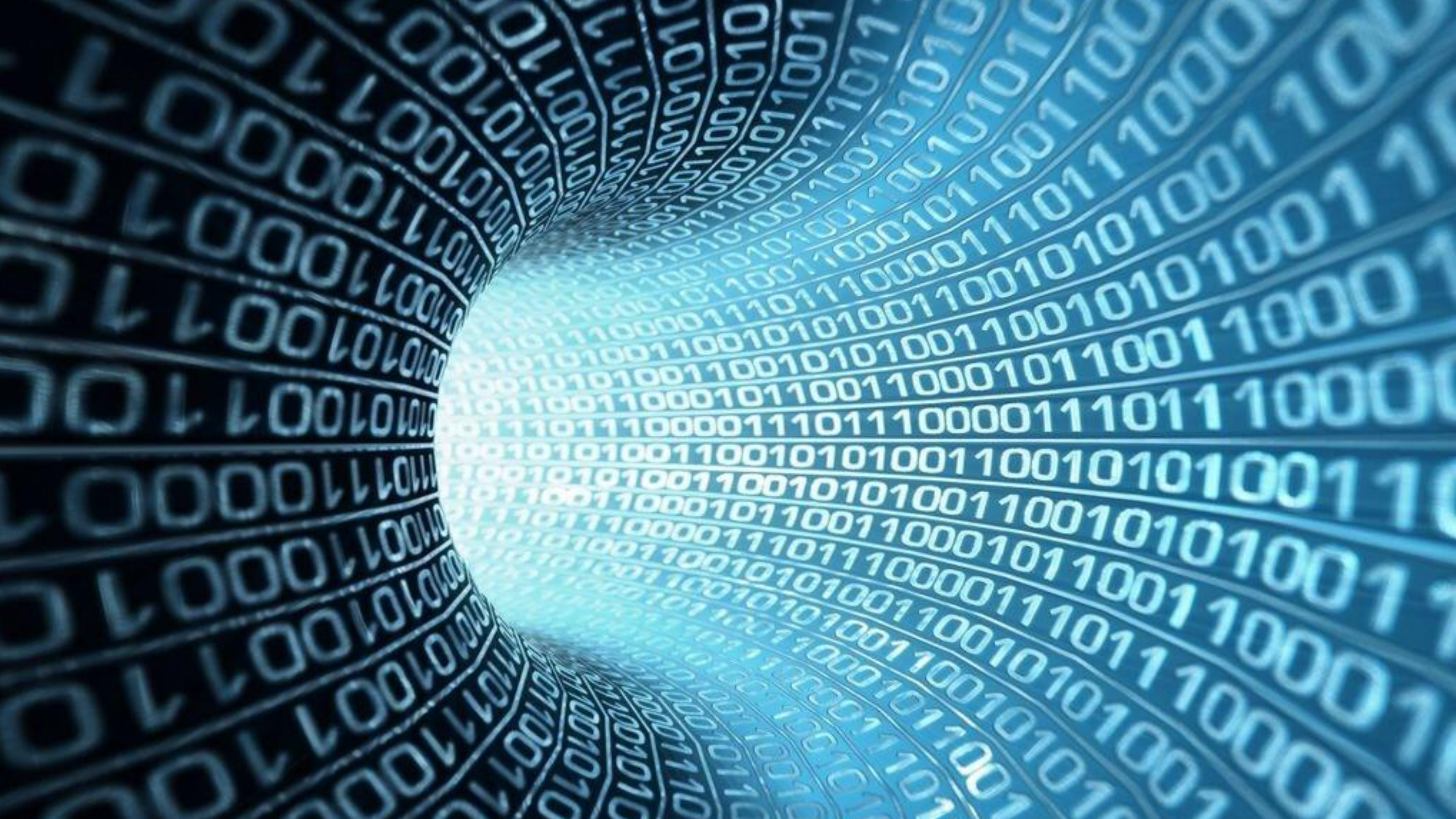


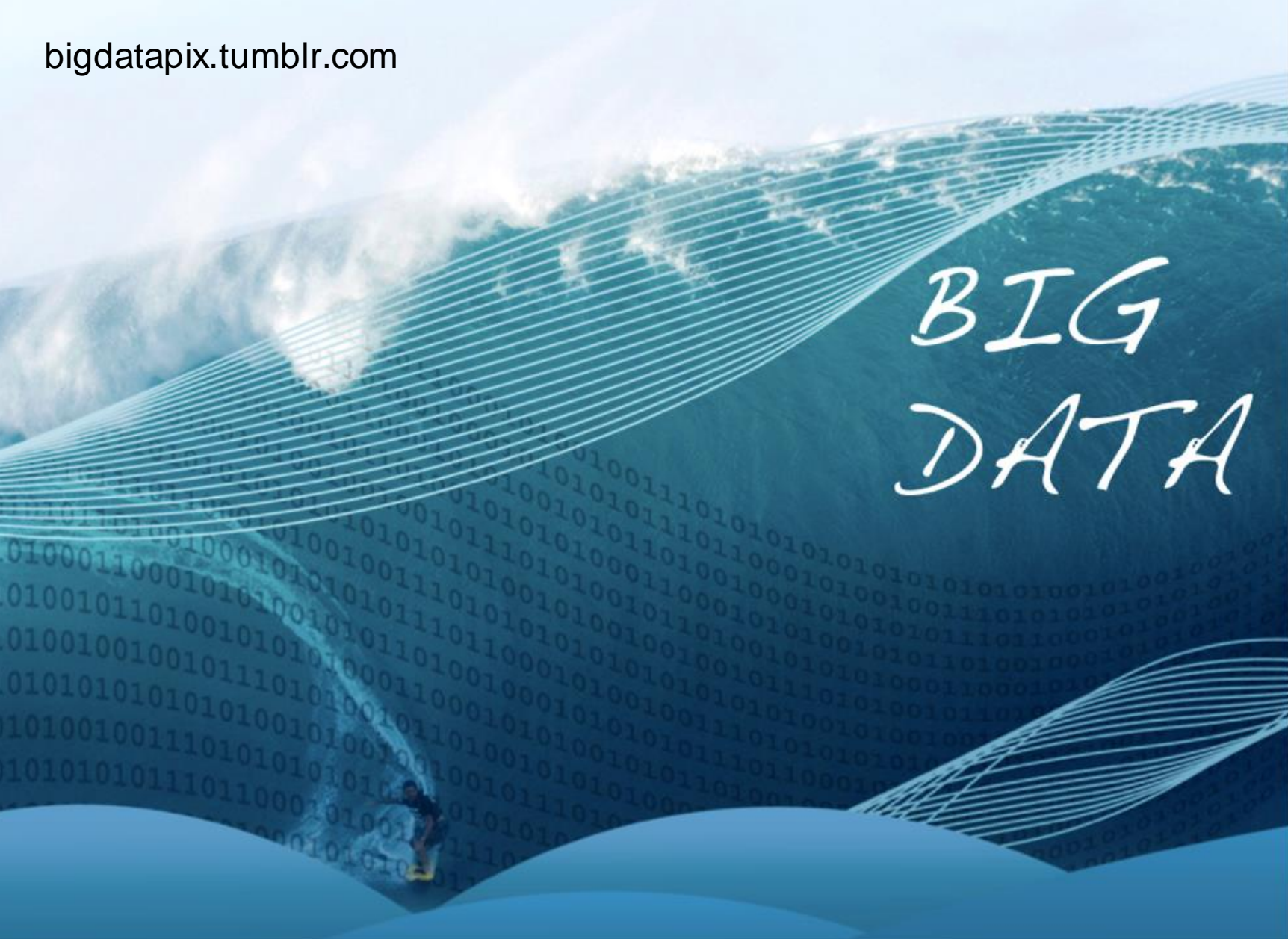
Using Data for The Greater Good

Jake Porway

DataKind









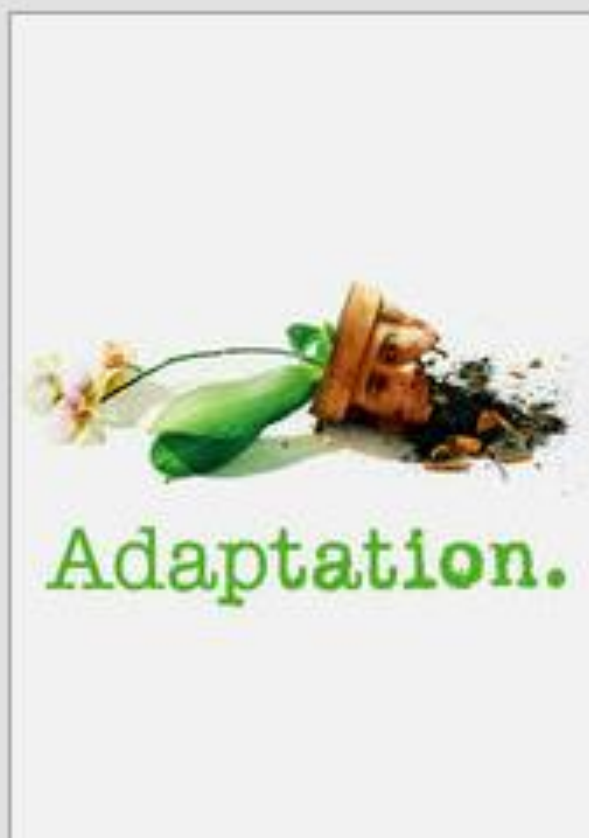
new releases

NO MORE RENTAL FEES!

FAMILY

Recently Watched

Top 10 for Craig



Popular on Netflix







YOU ARE JUST A NUMBER

Can you make yourself healthier and happier by logging every snore, step and mood swing? As a Californian trend for obsessional data-tracking makes its way over here, **Tim Chester** covers his body in gadgets to find out if self-knowledge is power. Photograph by Paul Stuart

Today I have climbed the equivalent of a tall giraffe. Coffee is my most frequent food. On average, I walk 11,726 steps a day, burning 3,089 calories, over 2.4 hours of activity. I sleep for 6 hours and 9 minutes a night. This week, my sleep efficiency is 72% and my food is 77% healthy. My BMI of 23.5 is 14 percentage points below the median for men my age, and my average daily Met score is 1.71, although I have no idea what a Met score is.

I am, it seems, nothing more than a bundle of numbers and milestones, spurred on by LEDs and chided by pop-up messages. A wireless accessory for the iPhone; perhaps its most sophisticated yet.

My arms are covered in bands, my pockets augmented with accelerometers, my eyes numb from all the charts, my heart pumping to the beat of a heart-rate monitor and forcing its ventricles to keep up with the national average. My head is about to implode from all the positive affirmation and gentle nudging, but it's OK because my memories are being saved to my hard drive and my mood swings are earning me "hugs" from strangers.

