Visualization of Dynamic Data

Data Visualization

Data visualization is the study of the visual representation of data, meaning "information which has been abstracted in some schematic form, including attributes or variables for the units of information".

Visualization of Dynamic Data

Automation

Numerical coding of media (principle 1) and modular structure of a media object (principle 2) allow to automate many operations involved in media creation, manipulation and access. Thus human intentionally can be removed from the creative process, at least in part.

Visualization of Dynamic Data

#1 Numerical representation

$$f(x, y, t)$$

All new media objects, whether they are created from scratch on computers or converted from analog media sources, are composed of digital code; they are numerical representations. This has two key consequences:

New media object can be described formally (mathematically). For instance, an image or a shape can be described using a mathematical function.

New media object is a subject to algorithmic manipulation. For instance, by applying appropriate algorithms, we can automatically remove "noise" from a photograph, improve its contrast, locate the edges of the shapes, or change its proportions. In short, media becomes programmable.

Visualization of Dynamic Data

#2
Modularity

This principle can be called "fractal structure of new media.” Just as a fractal has the same structure on different scales, a new media object has the same modular structure throughout. Media elements, be it images, sounds, shapes, or behaviors, are represented as collections of discrete samples (pixels, polygons, voxels, characters, scripts). These elements are assembled into larger-scale objects but they continue to maintain their separate identity. The objects themselves can be combined into even larger objects -- again, without losing their independence.

Visualization of Dynamic Data

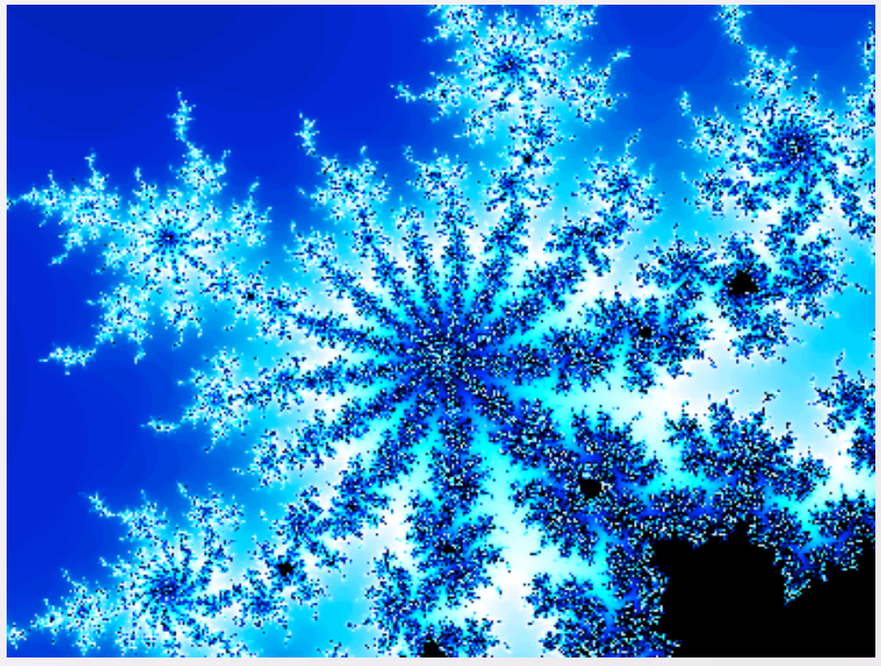
Automation

FLASH GENERATION: Semantics of the Software and the artists of the future
§ Lev MANOVICH

The researchers are also working on what can be called “high-level” automation of media creation which requires a computer to understand, to a certain degree, the meanings embedded in the objects being generated, i.e. their semantics. This research can be seen as a part of a larger initiative of artificial intelligence (AI).

Visualization of Dynamic Data

#2
Modularity



Definition

February 7, 2012

Visualization of Dynamic Data

digitization / sampling + quantization

Converting continuous data into a numerical representation is called digitization.

in order to convert a media object coming from analog media sources to a new media object, digitization is required. The first step of the digitization process is the sampling and quantization [real-valued domain] turns continuous data into discrete data.

quantization is the process of approximating a continuous range of values (or a very large set of possible discrete values) by a relatively-small set of discrete symbols or integer values.

Visualization of Dynamic Data

digitization / sampling + quantization

As Roland Barthes has put it, “language is, as it were, that which divides reality (for instance the continuous spectrum of the colours is verbally reduced) to a series of discontinuous terms” (Barthes 1968, 64). This is the key assumption of modern semiotics, that communication requires discrete units. Without discrete units, there is no language. Digitization basically, is nothing but to convert continuous data into a discrete form.

Visualization of Dynamic Data

digitization / sampling + quantization

This form enables the communication of the object with other objects and media. Old media like video or film also has some discrete parts like scan lines or frames but the particularity the new media, is that the discrete units of a medium are usually not the units of meanings, yet they are not analogous to morphemes.

Visualization of Dynamic Data

Variability

form & content

A new media object is not something fixed once and for all but can exist in different, potentially infinite, versions.

A variety of end-user objects which vary both in resolution, in form and in content can be generated, either beforehand, or on demand, from this database. In the computer age database comes to function as a cultural form of its own.

Visualization of Dynamic Data

Composition for Poor man 1961.

Summon a taxi, position yourself inside, request a long ride, OBSERVE THE METER.

Nam June Paik
July 20, 1932 - January 36, 2006

Example

Visualization of Dynamic Data

Variables
taxi_arrived: nil
taxi_moving: nil
in_taxi: nil

Code

```
# Recreation of Nam June Paik's 1961 receipe
# original receipe:
# "Summon a taxi, position yourself inside,
# request a long ride, OBSERVE THE METER.”

if taxi_arrived
        if in_taxi
                success "request a long ride"
        else
                breach "position yourself inside"
        end
else
        "summon a taxi”
end

success "OBSERVE THE METER" if taxi_moving
```

Visualization of Dynamic Data

Three-part drawing: A six-inch (15 cm) grid covering the walls. 1st wall: On a red wall, blue lines from each corner to points on the grid, yellow lines from the center to points on the grid; 2nd wall: On a yellow wall, blue lines from each corner to points on the grid, red lines from the midpoint of each side to points on the grid; 3rd wall: On a blue wall, red lines from the midpoint of each side to points on the grid, yellow lines from the center to points on the grid. (The number of lines and their length are determined by the draftsmen, but each wall has an equal number of lines.)

