

# Defying Bloomberg

Coal to Code



MinedMinds.org

**Marvin Laucher**  
**Amanda Laucher**

# Mined Minds

Non-profit bringing  
programming  
opportunities to rural  
communities in  
Appalachia

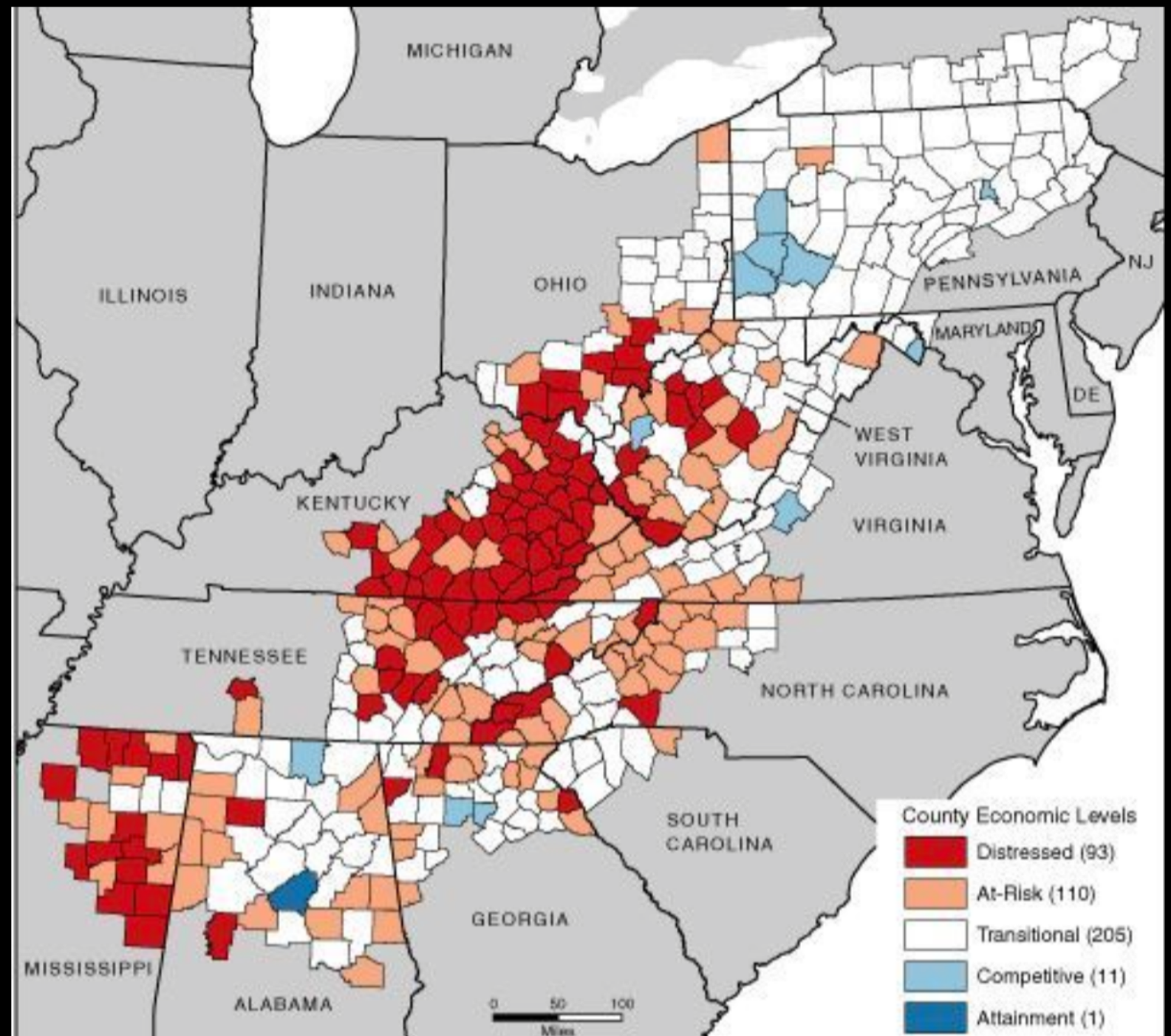
Consultancy employing  
Appalachian software  
developers





