

data structures

introductions

review syllabus

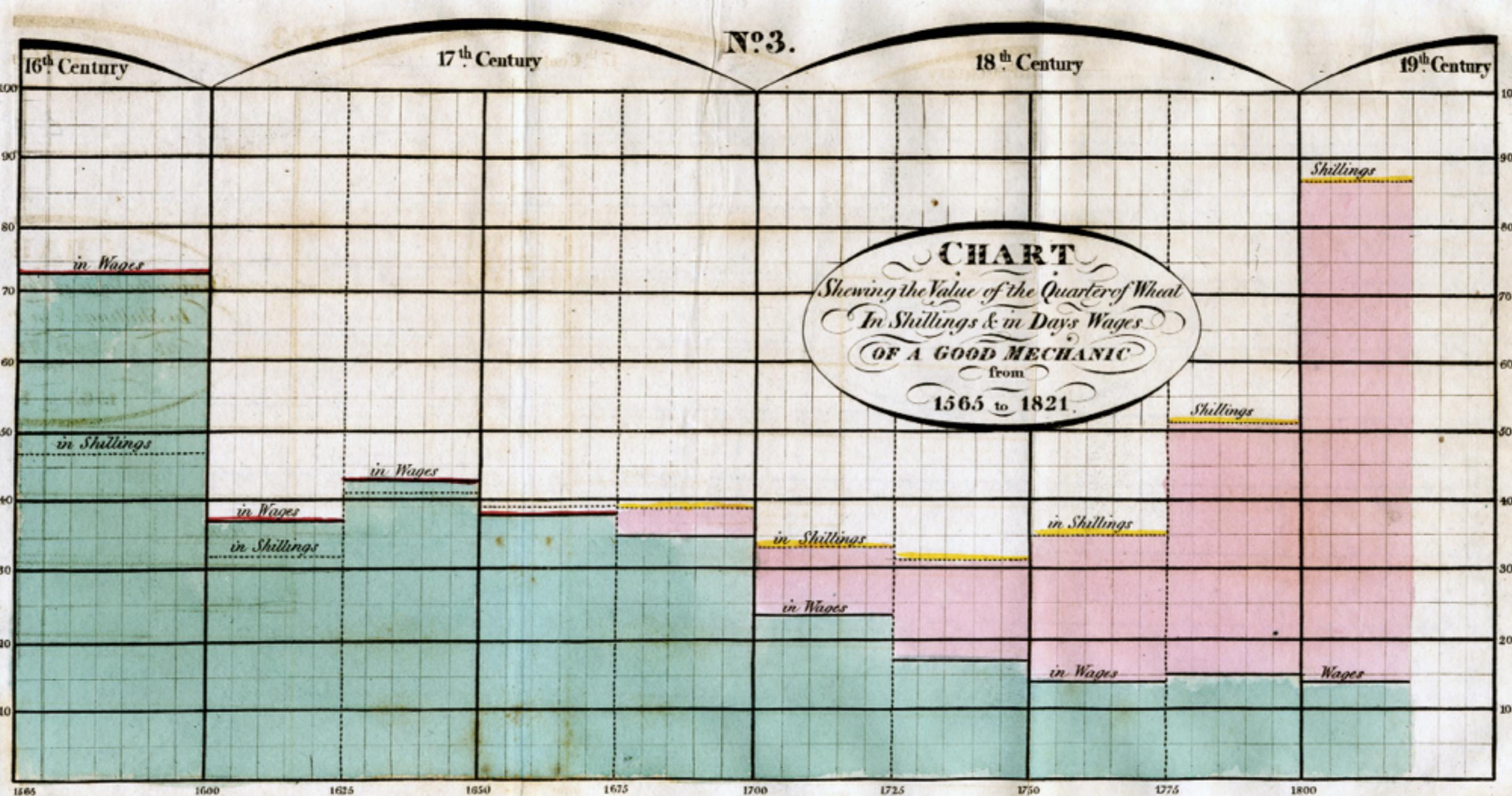
<http://visualizedata.github.io/datastructures/>

data structures

a particular way of organizing data in a computer
so that it can be used efficiently

Nº3.

CHART
Shewing the Value of the Quarter of Wheat
In Shillings & in Days Wages
OF A GOOD MECHANIC
from
1565 to 1821.