sol le witt
July 20, 1932 - January 36, 2006

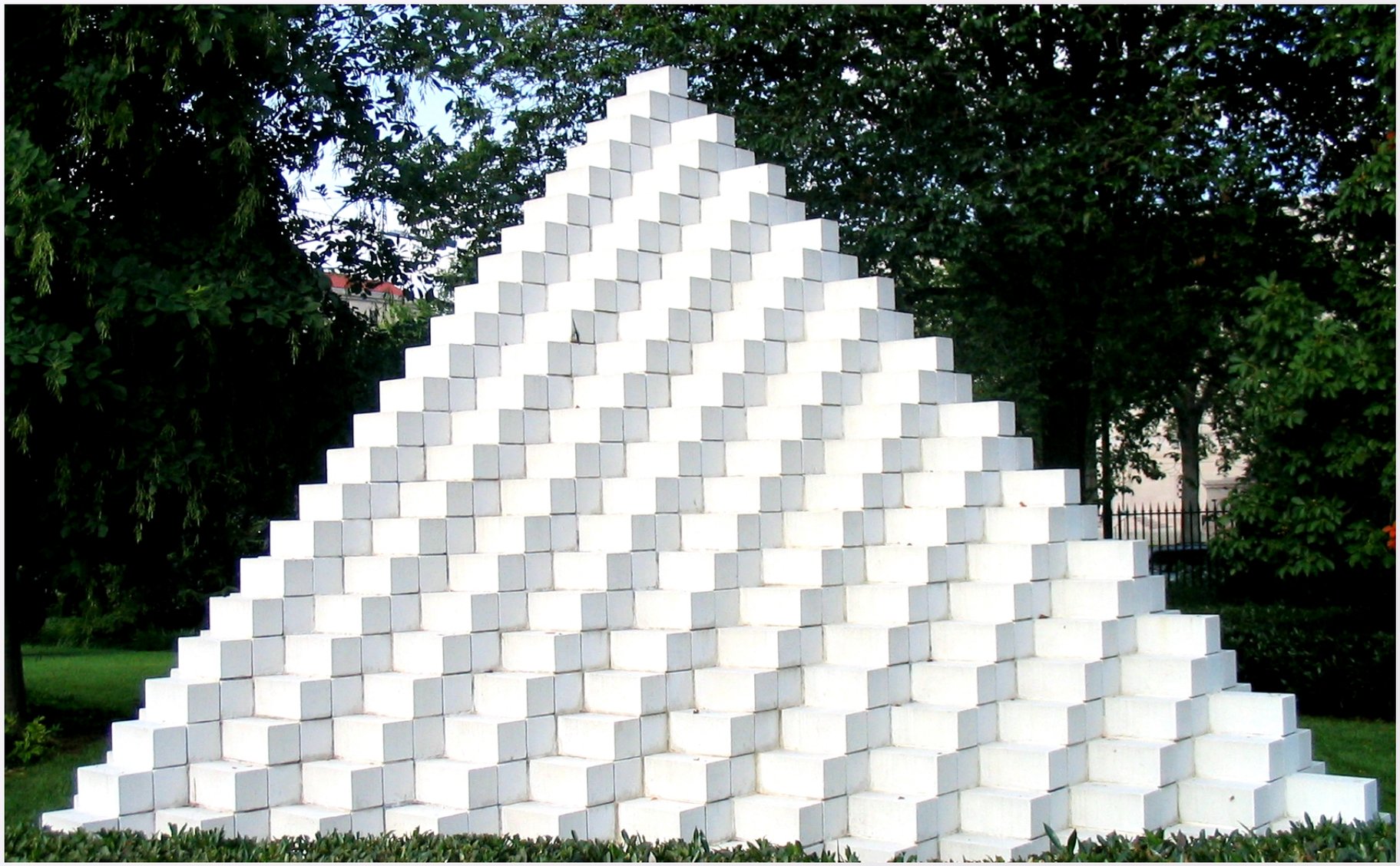
Visualization of Dynamic Data

Nam June Paik
July 20, 1932 - January 36, 2006

Example

February 7, 2012

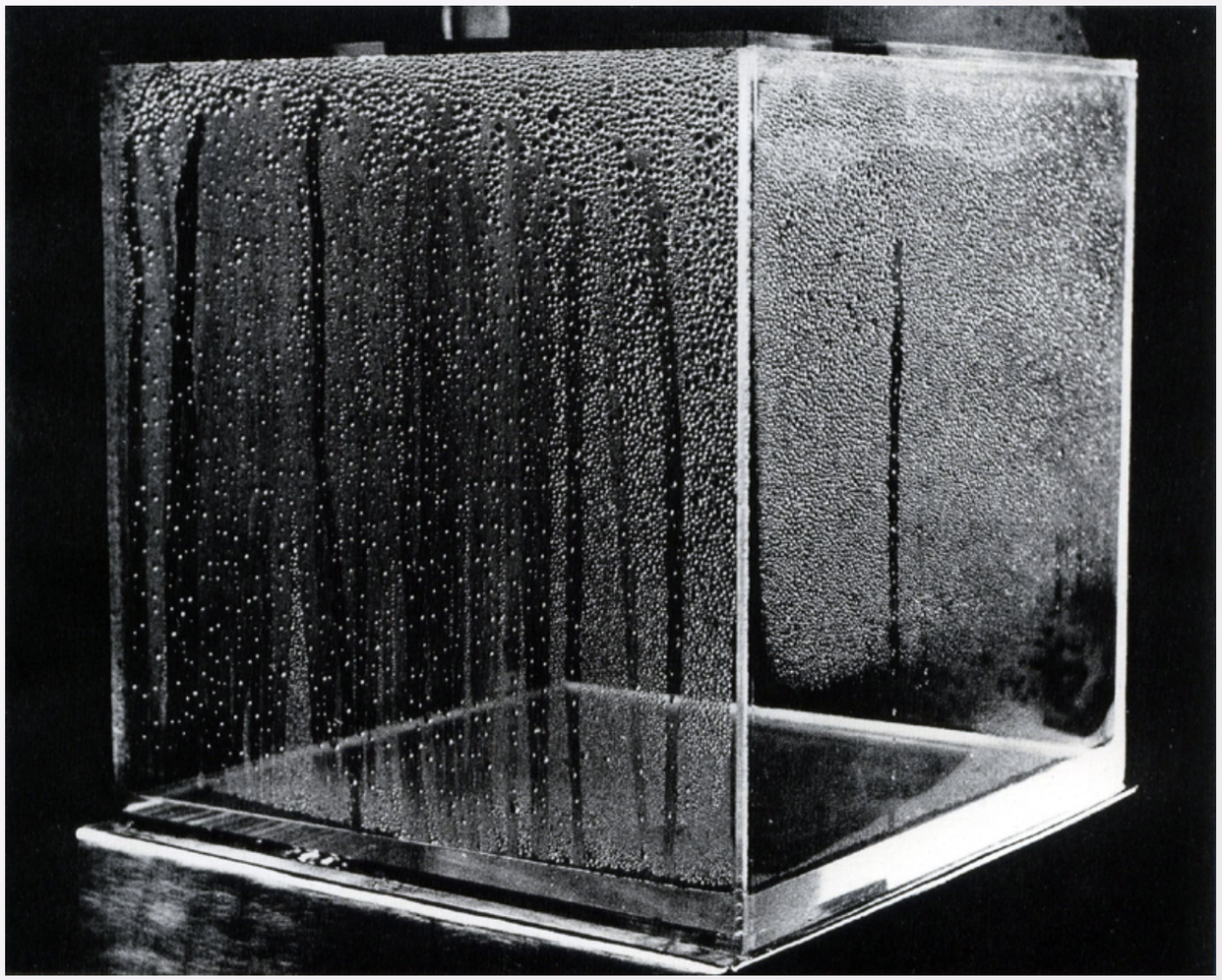
Visualization of Dynamic Data



Four-Sided Pyramid is a conceptual modular "structure", by Sol LeWitt, in the National Gallery of Art Sculpture Garden.

Solomon “Sol” LeWitt
September 9, 1928 - April 8, 2007

Visualization of Dynamic Data



Condensation Cube, begun 1965, completed 2008; plexiglass and water; Hirshhorn Museum and Sculpture Garden

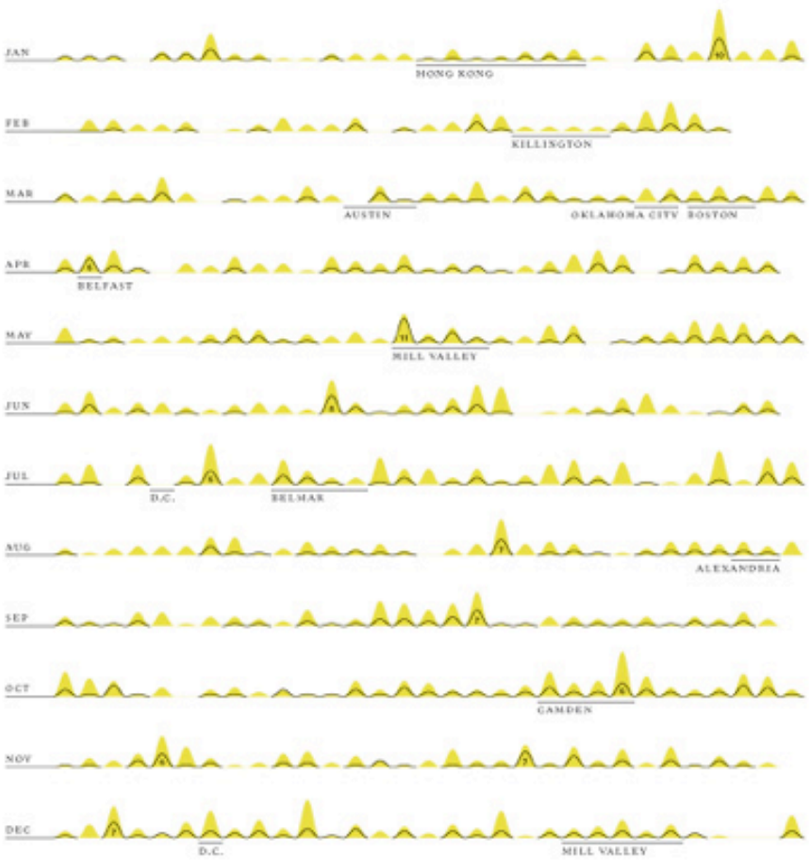
Hans Haacke (born August 12, 1936) is a German-American artist who lives and works in New York.

DAWN
SARAH B
BONNIE
OLGA
KEVIN J
KRIS
WARREN
NICK E
JOHN J
GIGI
THE SECOND-HAND EDITION
The 2009 Feltron Annual Report
ZEVAN
MARIANA
GORDON
CAROL
MARINA F
ELISE
ROB F
ANNIE
MATTHEW G
RYAN C
DANIELLE
MARINA K
JOHN D
HANA
PHILLIP T
KEN
MICHAEL T
GABE
AMADOR
JESSICA B

Distribution

Date and location of encounters.

FIGURE 1. ENCOUNTERS / RESPONSES



METHODOLOGY

Throughout 2009, friends, family, co-workers and acquaintances of Nicholas Felton were asked to report on his activities whenever they met.

All data on the following pages was compiled from the responses of these participants to a variety of questions concerning their encounter.

TOTAL ENCOUNTERS
1,761

AVERAGE ENCOUNTERS PER DAY
4.8

SURVEYS COMPLETED
560

CUMULATIVE RESPONSE RATE
32%

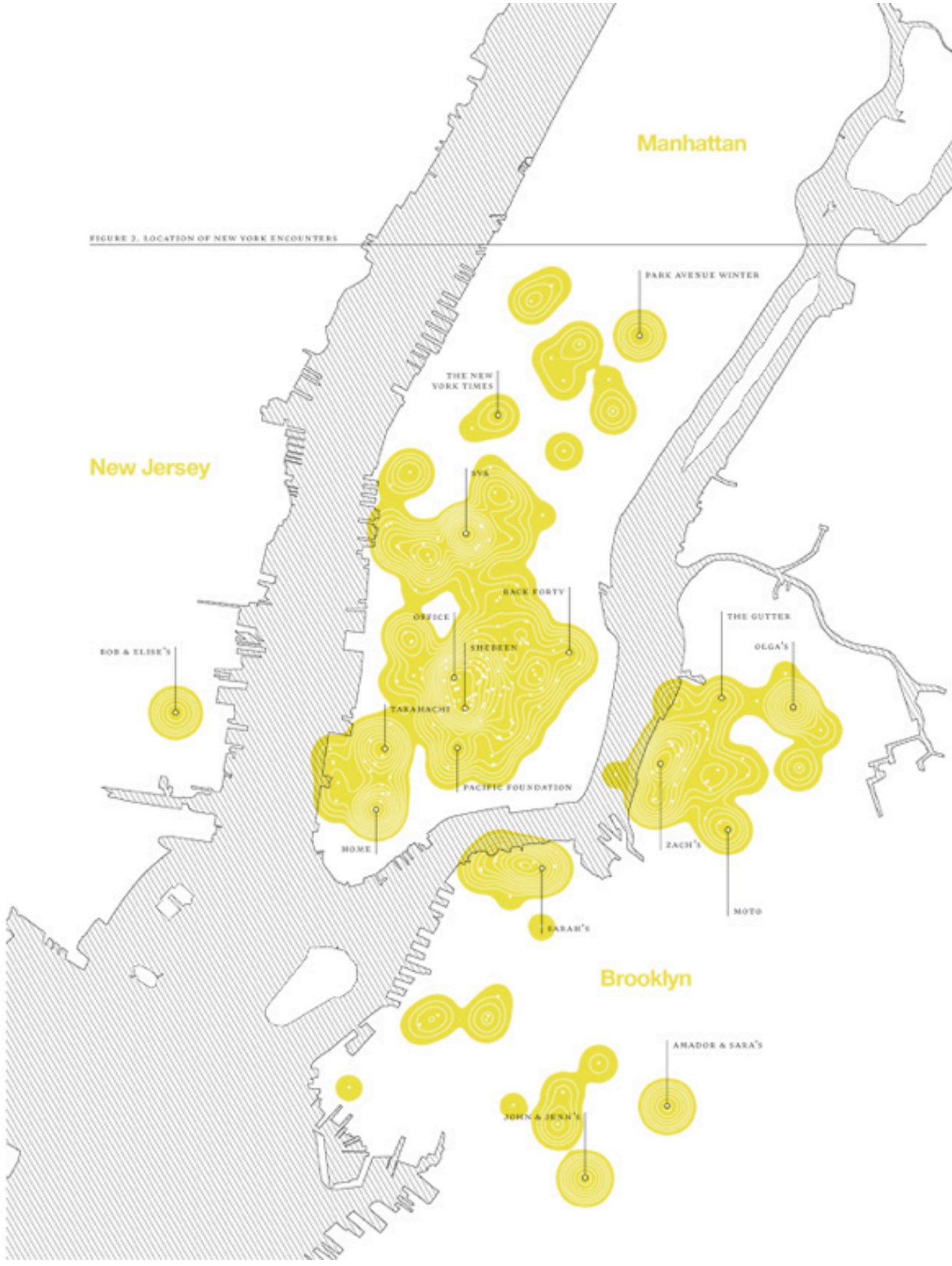
COUNTRIES INCLUDED
Three
U.S.A., HONG KONG AND NORTHERN IRELAND

STATES INCLUDED
Nine
CALIFORNIA, MAINE, MASSACHUSETTS, NEW JERSEY, NEW YORK, OKLAHOMA, TEXAS, VERMONT, VIRGINIA, PLUS WASHINGTON D.C.

DAYS WITH REPORTS
254
70% OF THE YEAR

CONTRIBUTORS
210
AVERAGE 3.66 REPORTS PER PERSON

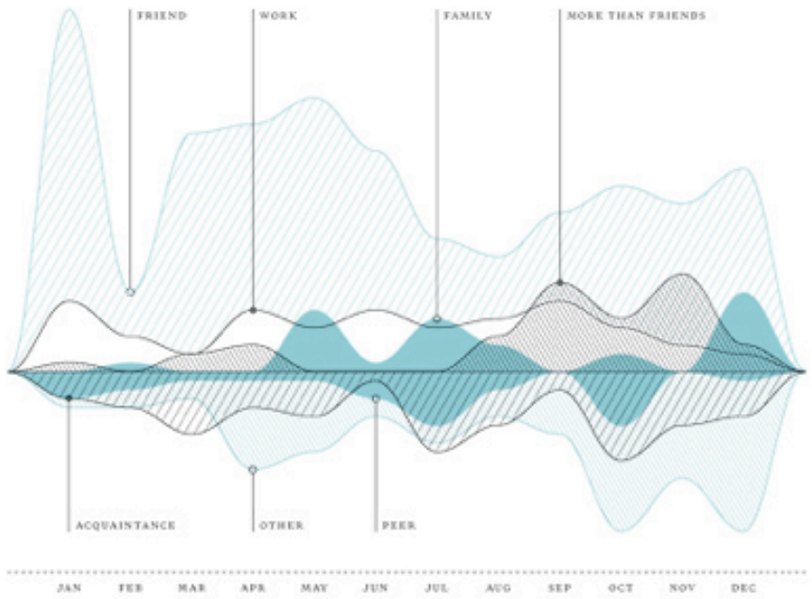
FIGURE 2. LOCATION OF NEW YORK ENCOUNTERS



Relationships

Reporting on the reporters.