Up to 94% of  
coal jobs have  
been lost  
between 2011 &  
2016

For every coal  
mining job lost 5  
other jobs are  
affected

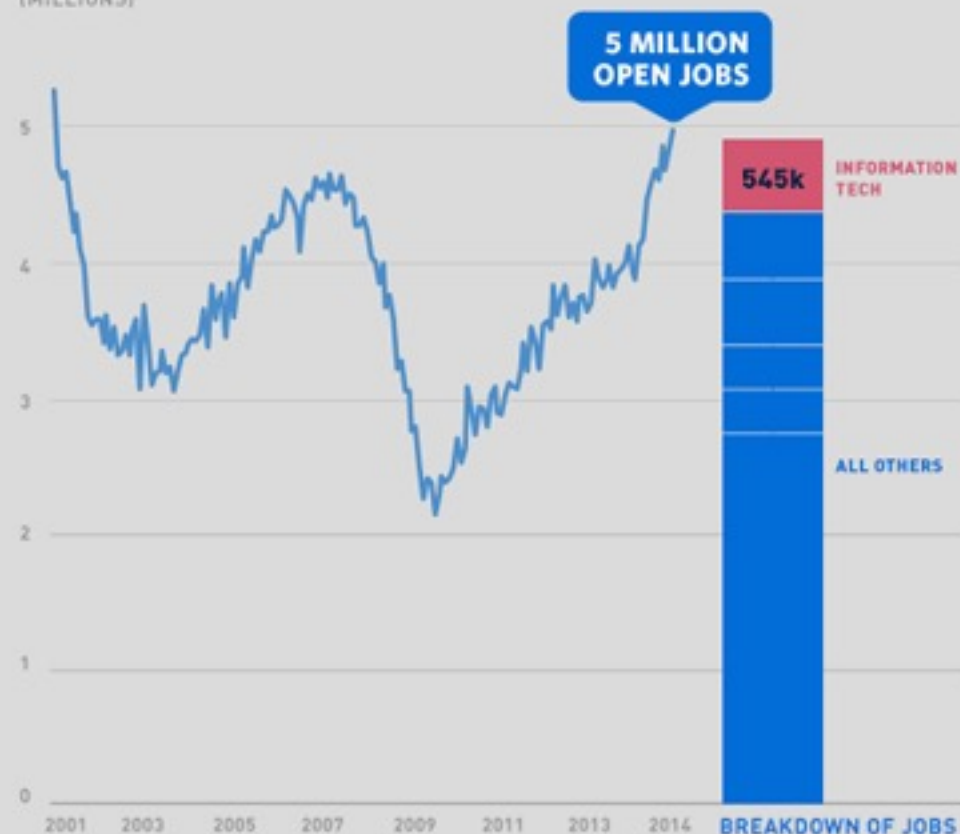


Meanwhile in tech...

## AMERICA HAS MORE OPEN JOBS TODAY THAN AT ANY POINT SINCE 2001

Over half a million are well-paying jobs in information technology, more than any other major occupation.

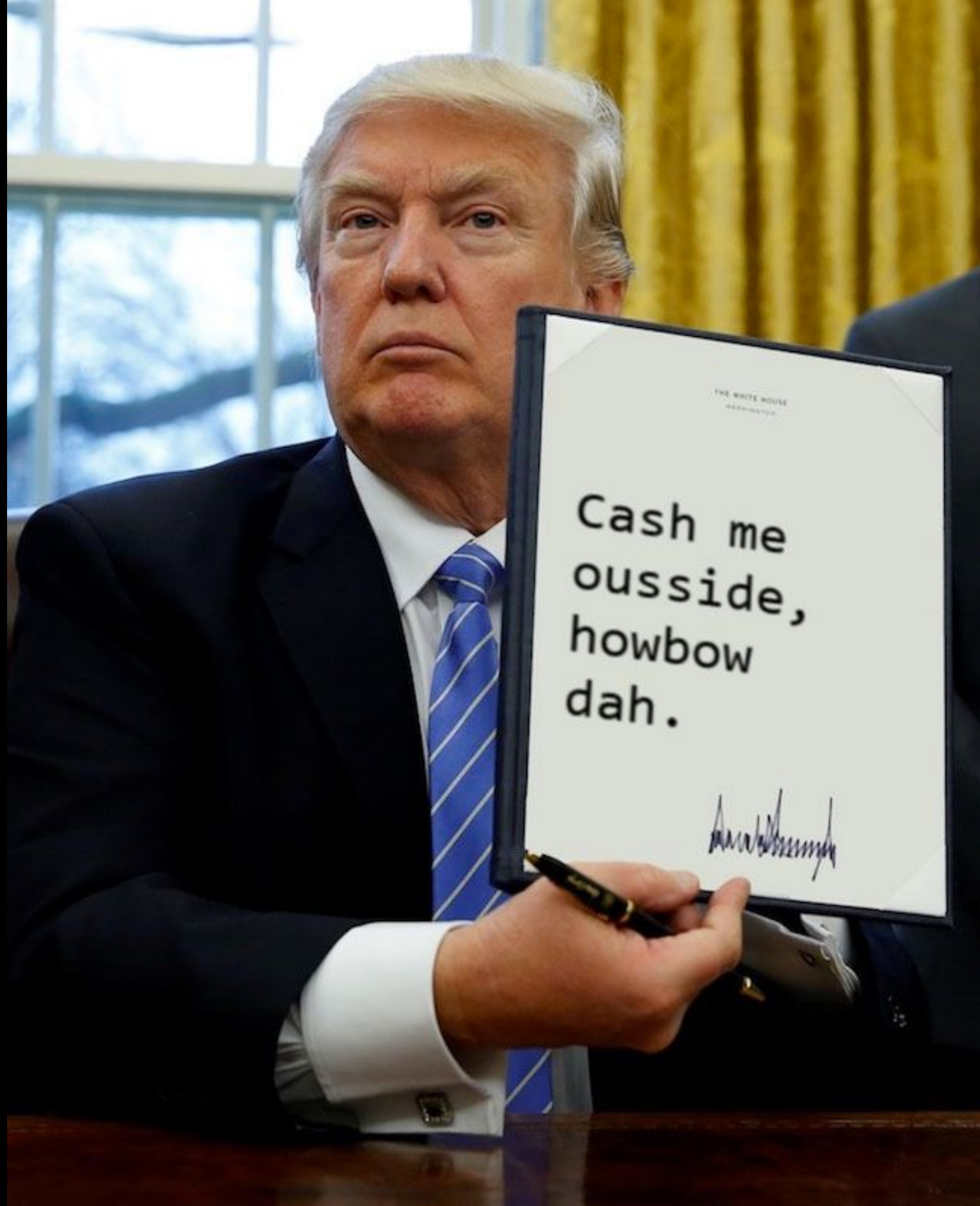
OPEN JOBS  
(MILLIONS)



SOURCE: BLS FOR TOTAL OPENINGS; BURNING GLASS FOR OCCUPATIONS

“The U.S. Department of Labor has said 1.4 million unfilled software development — software development alone — 1.4 million unfilled jobs by 2020. So the skills gap is real,” Richard Burke, CEO of Chicago-based Envoy Global



