

sensors, uncensored:

an overview of sensor applications

in the field

lily bui | @dangerbui MIT Urban Studies & Planning

Sensor

Something that reacts predictably to its environment and can measure some aspect of it.

Sensor journalism

Collecting data from sensors, then using that data to tell a story or to investigate a problem.

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MAC DONALD'S FARMERS ALMANAC-48TH EDITION

4th Month	0 28	/ AP	RIL	NINH H	14 1945
Moon's Phases	L Eastern	Time C	entral Time	Mountain Time	Pacific Time
E LAST QUARTE NEW MOON FIRST QUART FULL MOON	D. H. M 5 2 18 12 7 29	even. 5 morn. 12 morn. 19	1 18 even. 6 29 morn. 1 46 morn. 4 33 morn.	19 0 46 morn	18 11 46 even.
	Lat. 42°+ UN SUN MOON ISBS SETS RISES M H M H M	Calendar—S. Lat. 33°-1 SUN SUN RISES SETS H M H M	MOON RISES H M	BIRTHDA FAMOUS I	

FAMOUS PEOPLE

5 43 6 25 10 18 5 49 6 20 9 59 Dr. Harvey, blood circulation, 1578. Emile Zola, patriot, 1840. Washington Irving, author, 1783. Thaddeus Stevens, statesman, 1792. 5 20 6 41 10 45 5 31 6 30 10 21 G.M. N. Yost, typewriter inv., ISIS. 5 18 6 42 11 52 5 30 6 30 11 25 Sir Hans Sloane, naturalist, 1660 4 57 6 58 10 12 5 14 6 41 9 47 W. H. Crane, actor, 1845.

WEATHER FORECAST FOR APRIL

is to 3rd-Clear and cool over the entire eastern section, becoming warmer; high winds and cold over the northwest and middlewest. minimeters.

4th to 7th—Rain, turning to sleet and more over the Rocky Mountain region and states of the northwest; showery with thursder storms from Arizona cantward; generally pleasant weather in the New England and North Atlantic States. 8th to 10th-Cool and pleasant weather over western and northwestern sections; fair and frosty in Middle Atlantic and
New England States.

11th to 14th-Cool and stormy throughout the eastern and Gulf sections; generally windy, with rain turning to mow, in the northern portions of the northwest.

15th to 18th-Little rain, clearing warm in northern and northeast sections; warm in the Gulf States; thunder showers 19th to 23rd-Generally clear and very warm in eastern sections; high winds and local showers, clearing warm, is western

24th to 26th-Warm period over southwest, Gulf and South Atlantic States; cooler, cloudy and showers in New England and Lake regions.

27th to 30th-More or less rain in the northeast section; pleasant in western sections.

HINTS TO FARMERS FOR APRIL

LATITUDE OF NEW JERSEY, PENNSYLVANIA, OHIO, MISSOURI, KANSAS AND CALIFORNIA. Sow wheat, barley, rye, pess, beans and cats. Transplant cabbage, lettuce and sow all spring vegetables. Horses require full allowances of feed this month. Plant potatoes and shrubs, wines, etc.

APRIL'S APPLICTIONS.—April is not so much of a month to contract disease as it is to convision. If you have estaped disease that far into the year you should now begin to "clean up." Malitra, bolts, billows atmosh, blood diseases, extern and skin evopulous begin to show; powerful; and nervous troubles generally will add to the pomes.



DAILY GUIDE-APRIL

This information is general for all persons born under any of the twelve zodical signs and applies to the daily affairs of this year only. Will power with a fixed purpose, or set of purposes in any individual's daily affairs may increase or modify the influence of the aspects whether for good or for evil. It is expected this daily guide may prove of useful service to all who are interested. Be aggressive in all you do and cautious in all matters of im-

1. Be careful in all you do or say.

2. Do not speculate or make important deals, 3. Avoid disagreements and uncertainties.

4. Not good for important matters.

5. Push business; sell only; seek work
6. Do not buy or speculate.

7. Read, study; keep cheerful. 7. Read, study; keep cheerful. 8. Seek work; ask favors; buy, trade.

9. Be cautious in all affairs. 10. Do not quarrel or disagree.

11. Do not speculate; be cautious. 12. Seek work; ask favors, promotion: do busi-

13. Seek work and favors from those you know 14. Read, rest.

15. Good for social and friendly matters. 16. Ask favors; seek work.

17. Aspects are adverse; be careful. 18. Do not buy, make changes or speculate.

19. Attend usual duties only, 20. Seek work, ask favors; buy, sell, trade,

21. Rest and read, 22. Do not buy or speculate.

23. Correspond; make contracts; seek work,

24. Seek work; do usual things. 25. Not good for important matters.

26. Favors social affairs ordinary requests.

20. Pavors social states or ordinary requests.
27. Do not deal in uncertainties.
27. Do not deal in uncertainties.
28. Ask husels keep cheerful work.
29. Ask husels keep cheerful work.
20. Seek work; do business; sell. A child born this day should be taught self-control, well educated and will succeed highly as an ex-