FIGURE 3. RELATIONSHIPS REPORTED



SHORTEST RELATIONSHIP

5 Mins

ERIC, MAY 15

LONGEST RELATIONSHIP

Forever

ELISE, JAN 7

AVERAGE RELATIONSHIP DURATION

About 3 Years

3 YEARS, 3 MONTHS, 22 DAYS

MOST COMMON RELATIONSHIP

Friend

234 REPORTS

STUDENT TO TEACHER RATIO

3:1

6 STUDENTS, 1 TEACHER AND 1 BIRDING INSTRUCTOR

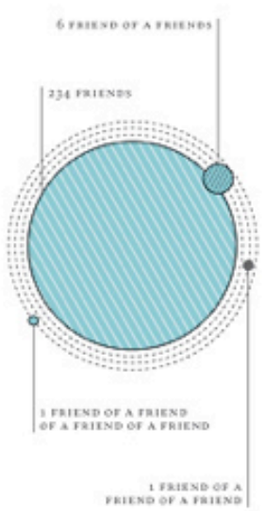
DISTINCT RELATIONSHIPS

179

NO RELATIONSHIP REPORTED

Eight

FIGURE 4. DEGREES OF FRIENDSHIP



QUESTION 1. WHAT IS YOUR RELATIONSHIP TO NICHOLAS?

Friend / esteemed colleague.
RYAN, JANUARY 12

Internet buddy.
NOAH, FEBRUARY 28

Grill master.
WARREN, MAY 10

Drinking buddy.
HANA, JUNE 12

Double-digit sociability.
OLGA, SEPTEMBER 17

Ex-wife.
NECK B, OCTOBER 21

Statistic.
KEVIN, DECEMBER 21

Dentist.
JOHN B, DECEMBER 23

QUESTION 2. HOW LONG HAVE YOU KNOWN NICHOLAS?

A year, come February 22.
ELISE, JANUARY 26

Since Summer 2004.
MARGARET, FEBRUARY 9

17 days at the time of recording.
IAN, MARCH 14

About three hours
ACE JET 170, APRIL 2

5 years, my whole life.
JULIAN, APRIL 12

Sixty four days.
JESSICA B, APRIL 19

Since birth.
CAROL, MAY 15

Since I was a teenager? Could that be?
MARIANA, SEPTEMBER 1

Years... I'm bad with time.
MELISSA, NOVEMBER 20

Activities

The length and habits of an encounter.

FIGURE 5. AVERAGE LENGTH OF AN ENCOUNTER

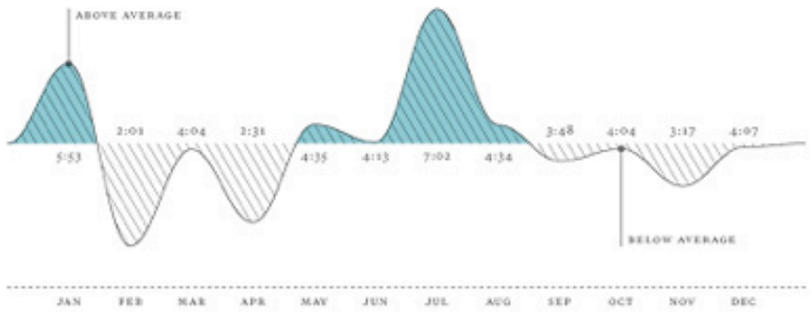
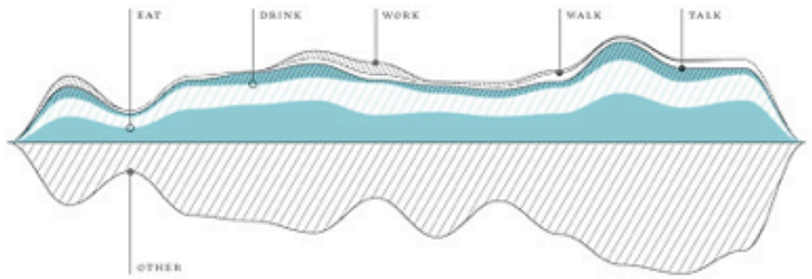


FIGURE 6. FREQUENTLY REPORTED ACTIVITIES



CUMULATIVE REPORTING TIME

Three Months

99 DAYS, 6 HOURS AND 17 MINUTES

MOST FREQUENT ACTIVITY

Dinner

105 REPORTS

AVERAGE ENCOUNTER LENGTH

Four Hours

4 HOURS, 15 MINUTES AND 15 SECONDS

MOST ACTIVITIES IN A MONTH

157

OCTOBER

DJING TO DANCING RATIO

5:4

AVERAGE ACTIVITIES PER ENCOUNTER

2.3

INSTANCES OF LAUGHTER

14

QUESTION 3. APPROXIMATELY HOW LONG WAS YOUR ENCOUNTER?

A total of about 60 minutes.
LORI, JANUARY 7

10am-11pm on 03/26/09.
RUKI, MARCH 26

900 seconds.
CHRISTOPHER F, APRIL 2

3 hours (they always seem to be 3 hours!)
BONNIE, JUNE 19

Personal - 7 mins; Impersonal - 35 mins.
ANDREW K, AUGUST 29

7 hours 30 minutes.
MARINA F, DECEMBER 24

QUESTION 4. WHAT ACTIVITIES DID YOU AND NICHOLAS PARTICIPATE IN?

Drinking, in a social sense.
KRIS, JANUARY 7

A walk to the peak, riding roller coasters at Ocean Park, browsing for books.
DANIELLE, JANUARY 18

Conversation, light computer use.
NECK S, MARCH 31

Chomp chomp chomp.
GORDON, MAY 18

Ate crabs, drank, watched fireworks, got ice cream.
AARON L, JULY 10

Reviewing work.
MIKE A, AUGUST 12

Waiting for a plane.
GIDEON, OCTOBER 25

Studio tour; business meeting
WILLY, NOVEMBER 23

Where

Location and methods of transportation.

FIGURE 7. LOCATIONS RECORDED

TOTAL LOCATIONS RECORDED

258

MOST REPORTED LOCATION

Office

73 TIMES BY 28 PEOPLE

AVERAGE LOCATIONS PER ENCOUNTER

1.83

FIGURE 8. WALKING VS. OTHER FORMS OF TRANSPORTATION

METHODS OF TRANSPORTATION

23

AIRPLANE, BIKE, BUS, CAR, ELEVATOR, ESCALATOR, FERRY, GONDOLA, IMAGINATION, KCR EAST RAIL, LIMO, NJ PATH, PUBLIC TRANSPORTATION, ROLLERCOASTER, SCOOTER, SMALL PLASTIC HORSE, SUBWAY, TAXI, TELEPORTATION, TIME TRAVEL, TRAIN, TRAM AND WALKING

CARS USED

Fifteen

1998 CHEVY VENTURE, 2009 VOLVO S40, 99 TOYOTA COROLLA, BMW, CHRISTOPHER MURPHY'S CAR, HONDA CIVIC, IAN FLEMING'S CAR, LORRAINE (1990 MERCEDES WAGON), MARINA'S CAR, RENTAL CAR, BOB'S CAR, TOYOTA CAMRY, VAN, VW BEETLE AND A VW JETTA

REPORTS WITH TRANSPORTATION

56%

BEST FORM OF TRANSPORTATION

Limo

JUN 12, 2009, 4 FAVORITE MOMENTS

QUESTION 5. WHERE WERE YOU AND NICHOLAS?

Shebeen (surprise).
MARTIN P, JANUARY 28

Foocamp at MSFT offices (NERD) in Cambridge, Ma.
MATT P, MARCH 28

AP and SK's roof.
RICHARD, JULY 4

Red Hook pool.
JESSICA B, JULY 25

Ace Bar for Gigi's birthday.
REBECCA, NOVEMBER 20

QUESTION 6. DID YOU GO ANYWHERE ELSE TOGETHER?

Into the conference room.
MARIE-CLAIRE, APRIL 1

To Momofuku-Ko.
DANIELLE, JUNE 8

Walked out to pick up lunch.
MATTHEW G, APRIL 28

The beach.
MICHAEL N, JULY 11

Olga's for champagne to celebrate, someone's house for the dance party.
RYAN, DECEMBER 31

QUESTION 7. WAS ANY FORM OF TRANSPORTATION USED?

I believe Nick drove.
LEWIS, MAY 17

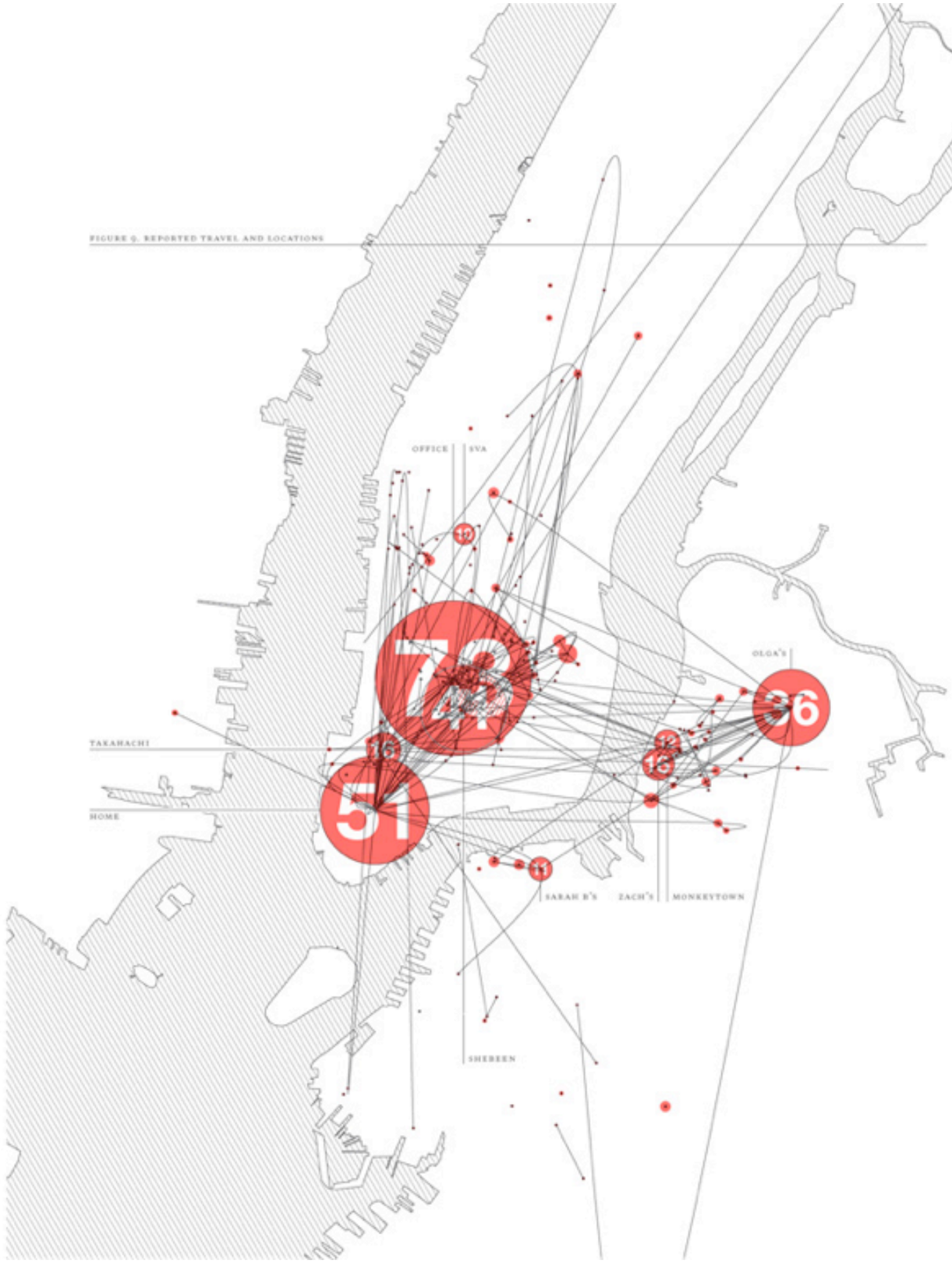
Limo. Best limo ride ever.
MARIANA, JUN 12

Yes, type unknown.
ZACH, AUG 19

Peds, JMZ, 4/5/6 trains.
OLGA, OCT 17

Airplane.
KACIE, OCT 25

FIGURE 9. REPORTED TRAVEL AND LOCATIONS

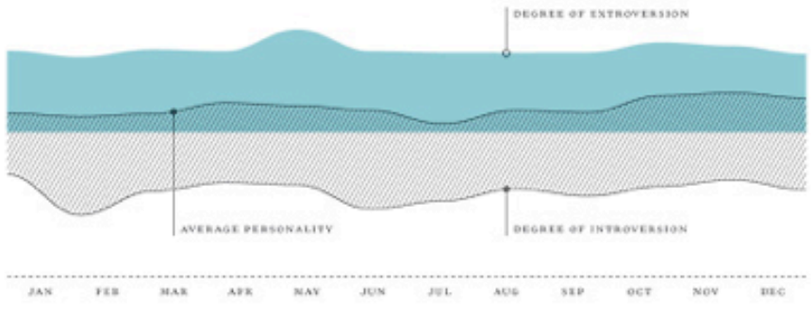


Mood

An assessment of demeanor.