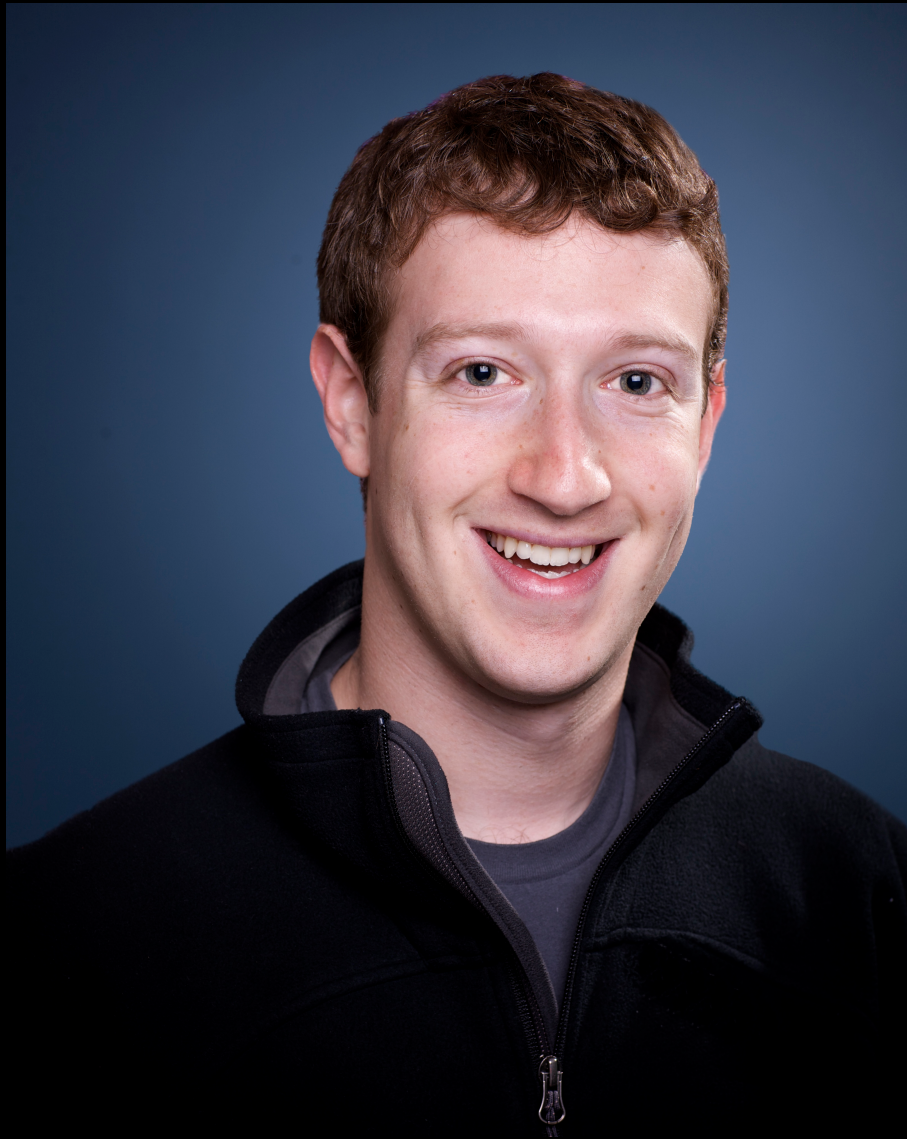


Cash me  
ousside,  
howbow  
dah.