I am producing, analysing and socially sharing personal data. I am becoming fitter, happier, and more productive. I am staying motivated by earning badges. I have become a Quantified Self (QS).

The QS movement that I've temporarily joined began, as these things tend to do, in San Francisco's Bay Area in 2007. Two Wired magazine editors, Gary Wolf and Kevin ➤➤

 **369 MINS**
Sleep per night

 **73**
bpm heart rate

 **3,324**
Nike FuelBand score

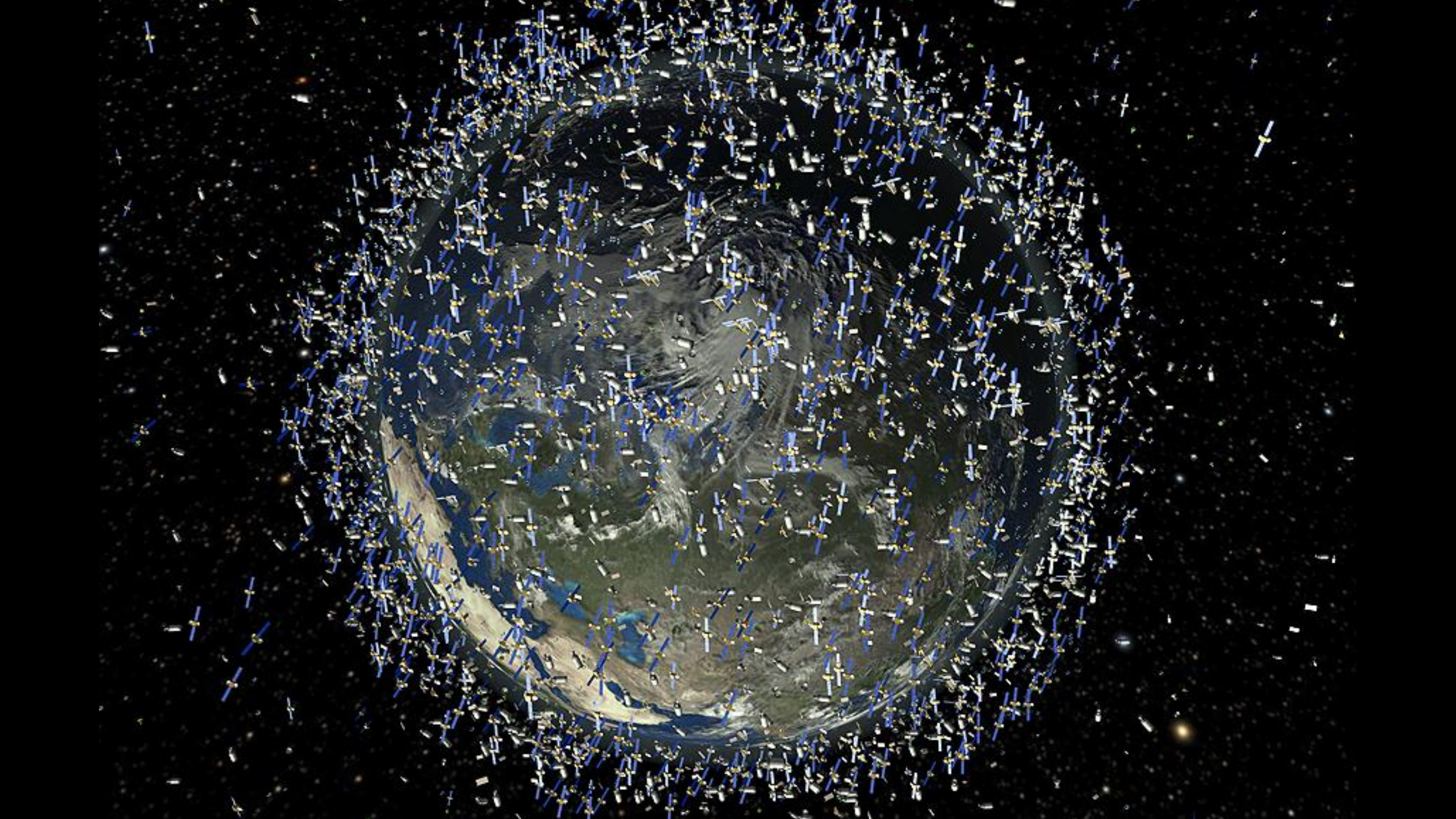
 **582**
photos logged

 **11,726**
steps walked

 **3,089**
Calories burnt

 **24**
Hours of nonstop video





Shop by
Department ▾

Search

Home & Kitchen ▾

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[Home & Kitchen](#)

[Best Sellers](#)

[Markdowns](#)

[Kitchen & Dining](#)

[Appliances](#)

[Bedding & Bath](#)

[Furniture & Décor](#)

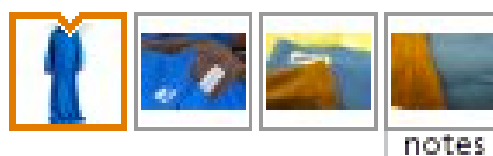
[Patio & Garden](#)

[Kids' Home Store](#)

[Gift Ideas](#)



Roll over image to zoom in



[View and share related images](#)

Snuggie Fleece Blanket

by [Snuggie](#)

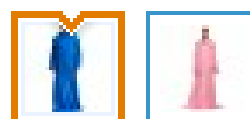
★★★★☆ (175 customer reviews) | Like (10)

List Price: ~~\$10.99~~

Price: **\$9.99** & eligible for **FREE Super Saver Shipping** on orders over \$25. [Details](#)

You Save: **\$1.00 (9%)**

Color: **Blue**



In Stock.