FIGURE 10. REPORTS OF HAPPINESS VS. SADNESS

FIGURE 11. REPORTS OF EXTROVERSION VS. INTROVERSION



MOST FREQUENT MOOD

Happy

76 REPORTS, 8.8% OF ALL MOODS

TYPES OF NEGATIVE MOODS

Eighty

18% OF ALL MOODS

AVERAGE TEMPERAMENT

Swell

73.9% HAPPY

UNIQUE MOODS

300

REPORTS OF BEING "UPSET"

One

FOCUSED TO DISTRACTED RATIO

9:2

AVERAGE PERSONALITY

An Ambivert

59.6% EXTROVERT / 40.1% INTROVERT

SYNONYMS FOR TIRED

Eleven

DRAINED, FADING, JETLAGGED, EXHAUSTED, POOPED, SLEEEEEEPY, SLEEPY, SREEEPY, SWEEEPY, TIRED AND YAWNY

QUESTION 8.
PLEASE DESCRIBE HIS MOOD.

Excellent!
(In disguise of a hangover).
WARREN, JANUARY 1

Somewhat tense,
perhaps tired.
KRIS, JAN 7

Chummy!
KENNY, JAN 21

Cheery, upbeat,
Californian, unsullen.
ELLEN W, JAN 28

Unhurried and relaxed.
JESSICA B, MAR 20

Suffering from a cold,
sore throat.
CAROL, MAY 17

Earnestly industrious.
MATTHEW G, MAY 19

Very good - exuberant
almost. more animated
and smiley than usual.
MARIE-CLAIRE, MAY 28

Pensive
(but not in a lame way).
NICHOLAS B, JULY 18

Bored, oh god so bored.
MARIANA, SEPTEMBER 1

Cheerful to tipsy (?)
HANA, NOVEMBER 20

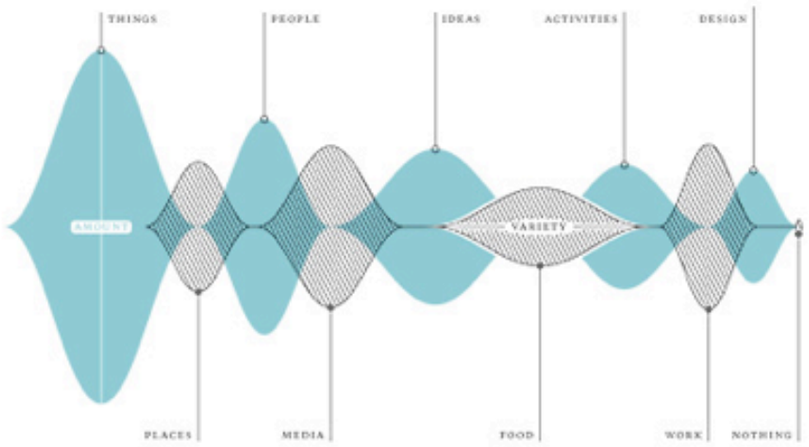
Jocular.
KHOI, DECEMBER 3

Festive, happy, relieved??
OLGA, DECEMBER 31

Topics

The breadth and depth of conversation.

FIGURE 12. REPORTED TOPICS OF CONVERSATION



MOST DISCUSSED TRAVEL DESTINATION

Mexico City

REPORTED 4 TIMES

PUBLIC PERSONALITIES DISCUSSED

Thirty Six

ANDY WARHOL, ASHLEY OLSEN, BALLOON BOY, BARACK OBAMA, BILL HADER, BILL MURRAY, BRAD BIRD, BUCKMINSTER FULLER, CAPTAIN AMERICA, CARL WEATHERS, DAN BARBER, DOUGLAS GORDON, GENE KAUFMANN, HILLARY SWANK, JASON SUDEIKIS, JASPER JOHNS, KARIM RASHID, LOUIS CK, MALCOLM GLADWELL, MICHAEL HOSLXE, MICHAEL POLLAN, MIHALY CSIKSZENTMIHALYI, MITCH HEDBERG, MORGAN FREEMAN, PATRICK SWAYZE, PETER ARNELL, ROBERT DOWNEY JR., SARAH PALIN, SCARLETT JOHANSSON, SOL LEWITT, STEVE JOBS, TIGER WOODS, VAN JONES, VENUS & SERENA WILLIAMS, WERNER HERZOG AND WES ANDERSON

MOST MENTIONED PET

King

ALSO: FRANCIS, PIPER AND PIPPIN

GOVERNMENT AGENCIES DISCUSSED

Five

CIA, FBI, HOMELAND SECURITY, NOAA AND THE NSA

MUSIC DISCUSSED

25

AALIYAH, ANIMAL COLLECTIVE, BELL, BROKEN SOCIAL SCENE, DAEDELUS, DEPARTMENT OF EAGLES, DOVEMAN, EDISON, ELLIOT SMITH, EXPLOSIONS IN THE SKY, FLYING LOTUS, GRIZZLY BEAR, HERE WE GO MAGIC, ITAY TALGAM, JEAN LOUIS, JEAN LUC, JONATHAN RICHMAN, JOY DIVISION, KEVIN DREW, NEIL YOUNG, NICO MUHLY, PREFUSE 73, SAM AMIDON, THE KNIFE AND TRICKY

MOVIES DISCUSSED

Thirty

AVATAR, BOYS DON'T CRY, DISTRICT 9, FOOD INC., GOONIES, THE HANGOVER, ICE AGE, LEGEND, MAD MAX, MAN ON WIRE, MILK, MILLION DOLLAR BABY, NICK AND NORAH'S INFINITE PLAYLIST, RATATOUILLE, RUNAWAY, T2, TELL NO ONE, TERMINATOR, THE DARK KNIGHT, THE EXORCIST, THE HURT LOCKER, THE NEVERENDING STORY, THE WRESTLER, TOP GUN, TROPIC THUNDER, WATCHMEN, WHIP IT, WHERE THE WILD THINGS ARE AND ZOMBIELAND

BOARD GAMES DISCUSSED

Five

BALDERDASH, DUNGEONS & DRAGONS, JENGA, MONOPOLY AND SCRABBLE

TYPOGRAPHIC DISCUSSIONS

17

AN ABANDONED TYPEFACE, BALLOON LETTERS, DOUBLE SPACES, DRAWING AN S, KERNING, LETTERFORMS, LETTERSPACING, TYPOGRAPHY ON BOTTLES, ORGANIZING TYPE, PHOTO TYPE COMPOSITION, PICAS, POINTS, RAGGING, SHIPPLAT, TITLING FONT FAMILIES, TYPE AND TYPE WE LIKE

QUESTION 9.
WHAT TOPICS WERE DISCUSSED?

ARo8, encounters,
Asian printing, fevers.
JOHN D, JANUARY 28

China, eggs, airplanes.
ZACH, FEBRUARY 18

Music, work, Daytum.
BRIAN, MARCH 21

Data visualization,
ESPN, New York, Boston,
IDEO, beer, keeping
everything from looking the
same vs. keeping everything
from looking bad.
GIAN, MARCH 28

Work. Jewelry. Ikea.
SAM, APRIL 14

Blogs, pacman,
Grand Theft Auto.
THOMAS, JUNE 12

Schools attended, Daedelus,
Flying Lotus, bpm/
metronomes, Sarah Palin.
OLGA, AUGUST 19

Mostly family background
and computers.
AUNT RUTH, AUGUST 29

Work, life, ideas, data.
JORDAN, SEPEMBER 11

Life, the universe and
everything! No, seriously...
WARREN, OCTOBER 8

Eating solid foods
versus soft foods and a fear
of hard boiled eggs.
NICK B, OCTOBER 21

Recording in the studio,
computers, high fives.
GUNNAR, NOVEMBER 20

Food

A record of consumption.

FIGURE 13. VEGETABLES VS. SWEETS VS. FRUITS

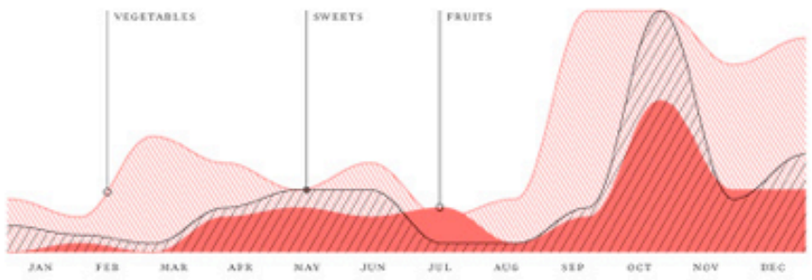
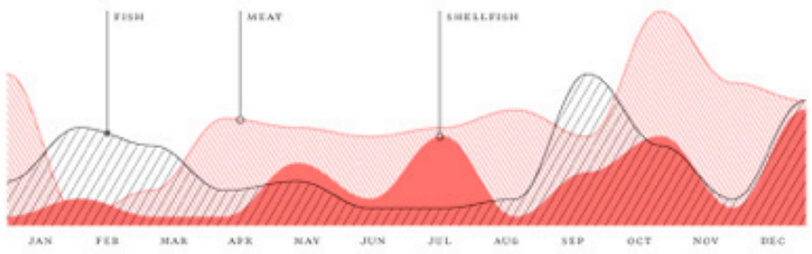


FIGURE 14. FISH VS. MEAT VS. SHELLFISH



NUMBER OF MEALS

325

58% OF REPORTS

MOST COMMON PREPARATION

Salad

REPORTED 39 TIMES

MOST REPORTED FRUIT

Apple

REPORTED 7 TIMES

NUMBER OF SNACKS

25

5% OF REPORTS

MEALS COOKED

One

SOPA DE POLLO

MEAL WITH MOST INGREDIENTS

Graffiti

DEC 17, 2009

MOST FREQUENT INGREDIENT

Eggs

REPORTED 21 TIMES

MEAL WITH MOST REPORTS

Back Forty

JUN 12, 2009, REPORTED 7 TIMES

NEW YORK RESTAURANTS VISITED

111

INEDIBLE ITEMS CONSUMED

Time & Words

ICE CREAM FLAVORS CONSUMED

Nine

CHOCOLATE, COOKIES 'N CREAM, CRÈME FRAÎCHE, GREEN TEA, LYCHEE, PEPPER, PINK PEPPERCORN, SESAME AND VANILLA

TYPES OF VEGETABLES CONSUMED

65

ARTICHOKES, ARUGULA, ASPARAGUS, AVOCADOS, BEANS, BEETS, BLACK BEANS, BROCCOLI RABE, BRUSSELS SPROUTS, CABBAGE, CARROTS, CAULIFLOWER, CELERIAC, CELERY, CHICKPEAS/GARBANZO, CORN, CUCUMBERS, DANDELIONS, EGGPLANTS, ENDIVES, ESCAROLE, FALL VEGETABLES, FRISÉE, GARLIC CLOVES, GOLDEN CHERRY TOMATOES, GREEN BEANS, GREEN LEAF LETTUCE, GREENS, HEIRLOOM TOMATOES, JALAPENOS, JAPANESE EGGPLANT (NASU), JAPANESE RADISH, KALE, LEEKS, LENTILS, LOTUS, MUSTARD GREENS, OLIVES, ONIONS, PARSNIPS, PEAS (PISELLI), PEPPERS, POTATOES, RADICCHIO, RADISH, RHUBARB, ROMAINE, SCALLIONS, SEAWEED (HIJIKI), SEAWEED (NORI), SHRUBBERY, SNOW PEA GREENS, SOYBEANS (EDAMAME), SPINACH, SPRING PEAS, SPROUTS, SQUASH, STRING BEANS, SWEET PLANTAINS, SWEET POTATOES, TOMATOES, TURNIP, WATERCRESS, WATERMELON RADISH AND ZUCCHINI