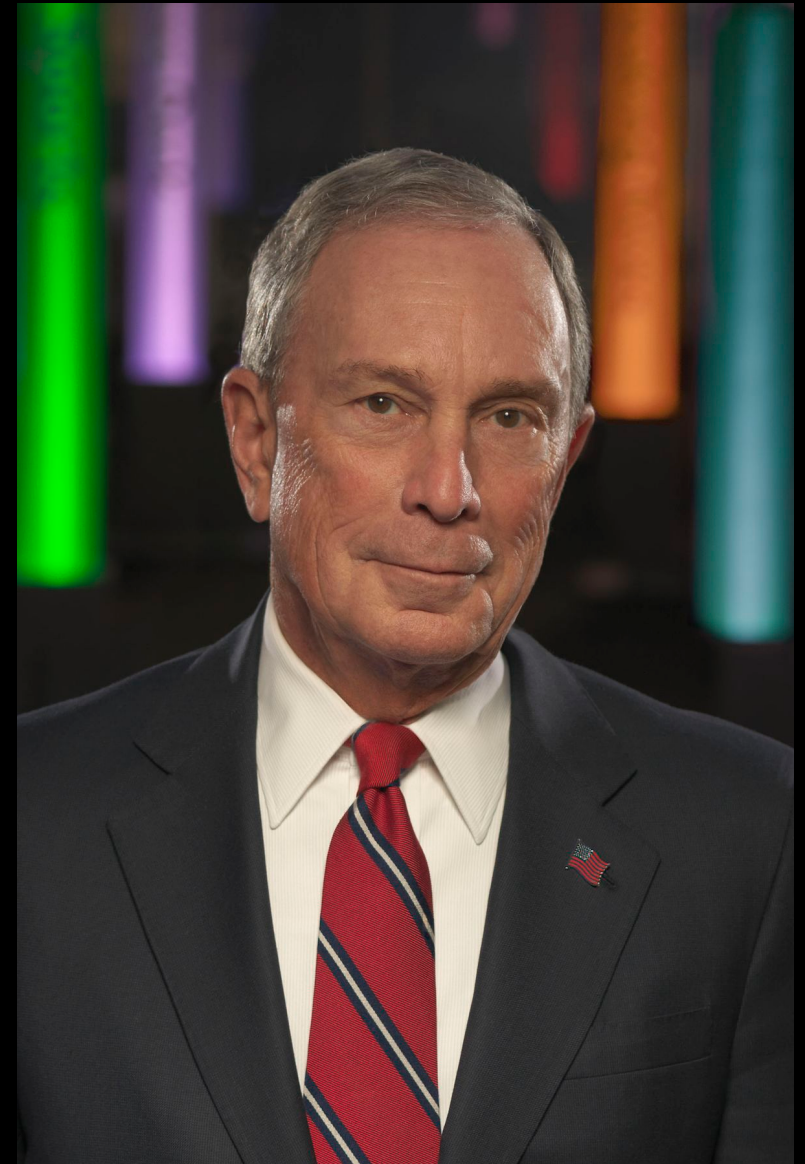
*Donald Trump*

THE WHITE HOUSE  
WASHINGTON

# Economics



vs



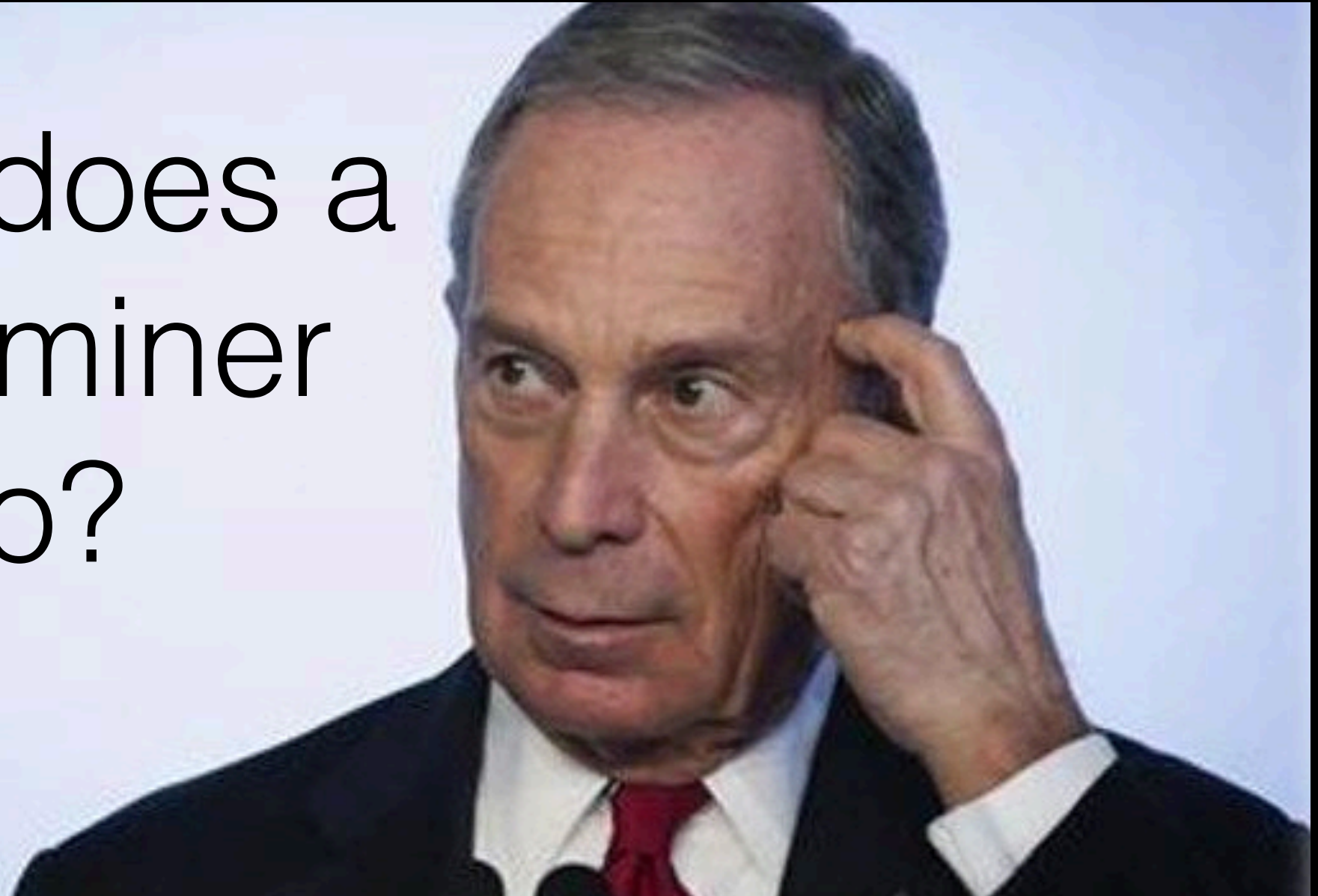


IT ALWAYS SEEMS  
IMPOSSIBLE  
UNTIL IT'S DONE.