Sold by [Galactics](#) and [Fulfilled by Amazon](#). Gift-wrap available.

Want it delivered Wednesday, May 30? Order it in the next **42 hours and 4 minutes**, and choose **One-Day Shipping** checkout. [Details](#)

29 new from **\$6.89**

What Other Items Do Customers Buy After Viewing This Item?



Snuggie Original Fleece Blanket with Sleeves, BCRF Pink by Snuggie

★★★★☆ (175)

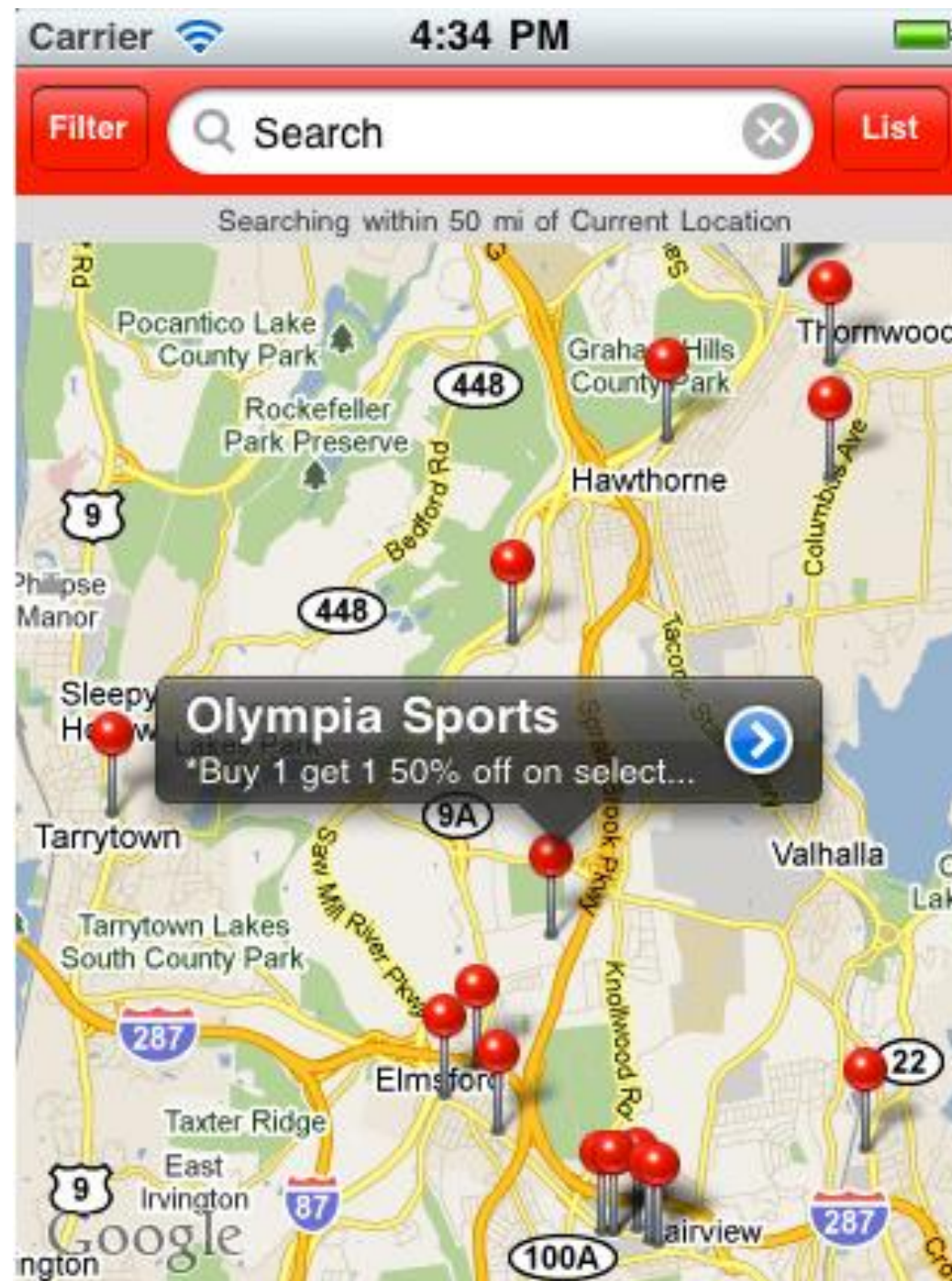
\$5.49

Snuggie Super Soft Fleece Blanket with free Booklight - Blue by Snuggie

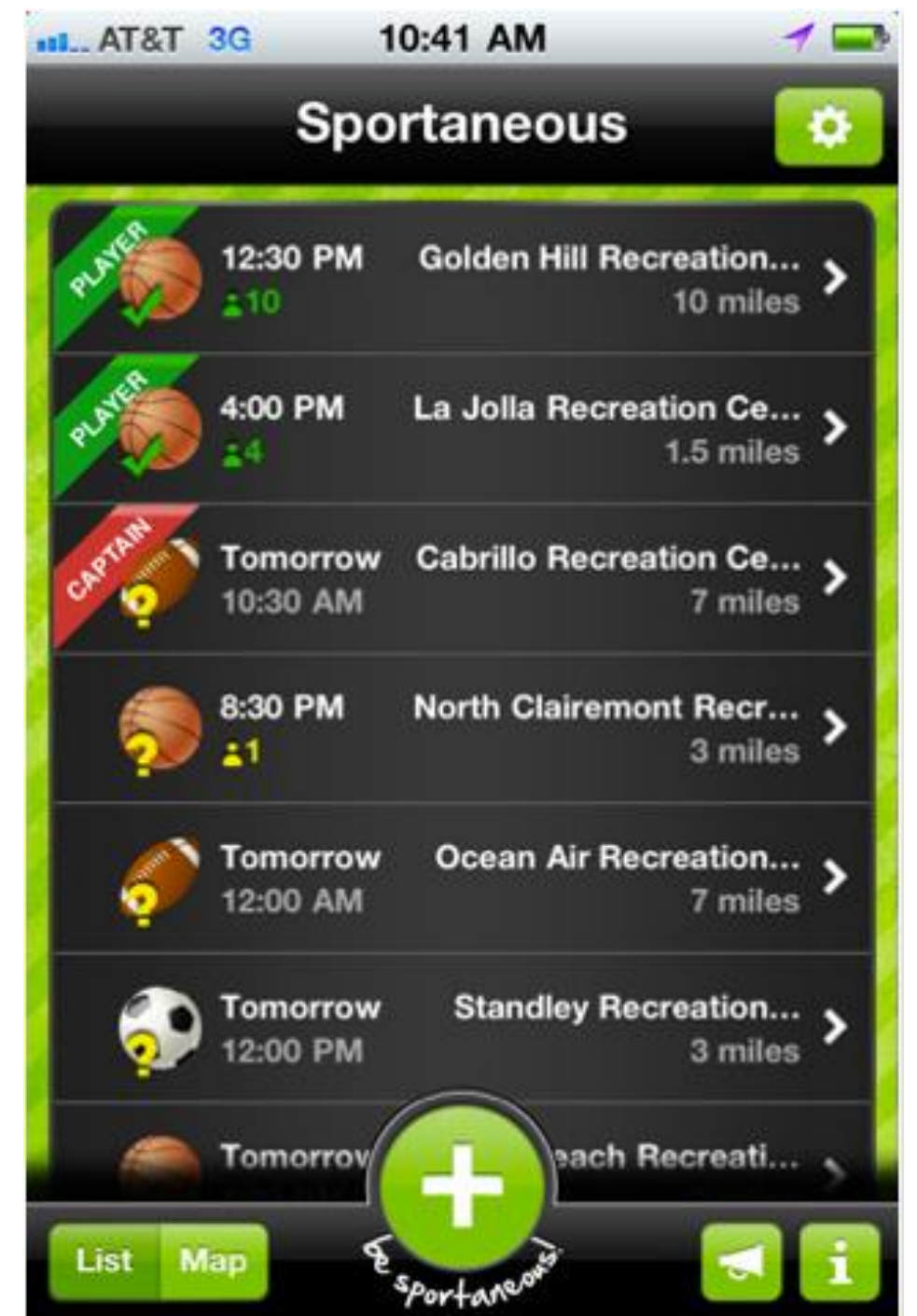




<http://bestparking.com>



<http://salelocator.com>



<http://sportaneous.com>





A group of people are gathered around a table, looking at a large number of colorful sticky notes. The scene is brightly lit, and the people appear to be in a collaborative or brainstorming session. The sticky notes are in various colors like yellow, green, blue, pink, and orange, and some have text on them. The people are mostly seen from the back or side, focused on the notes.