TYPES OF CHEESES CONSUMED

Twelve

AGED NZ CHEDDAR, BRIE, BURRATA, CHAVRIE, CHEDDAR, GOAT, GORGONZOLA, GRUYÈRE, MOZZARELLA, PANEER, RICOTTA AND SPANISH

MOST REPORTED FLAVOR

Spicy

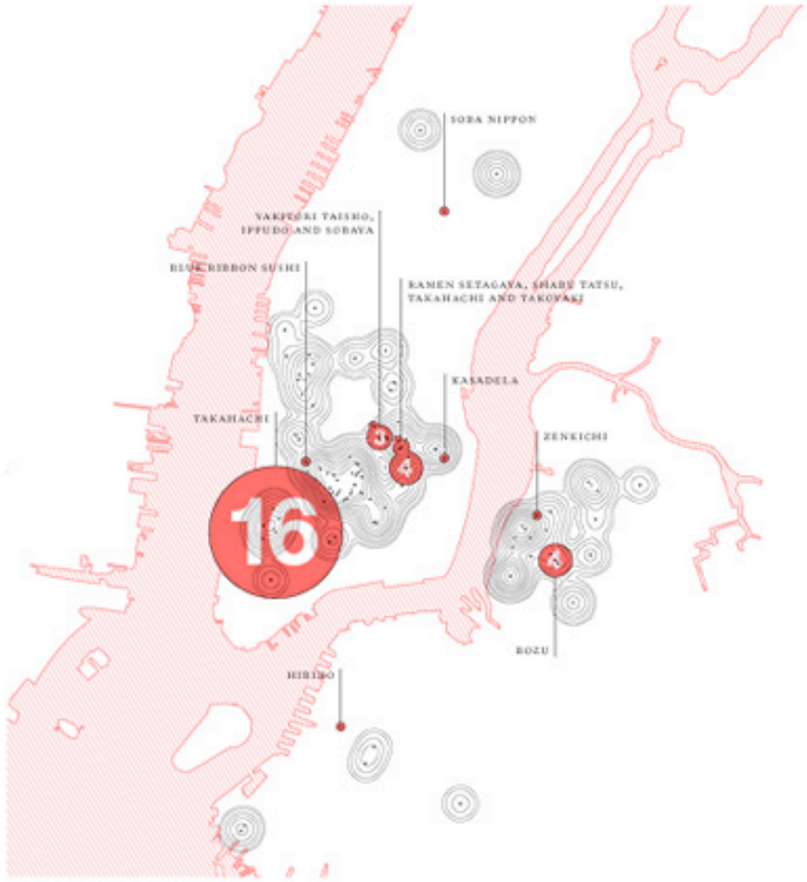
REPORTED 8 TIMES

TYPES OF NUTS CONSUMED

Seven

ALMONDS, CASHEWS, HAZELNUTS, PEANUTS, PINE NUTS, PISTACHIOS AND WALNUTS

FIGURE 15. JAPANESE VS. ALL RESTAURANTS



TYPES OF FISH CONSUMED

28

ANCHOVY, BLACK COD, BONITO, CAVIAR, COD, EEL, FATTY TUNA (TORO), FLUKE, HADDOCK, HALIBUT, HERRING, MACKEREL (SABA), MEDIUM FATTY TUNA (CHUTORO), MONKFISH, RANDOM, RED SNAPPER, SALMON, SANMA, SARDINE, SEA BASS, SKATE, SMOKED SALMON (LOX), SNAPPER, SPRAT, TROUT, TUNA (MAGURO), WHITEFISH AND YELLOWTAIL (HAMACHI)

TYPES OF SWEETS CONSUMED

Twenty

BANANAS FOSTER, CAKE, PUDDING, BROWNIE, CHOCOLATE, COOKIE, CUPCAKE, CUSTARD, LOG, GALETTE, GUMMY BEARS, ICE CREAM, M&M'S, NEO-DING DONG, PANNA COTTA, PIE, SORBET, TART, TORTE AND WHOOPIE PIE

TYPES OF FRUITS CONSUMED

24

APPLE, APRICOT, BANANA, BLACK CURRANT, BLUEBERRY, CHERRY, COCONUT, CRANBERRY, DATE, FIG, GRAPEFRUIT, KIWI, LYCHEE, MANGO, MELON, NECTARINE, ORANGE, PEACH, PERSIMMON, PINEAPPLE, RAMBUTAN, RASPBERRY, STRAWBERRY AND WATERMELON

QUESTION 9.
DID NICHOLAS EAT ANYTHING?

Edamame and BBQ pork ramen.
JASON K, MARCH 11

Yes, loads! Biscuit & tempura starter, uni with miso and spring peas, fluke, soft shell crab, caviar, asparagus and mushrooms, braised short rib and celeriac, foie gras and lychee, melon sorbet, funnel cake and sesame ice cream.
DANIELLE, JUNE 8

Almonds and maybe a cookie.
EMILY B, JULY 31

Yes. Cabbage stew with white wine, rosemary garlic bread, pear tart.
SARAH B, OCTOBER 10

I believe he had one plate of terrible lasagna.
JENNA, OCTOBER 22

Cheese sticks?
JESSICA H, OCTOBER 29

So many things! Should I list them all?? Chili pork dumplings, grapefruit confit - zucchini hummus pizza - pickled ginger scallops, candied red chili - green mango paneer - graffiti burger, garlic fingerling potatoes, chipotle mayonnaise - braised pork buns, apricot chutney - chickpea crusted skate, mint yogurt sauce - hazelnut chocolate caviar cupcake, chocolate chip ice cream - warm truffle almond strawberries, pepper ice cream.
MARIANA, DECEMBER 17

Drink

An accounting of refreshments.

FIGURE 16. NON-ALCOHOLIC BEVERAGES REPORTED

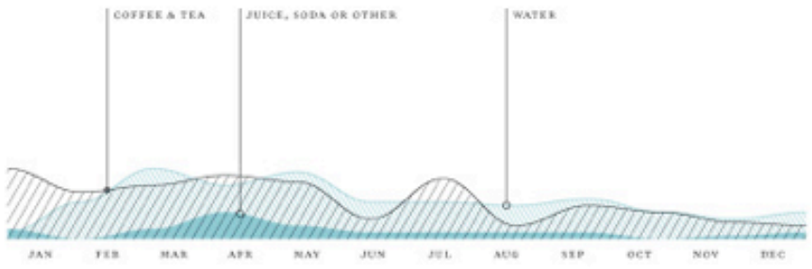


FIGURE 17. ALCOHOLIC BEVERAGES REPORTED

DRINKS REPORTED

778

AVERAGE OF 2.13 PER DAY

MOST REPORTED BEVERAGE

Beer

REPORTED 135 TIMES

MOST REPORTS FROM ONE BAR

41

SHEBEEN

ASSORTED MIXED DRINKS ENJOYED

35

BASIL MARTINI, BLOODY MARY, BOQUEDITO COCKTAIL, CHILI FLAKE MARGARITA, CHRISTMASSY PEAR TEQUILA DRINK, CLOVING COCKTAIL, DARK AND STORMY, DARK-AND-STORMY-RITA, DOMAINE DE CANTON WITH LEMONADE, ELIXIR, FANCY TAMARIND DRINK, FROZEN MARGARITA, GIN AND TONIC, GINGER MARGARITA, GOLD RUSH, GRAPEFRUIT MARGARITA, LOISAIDA SLING, MANHATTAN, MARGARITA, MIMOSA, MOSCOW MULE, MYSTERIOUS RYE AND RYE, MYSTERIOUS TOO-SWEET GINNY LEMONADE, PIMM'S PUNCH, REMEMBER THE ALAMO, SAKE COCKTAILS, SAKE MOJITO, SANGRIA, SHISO MOJITO, SOJITO, STICKY ICKY, STRANGE SOAPY DRINK, TART AND GOOD MIXED DRINK AND WARD 9

BARS VISITED IN NEW YORK

63

BLOODY MARYS ENJOYED

13

MOST REPORTED BEER

Stella Artois

29.5 REPORTS

FIRST ICED COFFEE OF THE YEAR

April 26

FLAVORS OF BEER ENJOYED

Fifty

AMBER ALE, ANCHOR STEAM, ASAHI, BASS ALE, BITTER, BLUE POINT, BLUE POINT TOASTED LAGER, BODDINGTONS, BROOKLYN, BROOKLYN BREWERY BEER, BROOKLYN IPA, BROOKLYN LAGER, BUD LIGHT, CHANG, COORS LIGHT, CORONA, DOS EQUIS LAGER, GUINNESS, HARPOON, HEINEKEN, HITACHINO JAPANESE CLASSIC ALE, HOEGARDEN, HOME-BREWED APPLE CRISP ALE, IPA, JAPANESE, KIRIN, LAGER, LEZAISK, MCSORLEY'S ALE, MORETTI, NEGRO MODELO, OB, ORION, PERONI, RED STRIPE, SAM ADAMS, SAPPORO, SIERRA NEVADA, SINGHA, SIX POINTS BROWNSTONE, SIX POINTS IPA, SIX-POINT, SIXPOINT SWEET ACTION, SNUTTYNOSE IPA, STELLA ARTOIS, STONE RUINATION ALE, STOUT, TECATE, THAI AND TSINGTAO

VARIETIES OF COFFEE

Seven

AMERICANO, CAPPUCCINO, COLD, ICED, ICED LATTE, INSTANT AND LATTE

VARIETIES OF SAKE ENJOYED

Seven

CLEAR, CLOUD BANANA, CLOUDY, COLD, IN-A-BOX, NIGORI AND STRONG

SERVINGS OF SODA

10

ARANCIATA, COCA-COLA, LIMONATA AND SPARKLING RASPBERRY DRINK

COFFEE SHOPS VISITED IN NEW YORK

Ten

9TH STREET ESPRESSO, ABRACO, ANGELIQUE, COLOMBE, DUMBO GENERAL STORE, EL BEIT, GIMME, KAFFE 1668, LUCKY SHOT AND SUGAR SWEET SUNSHINE

ALCOHOLIC TO NON-ALCOHOLIC RATIO

2.5:1

FIGURE 18. BARS VS. COFFEE SHOPS

VARIETIES OF WINE ENJOYED

22

ANJOU, CHILEAN CABERNET SAUVIGNON, CHAMPAGNE, VEUVE CLICQUOT, DESSERT, ITALIAN RED, MALBEC, MERLOT, MULLED, MUSCAT, MYSTERIOUS FIZZY WINE, PETIT SYRAH, PROSECCO, RED, RIESLING, RIOJA, ROSÉ, SAKE, SAUVIGNON BLANC, SPANISH TEMPRANILLO, SYRAH AND WHITE

AVERAGE WATERS PER DAY

0.24

AVERAGE BEERS PER DAY

0.99

TYPES OF BEER

Five

BOTTLE, CAN, DRAFT, FROZEN AND IN A COZY

VARIETIES OF JUICE ENJOYED

Three

GRAPEFRUIT, ORANGE AND RIBENA

QUESTION 10.
DID NICHOLAS DRINK ANYTHING?