~ Nelson Mandela



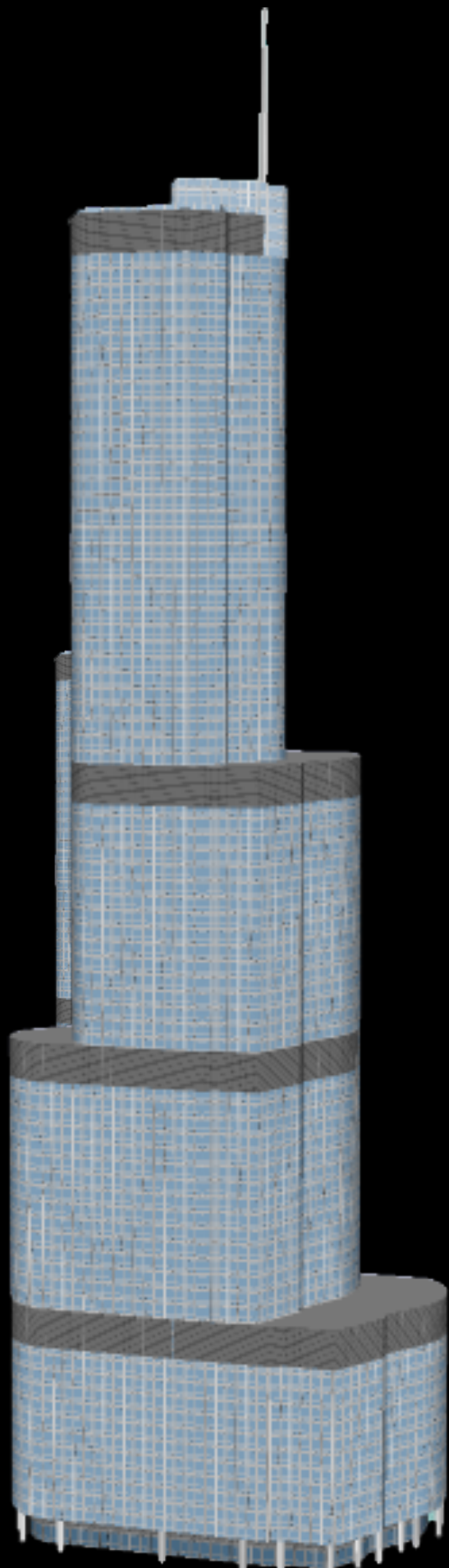
What does a  
coal miner  
do?







o p v oulb for a  
res  
ip on co



To power Chicago  
for 1 year requires  
about  
70 Trump towers full  
of coal











i'm lovin' it®





“AI, robots and automation could replace humans in the food services industry "by the mid [2020s].”

-Greg Creed,  
Yum Brands CEO

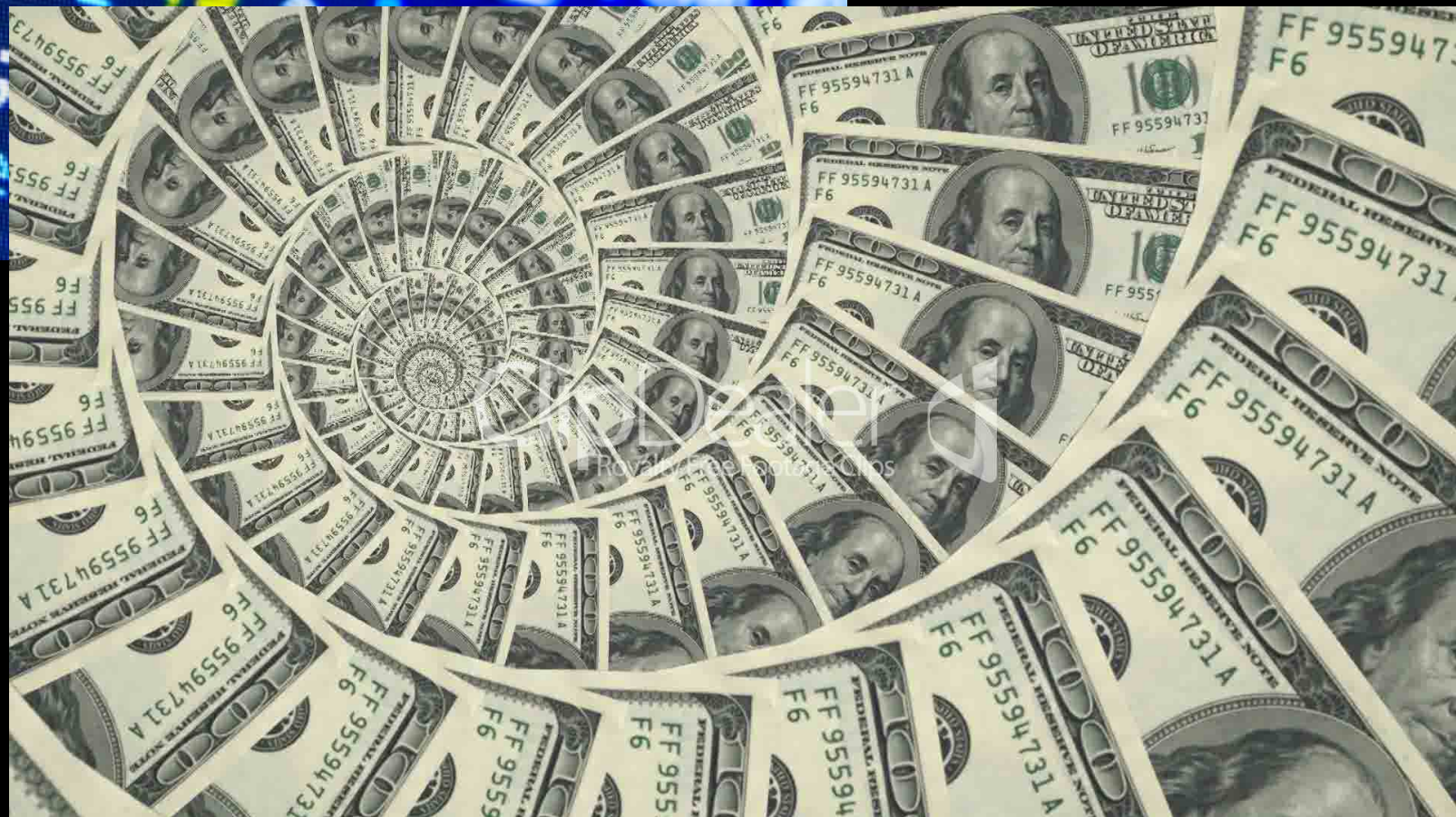
“Robots could replace 1.7 million American truckers in the next decade.”