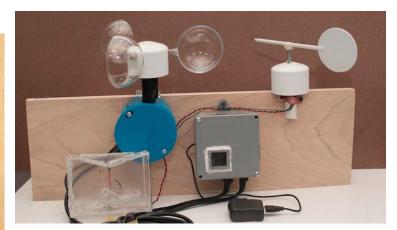
ZODICAL TENDENCIES ARIES PEOPLE Born from March 21 to April 19, any

General characteristics. Aries is a masculine, positive, cardinal, flery, equinoctial sign. Erpresses ideality, ambitton, intellect, rules head, face, friends and relatives.

The man born in this sign has men-otal energy, more or less headstrong or impulsive ambitions, full of enterprise and new ideas, is persistent, determined, self-willed, dislikes a masdetermined, self-willed, dislikes a mar-ter, culck to resent abuse or imposi-tive the control of the control of the self-will be control of the control of the self-will be control of the control of the self-will be control of the public good, and rainful to relead, put does not easily forgive as enemy. Loses his finest opportunities through anger and by not carefully consider-ing all things before engaging in an enterprise.

The woman born in this sign is high-strung, especially capable, but very impatient and irritable under restraint and does best when eft to her own methods. She likes a wide range of activity, is shrewd and in business matters should trus to her own intuition. She is a splended games and outdoor sports be careful in confiding see easily deceived by those she respected and honored by site sex and generally bas love affairs favorable to heris apt to marry more than while she makes a good wir often engages in it. She has ideas, is very generous, bu consider her own interests fidestroys her best talents in She nasty judgment, quick temper and josiousy will frequently find herself mistaken.

Gems, Diamond, Amethyst colors pink, white. Best onjugal mates, Leo and Sagittarius persons, but you would also mate well with your own sign and find pleasant com-







Somerville, MA 02143

Mon Mostly Cloudy







Precipitation: 20%

Precipitation

Wind

Home

Humidity: 57%

Wind: 16 mph

Temperature



Radar & Maps



Winter & Severe

Climate

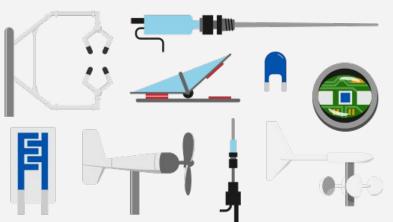
		56	54				
46	49		57	47	43	39	36
7 AM	10 AM	1 PM	4 PM	7 PM	10 PM	1 AM	4 AI
Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon
57° 33°	45° 35°	56° 48°	48° 31°	37° 27°	40° 32°	45° 29°	37° 30°



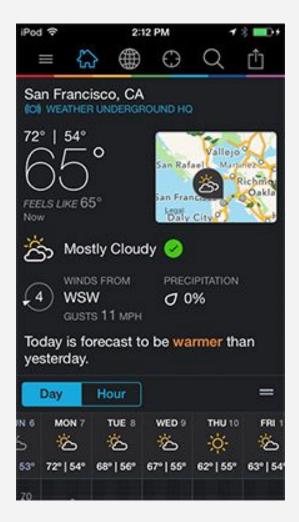
News & Video

lowever, a winter storm moving in from the Intermountain West will unleash a blizzard from Colorado to Iowa and northern Michigan later on Monday into early Wednesday.



