Information Design and Visualization

The interdisciplinary study of "the visual representation of large-scale collections of non-numerical information, such as files and lines of code in software systems"

Michael Friendly, Professor of Psychology, York University

Information graphics are
the visual representations of information,
data, or knowledge, used where complex
information needs to be explained quickly,
accurately, and clearly

Doug Newsom and Jim Haynes, Public Relations Writing: Form and Style

The purpose of visualization is insight, not pictures.

Ben Shneiderman (1999)

Today, visualization has the potential to become a mass medium. Engagement-grabbing and keeping the attention of a viewer-is the key to its broader success. The clearest, most precise graphic in the world communicates nothing if nobody looks at it.

How To Make Data Look Sexy (2011) Fernanda Viegas and Martin Wattenberg

Infoporn

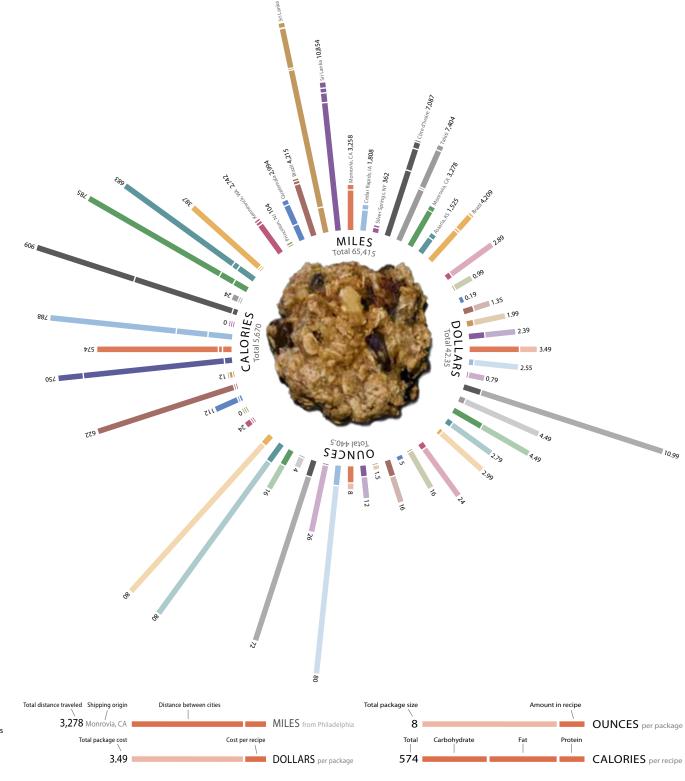
Information which serves no purpose other than to hold the attention of its audience

Wikipedia

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DataSizeInformationWeightIntelligenceDistanceEvidenceFrequencyHistoryAppearance

Quantitative
Qualitative
Measurable
Immeasurable
Hard Data
Anecdata





OAT EVERYTHING COOKIES

From the World to My Kitchen to Your Mouth Alyssa Rosenzweig

For even the simplest of recipes, considerable amounts of resources are spent to bring all the ingredients together into one, delicious item. This project was an attempt to determine how each ingredient in my Oat Everything Cookies made it from the world to my kitchen in Philadelphia to your mouth.

Sources ranged from USDA reports and grower's associations (like the American Sugar Alliance) to sea freight patterns to personal contact withlocal grocery managers, distributors and individual company representatives

Mapping Tchaikovsky

A Visual Orchestral Score of the 1812 Overture



Go to Beginning I Go to End I Scroll I Stop Scroll I



321 tips for happiness

a collection of 321 tips to be happy. everyone is in search of it. everyone is in desperate need of it. click here if you're feeling lucky!

NOUNS

Energy Friends

Happy[11]

Live Love People Stretch Things Time Will

Yourself

VERBS

Be[17]

Develop Do

Dont[10] Find

Get[6]

Give

Have Let

Make

Take[8]