DataKind harnesses the power of data science
in the service of humanity

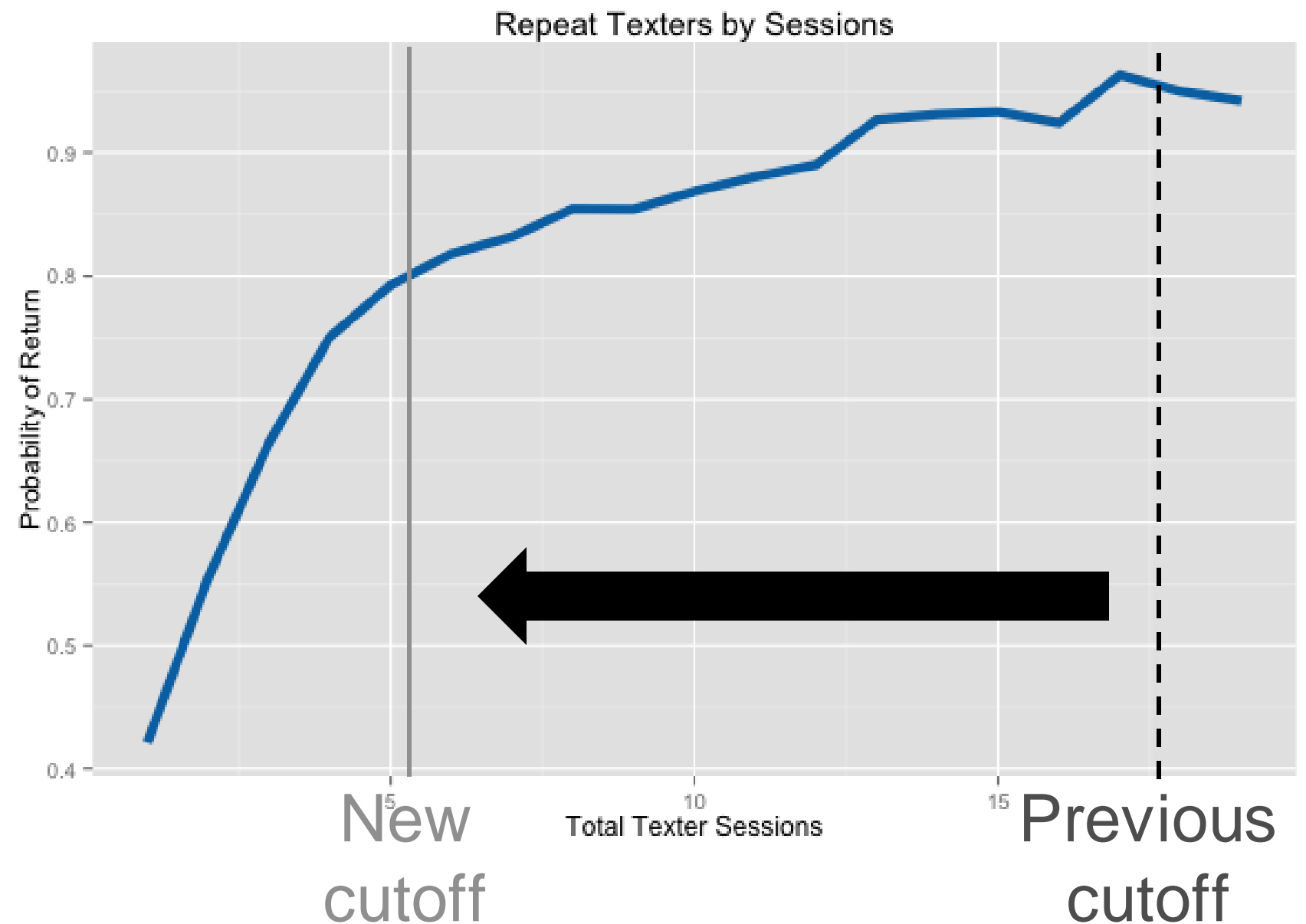


CRISIS TEXT LINE |



What did we learn about the texters?

- **Repeat users** of crisis hotlines have been problematic for all help centers since the 1970s.
- Based on model results, CTL recalibrated priority of repeat texters in queue based on total previous sessions.







DATA
datakind.org

2005-present

TREE INVENTORY
LAT LON
CENSUS

- COMBINE INTO ONE CSV
- SCRUB NAMES
- LOW LAT

TREE MGMT SYSTEM 1998-2008

- ACCESS TO CSV
- SCRUB NAMES
- GEOCODE (partly-incorrect)

Brooklyn only 1997-2008

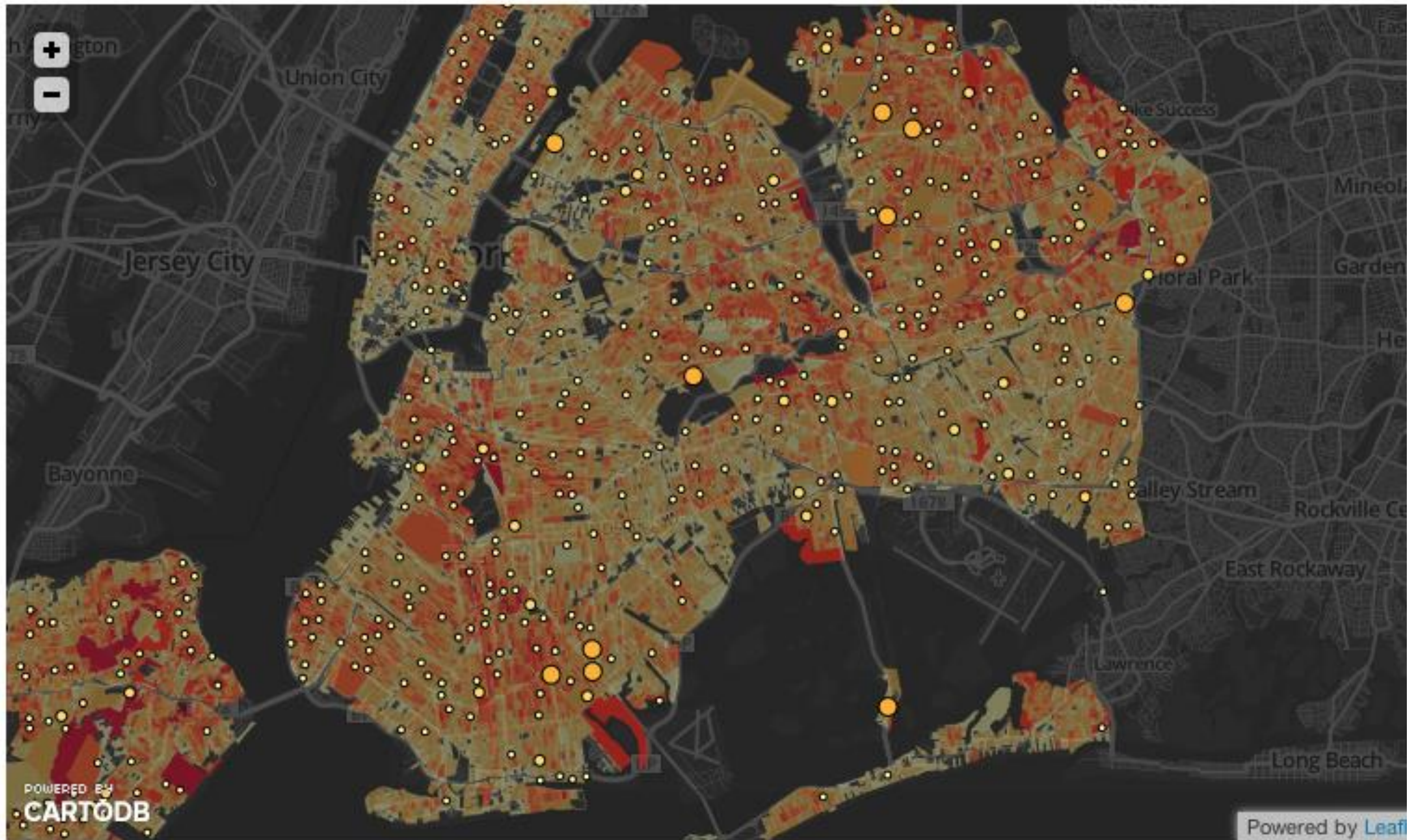
1. Prob of tree falling?
2. # trees falling?