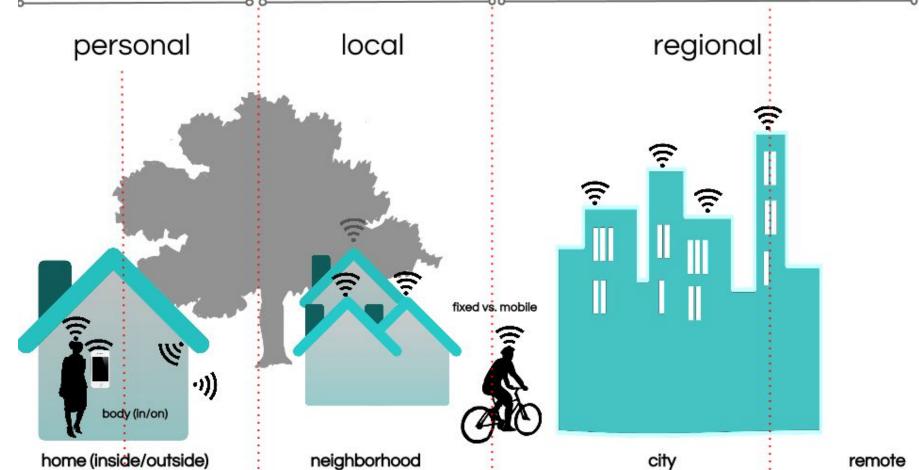






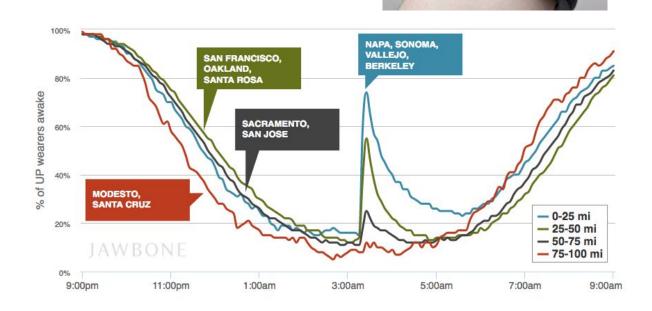
A Taxonomy of Scale for Sensors 🙃





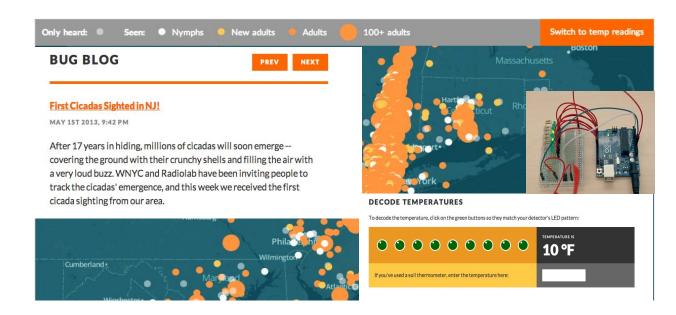
personal body (in/on) home (inside/outside)

Jawbone and the Napa Earthquake

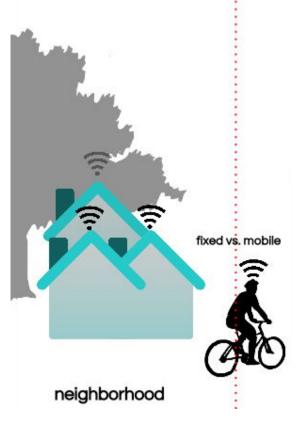


personal body (in/on) home (inside/outside)

WNYC Radio Cicada Tracker



local



Beijing Air Tracks

D2

THE NEW YORK TIMES, SATURDAY, AUGUST 16, 2008



'I just ran the first 50 meters, then I looked around to make sure I was safe and I shut it off.'

USAIN BOLT of Jamaica, who coasted through early-round qualifying in the 100 meters



Measured Improvement

The Chinese government's effort to improve Beiligh air quality appears to have worked to reduce carbon monoxide emissions, based on reduce carbon monoxide emissions, based on preliminary data collected by Columbia. University's Spatial information Design Lab. In Olympia maration notes, carbon monoxide levels dropped an average of 4D percent after the city put in alternate day driving restrictions in which motorists could drive only on odd or were days. Unformatilely, other components of even days, Unformatilely, other components and the high levels, according to Sarah.



One of the main reasons for Beijing's high carbon monoxide levels is the large number of cars idling in traffic.



This neighborhood still registered high levels after the restrictions because there was still traffic congestion.



Most of the improved areas, like this one, had dramatically fewer cars than before the restrictions.



spikes

DUFFNS

BROOKLYN

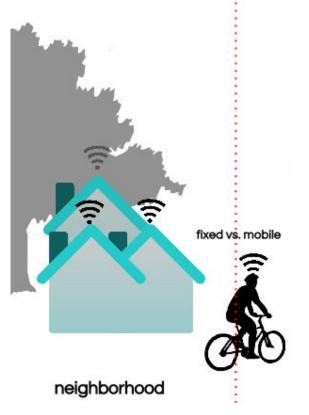
MANHATTAN

machinery operating here caused a spike in the CO levels along Fifth

Levels were measured around midday. In a few locations, the routes could not be exactly followed because of obstructions, like a fire in one case.