Two beers, one at 8:45, the other at 11ish.
ELISE, JANUARY 7

Yes. Bloody Mary (2) and coffee. This survey is getting weird.
MARINA K, JANUARY 25

A cup of coffee.
CARA, APRIL 3

2 waters.
SHA, MAY 15

No, but thanks for reminding me that I am a negligent host.
STEPHEN, MAY 15

Boddingtons?
BOB F, MAY 22

Hand-spun shake (strawberry).
NAOVA, MAY 31

A glass of Riesling and 2 Hitachino Japanese Classic Ales, that "tasted saw-dusty."
DANIELLE, JUNE 8

Yes, a beer I think?
ANNA, SEPTEMBER 18

Bloody Mary, latte, seltzer.
OLGA, SEPTEMBER 20

Not that I noticed.
ZEVAN, OCTOBER 18

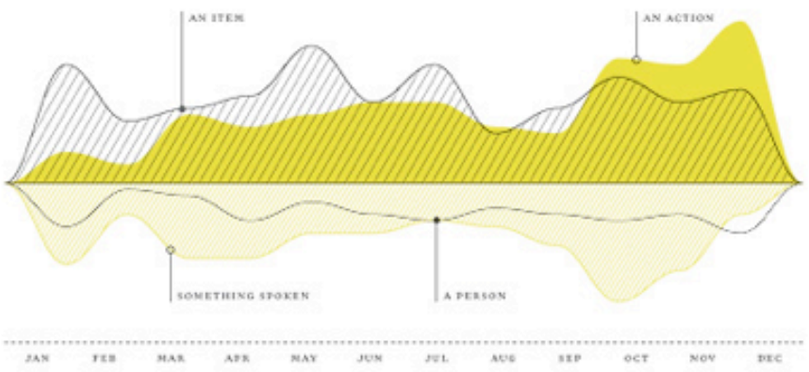
Water.
JENNIFER, NOVEMBER 28

A whiskey beer of the Jameson / Brooklyn IPA variety, champagne, and other stuff.
RYAN, DECEMBER 31

Moment

A compendium of little things.

FIGURE 19. SOURCE OF FAVORITE MOMENTS



MOMENTS REPORTED

525

AVERAGE 1.44 PER DAY

MOST FREQUENT ACTION-RELATED MOMENT

A Realization

REPORTED 10 TIMES

UNFORTUNATE INCIDENTS

Four

1. THE SIMULATED NECK BITING
2. THE DRINK PINCHING
3. THE WHITE WINE SPILL
4. THE ACCIDENTAL PURSE DUMPING

OBJECT-RELATED MOMENTS

Seventy One

55, A TOOTHBRUSH, AN AGENT PROVOCATEUR CATALOG, AMADOR'S CHIPPED TOOTH, AN ARDUINOHEI, BALLOONS, A BEACH TOWEL, BED-AS-COUCH, BIKE POLO, BOWLING WINS, A CAB RIDE, CANGREJO!, A CAT ON A LEASH, A COLLAGE, COMMON SNEAKERS, DAYTUM CHARTS, DJING, AN ENTIRE MORNING, THE FAILSAFE HEADACHE-BUSTER, FIREWORKS, A FOLDER STRUCTURE FOR ORGANIZING TYPEFACES, FRANCIS WITH HIS TOY, A GALLON OF WATER, A GIANT CHIHUAHUA, A GRIZZLY BEAR, GYPSIES, HIGH FIVES, A WEBSITE, THE HOT TUB, INFORMATION GRAPHICS, AN INVITATION, KID ROCK VIDEO, KINGSLEY, KISSES ON THE CHEEK, KNOWING SMILES, A LETTER, THE LIMO, MATT'S SHORT PANTS, A NONICORN PICTURE, NEW DAYTUM FEATURES, NICK WITH A BABY, NICK WITHOUT HIS GLASSES, NO PANTS TUESDAY, A NOTEBOOK, OCTOPODES, OLGA'S AUSTRALIAN ACCENT, AN OPEN STREET MAP EMAIL, AN OUTFIT, OUTPUT FROM THE TWITTER SENTIMENT ANALYSIS, A PHOTO, PHOTOGRAPHS, A PINK SHIRT, A PRESENTATION, A REPORT, THE RIDICULOUSLY SMALL LIFT, SEATS, SHORTS, A TATTOO, THE TONTSHOP SPREAD, THE GIFT, THE GOOD TIMES, THE LAST TWO HOURS, THE NAM NAM FILM, THE THREE-MINUTE RAGE, THE USELESS GATE, THE VERY LAST MOMENT, THE VIDEO OF MATT, A TRAVEL JOURNAL, A TUFTE-WORTHY ILLUSTRATION, THE WATER POLICE, WORK

MUSIC-RELATED MOMENTS

Five

ARCADE FIRE, GRIZZLY BEAR, SINGING, THE MARIO/MIA MIX, ALMOST THREE-PART HARMONY OF RADIOHEAD'S "BLACK STAR"

PEOPLE-RELATED MOMENTS

58

21 DIFFERENT PEOPLE

MONTH WITH THE MOST MOMENTS

October

65 MOMENTS

ENCOUNTERS WITHOUT A MOMENT

79

PRIVATE MOMENTS

Three

JOKES REPORTED

14

QUESTION 11. PLEASE DESCRIBE YOUR FAVORITE MOMENT.

Nick's OCD, but messy workspace. And his anxiety about the mess.
ELISE, JANUARY 12

Nick made two jokes! One, inadvertently, about flying in and one about a graph.
NARIANA, MARCH 5

The slow realization that both our coffees were cold, followed by the acceptance of that situation and following enjoyment of said coffee.
MATT M, APRIL 8

First sip of cold BK lager.
BOB F, APRIL 17

Realizing that we have a common pair of sneakers.
BOB D, MAY 8

Nicholas acknowledged that Oakland has become San Francisco's Brooklyn, which I feel is important for non-SF residents to understand.
NICHAL, MAY 15

Leaving work when it was still light outside.
DANIELLE, JUNE 6

The pun about Juneau.
OLGA, AUG 19

The part where we bowled.
CAITLIN, DECEMBER 13

Dessert. The potatoes next to the burger. The burger.
GLENN, DECEMBER 17

Watching Bill Murray drunkenly dig out his station wagon from the snow.
MATTHEW G, DECEMBER 19

Etc.

Aggregated miscellany.

FIGURE 20. SURVEY WORDS PER SECTION

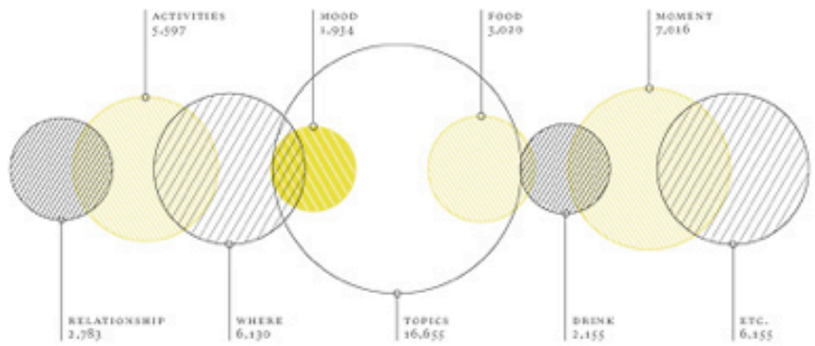
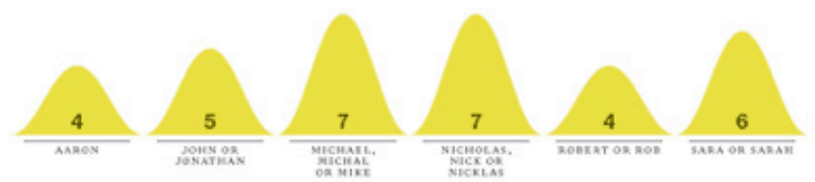


FIGURE 21. FREQUENCY OF PARTICIPANT SURNAMES



TOTAL WORDS SUBMITTED

51,445

URLS RECEIVED

19

MOST CONSECUTIVE ! MARKS USED

Eight

MOST REPORTS SUBMITTED

78

OLGA, 24% OF TOTAL

FIREFLIES SPOTTED

Two

JUNE 28 AND JULY 1

CURSE WORDS SUBMITTED

Two

14 TOTAL INSTANCES

MOST ENCOUNTERS WITH ONE PERSON

226

MATTHEW G, 12.8% OF ENCOUNTERS

CLOTHING REFERENCES

32

BLACK PANTS, CHALK-STRIPE TEE, COAT, HAT, JACKET, NIKE SNEAKERS, NEW SHIRT, NEW WHITE SHOES, NICE KICKS, ORANGE-SOLED RUNNING SHOES, OREO SHOES, PINK T-SHIRT, PINK V-NECK, PURPLE SHIRT, RAVER PANTS, SEAGULL-PRINT BELT, SHOES, SHORTS, SWEATER, V-NECK SWEATER, VIOLET BUTTON-DOWN, WEEKEND/HOUSE CLOTHES

BACKPACK REFERENCES

13

7 WITH, 6 WITHOUT AND 1 OTHER

AVERAGE TEMPERATURE REPORTED

88°

MILES REPORTED

12.13

QUESTION 12. IS THERE ANYTHING ELSE YOU WISH TO NOTE?

They just wouldn't let him into China.
DANIELLE, JANUARY 19

Nicholas does not like hard boiled eggs.
JESSICA B, FEBRUARY 26

I think it's funny that Nick carries a backpack.
BONNIE, MARCH 1

It seems like Nicholas has a very strong prescription for his glasses.
CORY, APRIL 24

It was a roasting hot day in Mill Valley, around 88-91.
JOSHUA, MAY 17

We were out late for a school night.
JOELLE, JUNE 4

I'd like to retract the Teflon comment.
HEATHER, JUNE 4

Hi King.
GILLIAN, JUNE 13

I turned off the taxi television with my mind.
OLGA, AUGUST 27

Unfortunate lack of talk surround sex, drugs, and rock and roll.
JUHAN, OCTOBER 23

Nice to meet you.
MARIJE, OCTOBER 24

I had an awesome time!
RYAN, DECEMBER 31

About

Colophon, etc.

ABOUT THE AUTHOR

Nicholas Felton is a graphic designer based in New York City and the co-creator of the data-tracking website Daytum.com. His Annual Reports and additional design work can be found online at Feltron.com.

ABOUT THE PROJECT

This is the fifth volume of the Feltron Annual Report. It is letterpressed in an edition of 2,000 copies on French Durotone stock by Swayspace in Brooklyn, New York. It is typeset in Nimbus Sans and Galaxie Copernicus. Portions of the report were made using OpenStreetMap, Amazon Mechanical Turk and Processing with technical assistance from Zevan Rosser.

CONTRIBUTORS

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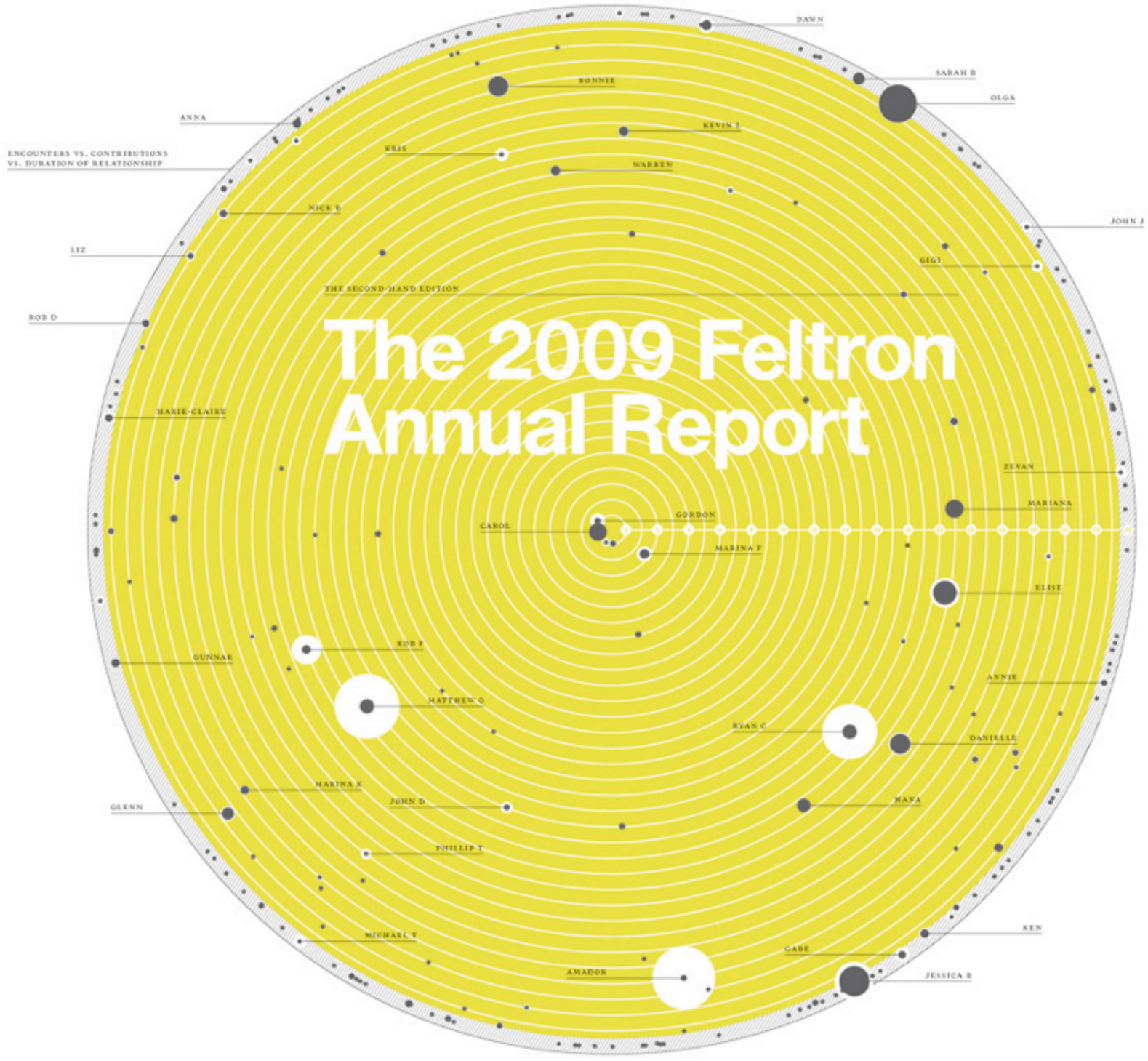