$$E(H) = \frac{H!}{\#Trees}$$

TREE SPECIES CHARACTERISTICS

- USDA Plant Database
- VA Tech Dendrology
- NYC Parks website, Approved Street
- Florida IFAS



Layers :

Diversity by Census Block (chloropleth)

Common Tree Families

Tree Height by Census Block



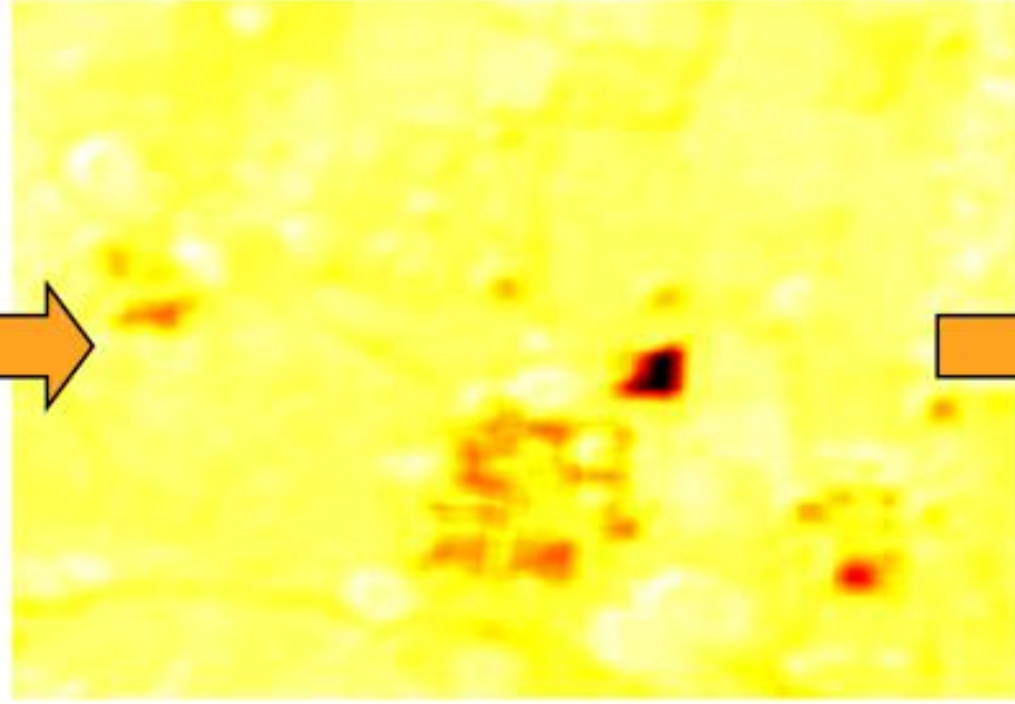
MOTOROLA

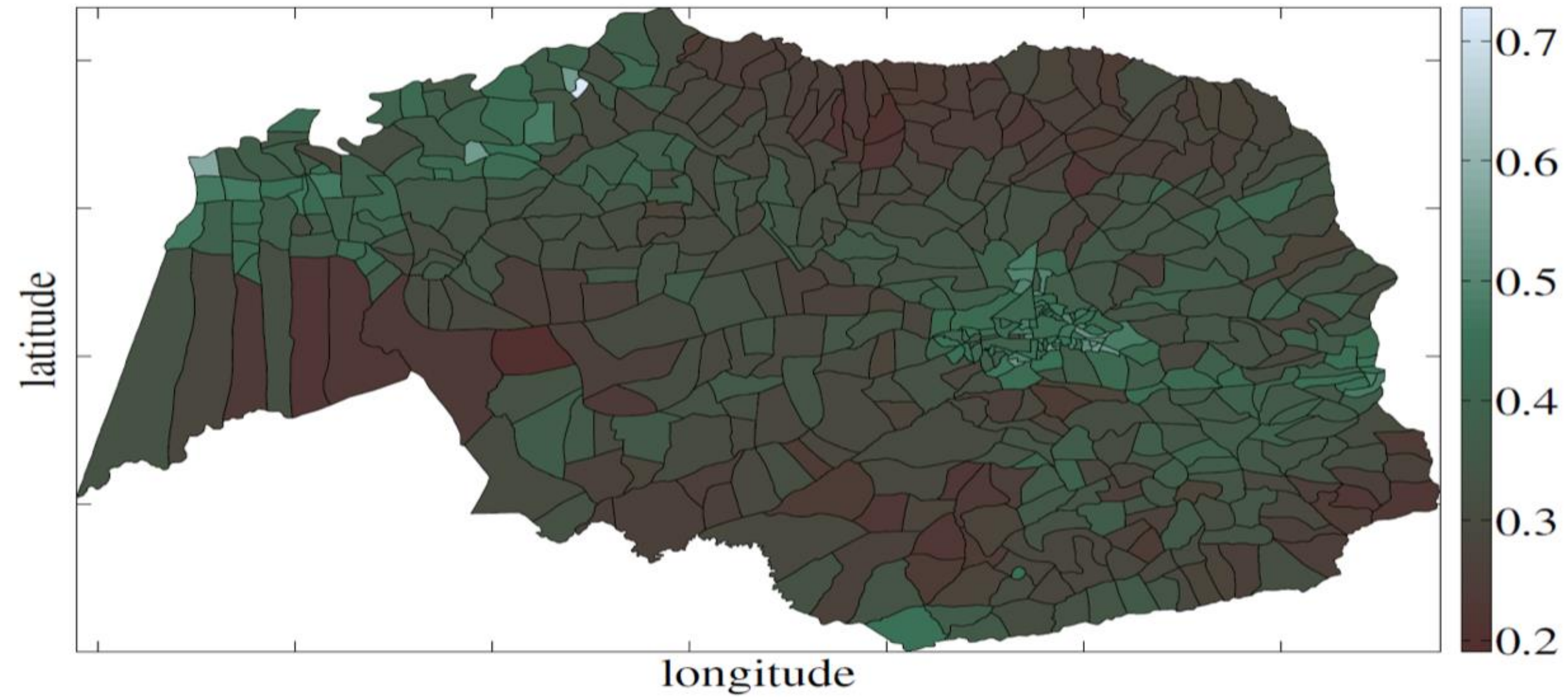
Call [RE]
Ksh1,200.00 from
541100 - Give
Direct Inc
BACK [REPLY]

GiveDirectly









Satellite Images Can Pinpoint Poverty Where Surveys Can't

Economic View

By SENDHIL MULLAINATHAN APRIL 1, 2016



The Korean Peninsula viewed from the International Space Station shows a mostly dark North Korea. If the North Korean government began to invest in infrastructure, it would be a sign of economic growth.