<https://www.youtube.com/watch?v=B7XoW2qiFUA>

exp

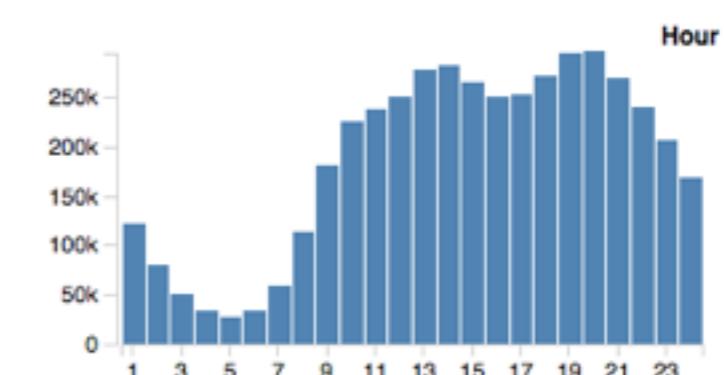
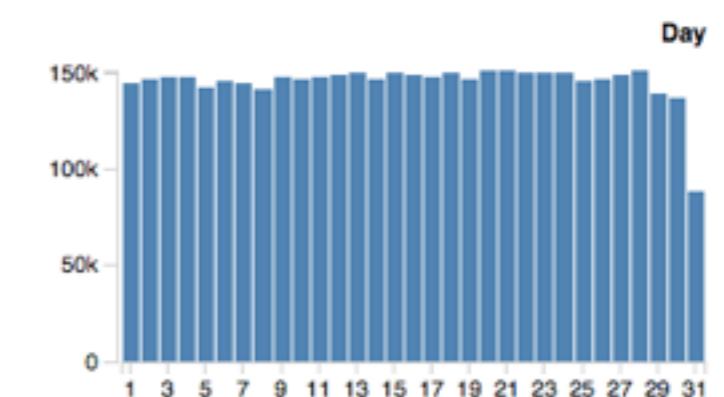
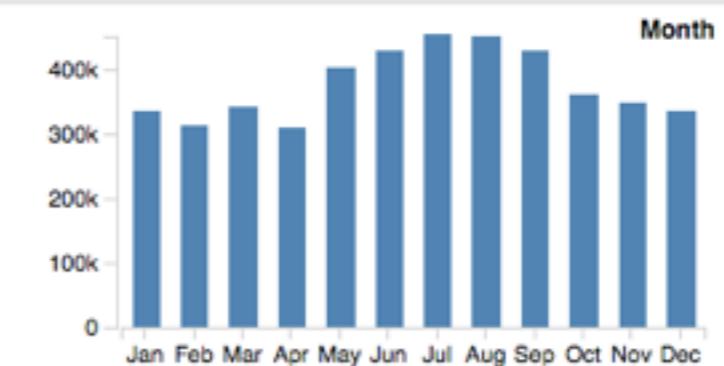
0

73811

benchmark



Powered by [Lufton](#)



Drag to pan
Shift + Drag to select region

<http://vis.stanford.edu/projects/immens/demo/brightkite/>



All ▾

Search for airline flight, aircraft tail #, airport, or city

Track

FORGOT THE FLIGHT NUMBER?

