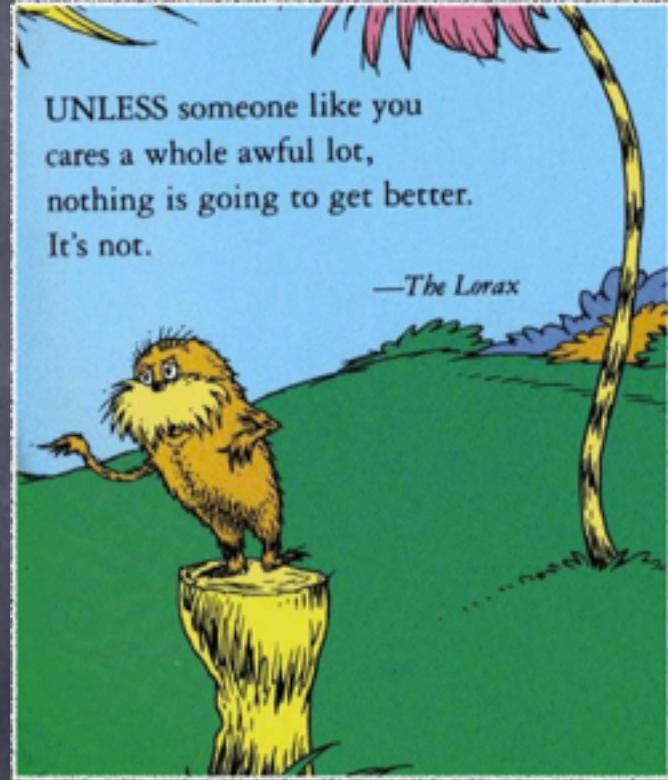
# 1. Rearrange the code

Comparing



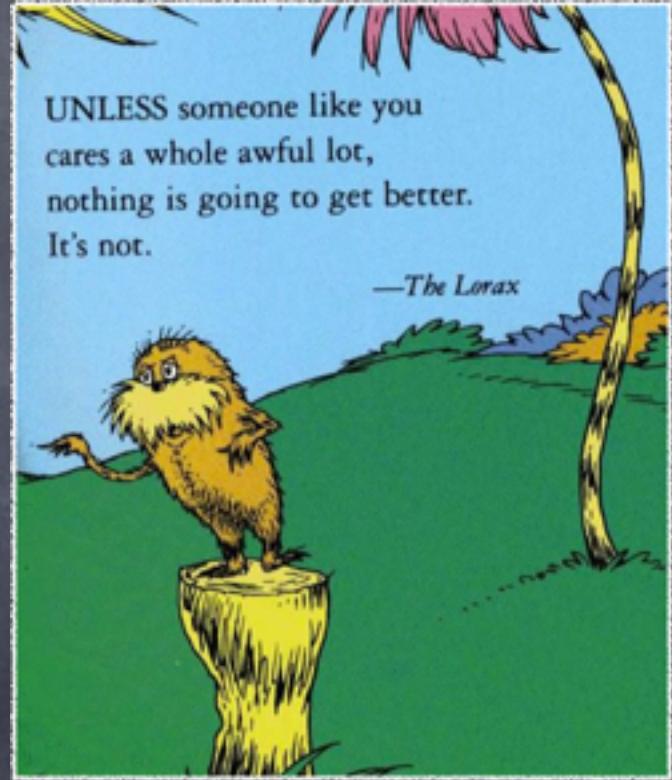
# 2. Extract to Methods

Naming



# 3. Abstract to Objects

Domain Concepts



```
class FizzBuzz
  def get_string(integer)
    rule1 = DivisibleRule.new( output_text 'Fizz', divisor 5)
    rule2 = ContainsRule.new( output_text 'Fizz', substring '5')

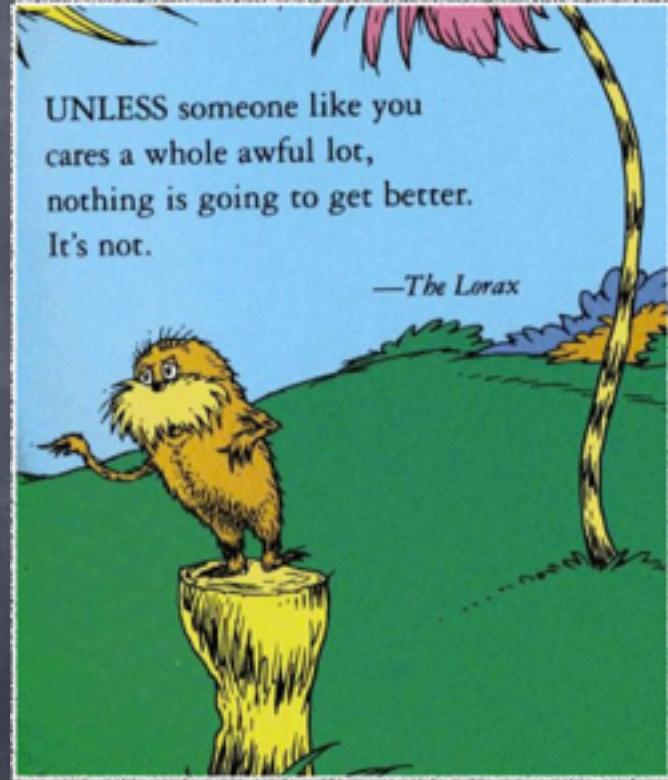
    rule3 = DivisibleRule.new( output_text 'Buzz', divisor 7)
    rule4 = ContainsRule.new( output_text 'Buzz', substring '7')

    result = rule1.get_string(integer) +
      rule2.get_string(integer) +
      rule3.get_string(integer) +
      rule4.get_string(integer)

    if result.empty?
      integer.to_s
    else
      result
    end
  end
end
```

# 4. Stash and Redo again

And continue



- It is okay that I don't know where I am going

- It is okay that I don't know where I am going
- Believe in small but safe steps

- It is okay that I don't know where I am going
- Believe in small but safe steps
- Naming and tests are important

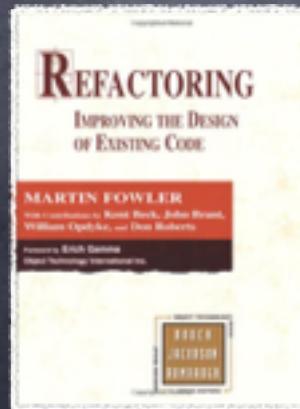
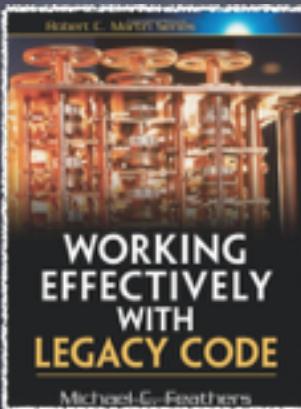
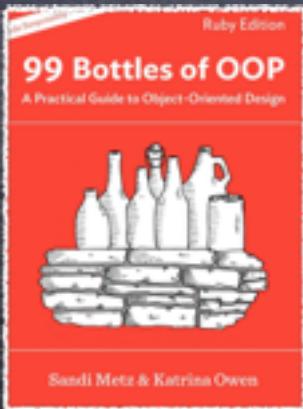
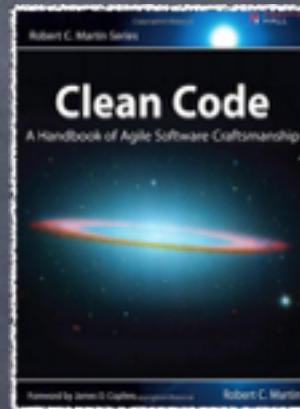
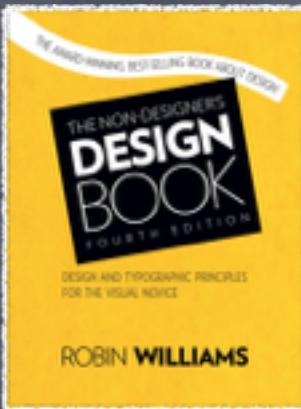
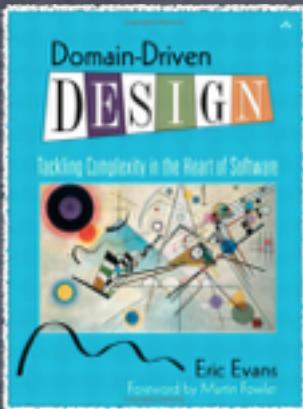
- It is okay that I don't know where I am going
- Believe in small but safe steps
- Naming and tests are important
- "Do I understand it better?"

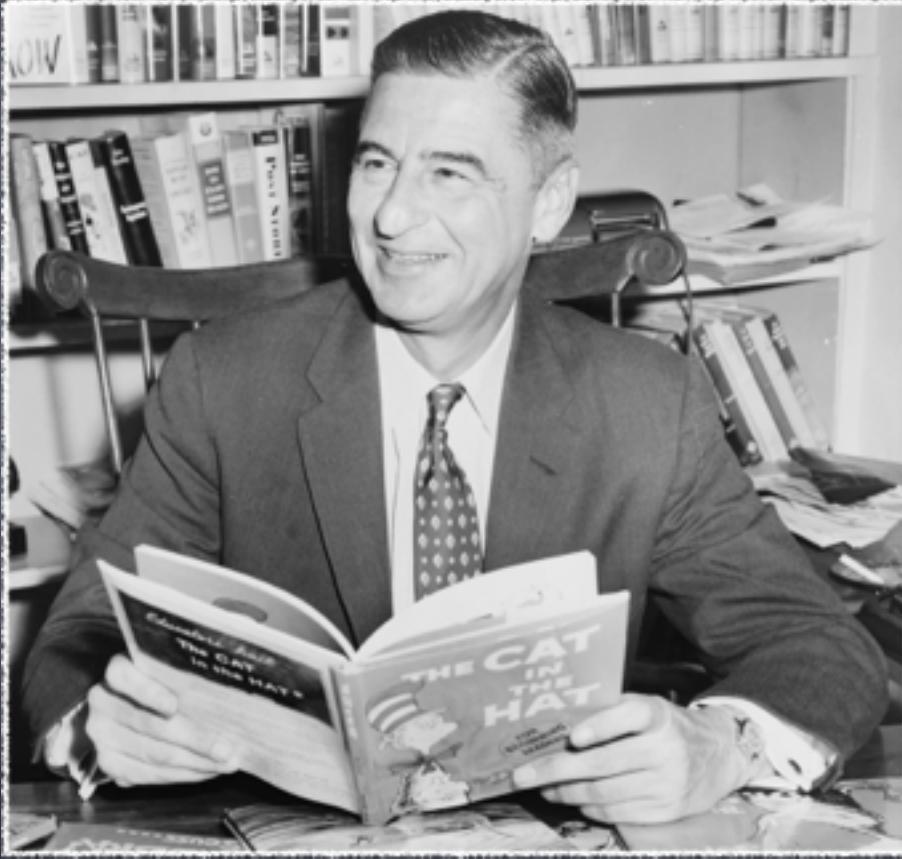


## Summary

1. Know Your Audience
  - Use Ubiquitous language in Your Code
2. Apply Visual Design Principles
  - Identify Code Smells
3. Practice Often
  - Refactor Refactor Refactor

# Books





And Everything ever written by Dr Seuss!