PACIFIC LIFE

Start
 planning for
retirement
 today.

LIFE INSURANCE | ANNUITIES
 INVESTMENTS

[see how](#)

Handwritten notes on a whiteboard:

IMPACT

- 1.1.1.1.1
- 1.1.1.1.2
- 1.1.1.1.3
- 1.1.1.1.4
- 1.1.1.1.5
- 1.1.1.1.6
- 1.1.1.1.7
- 1.1.1.1.8
- 1.1.1.1.9
- 1.1.1.1.10

BASE LAYER

- 1.1.1.1.1
- 1.1.1.1.2
- 1.1.1.1.3
- 1.1.1.1.4
- 1.1.1.1.5
- 1.1.1.1.6
- 1.1.1.1.7
- 1.1.1.1.8
- 1.1.1.1.9
- 1.1.1.1.10

Other notes include "1.1.1.1.11" and "1.1.1.1.12".



SOLE FOODS
THIS BAG IS MADE FROM 100% RECYCLED PAPER AND IS COMPLETELY RECYCLABLE.





60+ Projects

12000+ Volunteers

6 International Chapters

Data Science Pr

Non-



1. Prob of tree falling?
2. # trees falling?



$$E(H) = (1/n) * T$$

TREE SPECIES CHARACTERISTICS

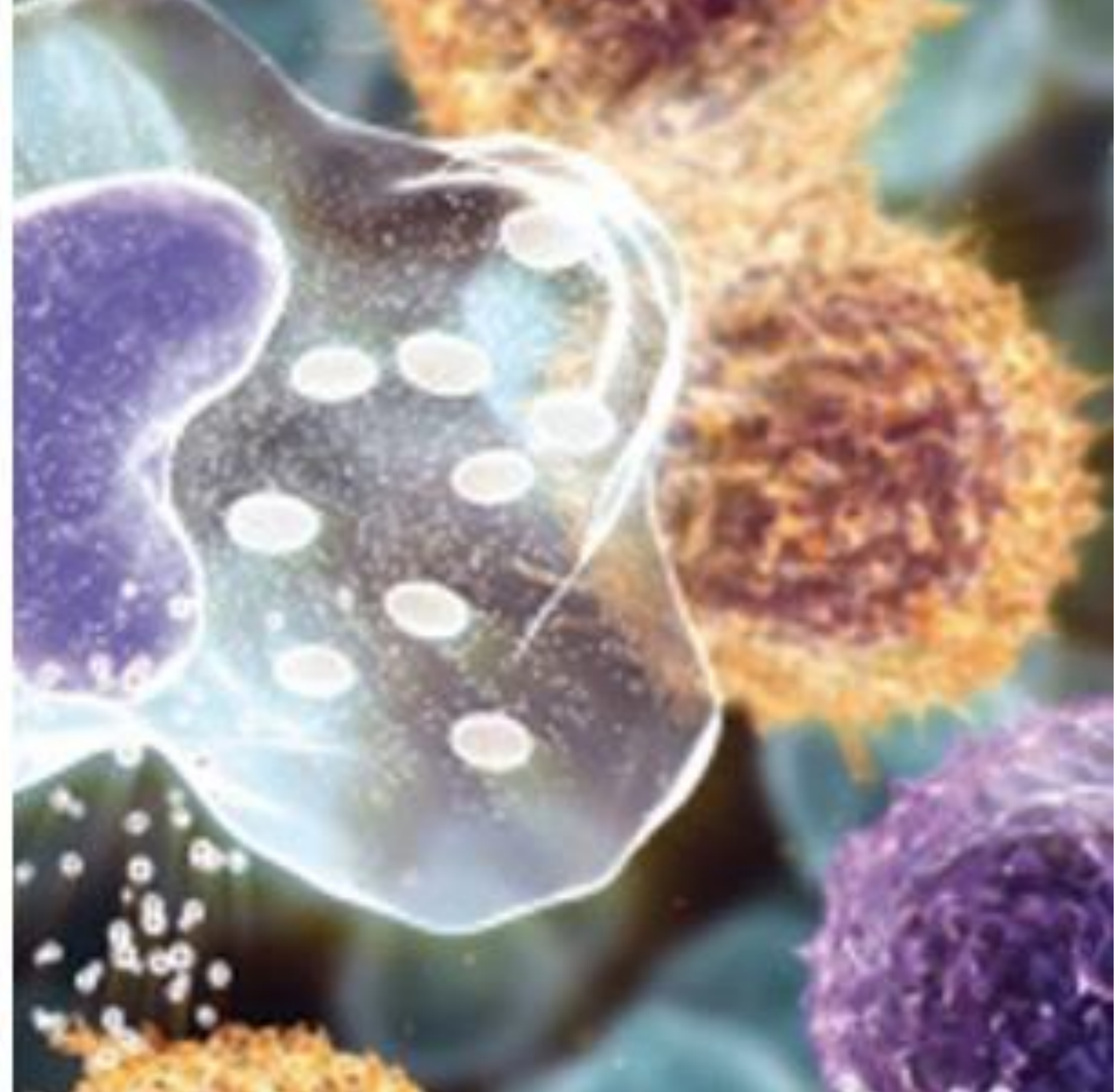
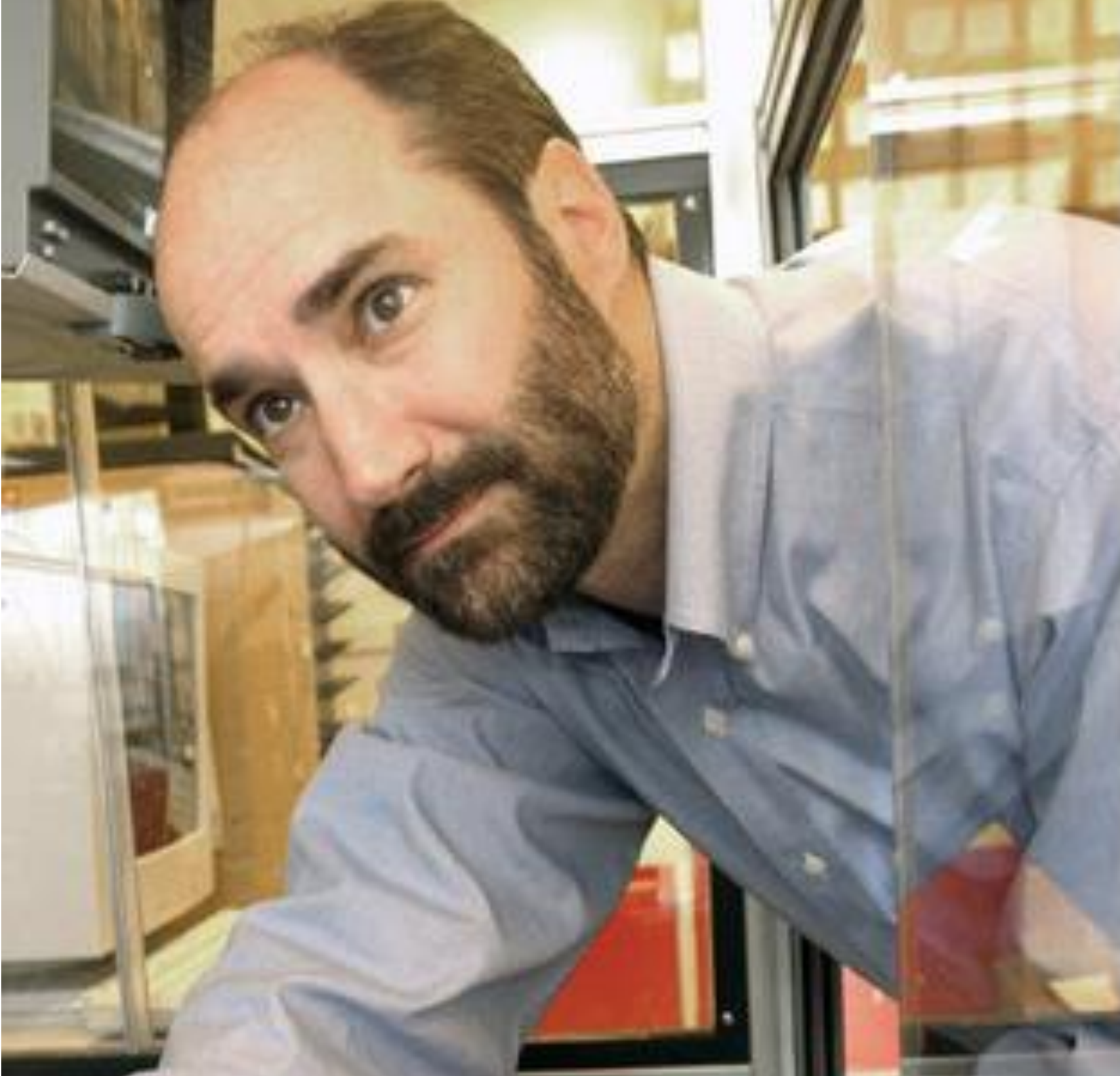
- USDA Plant Database
- VA Tree Database
- NYC Parks website, Approval Board
- Florida IFAS Extension