LIVE FLIGHT TRACKING

PRODUCTS

ADS-B

PHOTOS

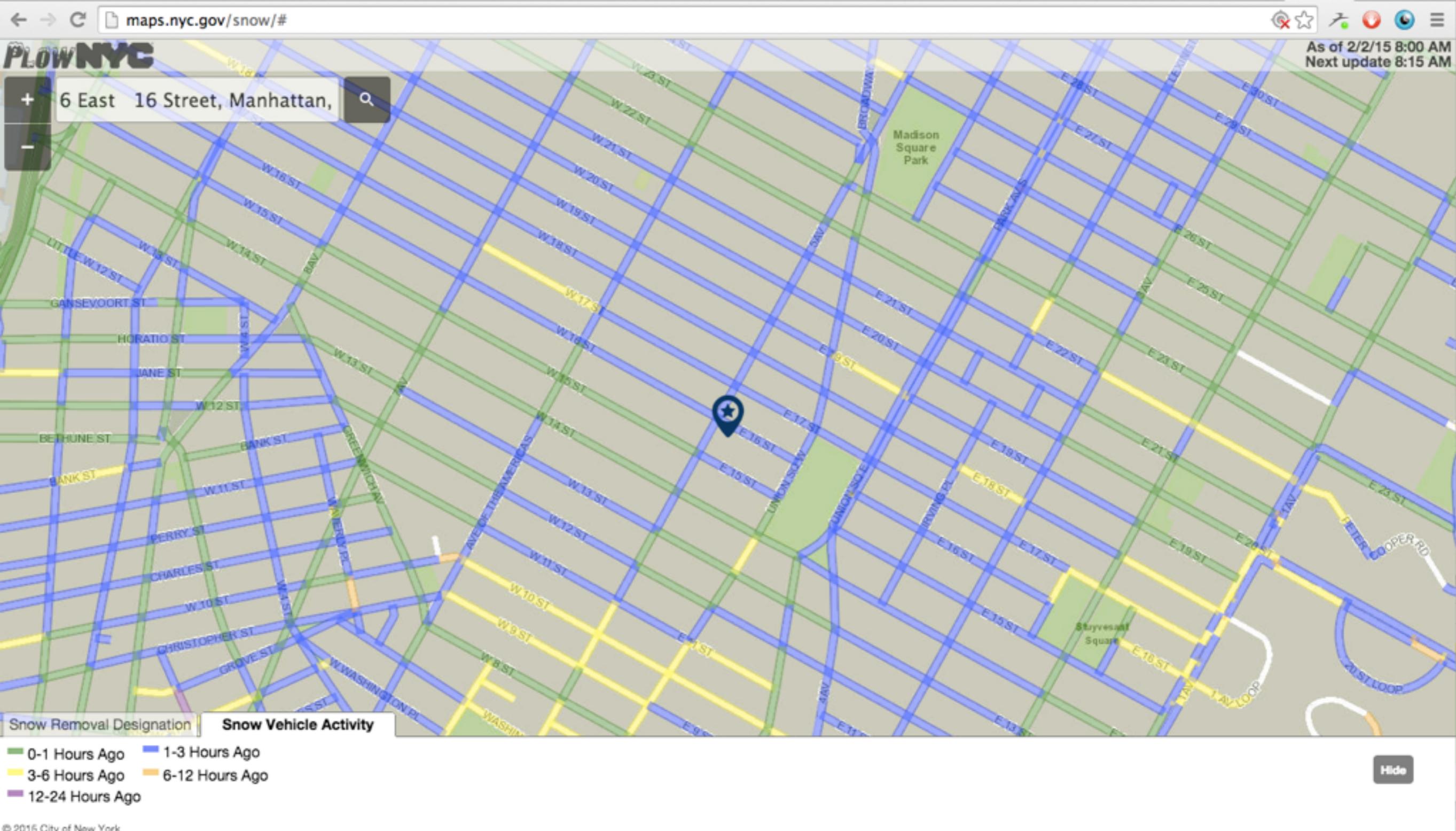
SQUAWKS

DISCUSSIONS

ABOUT

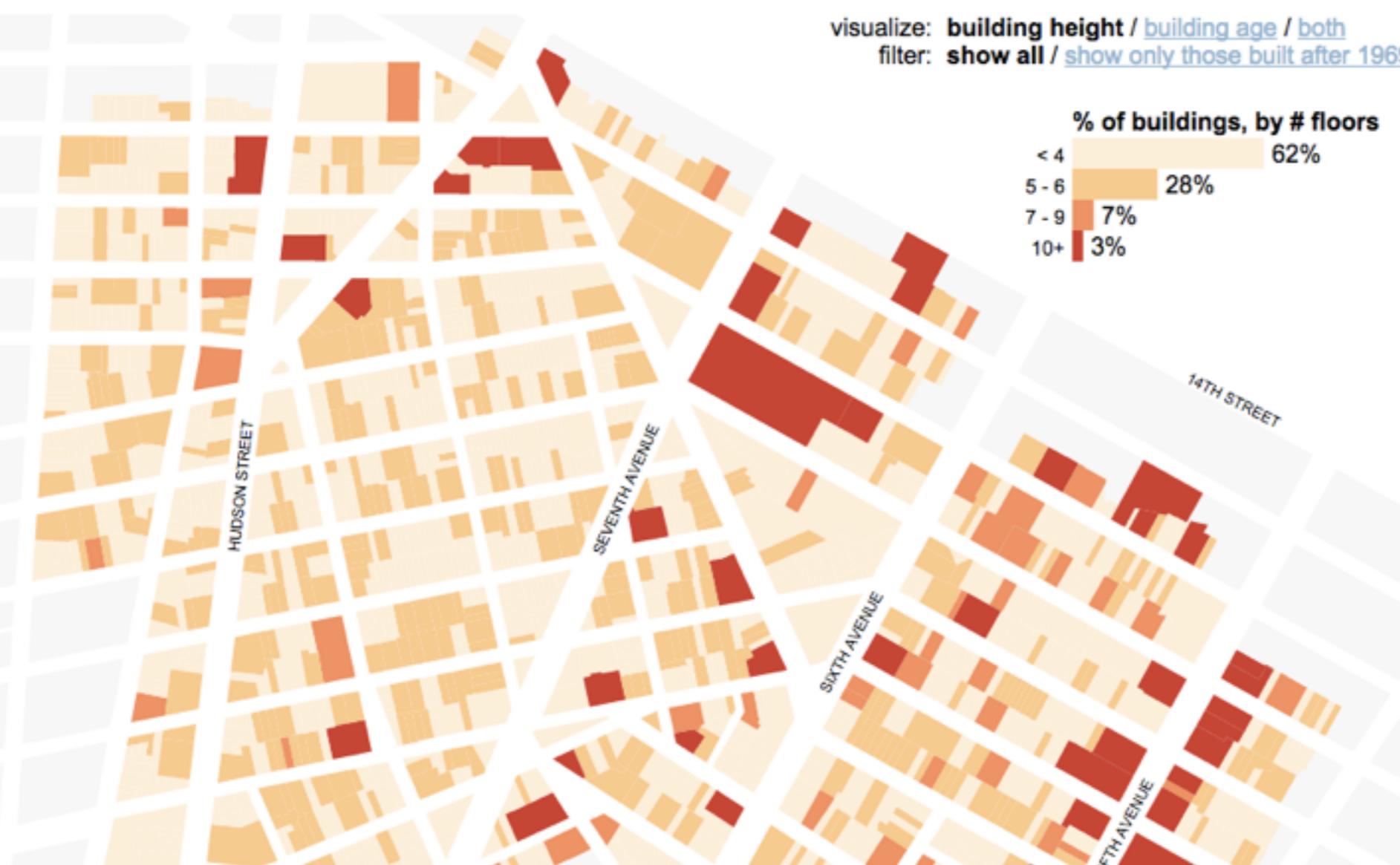
CONTACT





Greenwich Village Historic District

This interactive map shows building density and age by block and lot in the Greenwich Village Historic District. You can visualize building height and/or building age, with the ability to also filter the results to include all buildings or just those built after Greenwich Village was designated a Historic District in 1969. Click on a building for more details and to see a Google Street View image.