SOURCES

Academics

Artists

Blogs

Books Celebrities

Entrepreneurs

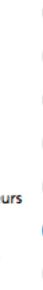
Media

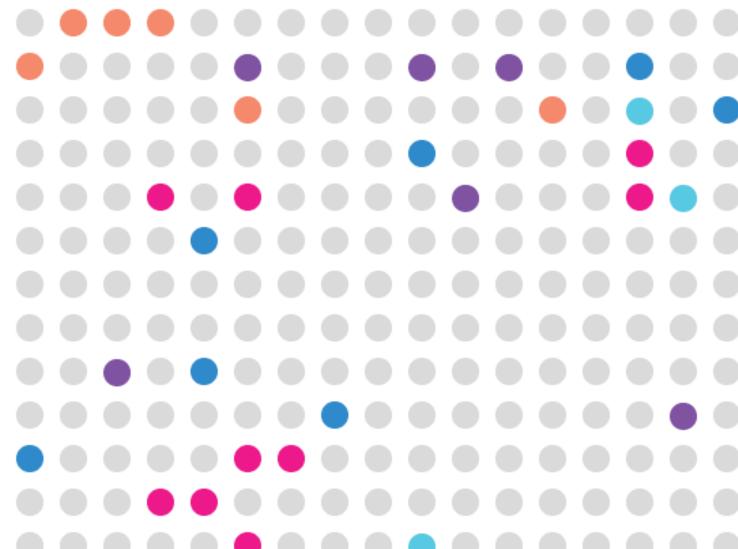
Medicine

Psychology

Religion

Research



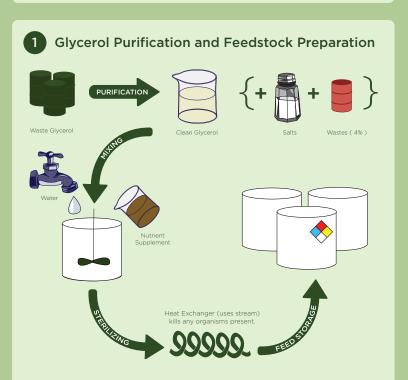


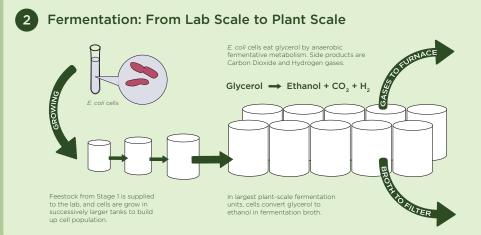
An Alternative to Corn-Derived Ethanol: **Turning Waste Glycerol Into Fuel**

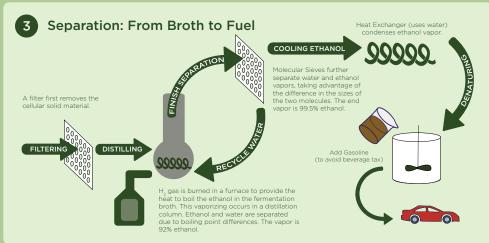
Bacteria can grow on almost anything...

As you may know from personal experience! Do you drink beer? If you do, you may also know that when bacteria are deprived of oxygen, they ferment sugars to make ethanol in order to live. Bacteria can also ferment glycerol to make ethanol, which can be used as a fuel or as a

The scaled-up process for the fermentation of glycerol to ethanol has three stages, which are outlined here.





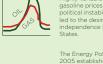


Why Make Ethar

renewable fuels

alternative fuel franchise agree provision that







be used starts gallons in 2006 to 7.5 billion ga The Act also pr petroleum com restricting the



of 85% ethanol gasoline. Ethanol deman Prices will be hi political suppor





Historically eth produced by fe abundance of a



The most abun cheapest sugar U.S. has been o the Midwest, or source has bee Fuel" discussion sugar source is energy indeper

How is Glycerol Made?

Glycerol is a byproduct of the production of Biodiesel from vegetable oils.

For every 100 kilograms of biodiesel produced 10 kilograms of glycerol is produced.



crop that are known for restoring nutrients and



pressing the harvested beans The oil is used for cooking, and



The used oil is reacted with alcohol to create biodiesel and glycerol, which separate into



The glycerol produced during biodiesel manufacturing is

for soap-making.