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RA_DIO H EA D / HOUS E _OF CAR DS
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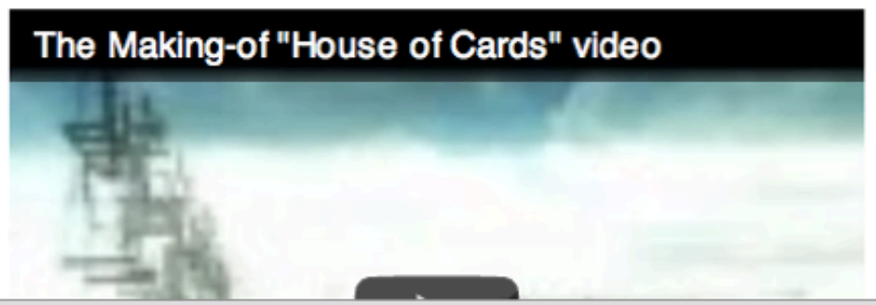
Learn about how the video was made and the 3D plotting technologies behind it.

Explore data visualization and get a hands-on experience with the data.

Download an iGoogle gadget to view the video right on your homepage.

Add the Radiohead iGoogle theme and customize your page with their unique visual style.

The Making-of "House of Cards"



Radiohead just released a new video for its song "House of Cards" from the album "In Rainbows".

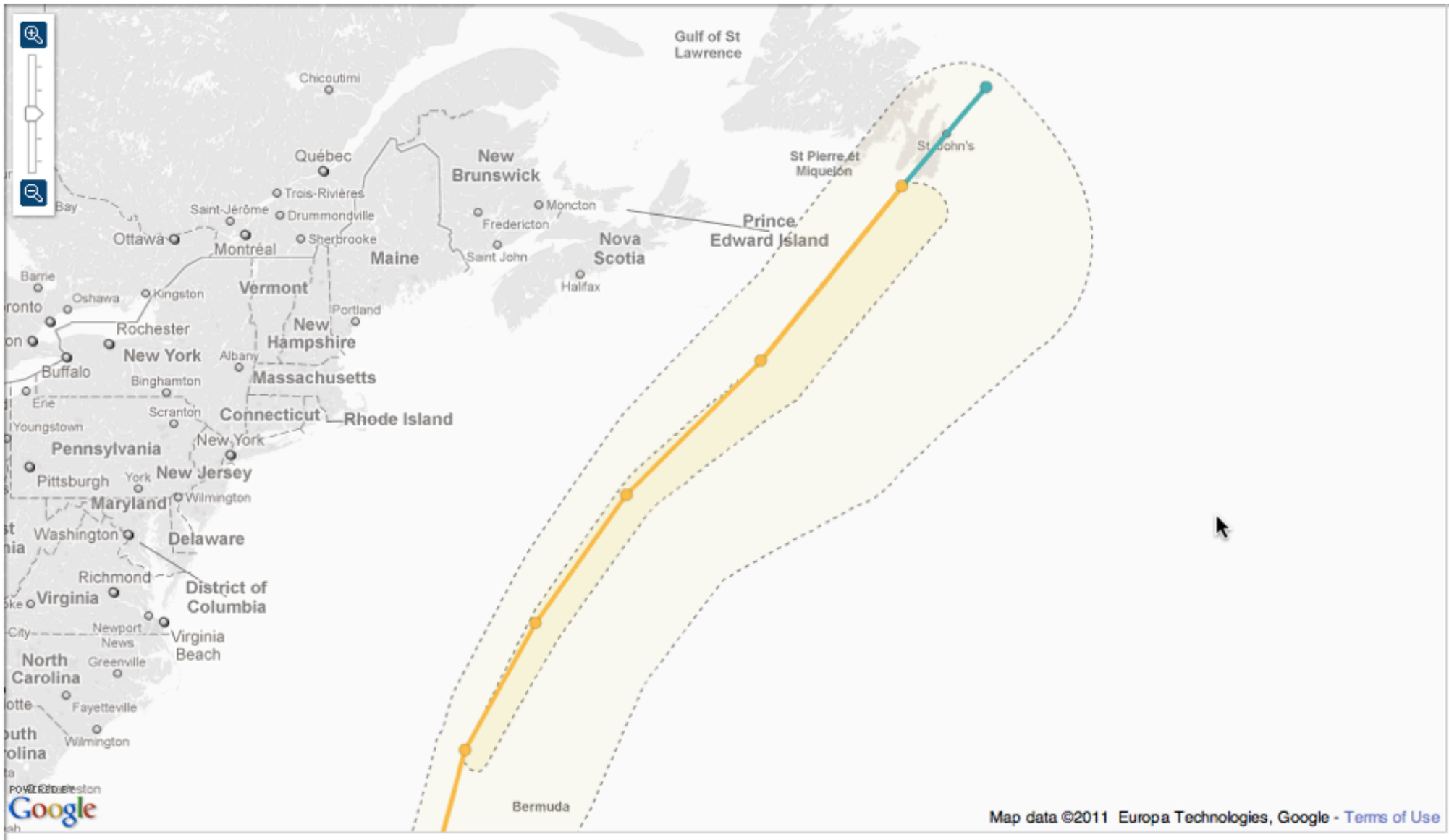
No cameras or lights were used. Instead two technologies were used to capture 3D images: Geometric Informatics and Velodyne LIDAR. Geometric Informatics scanning systems produce structured light to capture 3D images at close proximity, while a Velodyne Lidar system that uses multiple lasers is used to capture large environments such as landscapes. In this video, 64 lasers rotating and shooting in a 360 degree radius 900 times per minute produced all the exterior scenes.

Watch the making-of video to learn about how the video was made and the various technologies that were used to capture and render 3D data.

The New York Times

Hurricane Tracker

Share this on Twitter or Facebook

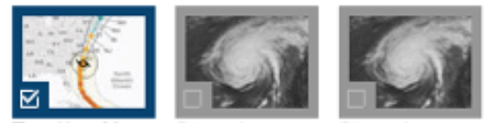


Hurricane Maria

Strength: Category 1 - 81 mph max winds

Last Observed: Sept. 16, 2011

MAP VIEW



Tracking Map | Storm Image Sept. 12 3:00 PM | Storm Image Sept. 9 3:00 PM

MAX WIND SPEED

Storm Strength: Cat. 5 · Cat. 4 · Cat. 3 · Cat. 2 · Cat. 1 · Tropical storm · Tropical depression

By MATTHEW BLOCH, SHAN CARTER and MATTHEW ERICSON | Source: National Weather Service

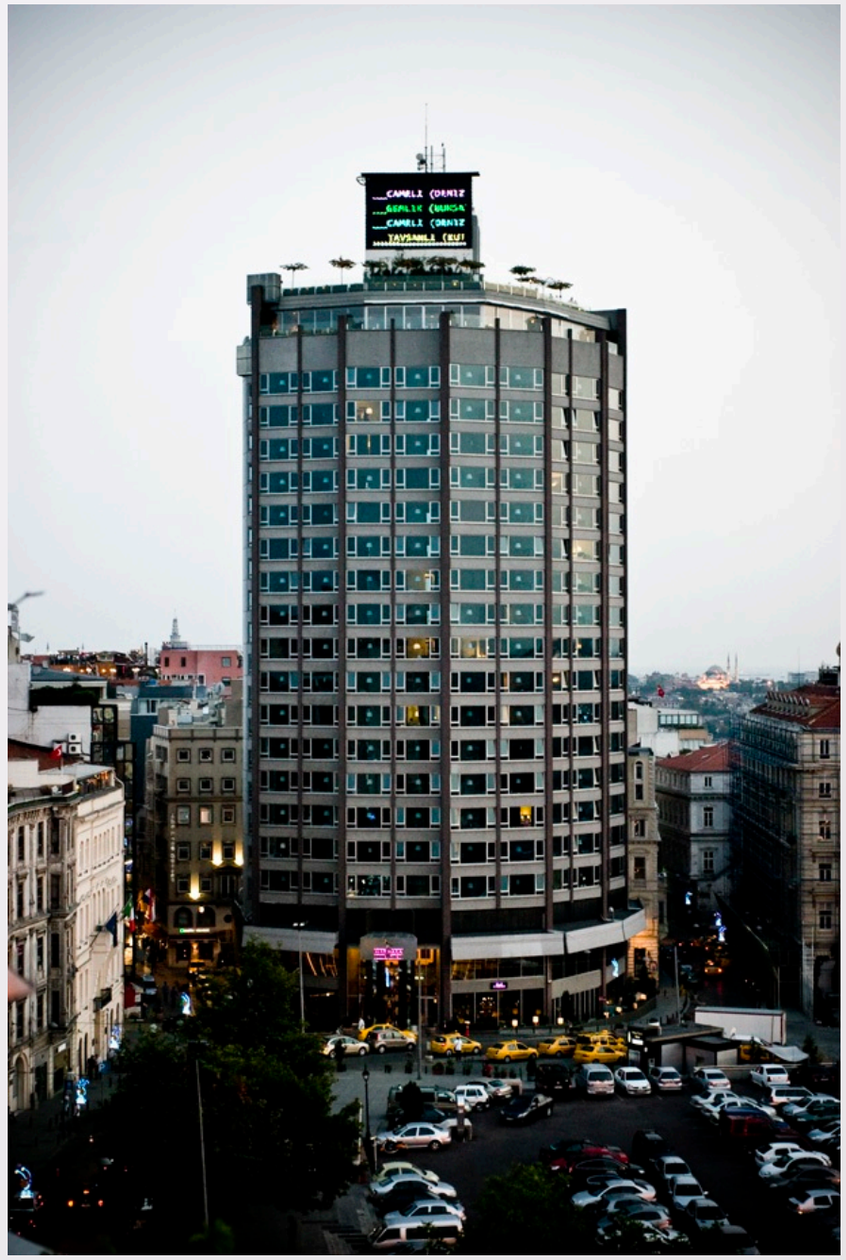
Visualization of Dynamic Data

EVACUATE İSTANBUL!

İstanbul –with a rough estimation and miscalculation – is a city of 12 million. The city is situated near the North Anatolian fault line, which runs from northern Anatolia, along the Black Sea coast to the Sea of Marmara. Two tectonic plates, the African and the Eurasian, push against each other here. This fault line has been responsible for several deadly earthquakes in the region throughout history. Every year under the sea, the southern mass of the fault pushes up from the Arabian Peninsula, with a very fast rupture rate, shifting the northern plate by 2.5cm (one inch) towards Europe. This dead-locked stalemate inevitably reminds us of the dichotomies experienced by the Turkish Republic throughout her history. This idea is also well supported with the fact that the prospective earthquake is an earthly activity which can be coped with in human terms like all the others, rather than being a natural disaster.