-Natalie  
Kitroeff, Los  
Angeles Times





```
% a = replaceAll(", ", " ", a); a = a.replace(
% return a.split(" "); } $("#unique").click(
function() { var a = array_from_string($("#fin").val(
$("#start_val").val()), c = use_unique(array_from_s
$("#stop_val").val())); if (c < 2 * b - 1) { return
$("#count") + c), this.trigger("click"); } for
a.length) { "" != a[b] && "" != a[b] || a.w
b = 0; b < c.length; b++) { -1 != a[b]
% } a = ""; for (b = 0;
% } } $("#User_logged
% string($("#User_logged
% click(function()
```





# Define Success

## Trainees

- > will not have debt from training
- > gain employment within the tech industry
- > have skills to grow sustainable career





Hypothesis: It's easier to learn as part of a group.



Mined Minds Foundation-Group



Mined Minds

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# MINED MINDS wants to kick-start Greene County and you can

Mined Minds  
Foundation-Group

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How do we determine if someone with no coding experience is a potential candidate for coding?

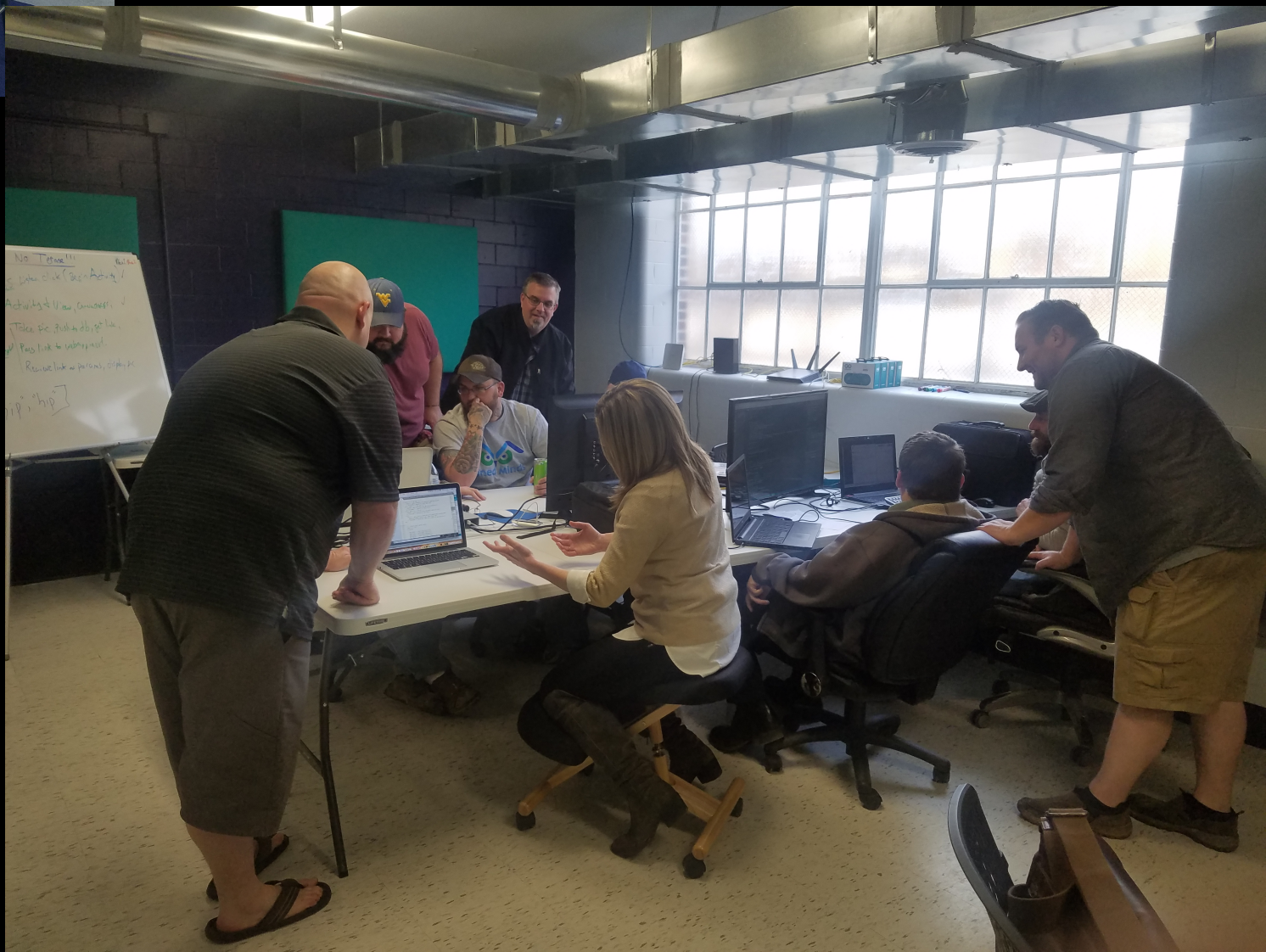


(((*Sonic  $\pi$* )))

# Code together







What are we  
teaching?





Learn the fundamentals;  
the rest will change anyway.