# Links and References

- Ubiquitous Language Image
  - <https://www.infoq.com/articles/ddd-contextmapping>
- Fizz-Buzz Game
  - <http://www.dr-mikes-math-games-for-kids.com/fizz-buzz.html>
  - Source code: <https://github.com/bpan02/fizzbuzz>
- Talks that inspired me
  - Succession: A Refactoring Story by Katrina Owen
  - All the Little Things by Sandi Metz
  - Livable Code by Sarah Mei

# Thank You

Bonnie Pan @bonniepan02



Write/Speak/Code 2018

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The New York Times  
NYTIMES.COM

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#wsc2018conf | @writespeakcode

# Rebecca Holzschuh



# If You Build It, They Will Come

A guide to building successful open source projects

Rebecca Holzschuh,  
Senior Software Engineer, New Relic



# Who is this talk for?

Anyone who wants to build their own open source project.

Open source is good for me. I will fully embrace it.  
Open source is good for me. I will fully embrace it.  
Open source is good for me. I will fully embrace it.  
Open source is good for me. I will fully embrace it.  
Open source is good for me. I will fully embrace it.  
Open source is good for me. I will fully embrace it.





# What is Open Source?

Software

Available for anyone to see, contribute to, and use

Solves problems



# How to Choose a Problem

Ruby on Rails

React-highlight-words

Leftpad

The dog is chasing the cat. Or perhaps they're just playing?



# Licenses





# What do engineers look for?

Presence

Maintenance

Contributors

Documentation

# Presence



Star

2,326

TOTAL DOWNLOADS

**32,847,899**

FOR THIS VERSION

**491,521**

# Maintenance - Updates





Dan Abramov  
@dan\_abramov

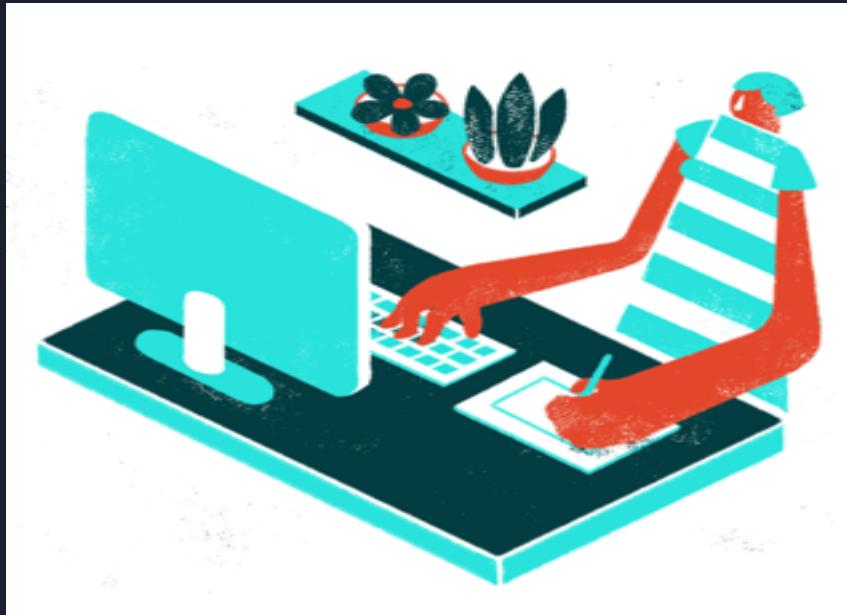
Follow



1:31 PM - 14 May 2018

# Maintenance - Tests

# People will read your code



# Contributors



# Documentation





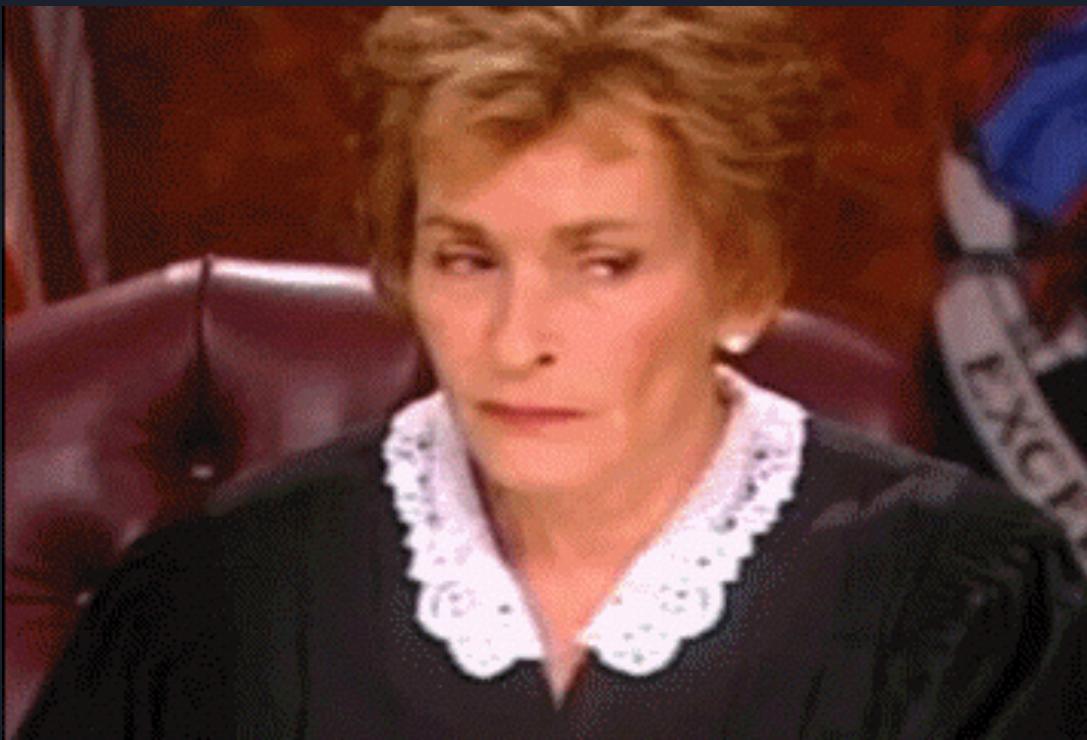
# Documentation

How to use the project

How to troubleshoot

How to contribute to the project

# Legal



# Security



# Publish your code!





# Key Takeaways

Make sure you're solving a real problem

Focus on what engineers look for

Take the time to do it right



# Bibliography

<https://readthedocs.org/>

<https://opensource.guide/starting-a-project/>

<https://opensource.org>

<https://english.stackexchange.com/questions/75600/open-source-as-a-verb>

[https://twitter.com/dan\\_abramov/status/996125966882738176](https://twitter.com/dan_abramov/status/996125966882738176)

<https://giphy.com/>

<https://blog.kentcdodds.com/how-getting-into-open-source-has-been-awesome-for-me-8480cd756a80>

# The End



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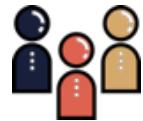
wework

#wsc2018conf | @writespeakcode



# Code / Ethics Topic

#wsc2018conf | @writespeakcode



**When has your work had an ethical impact? Did you anticipate it?**

- Have a meaningful conversation with our sponsors - they are why we are here today.

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Jasmin  
Rubinovitz

#wsc2018conf | @writespeakcode

# *STORYTELLING WITH FAKE LOVE*

*Jasmin Rubinovitz*

---

---

FAKE LOVE - THE NEW YORK TIMES

---

WRITE / SPEAK / CODE NYC 2018

---



WHAT IS FAKE LOVE

A woman with long blonde hair and glasses is looking towards the right side of the frame. She is wearing a dark top with a red patterned collar. In the background, a large, distorted face of a man is projected onto a wall or screen, appearing in shades of green and blue. The overall atmosphere is mysterious and dramatic.

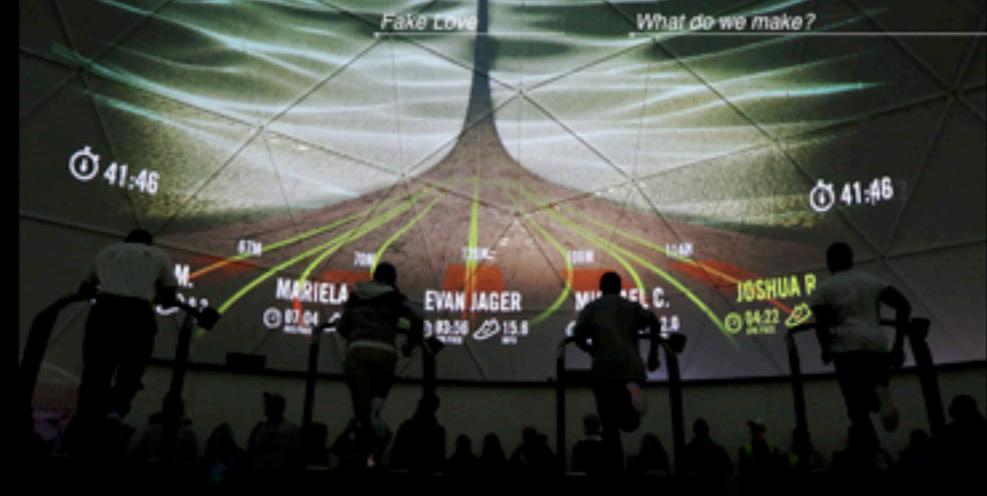
*FAKE LOVE IS  
AN AGENCY  
OF STRATEGIC  
THINKERS &  
DOERS*

---

# WHAT DO WE MAKE

---

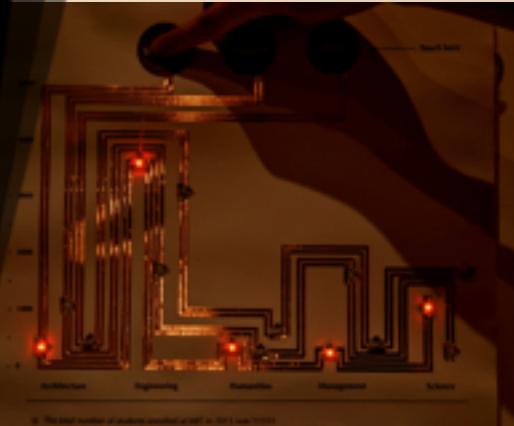
- Mixed Reality
- Sensors
- Projections and Projection Mapping
- Image Processing
- Real-time Generative Visuals