not clean enough to be used

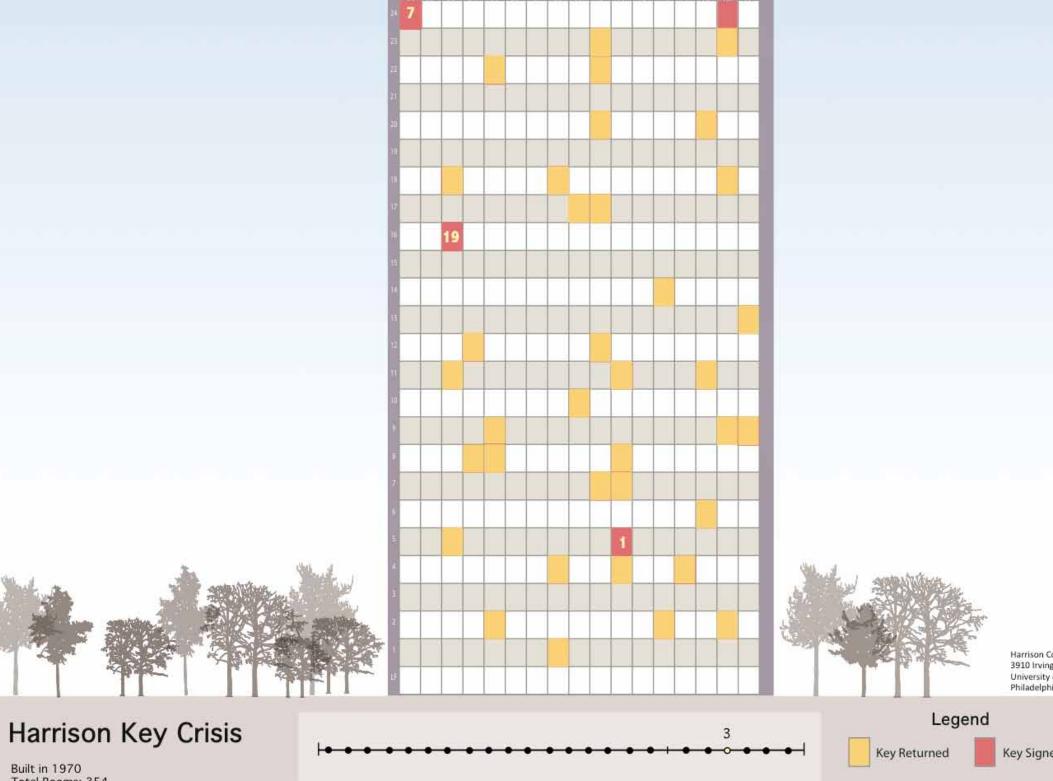


The crude glycerol is how can it be used?