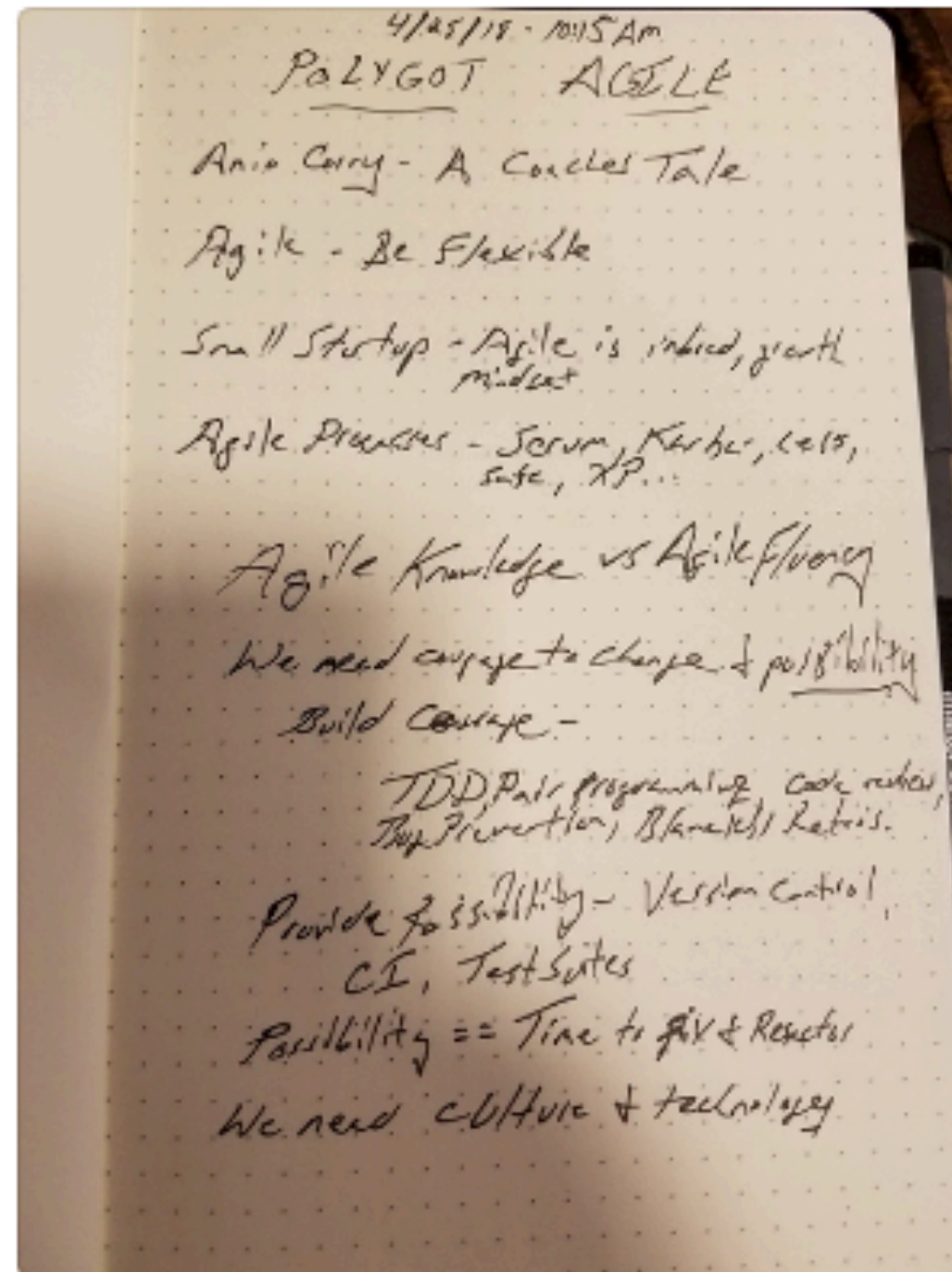






jeremy tong  11:14 AM

uploaded this image: [IMG\\_20180425\\_111354.jpg](#) ▼



jeremy tong  11:15 AM

We are agile

And you all do that without buzzwords which is awesome



# Flexible Stack







Success →  
Failure →



marv070

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## Overview

Repositories 39

Stars 0

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## Popular repositories

fav\_nums\_app

● Ruby ★ 2 🍴 1

greene\_co\_kaza

● Ruby  2

gc\_tictactoe

● Ruby

TDD\_GC\_KATA

● Ruby

Consecutive\_elements\_kaza

### New exercise working with consecutive elements in an array

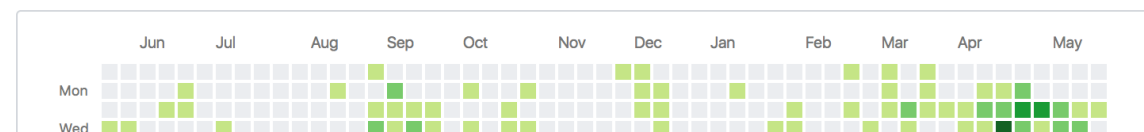
● Ruby

consecutive\_elements\_steps

exercise to find max consecutive elements in an array,  
step by step

● Ruby

593 contributions in the last year





# Non-Profit Organizations



# Life after “bootcamp”















## Cost of Living Comparison: San Francisco, California - Waynesburg, Pennsylvania

[Change Cities or Salary](#)

A salary of \$150,000 in San Francisco, California could decrease to **\$47,047** in Waynesburg, Pennsylvania

## Cost of Living Comparison: San Francisco, California - Clendenin, West Virginia

[Change Cities or Salary](#)

A salary of \$150,000 in San Francisco, California could decrease to **\$44,241** in Clendenin, West Virginia



Hypothesis: given a community  
has a group of skilled  
software developers, it can  
attract work to employ them





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**FAMILY OWNED & OPERATED.**

**OVER 50 YEARS OF EXPERIENCE**

City Neon was founded by Earl C. "Bud" Atkins. Bud graduated in 1948 from University High School and went to Coyne Electrical School in Chicago, Illinois for a four month electrical training class. He worked for Clarksburg Neon. He started branching out in Morgantown and Pennsylvania and in 1952, he bought a part of Clarksburg Neon's business.