HOW DID I GET HERE

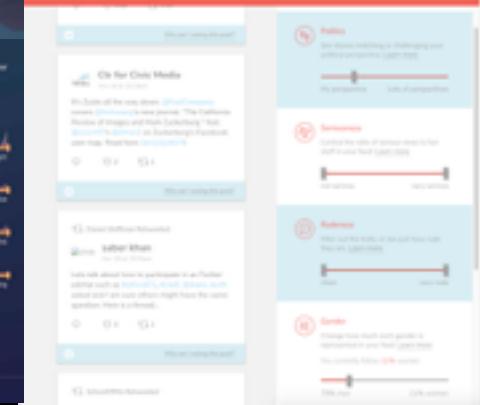
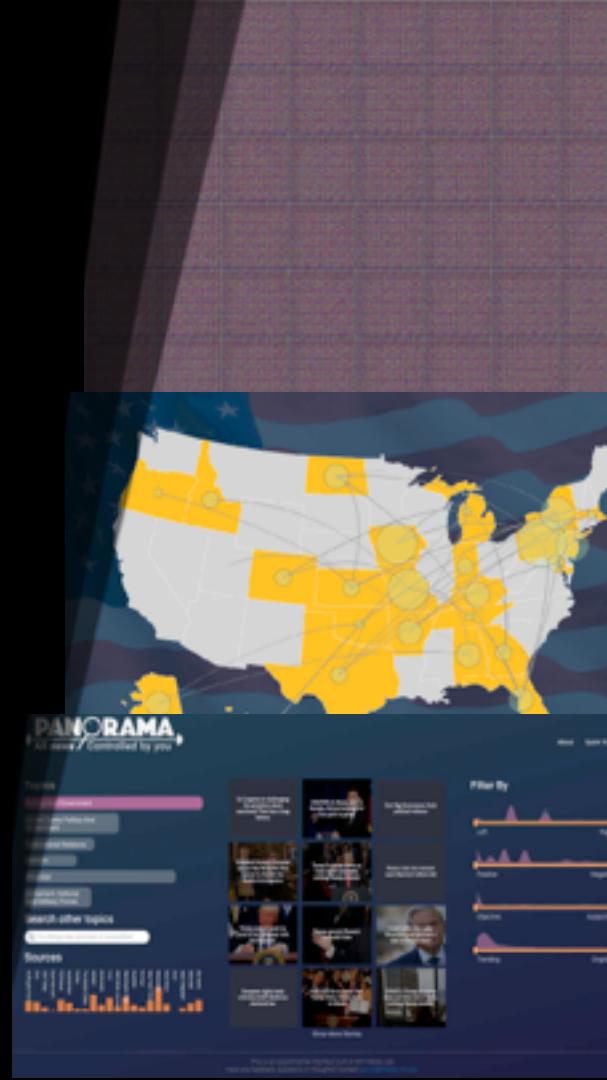
# *TRADITIONAL CRAFT + TECHNOLOGY AND NEW MEDIA*

---



# EXPERIMENTING AND LEARNING NEW TOOLS

---



# TECH FOR EXPERIENTIAL - *BEHIND THE SCENES*

# LIFE OF AN EXPERIENTIAL PROJECT

NOKIA BELL LABS  
Permanent Museum Installation

# ASSIGNMENT

---

Creating a new interaction at the museum to better communicate Bell Labs

Groundbreaking historical research that remade the world as we knew it and its contemporary, future-focused research today

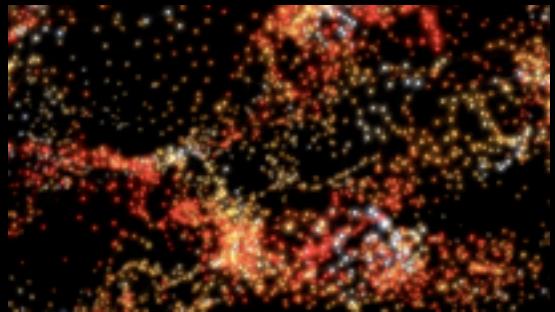
Some of the most influential technology ever made

Showcase authentic physical objects with relevant historical information



# PROCESS

Design → Prototype → Review → Iterate ⇒ Deploy



## *CHALLENGES & LESSONS LEARNED*

---

Permanent installation tricks

Prepare for a gracious failure

User centered, technology hidden

Networking as showmanship

The advantages of limitations



The New York Times Tech Org

# *Technology at The New York Times*

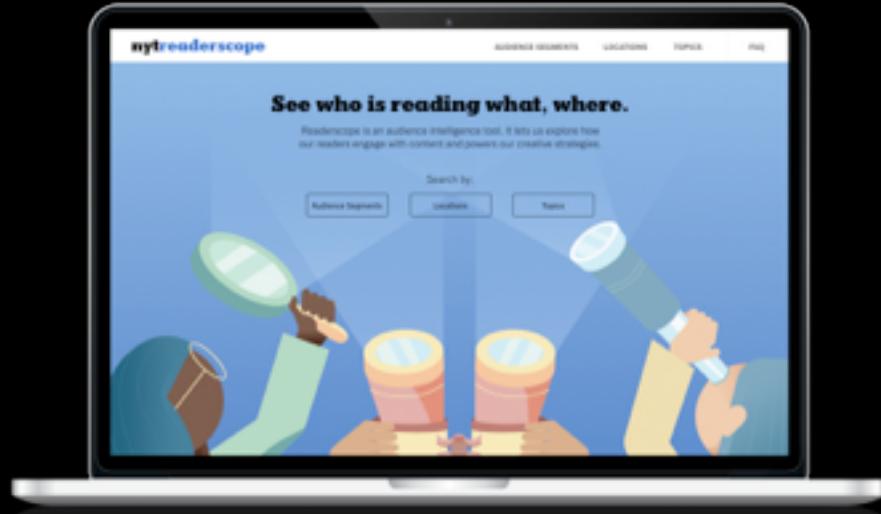
At the cross-section of on-the-ground, expertly-reported, independent journalism and the most successful digital news subscription business in the world.

Full of opportunities to work in pretty much every area of technology/development, including in front-end, back-end and data engineering, advertising technology, project management, information security and more.

Is hiring right now!

- Engineering Manager for our CMS team
- For several front-end roles across our Cooking, Parenting, Multimedia, Customer Product and more
- Data Engineers

[nytco.com/careers](http://nytco.com/careers)  
Stop by our booth if you want to learn more!



# THANKS!



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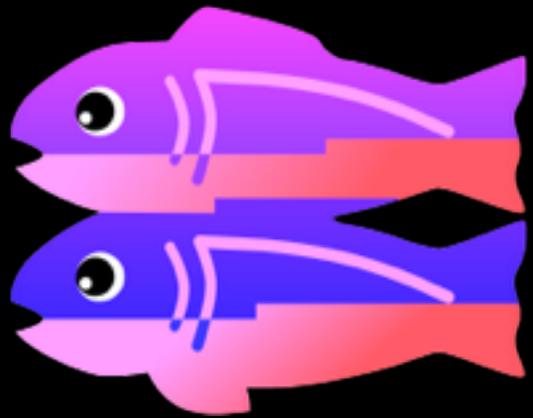
Women Techmakers



wework

#wsc2018conf | @writespeakcode

# Jenn Schiffer



- **August 3, 2018 - today**

- **April 22, 2013 - gave two-weeks notice**
- *August 3, 2018 - today*

- **April 19, 2013 - receive job offer at NBA**
- *April 22, 2013 - gave two-weeks notice*
- *August 3, 2018 - today*

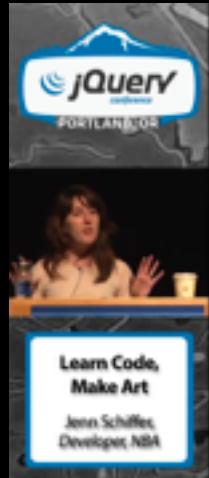
- *April 19, 2013 - receive job offer at NBA*
- **April 20-21, 2013 - uncontrollable sobbing and naan**
- *April 22, 2013 - gave two-weeks notice*
- *August 3, 2018 - today*



- *April 19, 2013 - receive job offer at NBA*
- *April 20-21, 2013 - uncontrollable sobbing and naan*
- *April 22, 2013 - gave two-weeks notice*
- **May 9, 2013 - first day of work at NBA**
- *August 3, 2018 - today*



- **April 4, 2013 - jQuery Portland talk accepted**
- *April 19, 2013 - receive job offer at NBA*
- *April 20-21, 2013 - uncontrollable sobbing and naan*
- *April 22, 2013 - gave two-weeks notice*
- *May 9, 2013 - first day of work at NBA*
- *August 3, 2018 - today*



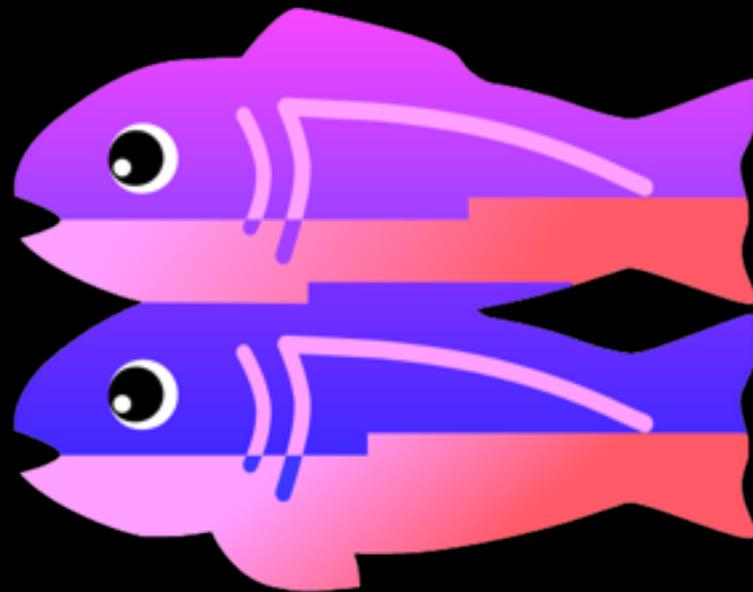
WHATEVER.  
*I'm an ARTIST.*  
**JUST LET ME  
BE ME.**