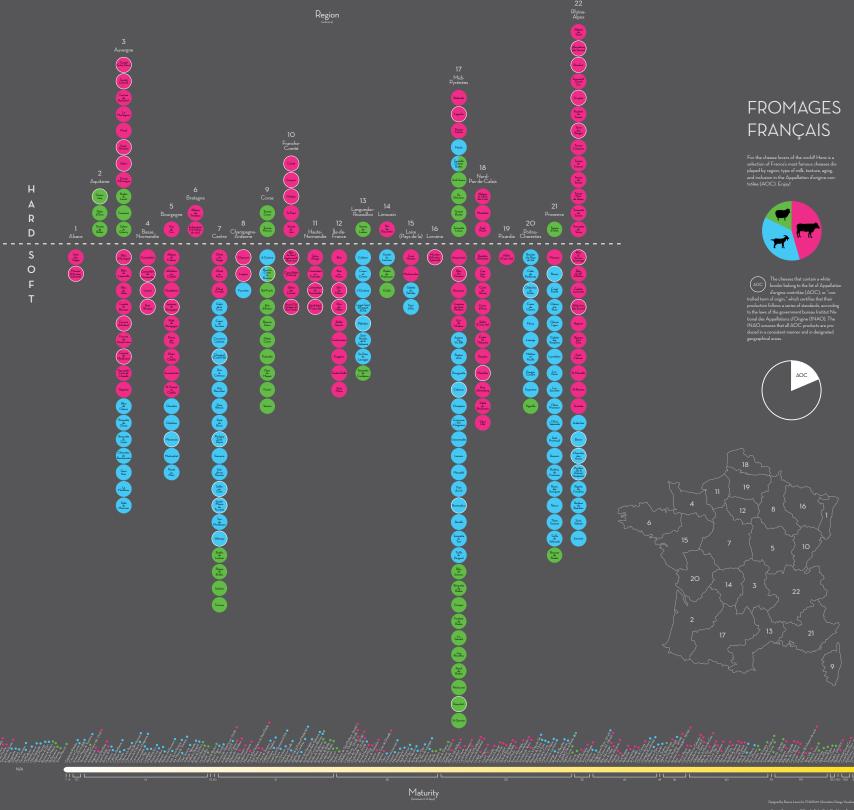


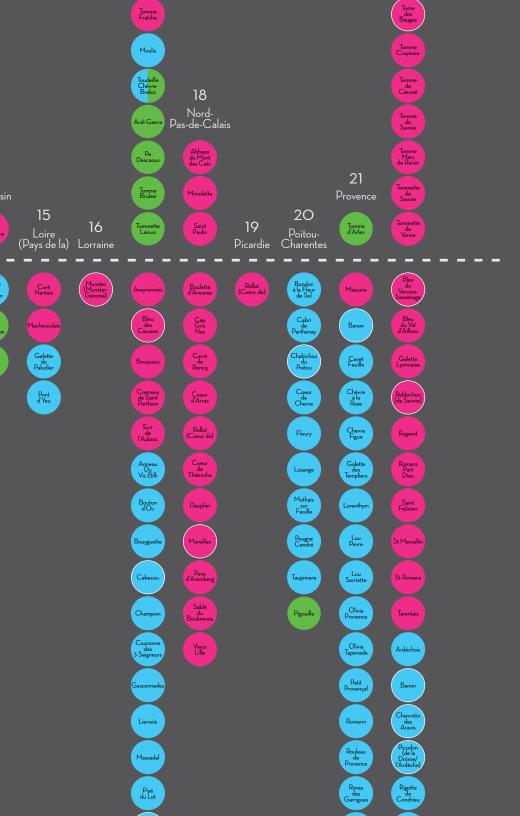
Researchers Dharmadi and Rice University have shown glycerol can be used as a fe sugar source to make ethan



Key Signed Out for 'x' number of

Built in 1970 Total Rooms: 354 Total Residents: 797





FRANÇAIS

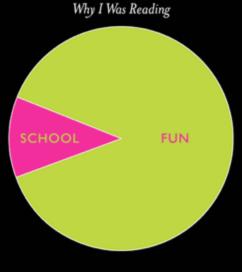
For the cheese lovers of the world! Here is a selection of France's most famous cheeses displayed by region, type of milk, texture, aging, and inclusion in the Appellation d'origine contrôlée (AOC). Enjoy!



The cheeses that contain a white border belong to the list of Appellation d'origine contrôlée (AOC), or "controlled term of origin," which certifies that their production follows a series of standards, according to the laws of the government bureau Institut National des Appellations d'Origine (INAO). The INAO ensures that all AOC products are produced in a consistent manner and in designated geographical areas.



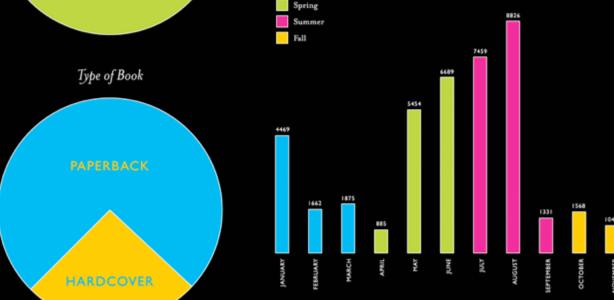




BRYNN SHEPHERD

"An Open Book?"