In this context, the earthquake (prospective and happening now) and remote Anatolian locations as real and metaphoric phenomenon constitute the content of this show. Minding the hesitant relationship between the art and real life in urban scale, we built our visual strategy complying with conventional data visualisation methods in urban context.

The show is particularly consisted of optimization and visualization of almost real time and updated data parsed from Kandilli Observatory and Earthquake Research Institute web site, for a low-res display, like 240x180 pixels. It is exciting to know that the project will make a modest contribution to the everlasting bright lights of Beyoğlu – formerly known as Pera -.



Evacuate İstanbul!, installation view and screenshots, İstanbul, 2008.

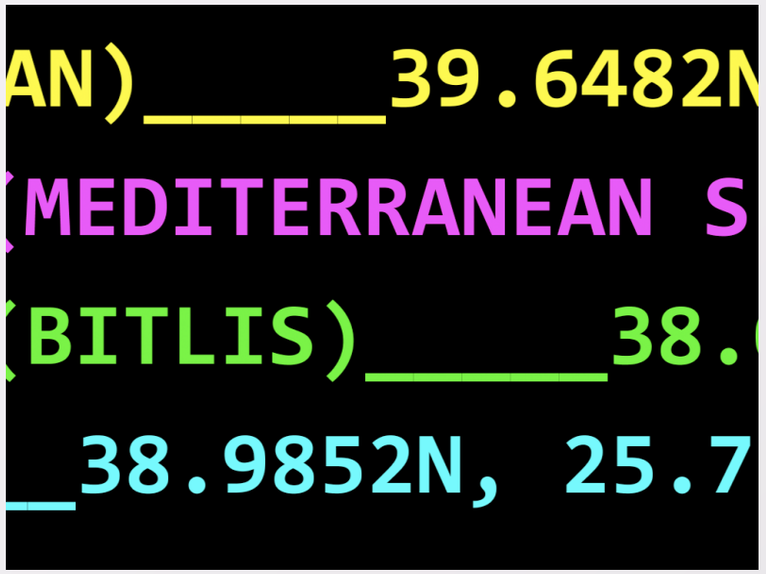
Visualization of Dynamic Data

EVACUATE İSTANBUL!

İstanbul –with a rough estimation and miscalculation – is a city of 12 million. The city is situated near the North Anatolian fault line, which runs from northern Anatolia, along the Black Sea coast to the Sea of Marmara. Two tectonic plates, the African and the Eurasian, push against each other here. This fault line has been responsible for several deadly earthquakes in the region throughout history. Every year under the sea, the southern mass of the fault pushes up from the Arabian Peninsula, with a very fast rupture rate, shifting the northern plate by 2.5cm (one inch) towards Europe. This dead-locked stalemate inevitably reminds us of the dichotomies experienced by the Turkish Republic throughout her history. This idea is also well supported with the fact that the prospective earthquake is an earthly activity which can be coped with in human terms like all the others, rather than being a natural disaster.

In this context, the earthquake (prospective and happening now) and remote Anatolian locations as real and metaphoric phenomenon constitute the content of this show. Minding the hesitant relationship between the art and real life in urban scale, we built our visual strategy complying with conventional data visualisation methods in urban context.

The show is particularly consisted of optimization and visualization of almost real time and updated data parsed from Kandilli Observatory and Earthquake Research Institute web site, for a low-res display, like 240x180 pixels. It is exciting to know that the project will make a modest contribution to the everlasting bright lights of Beyoğlu – formerly known as Pera -.



Evacuate İstanbul!, installation view and screenshots, İstanbul, 2008.

Visualization of Dynamic Data

Aaron Koblin: Artfully visualizing our humanity

Visualization of Dynamic Data

Michel Gondry and Bjork's Paint Piano

Example February 7, 2012

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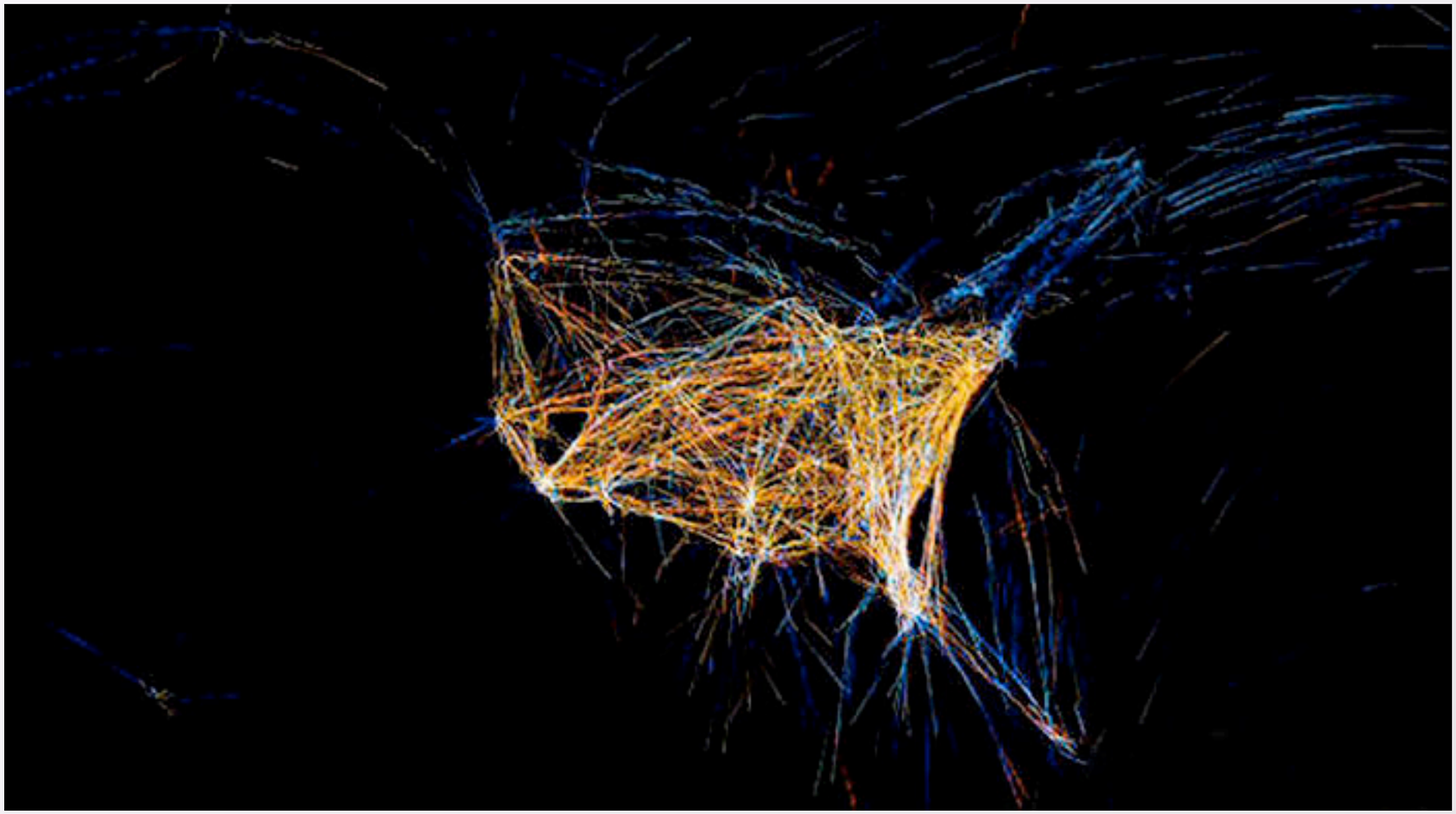

Journalism in the Age of Data

Example

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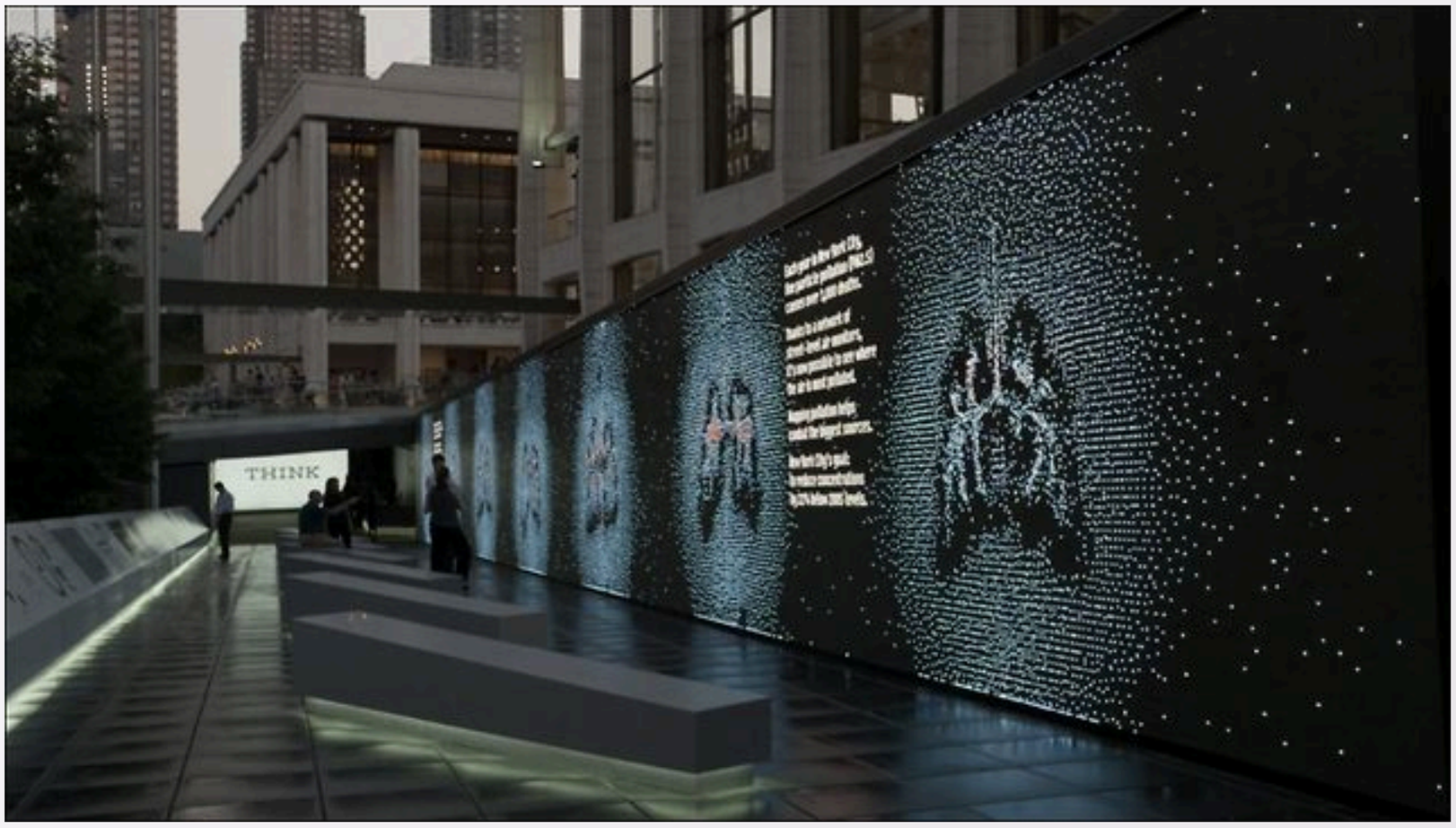
http://www.youtube.com/watch?feature=player_embedded&v=z50XoqzOBLQ

http://www.youtube.com/watch?feature=player_embedded&v=sEZcBeE33wc

http://www.youtube.com/watch?feature=player_embedded&v=nokQBjk1s_8

Britain From Above - BBC

Visualization of Dynamic Data



THINK Exhibit: An Exploration into making the world work better

Example

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Visualization of Dynamic Data

Strata New York 2011 Video

Visualization of Dynamic Data

some other links

http://www.chrisharrison.net/index.php/Visualizations/BibleViz

http://blog.blprnt.com/

http://www.creativeapplications.net/processing/goodmorning-processing/

http://nytlabs.com/projects/cascade.html

http://similardiversity.net/

http://www.mat.ucsb.edu/~g.legrady/glWeb/Projects/algo2/i/

http://artport.whitney.org/commissions/thedumpster/