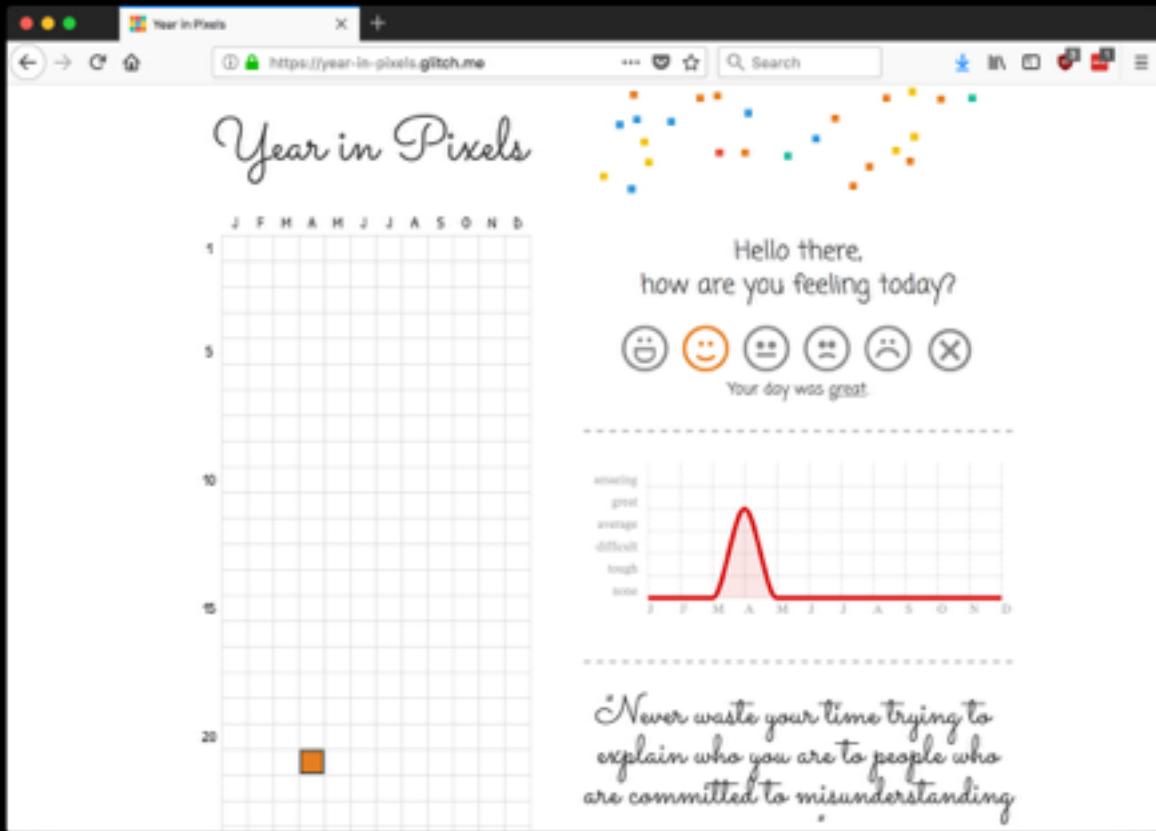




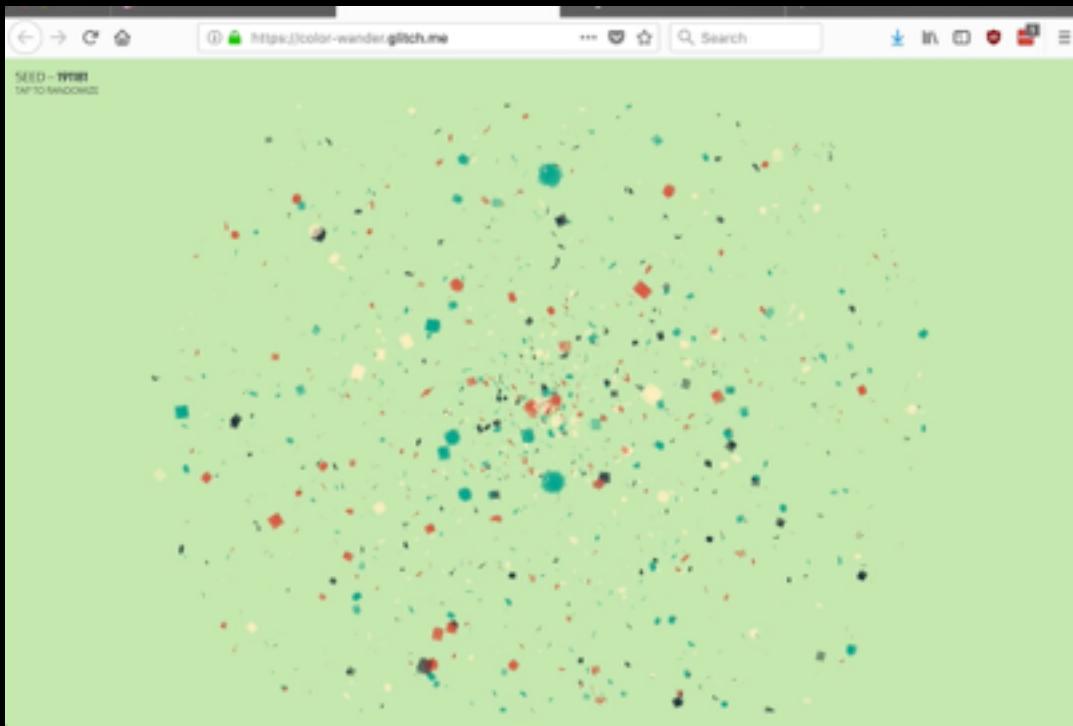


glitch.com

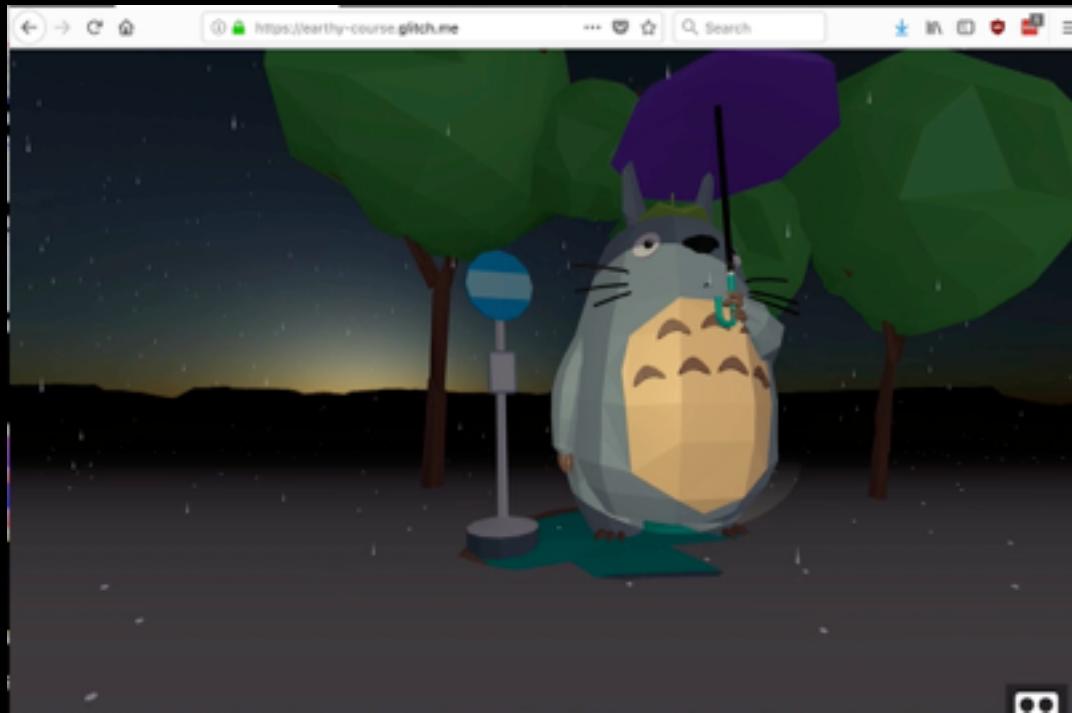




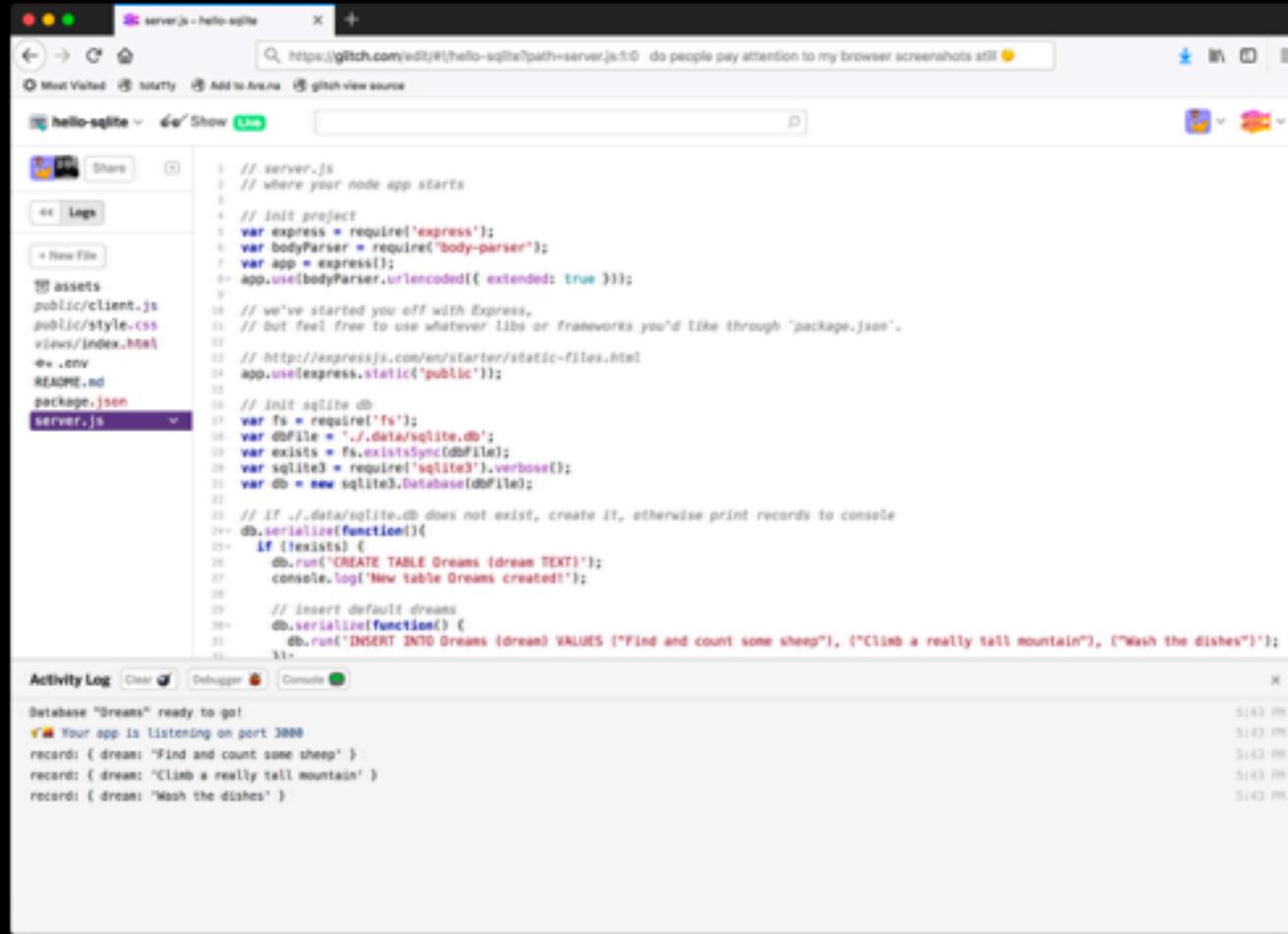
year-in-pixels.glitch.me



**color-wander.glitch.me**



**earthy-course.glitch.me**



Glitch

https://glitch.com remember neopets and geocities? they were fun and colorful. so is glitch imho