CUMULATIVE PAGES READ BY SEASON



Winter

Total Pages Read
44770

Average Date of Publication

1985

Earliest Date of Publication

1611

THE TEMPEST
BY WILLIAM SHAKESPEARE

Average Number of Pages Per Book

366.97

Greatest Number of Pages in Any Book

1344

THE POWER BROKER
BY ROBERT A. CARO

YEAR VS. TOTAL PAGES READ (BY GENRE), 1999 - 2009



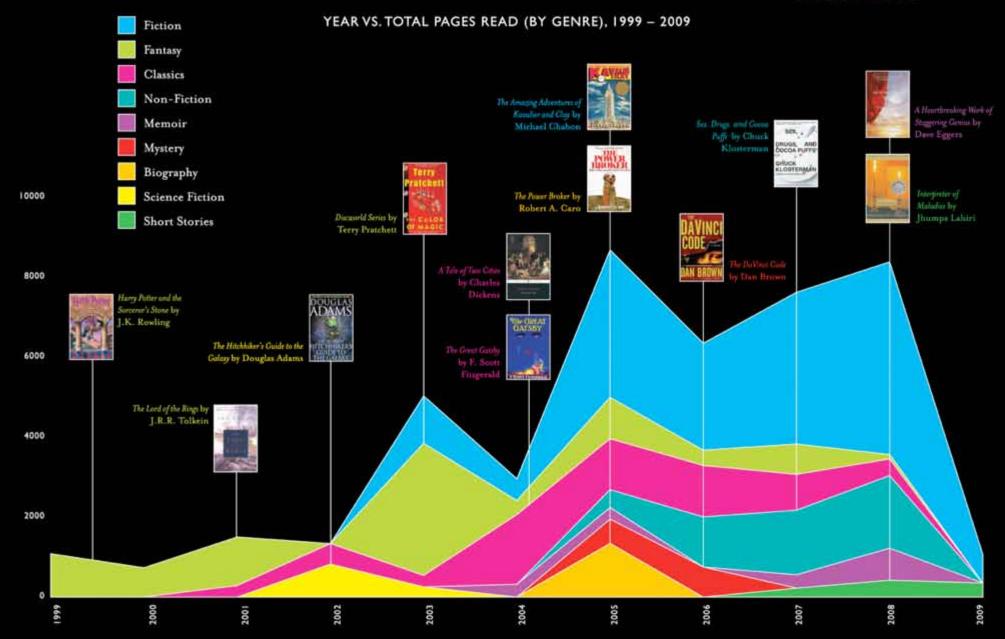








Interpreter of



All information compiled and analyzed using www.goodreads.com and Google Spreadsheets.



View the collection online at: http://danknowlton.com/info-vis/shirts

AHAPPY LIFE SHOULD NOT EQUAL AN UNHAPPY PLANET.

U.S. -

Czech Republic

Iran

CARBON FOOT PRINT.

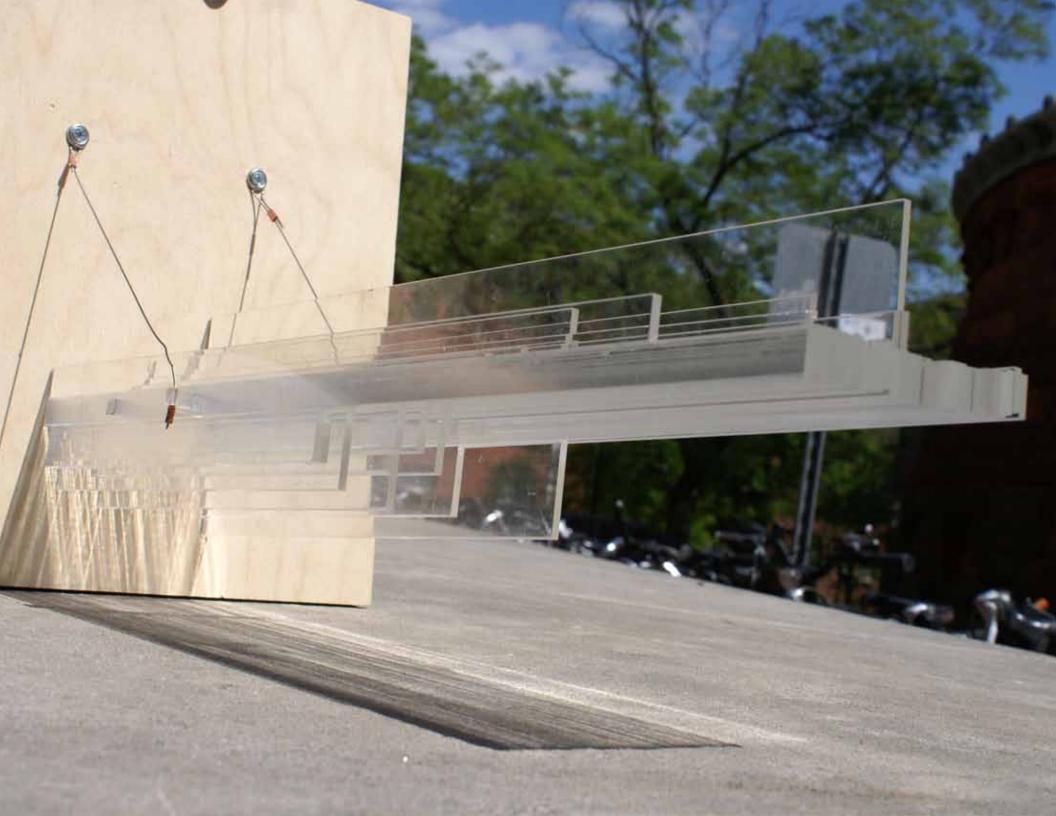
Western Nations Latin America & Caribbean **Former Communist Countries** Middle East East Asia