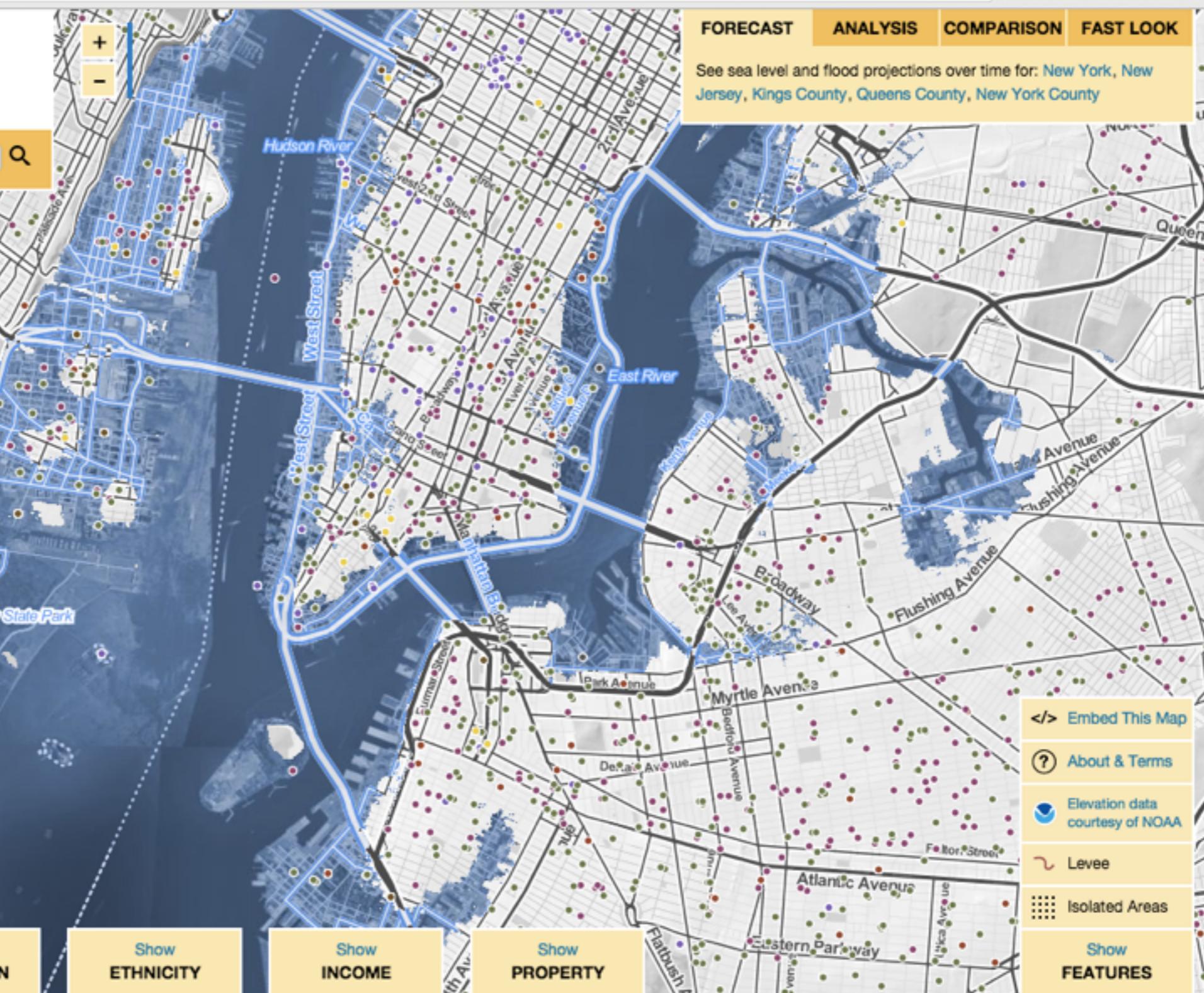


Surging Seas

Sea level rise analysis by CLIMATE CENTRAL

SUBMERGENCE RISK MAP

Type any place (city, etc.)



THE NEW YORKER

INTERACTIVE

A MONTH OF CITI BIKE

It's been nearly two months since New York City rolled out its bike-sharing program. To see how it's faring, we used live data, provided by Citi Bike, to map where people rode for one month. As the month progresses, the circles on the map grow or shrink according to the number of available bikes at each station. Viewed together, they show New Yorkers finding new ways to navigate through the city.
[Read more...](#)

CHOOSE A SPEED OR DRAG THE SLIDER

PLAY

• FAST •

SLOW

Saturday, June 8th, 8:44 AM

DAILY TRIPS

11,432

WEATHER

Rain

High

Low

Precipitation

77° 57° 0.48"[Return to newyorker.com](#)