Must Visited totatty Add to Avana glitch view source

bots, apps, users Sign in

Check These Out

**J O B**

I am a phone, media player, camera, basically your whole life

okay here is a job

oh no

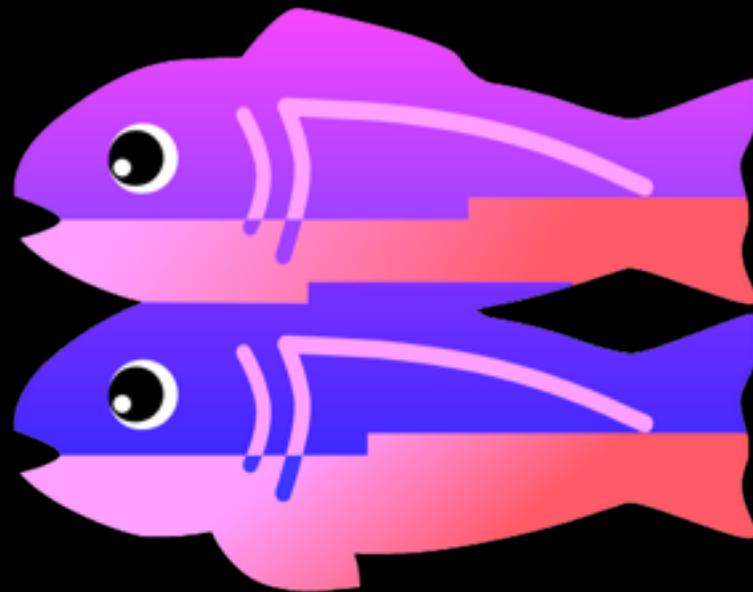
webcomicname-mashup Code App Both

Made by

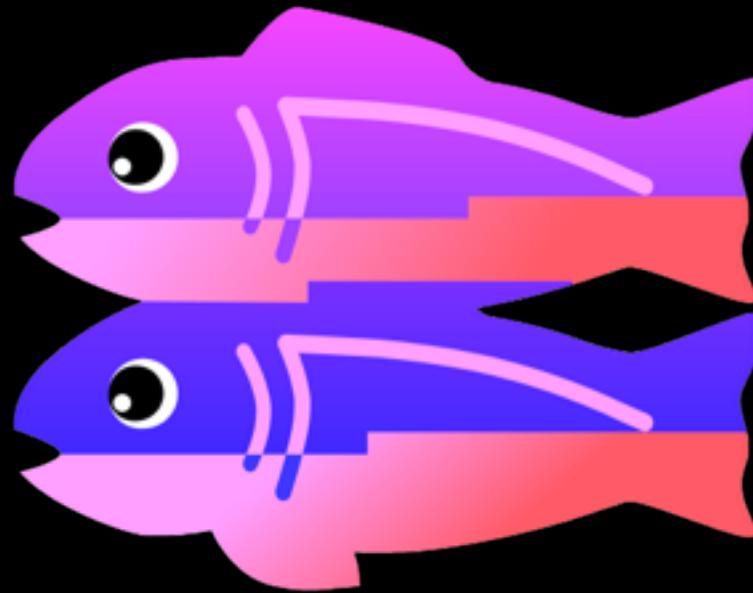
'faithful-violet' by mapk

'emoji-garden' by Monica Dinculescu

'molnar-x-ashby' by Sean Catangui



glitch.com



[glitch.com/forteams](https://glitch.com/forteams)

- *April 4, 2013 - jQuery Portland talk accepted*
- *April 19, 2013 - receive job offer at NBA*
- *April 20-21, 2013 - uncontrollable sobbing and naan*
- *April 22, 2013 - gave two-weeks notice*
- *May 9, 2013 - first day of work at NBA*
- **August 3, 2018 - today**

*THE INTERSECTION OF*  
**ART & CODE**







If I'm at a software conference, I'm a software professional. I'd probably walk out of any session where some Millennial hipster presenter started preaching to me about ethics.

jenn schiffer @jennschiffer

i gotta say - if you're teaching coding workshops at conferences and "not" working ethics and the like into your curriculum, you're not using your platform correctly in this the year 2017. and if it "has nothing to do" with the code you're not designing curriculum correctly!

Show this thread

It was only after ~25 mins that I realized that this is the second most useless JS talk I've listened to since this is the same speaker who gave that completely useless "jortSort" talk... A joke talk might be great for  
[Read more](#)



1



REPLY

your "art"



to me ▾

it sucks



Jenn Schiffer <jjschiffer@gmail.com>

5:49 PM (2 minutes ago)

to [REDACTED] ▾

incorrect!

On Sun, Oct 22, 2017 at 5:45 PM, [REDACTED] <[REDACTED]> wrote:  
| it sucks

Courts Are Using AI to Sentence Criminals. That Must Stop Now

A graphic of orange paper chain people holding hands in a circle, symbolizing unity or a community.





**“real” is a fake idea**

# Art & Technology, Great But Also Bad

A talk by [Jenn Schiffer](#)

# **CONSENSUAL EPHEMERALITY**

**or: everything dies, but it should  
be on our own terms**





“Due to the obsolescence of software programmes, hardware and network infrastructures, many network-based artworks have disappeared. How can we give them an afterlife?”

*-The Afterlives of the Network-based Artworks  
(<http://bit.ly/afterlives-artwork>)*

Emmanuel Guez, Morgane Stricot, Lionel Broye and  
Stéphane Bizet

## The afterlives of network-based artworks

### Keywords

media archaeology; network-based art conservation; internet art; telematic art; dead media; second original

In the spring of 2015, the Avignon-based 'Preservation & Art—Média Archaeology Lab' (PAMAL)<sup>1</sup> organised an exhibition entitled *Une archéologie des média*.<sup>2</sup> Upon entering the space, the visitor would discover a piece of internet art from 1997, *Les Secrets*, by Nicolas Frespech. At the time of its creation the work had been bought by the-then Languedoc-Roussillon Regional Contemporary Art Fund (FRAC), and consisted in asking web users to share their secrets via a website. However, when a secret is distributed across the internet, it is no longer a secret and this revelation marked the beginning of what became a politicised news story in the south of France with the right-wing *Front National* deeming the work 'immoral'. Given the party's position in the Languedoc-Roussillon regional council, the website was shut down in 2001 and the company hosting the website deleted the data without creating a backup file. Thus visitors to the 2015 exhibition who expected to see Frespech's work were instead directed to a web page with the message: 'NOT FOUND. The requested URL/secret was not found on this server'.<sup>3</sup>

What remains of this artwork today? There is not much left of *Les Secrets* insofar as a website's conservation implies at least the preservation of the domain name and some kind of data retention—in this case the original website is no longer available and, more importantly, it cannot receive any new secrets. The 2015 PAMAL exhibition presented screenshots gathered by *Internet Archive* web crawlers at the time of censorship (including articles, blogs etc.),<sup>4</sup> and this served as documentation to give both an overview of the website and how its database had been shut down. Such a story doesn't only amount to political censorship, it also reveals the extent to which an institutional structure was incapable of understanding internet

<sup>1</sup> The PAMAL (Preservation & Art—Media Archaeology Lab) is a research unit, founded in 2013 and based at the Ecole Supérieure d'Art d'Avignon (France). <http://pamal.org> (accessed 15 January 2017).

<sup>2</sup> 'Une archéologie des média' ('An Archeology of the Media'), Seconde Nature, Festival d'Art Numérique, Aix-en-Provence, France, 19 May–27 June 2015. <http://pamaLorg/wiki/DISCOVERY> (accessed 15 January 2017).

<sup>3</sup> See <http://www.fraclr.org/secrets> (accessed 15 January 2017).

<sup>4</sup> The *Internet Archive Wayback Machine* began in 1996 when the *Internet Archive* first began archiving the web using the web crawling service *Archive-It* built on the web crawler *Heritrix*. For the *Wayback Machine* see <https://archive.org>

## **Not Found**

The requested URL/secrets was not found  
on this server

---













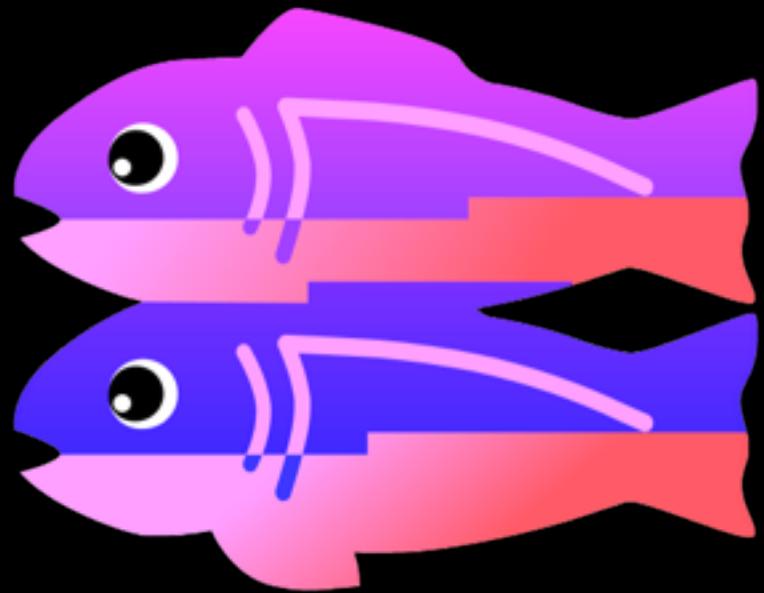
Vine



jenn  
Jul 16, 2014

my vlog about the importance  
of mathematics in computer  
science





A screenshot of a web browser window displaying the 'Mapzen Alternatives' page. The browser has a dark theme with red, yellow, and green window control buttons. The address bar shows the URL <https://mapzen.com/blog/migration>. The main content area features a large, bold title 'Mapzen Alternatives'. Below the title, a paragraph of text informs the reader that Mapzen will cease operations at the end of January 2018, and its hosted APIs and all related support and services will turn off on February 1, 2018. A second paragraph explains that users have two options: to switch to another hosted API or to run their own servers using open-source projects. A section titled 'Alternate services and hosted APIs' lists several alternatives, including Nextzen, Mapbox, OpenMapTiles, Thunderforest, and MAPCAT. At the bottom of the page, a red banner contains the text 'Mapzen is shutting down its services.' and a 'READ MORE' button.

# Mapzen Alternatives

Mapzen will cease operations at the end of January 2018, and its hosted APIs and all related support and services will turn off on February 1, 2018.

Your two options are to switch to another hosted API that offers similar functionality, or to run your own servers with the open-source projects that powered Mapzen services. We list several options below to make this as easy as possible.

## Alternate services and hosted APIs

### Mapzen Vector Tiles and Cartography

For basemaps and vector tiles, you may want to consider:

- [Nextzen](#) (A long-term support version of our own Tilezen)
- [Mapbox](#)
- [OpenMapTiles](#)
- [Thunderforest](#)
- [MAPCAT](#)

Mapzen is shutting down its services.

[READ MORE](#)

# **OWNERSHIP**

**or: stop stealing my shit**



Scene from Marvel's **Black Panther**

















Shop Art Theft X

shoparttheft.tumblr.com

Follow shoparttheft tumblr

Search shoparttheft

feel-thief

# Shop Art Theft

Support independent artists by purchasing their work, as (allegedly) stolen by major retailers.

ABOUT SUBMIT A NEW CASE ARCHIVE

**STOP, THIEF!**

MINE SHINY APPLE STUDIO SUMMER 2017

THEIRS MODCLOTH APRIL 2018

NOT COOL. MODCLOTH!