1998-2008

Brooklyn only 1997-2008







“Big Data will soon seem quaint...”



*We become what we behold.
We shape our tools and then our
tools shape us.*

New Microsoft patent: Walking directions that avoid crime-ridden neighborhoods

BY **TODD BISHOP** on January 3, 2012 at 1:33 pm

Comments 22

f Share 4

🐦 Tweet 147

📄 Share

8+ Share

👤 Reddit

Microsoft was **issued a patent today** on a computer system for “pedestrian route production” — better known as walking directions — that automatically adjusts the route for the unique conditions encountered by a person going from place to place on foot.

One of the features would help pedestrians avoid an “unsafe neighborhood,” taking into account violent crime data.

According to the patent, the system could “construct a direction set that allows



CRISIS IN SYRIA

Chemical weapons are not the only issue in Syria. Learn more about humanitarian solutions.

TAKE ACTION >



Urgent Action Globe

2011

Total Number of Incidents

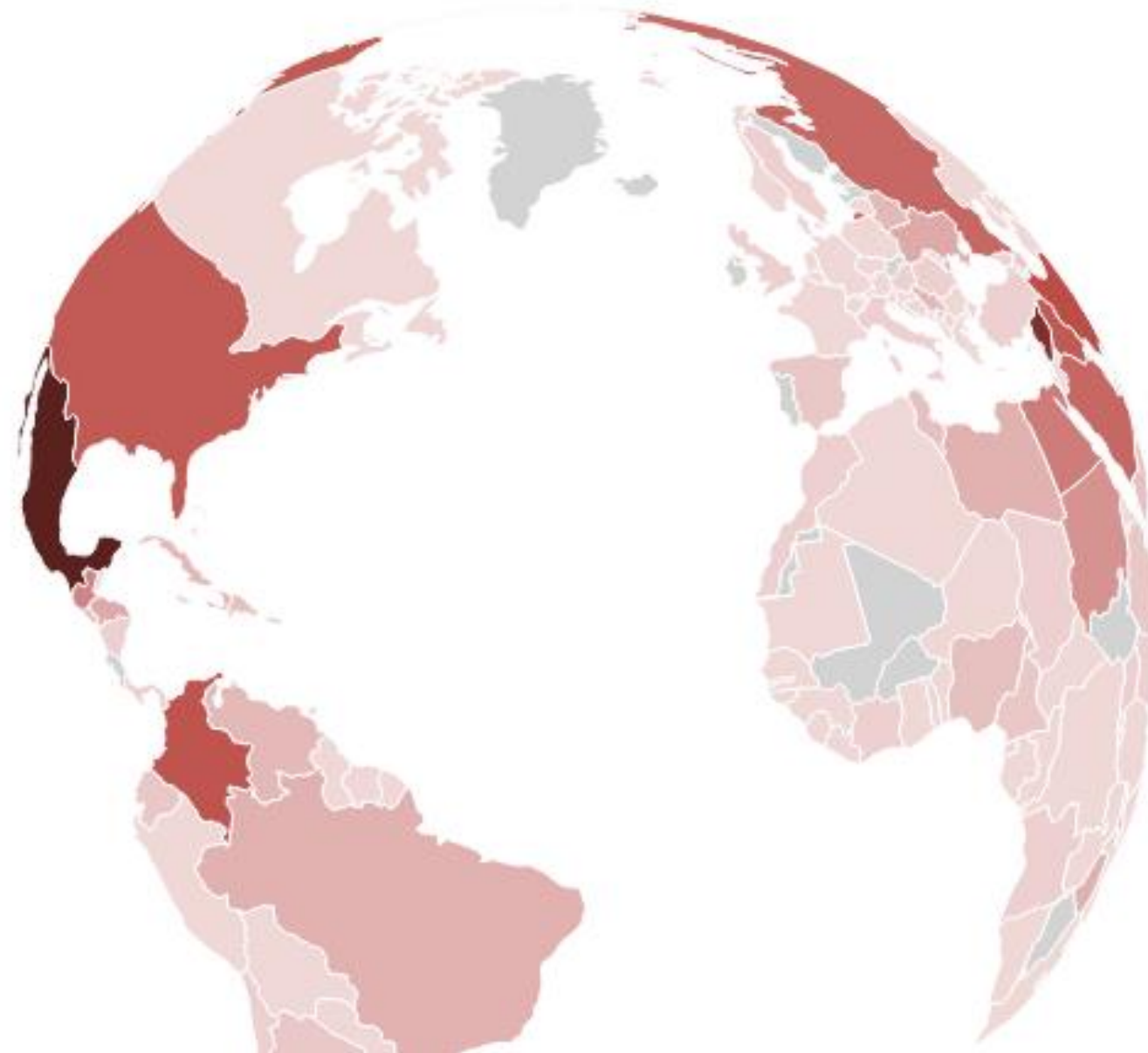
Click to see Details

Pop:

Num UAs:

UAs/million:

Top UA Categories:



Alerts Dash

Most Actions By Country

Ending Soon:

Tweets

Follow



AmnestyInternational @amnesty 4h

5 years after #HaitiEarthquake, >85,000 people still live in camps for the displaced. bit.ly/1wa71ec
pic.twitter.com/6nZ68m4hfW



Tweet to @amnesty



CONNECT

A man in a black t-shirt with a heart logo and the word "gives" is presenting to a group of people in a workshop. He is standing next to a whiteboard with a diagram. Two other people are holding up black t-shirts with the word "nitro" in green. The room has a bar area with bottles and jars in the background.

How To Get Started

Know what you don't know: Meetups, Internet groups

Roll up your sleeves: Community events, online introductions

Train yourself up: Data science courses

Fund Innovation: Data science is not overhead!

All

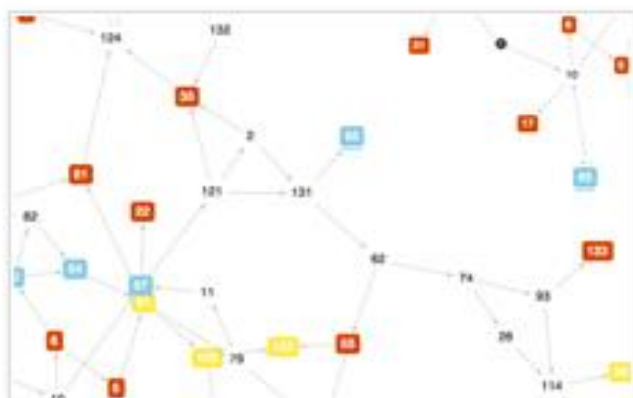
Maps

Charts

Data

Color

Code?