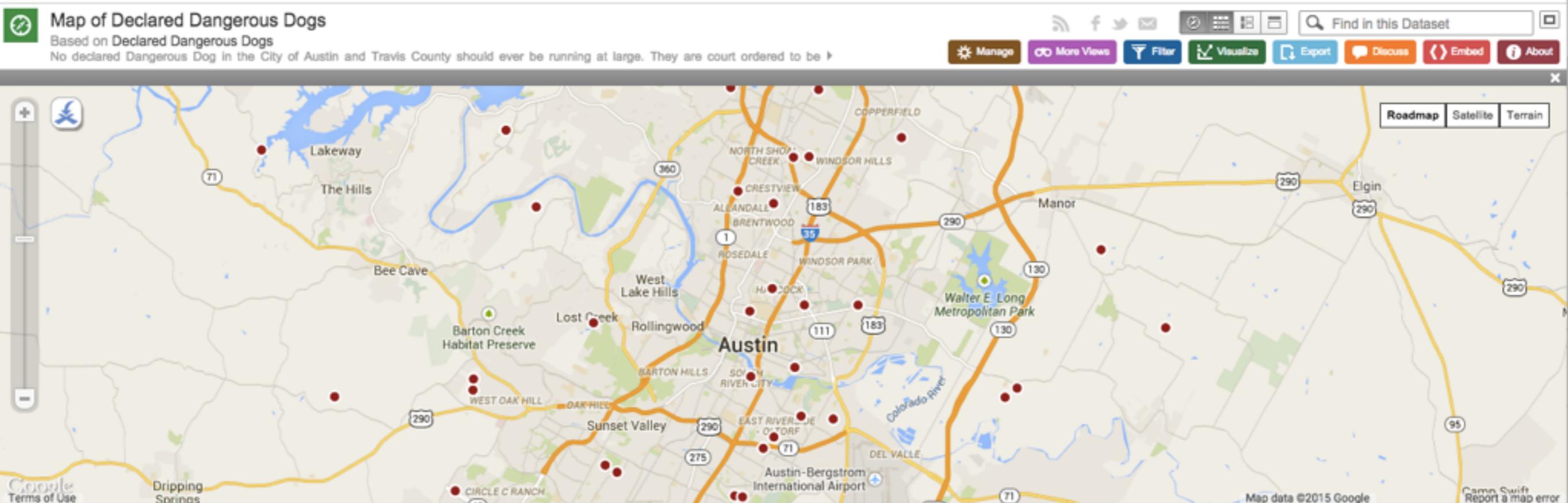
By Larry Buchanan, Michael Guerriero, and Nick Traverse

Bike locations were calculated using Citi Bike's live data on available bikes as reported by the program, and collected every fifteen minutes. Occasional lapses in the program's data appear on the map as small gaps in the time sequence. Weather information is from Weather Underground.

	First Name	Last Name	Address	Zip Code	Description of Dog	Location
1	Raul	Amezquita	2105 Horse Wagon Dr	78754	"Kingston," Neutered Male, white/brown boxer	2105 Horse Wagon Dr
2	Penny	Arnold	3904 Caney Creek	78732	"Salty," male, brown and white Boxer	3904 Caney Creek
3	Francisco	Banda	4809 Clear View Dr	78725	"Weezer," female, Tan/Brown German Shepherd	4809 Clear View Dr
4	Francisco	Banda	4809 Clear View Dr	78725	"Ursula," female, Tan/Brown German Shepherd	4809 Clear View Dr
5	Francisco	Banda	4809 Clear View Dr	78725	"Porsche," female, Tan/Brown German Shepherd	4809 Clear View Dr
6	Jack	Barnett	13101 Winding Creek Rd	78736	"Holly" Spayed female, white Labrador/Pitbull mix	13101 Winding Creek

data.austintexas.gov

[Home](#) [Developers](#) [Videos](#) [www.austintexas.gov](#) [Help](#) [Sign Up](#) [Sign In](#)



First Name	Last Name	Address	Zip Code	Description of Dog	Location
1 Raul	Amezquita	2105 Horse Wagon Dr	78754	"Kingston," Neutered Male, white/brown boxer	2105 Horse Wagon Dr
2 Penny	Arnold	3904 Caney Creek	78732	"Salty," male, brown and white Boxer	3904 Caney Creek
3 Francisco	Banda	4809 Clear View Dr	78725	"Weezer," female, Tan/Brown German Shepherd	4809 Clear View Dr
4 Francisco	Banda	4809 Clear View Dr	78725	"Ursula," female, Tan/Brown German Shepherd	4809 Clear View Dr
5 Francisco	Banda	4809 Clear View Dr	78725	"Porsche," female, Tan/Brown German Shepherd	4809 Clear View Dr
6 Jack	Barnett	13101 Winding Creek Rd	78736	"Holly" Spayed female, white Labrador/Pitbull mix	13101 Winding Creek



possible points of departure

- Data types and structures have already been set and we have to choose how to work with them.
- We are in control of the data collection process and can determine the type and structure ourselves.