**ORIGINAL**  
KRISTIN CARDER

CREATED SEPTEMBER 10, 2016

**COPY**  
IMAGICAL THUNDER PRESS

SPOTTED OCTOBER 10, 2017

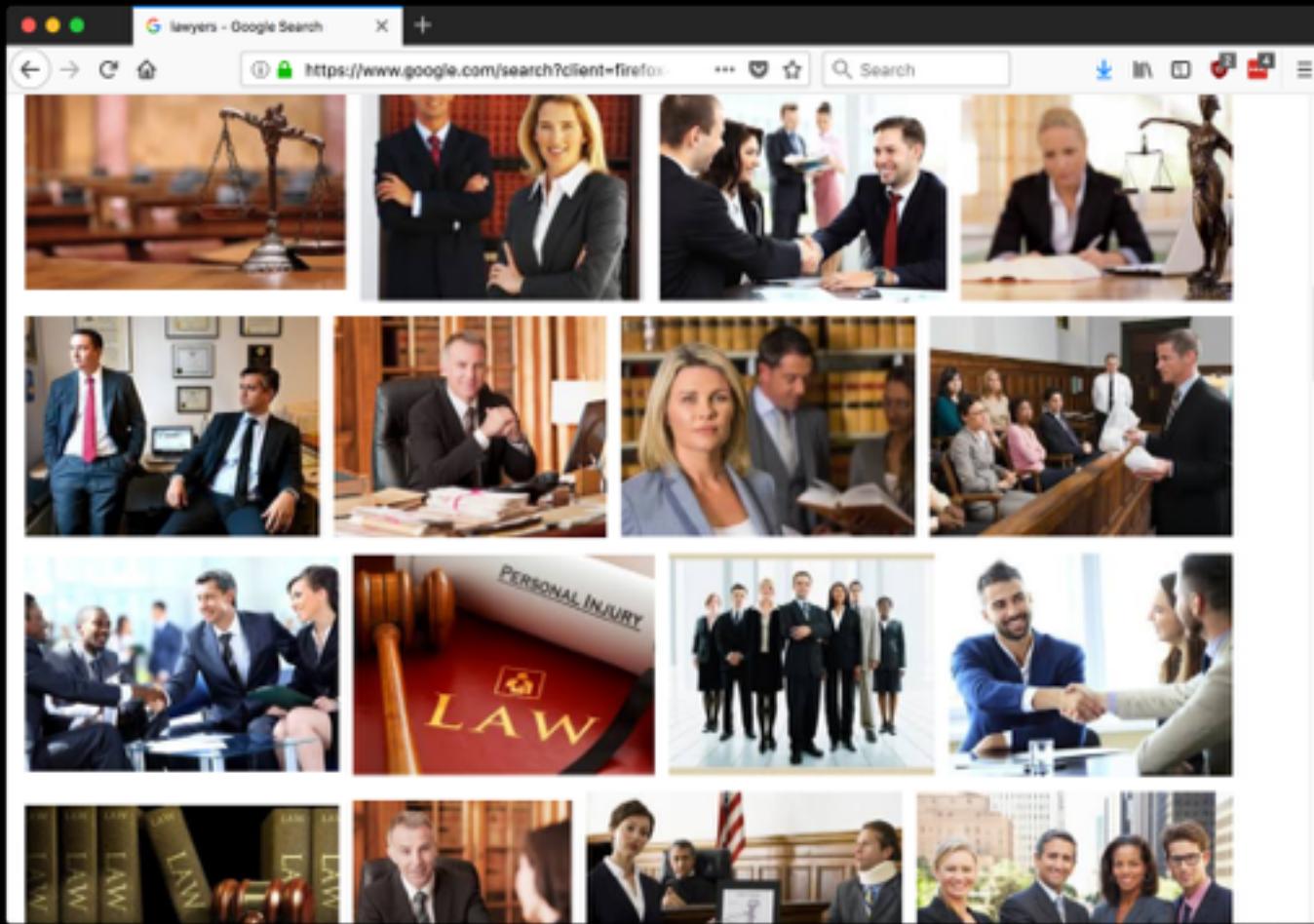
A major pin vendor based in LA is selling this for the original creator and both claim it is a "simple coincidence"

KATY PERRY  
Chained To The Rhythm - Official Music Video

Chained To The Rhythm - HQ  
Katy Perry

Chained To The Rhythm - HQ  
Katy Perry





Federal Circuit sends Oracle v. Google back for third trial

By Sarah Jeong | @sarahjeong | Mar 27, 2018, 4:04pm EDT

SHARE



Waymo-Uber trial: who blinked

THE VERGE TECH SCIENCE CULTURE CARS REVIEWS MORE

MOBILE POLICY & LAW THE WORLD

# Who blinked first in Waymo v. Uber?

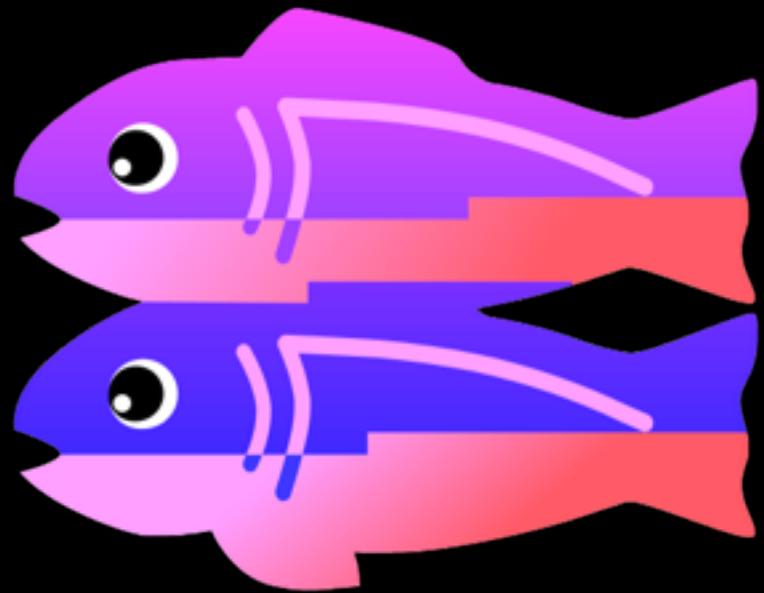
Why Uber and Waymo settled its high-stakes case

By Sarah Jeong | @sarahjeong | Feb 9, 2018, 5:25pm EST

f t SHARE

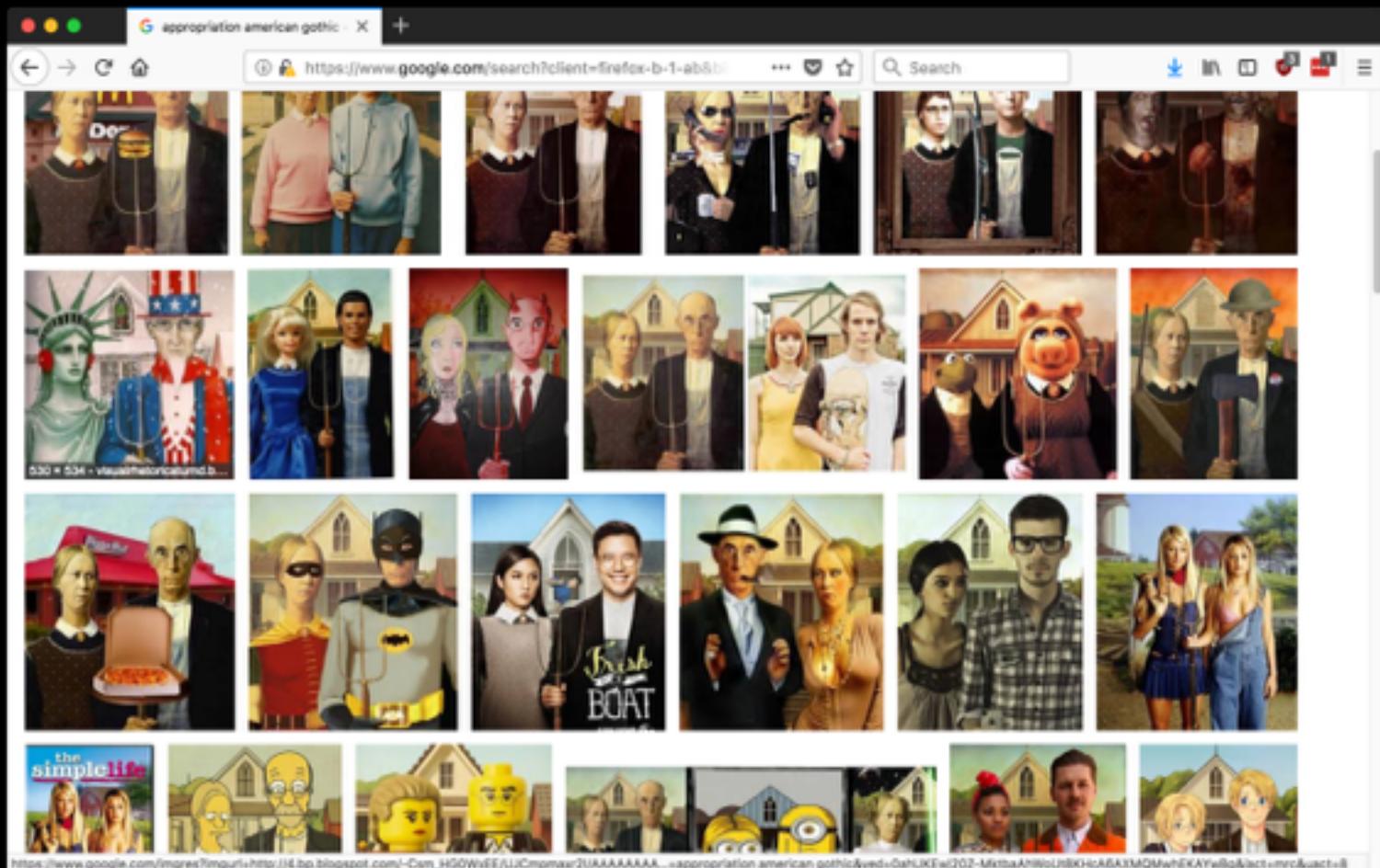
A white line-art illustration on a red background depicting two self-driving cars. One car is labeled with a large 'U' and the other with a large 'W'. They are shown in a head-on collision, with their front bumpers touching. The background features faint white lines suggesting a road or grid pattern.





# **APPROPRIATION**

**or: should i even be telling this  
story on stage today**



[https://www.google.com/imgres?imgurl=http://114.ip.blogspot.com/-Cem\\_HGOWiEE/U2Cmpmzau2UAAAAAAK...&hl=en&tbo=q&tq=appropriation+american+gothic&ved=0CjQ2-UlktaAHl0LnsK0-hcaSAxNQUnwHEKAYllg&sa=X&sqi=0&dur=8](https://www.google.com/imgres?imgurl=http://114.ip.blogspot.com/-Cem_HGOWiEE/U2Cmpmzau2UAAAAAAK...&hl=en&tbo=q&tq=appropriation+american+gothic&ved=0CjQ2-UlktaAHl0LnsK0-hcaSAxNQUnwHEKAYllg&sa=X&sqi=0&dur=8)





Scott W. H. Young  
@hei\_scott

[Follow](#)

At the Whitney, a protest against Dana Schutz' painting of Emmett Till: "She has nothing to say to the Black community about Black trauma."



RETWEETS  
484

LIKES  
878



1:44 PM - 17 Mar 2017







“We did some homework – speaking to New Yorkers, branding people, and even running some survey work asking about the name and any potential offense it might cause. But it’s clear that we may not have been asking the right questions of the right people.”

*-Paul McDonald, co-founder and CEO of Bodega*

# **REPRESENTATION**

**or: data doesn't harm people,  
people harm people**

“You painted a naked woman because you enjoyed looking at her, put a mirror in her hand and you called the painting ‘Vanity,’ thus morally condemning the woman whose nakedness you had depicted for your own pleasure.”

*-Ways of Seeing, by John Berger*



# **Do women have to be naked to get into the Met. Museum?**

**Less than 5% of the *artists* in the Modern Art Sections are women, but 85% of the *nudes* are female.**

**GUERRILLA GIRLS** Box 1058 Cooper Sta. NY NY 10276  
CONSCIENCE OF THE ART WORLD













“Contemporary art is a fundamentally white supremacist institution despite all our nice friends.”