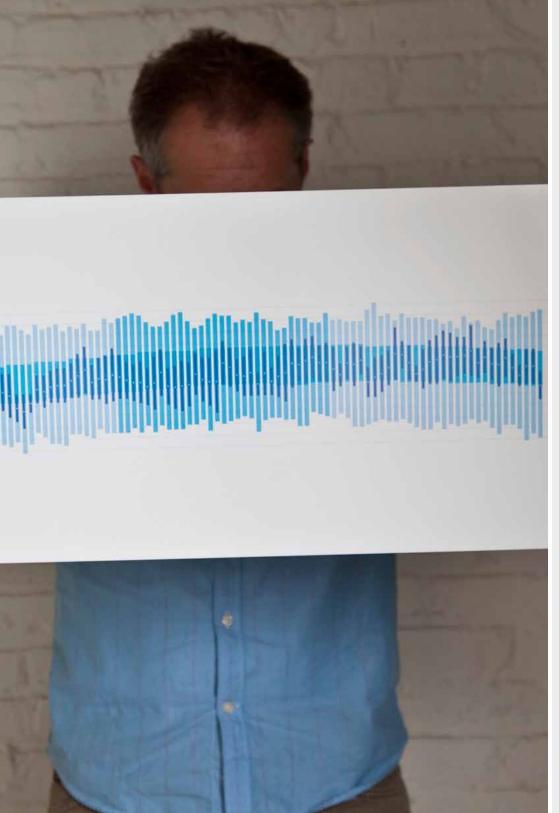
South Asia

Sub-Saharan Africa

Phillippines







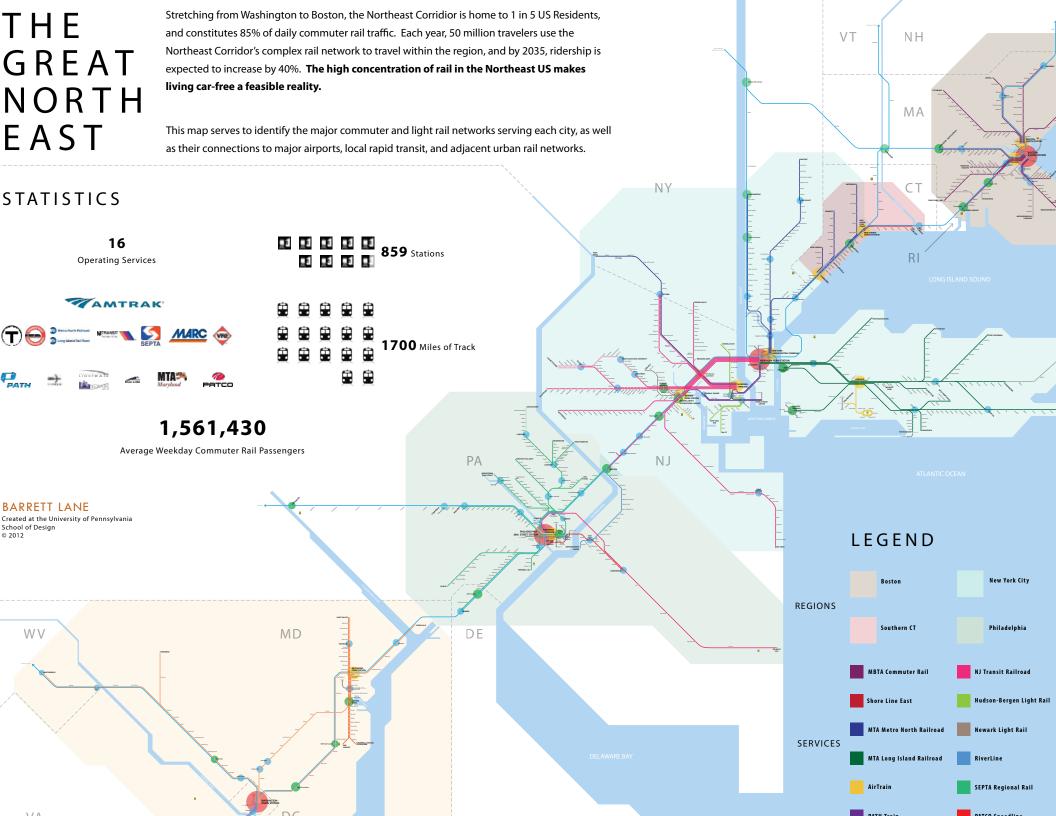
This visualization maps the daily high and lo July, and August, against the normal and reco for each day. Temperature data was recorded b Service for Philadelpia, PA Latitude: 39 52 www.weather.gov/