the large amount of information to be processed in some sense represents an **abstraction** of a part of reality... an abstraction is thereby also a simplification of facts

aaron hill





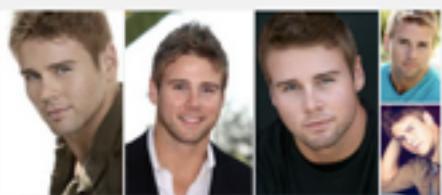
aaron hill



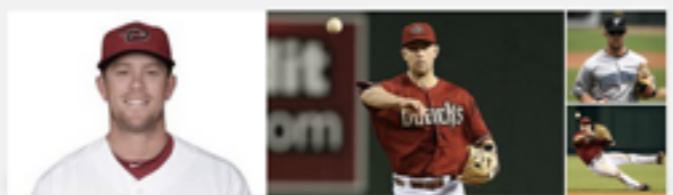
hillan@newschool.edu ▾

Web News Videos **Images** Books More ▾ Search tools

SafeSearch ▾



Actor



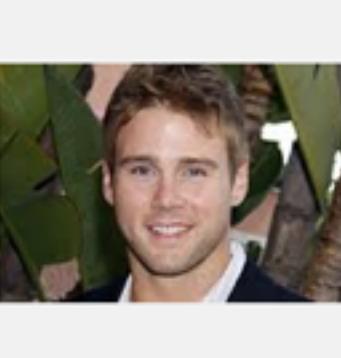
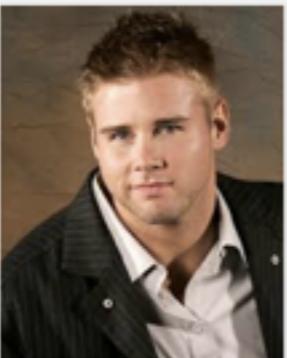
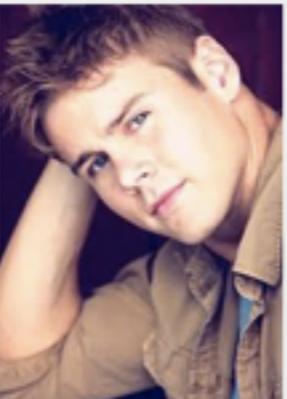
Baseball



Chelsea



Weight Loss



Police worker accused of distributing secret data

A police administrative assistant accused of a terrorist plot allegedly distributed secret information from the Police Service of Northern Ireland's computer database, a court in Belfast heard yesterday. Aaron Hill, 22, of Randalstown, County Antrim,

appeared before a magistrate charged with misconduct in public office over a five-year period. He was arrested as part of an investigation into terrorist crime. During the hearing Mr Hill, who faces three charges, all relating to a period between May 2002 and April 2007, spoke only to confirm his name. He was remanded in custody until May 14.

```
var age = 39;
```

```
var age = 39;
```

numbers ... are themselves abstractions of
properties of objects to be characterized

what does a depression scale measure?

the fitbit alibi

is it possible to truly “go off the grid?”



programming environment &
weekly assignment 1

Uncaught node.js Error

```
TypeError: Cannot call method 'error' of undefined
at eval (file:///C:/sprout/cocosapp/shared/mirin-kiosk.js:745:32)
at stdioHandler (C:\sprout\cocos\node_modules\serial-number\index.js:27:4)
at eval (C:\sprout\cocos\node_modules\serial-number\index.js:15:6)
at ClientRequest.talkHandler (C:\sprout\cocos\node_modules\serial-number\index.js:38:4)
at ClientRequest [EventEmitter].emit (events.js:95:17)
at Socket socketCloseListener (http.js:1522:9)
at Socket [EventEmitter].emit (events.js:117:20)
at TCP eval [as close] (net.js:466:12)
```

to unlock your creativity
tap anywhere to begin



Uncaught node.js Error

```
TypeError: Cannot call method 'error' of undefined
at eval (file:///C:/sproutkiosk/apps/shared/merlin-kiosk.js:745:32)
at stdoutHandler (C:\sproutkiosk\node_modules\serial-number\index.js:27:4)
at eval (C:\sproutkiosk\node_modules\serial-number\index.js:15:6)
at ClientRequest.failHandler (C:\sproutkiosk\node_modules\serial-number\index.js:38:4)
at ClientRequest.EventEmitter.emit (events.js:95:17)
at Socket.socketCloseListener (http.js:1522:9)
at Socket.EventEmitter.emit (events.js:117:20)
at TCP.eval [as close] (net.js:466:12)
```

next week:

Data types: A convenient set of basic abstractions.

A classification that ultimately specifies how the data will be represented and how they will be used.