*-Hannah Black, artist*





Tiffany Diane  
@tiffanydian

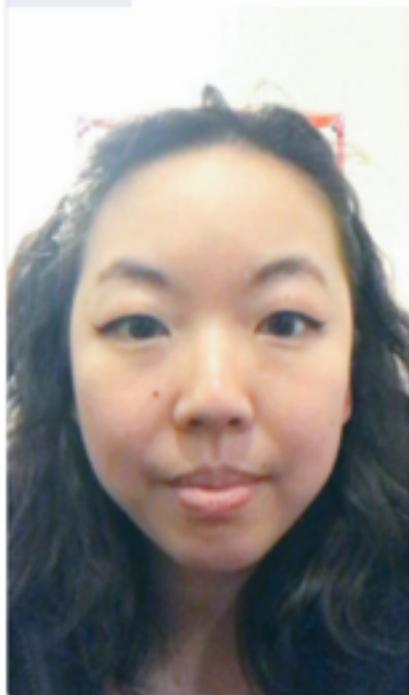
Follow

This @Google app feels racist but also there doesn't seem to be enough Asian art represented in their database.

36%  
match

Portrait of a Civil Official of Wuxia...

Unknown



Virginia Museum of Fine Arts  
Google Arts & Culture



Tiffany Diane  
@tiffanydian

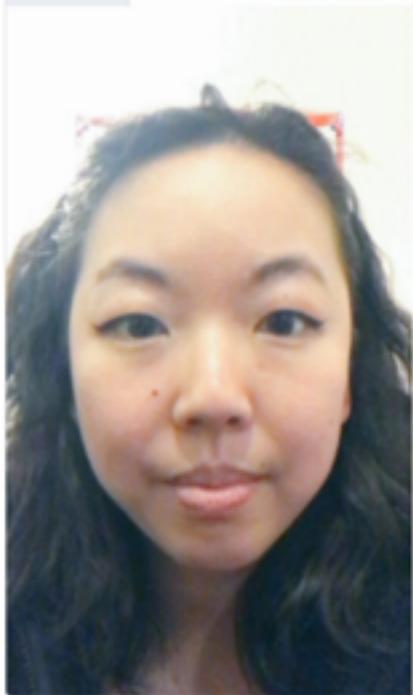
Follow

This @Google app feels racist but also there doesn't seem to be enough Asian art represented in their database.

36%  
match

Portrait of a Civil Official of Wuxia...

Unknown



Virginia Museum of Fine Arts  
Google Arts & Culture



Pitchaya  
@pitchaya

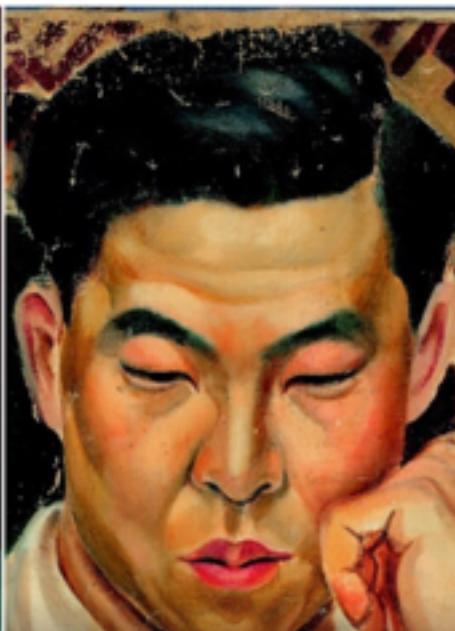
Follow

If you do that whole Google Arts & Culture app portrait comparison as an Asian male, it gives you one of 5-6 portraits that hardly resembles you but, hey, looks Asian enough. CC: @angryasianman

44%  
match

Reading Friend

Lee Chong-woo (1899-1981)





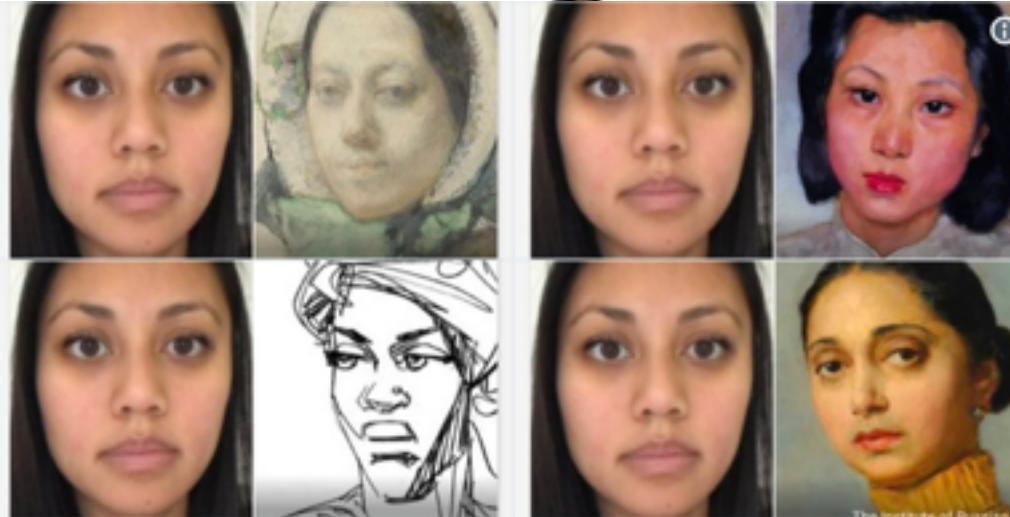
Tiffany Diane  
@tiffanydian

Follow

This @Google app f  
doesn't seem to be  
in their database.

36%  
match

Portrait of  
Unknown



Alyanna Tenorio  
@alyannaoreo

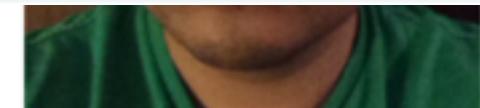


Asymmetrical me matched to white, Asian, African, and Hispanic faces lol. Thanks, Google Arts and Culture

8:21 PM - Jan 15, 2018

49 See Alyanna Tenorio's other Tweets

Virginia Museum of Fine Arts  
Google Arts & Culture



Pitchaya  
@pitchaya

Follow

ts & Culture app portrait  
it gives you one of 5-6  
you but, hey, looks Asian

981)



Tiffany Diane  
@tiffanydian

TC

Follow

This @Google account doesn't seem to be in their database

36%  
match

Portrait  
Unknown

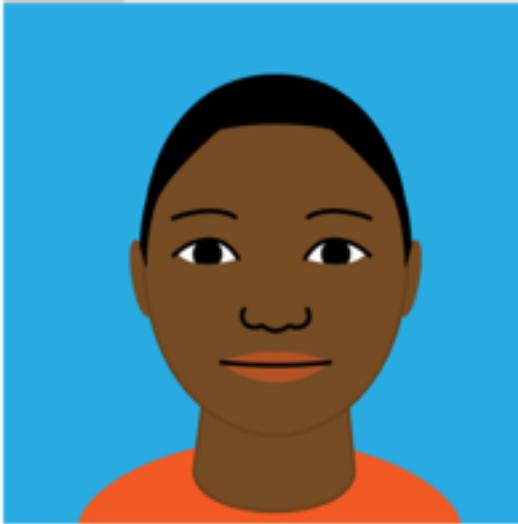


# Why inclusion in the Google Arts & Culture selfie feature matters

Catherine Shu @catherineshu Jan 21, 2018

Comment

0%  
match



Culture app portrait / yes you one of 5-6 but, hey, looks Asian





Tiffa  
@tiffa...

digg

Is Google's Arts And Culture App Racist?



SIGN IN

follow

This  
does  
in t

3  
m



Google Arts and Culture appears to have a skewed database. Google Arts and Culture

WE NEED A BIGGER PALETTE

# Is Google's Arts And Culture App Racist?



Benjamin Goggin Jan 16 2018, 7:58 AM



portrait  
of 5-6  
looks Asian

POLITICS

# *Sent to Prison by a Software Program's Secret Algorithms*

Sidebar

By ADAM LIPTAK MAY 1, 2017





BREAKING NEWS

LAMONTE MCINTYRE SET FREE











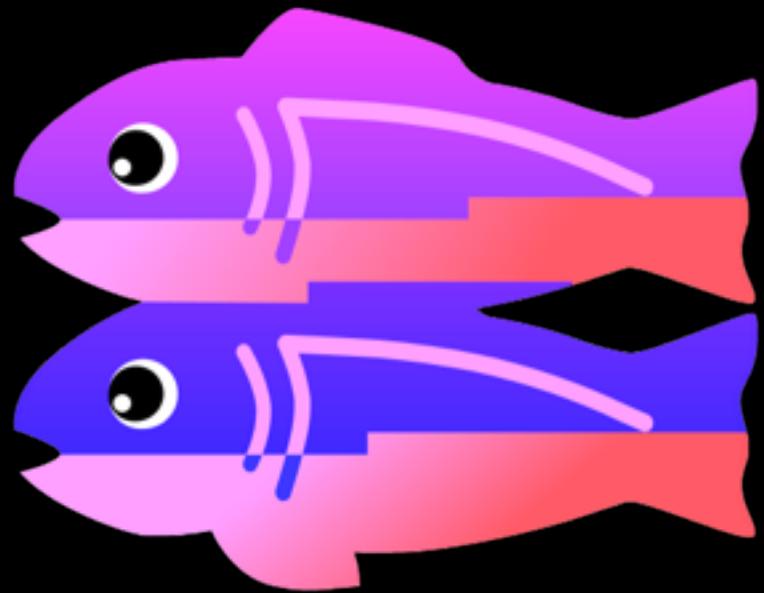




# **GATE-KEEPING**

**or: stop hogging the paints!**



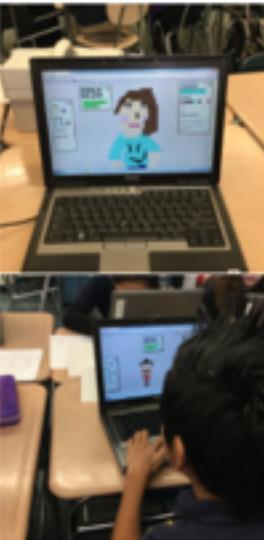




Sunset Spark ✨  
@SunsetSparkNYC

Follow

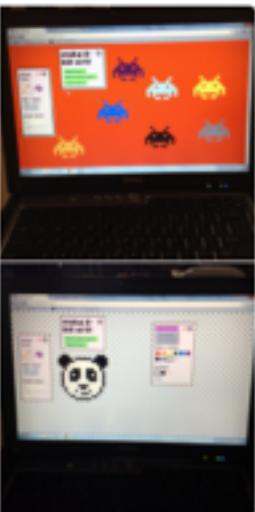
So many great #8bit self-portraits with  
@make8bitart in #gamedev class today.