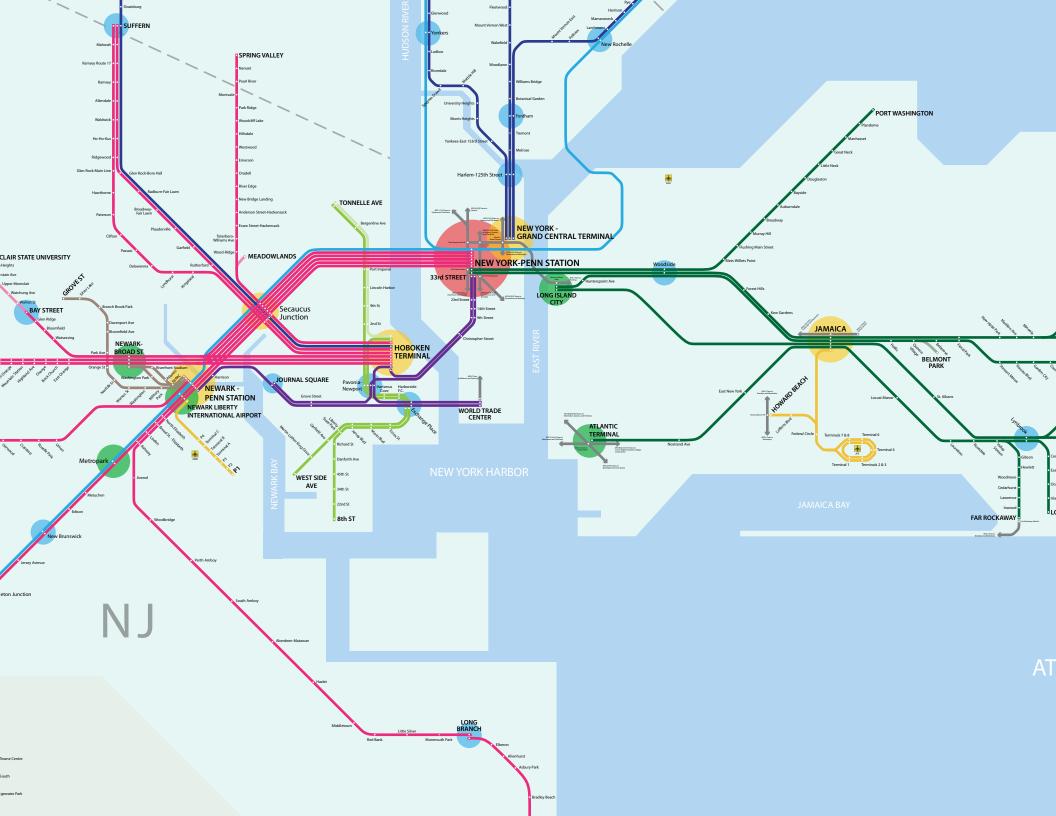
Actual (una average)

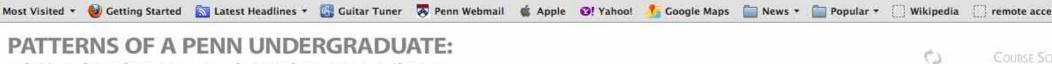
Normal

Record

Jun 2	2009						Jul 200
Day	MaxT	MinT	Records		Norms		Day N
1	73	52	97	44	77	60	1
2	85	62	98	46	77	60	2
3	79	59	97	48	77	61	3
4	65	57	98	47	78	61	4
5	61	57	100	48	78	61	5
6	78	59	100	45	78	62	6
7	83	62	98	47	79	62	7
8	84	66	95	44	79	62	8
9	79	65	98	44	79	62	9
10	78	65	98	47	79	63	10
11	70	64	95	44	80	63	11
12	85	68	95	48	80	63	12
13	80	64	95	50	80	63	13
14	79	63	96	48	80	64	14
15	79	60	100	47	81	64	15







relationships between grades and course attributes

BY VICTORIA SCHWANDA

LEGENDS