**Arbor.js**

A library of force-directed layout algorithms plus abstractions for graph organization and refresh handling.

**CartoDB**

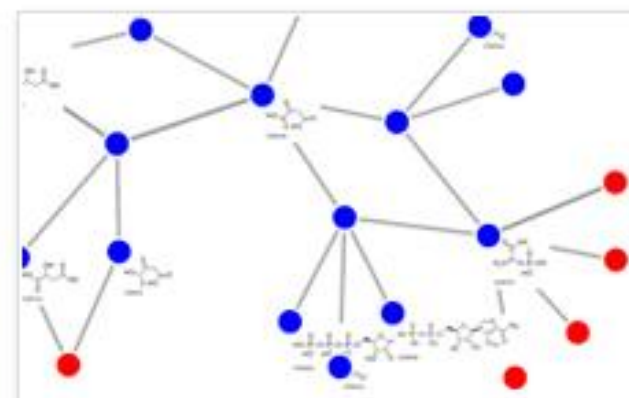
A web service for mapping, analyzing and building applications with data.

**Chroma.js**

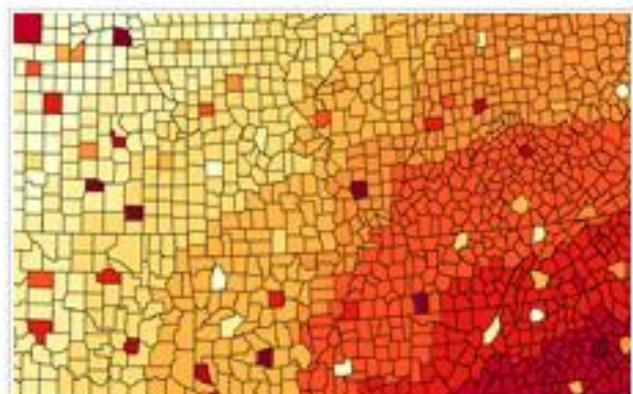
Interactive color space explorer that allows to preview a set of linear interpolated equidistant colors.

**Circos**

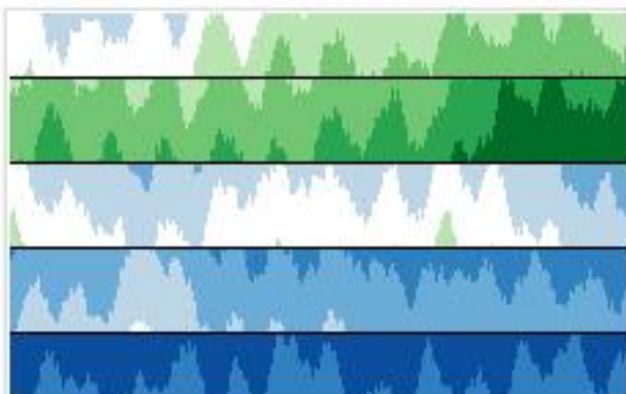
A software package for visualizing data in a circular layout.

**Cola.js**

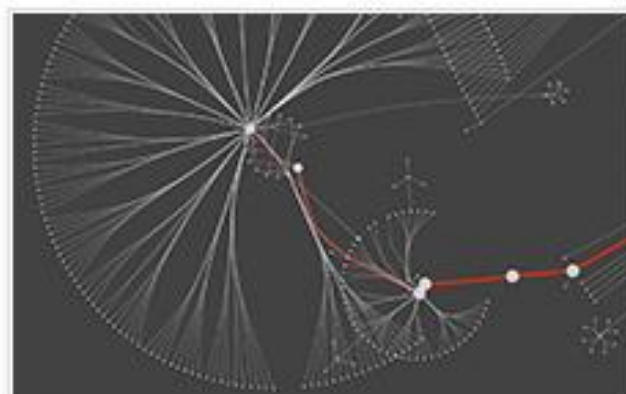
A library for arranging networks using constraint-based optimization techniques.

**ColorBrewer**

A web tool for selecting colors for maps.

**Cubism.js**

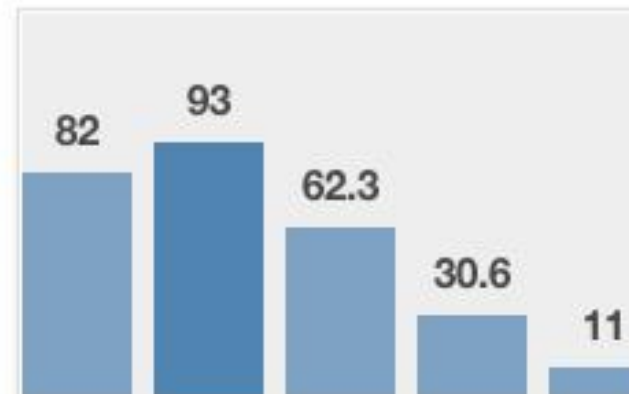
A library for creating interactive time series and horizon graphs based on D3.js

**Cytoscape**

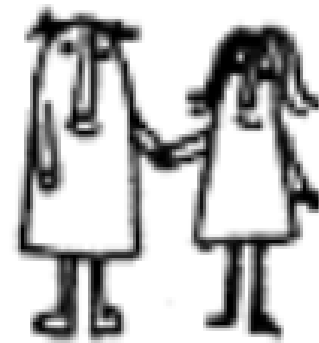
An application for visualizing complex networks and integrating these with any type of attribute data.

**D3.js**

An small, flexible and efficient library to create and manipulate interactive documents based on data.

**Dance.js**

A simple data-driven visualization framework based on Data.js and Underscore.js



De Rosnay, J: The macroscope, Harper & Row, New York, 1979.



datakind.org

Appendix



@charles
i feel pretty
useless compared
to others
brad



Donors Choose.org
Teachers ask. You choose.





Future Scientists ♥

Mrs. Boston's supplies project at Cutter Morning Star Elementary School in Hot Springs, AR | Highest Poverty



My Students: My classroom would be described as a fun and energetic place to learn. I challenge myself to find creative and hands on ways to teach my state mandated content. When my students leave my class at the end of the year, I know that they ... [▶ more](#)

My students would be over the moon if they were able to use the materials I am requesting to become scientific investigators. I know that they will feel like true detectives as they manipulate the dissection materials. My sixth grade ... [▶ more](#)

My students need dissection tools to dissect organs. My students need organs to dissect such as heart and lung organs, and gloves and goggles for safety.

9 hours left!

any amount

\$34 to go
7 donors



Half-off thanks to



materials	vendor	price	#	total
Student Classroom Dissection Set	Carolina Biological Supply Company	\$153.90	1	\$153.90
Mammalian Kidney Dissection BioKit	Carolina Biological Supply Company	\$136.18	1	\$136.18
Carolina Young Scientist Heart Dissection Kit	Carolina Biological Supply Company	\$9.64	13	\$125.32



Apple iPad mini 2 with
Retina Display
ME279LL/A (16GB, Wi-Fi,
White with Silver)



Amazon - Fire HD - 7" -
8GB - Black
Model: B00IKPYKWWG
SKU: 8932052

Top Category 4 by Poverty Level



Top Category 4 by Poverty Level

Poverty Level






2012 e-Databook

DC Action for Children designed the maps and interactive tools here to bring to life our data on the well-being of children and families, neighborhood by neighborhood. We invite you to use them to learn what you want to know about the health, safety and future success of children, families and neighborhoods in DC. We look forward to hearing your analysis!

CROSS-TAB ANALYSIS

 Distressed neighborhoods

 Child success

 Assets

[Back to top](#)

High poverty





NEIGHBORHOODS

Brookland, Brentwood, Langdon

Population (Total):	8,459
Population (Under 18):	1,845
Median family income:	\$58,400
Single mother families:	54.6%
Children in poverty:	41.3%

Race & ethnicity (18 and over):



	White: 13.5%
	Black: 76.8%
	Hispanic: 6.1%
	Asian/Other: 3.6%

Race & ethnicity (under 18):