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12°
100%
2:05 PM



West Virginia Grand Bash



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# Compete with offshore

*"the quality of the output is higher than I've ever been able to get from offshore resources."*

- James Rooney, President of Waylon Industries

*"...companies thinking of outsourcing work to India or Ukraine will see the benefit of using [Mined Minds] coders in Pennsylvania and West Virginia"*

- Ed Crooks, Financial Times

*"It's important to support companies that do great things, and the work meets the quality we expect from our own developers"*

- David Pollak, VP Engineering at Kiva.org





In order for all of this work to be sustainable, we need an entire ecosystem to support a tech hub

# Partner with colleges

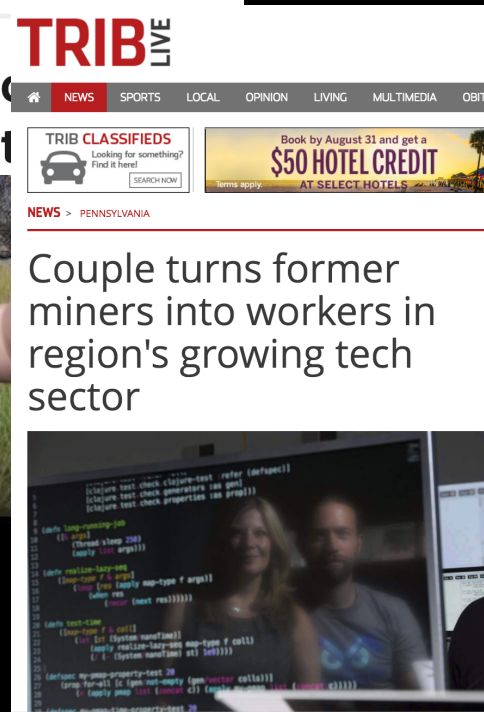
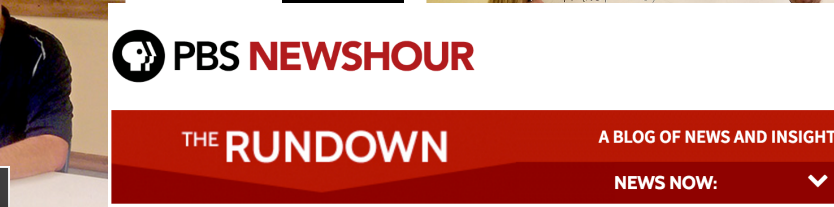


# Partner with high schools





[Hypothesis]











West Virginia DEPARTMENT OF  
EDUCATION



**RICHWOOD SCIENTIFIC**







**APPALACHIAN  
REGIONAL  
COMMISSION**

So what have we  
learned?

# Staged pathway into tech is possible





If we don't know, we  
don't say no, and  
anything is possible!





People learn at different paces:  
does not correlate with  
intelligence



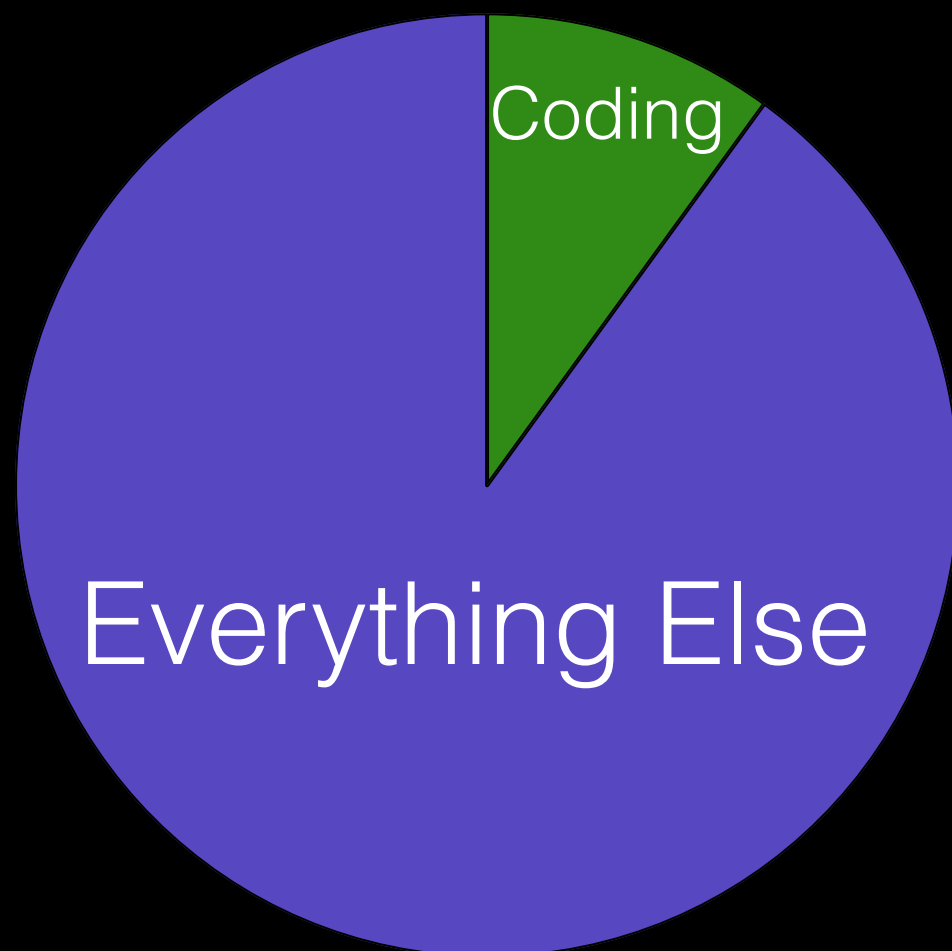


# Multiplier effect





Coding ability is only a  
small indicator of  
success in coding career



We aren't currently  
raising lifelong  
collaborative learners

What can you do to help  
create a society of life  
long learners?



# Defying Bloomberg

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