Sunset Spark ✨  
@SunsetSparkNYC

Follow

Started 6th grade #gamedev class today.  
Kids took to [make8bitart.com](http://make8bitart.com) pretty quickly.  
Thx @jennschiffer

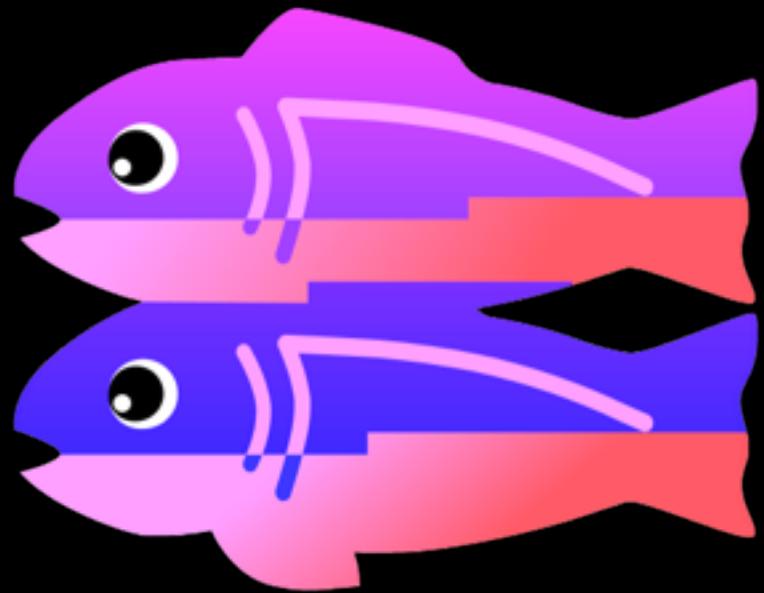


- don't stop talking about peter thiel wanting young peoples blood

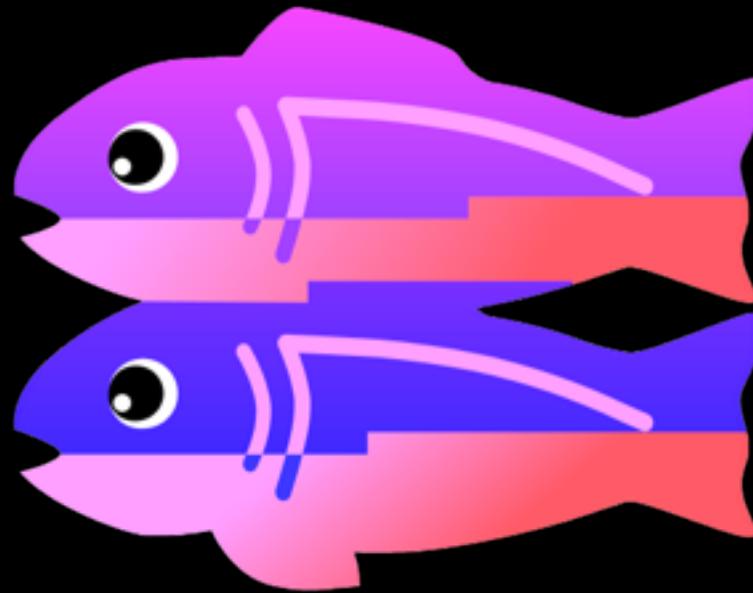


We can't all have access to young people's blood.









[glitch.com/forteams](https://glitch.com/forteams)



Dan Reeves  
@dnrvs

Following

I made a FaceDetector demo on @glitch  
[facemoji.glitch.me](https://facemoji.glitch.me)

- Chrome Canary
- chrome://flags/#enable-experimental-web-platform-features

Retweets

13

Likes

26



10:19 AM - 7 Jun 2017



4



13



26



Tweet your reply



Dan Reeves @dnrvs · Jun 7

Replying to [@dnrvs @glitch](#)

It's not at all terrifying

✨Facemoji





jennosaur js 🌱🌱🌱 @jennschiffer · Jun 7



✨Facemoji





jennosaurus js 🔒 🔒 🔒 @jennschiffer - Jun 7

i remixed @dnrvs's project and am adding my own face parts because i am a living nightmare and i'm not sorry



### Glitch

Combining automated deployment, instant hosting & collaborative editing, Glitch gets you straight to coding so you can build full-stack web apps, fast  
[glitch.com](http://glitch.com)

1

1

12

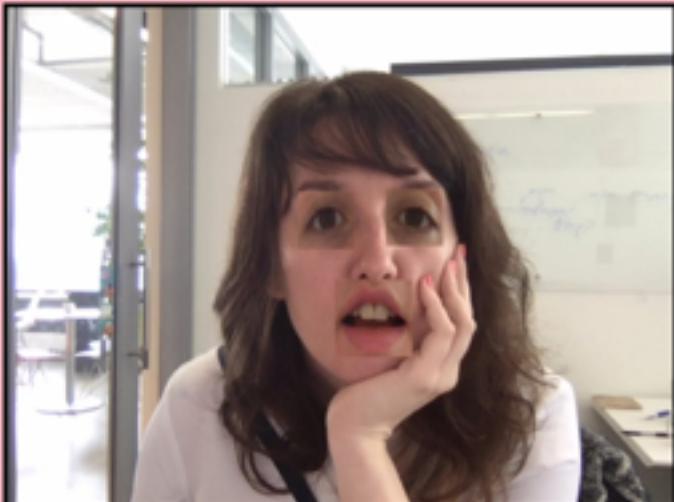
...



jennosaurus js 🔒 🔒 🔒 @jennschiffer - Jun 7

lmao

jennfacemoji✨

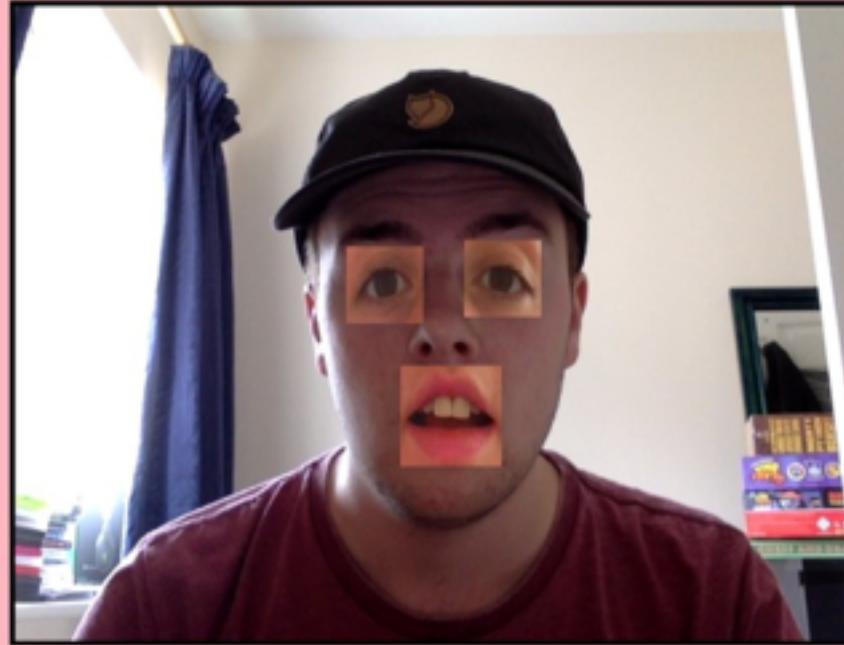




Dan Reeves @dnrvs · Jun 7  
uncanny



jennfacemoji✨



3

1

10



 Izzy Oji ✨ and 1 other liked

**blllien blllinsay** @blinsay · Jun 7

Replying to [@dnrvs](#) [@jennschiffer](#)

jennfacemoji✨



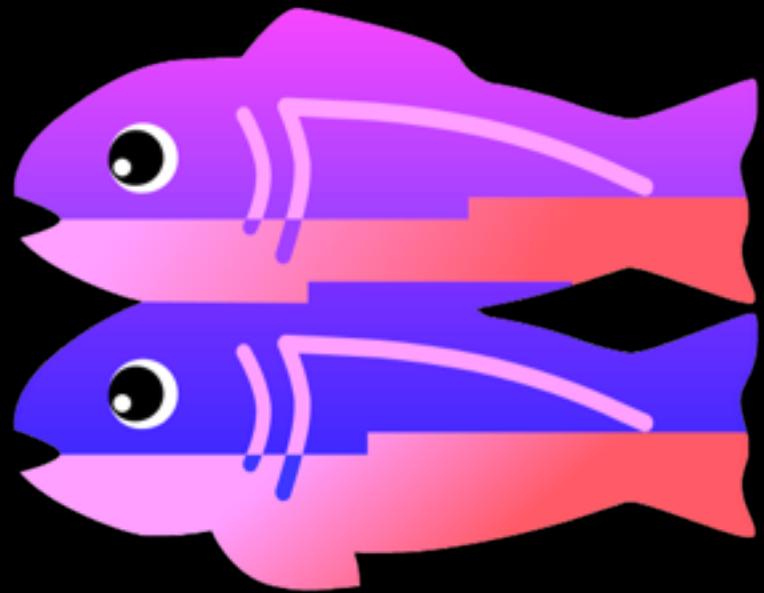
# From Project to Funded Startup: How Lorem Moved Fast with Glitch

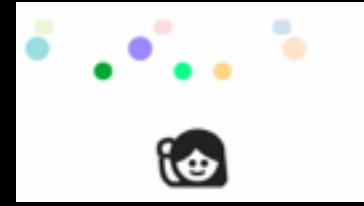
The story of Lorem's rise from a simple Glitch project to a fully launched app

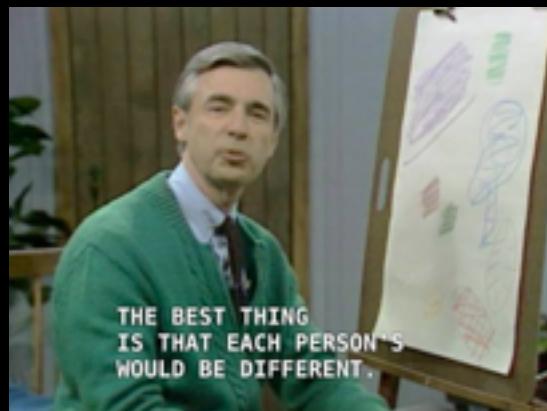
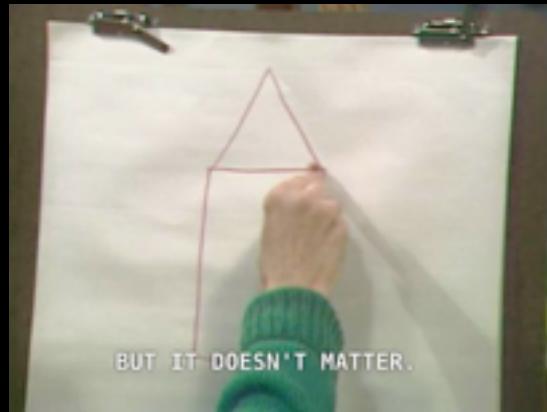


[medium.com/glitch](https://medium.com/glitch)

- **April 4, 2013 - jQuery Portland talk accepted**
- **April 19, 2013 - receive job offer at NBA**
- **April 20-21, 2013 - uncontrollable sobbing and naan**
- **April 22, 2013 - gave two-weeks notice**
- **May 9, 2013 - first day of work at NBA**
- *August 3, 2018 - today*







*“Fame is a four-letter word; and like tape or zoom or face or pain or life or love, what ultimately matters is what we do with it.”*

*-Mr. Rogers*

# **THANK YOU**

**use glitch.com**

**follow @jennschiffer**

**surf jennmoney.biz**

**be ethical**

# Submit to Raffle

<http://bit.ly/wsc2018-raffle>

## Saturday Attendee Talks

- 
- 
- 
-

# Chapter Organizers Summit

Meet in the sponsor area!



#wsc2018conf | @writespeakcode

Write/Speak/Code 2018

Speak Your Truth



Google Pivotal

The New York Times  
NYTIMES.COM

MailChimp  
zipline



splunk>



ALLEN INSTITUTE  
for ARTIFICIAL INTELLIGENCE

Movable Ink

xo group/



Women Techmakers



wework

#wsc2018conf | @writespeakcode