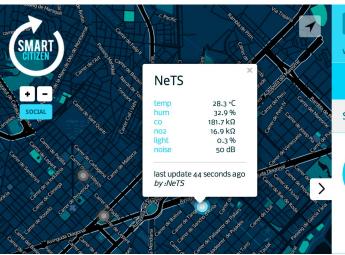
Source: Sarah Williams and Crossica Brane; Spatial Information Design Lab

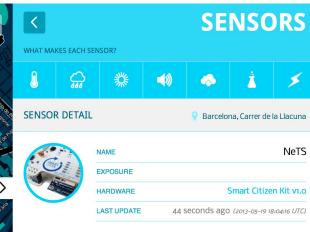
local



SmartCitizen



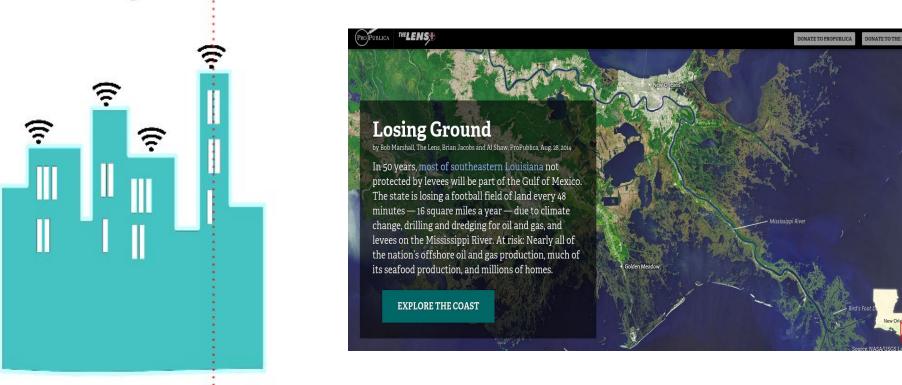






regional

ProPublica Losing Ground



city

remote

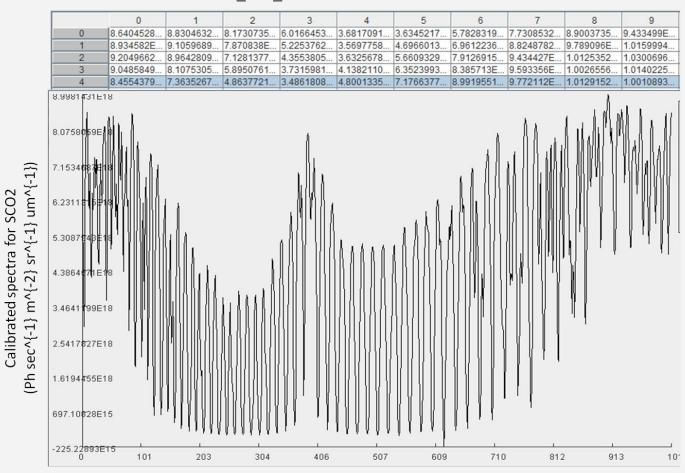


COMMUNITY CLIMATE & WEATHER JOURNAL

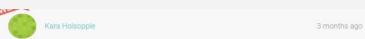
Investigate how weather and climate change are affecting your environment.

Get started

Calibrated spectra for SCO2 in OCO2 L1B Science V7r orbit number 03112a



Spectral Channel





9 Pittsburgh, PA, US

Another #warm streak in Pittsburgh. These #mushrooms popped up in an empty lot in the middle of a city neighborhood.

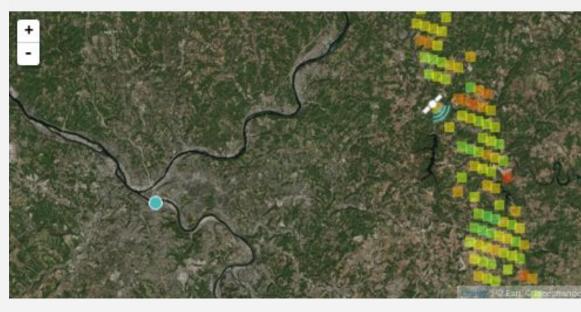
Ġ 64.61° DATA 01

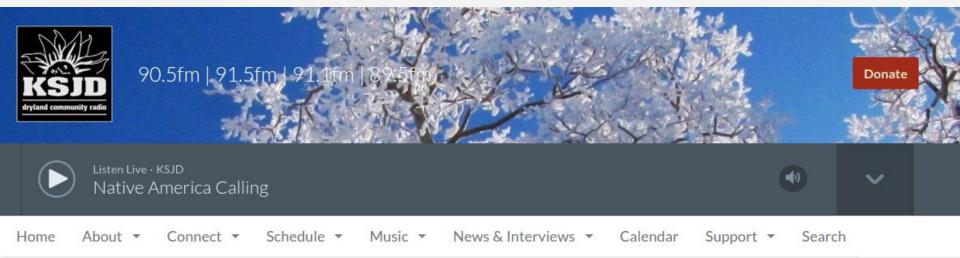
?! IS THIS WEIRD? VES NO

Carbon Dioxide near Pittsburgh, PA, US 1 October 20th 2015, distance 24 miles

> 400.45 ppm ABSORBING RELEASING

Move, zoom and click to see details of the nearest satellite pass!





iSeeChange

Mushrooms Boom This Spring

By TOM YODER . JUN 26, 2015



The unusually wet spring has made some mushroom foragers very happy. As part of the crowd-sourced journalism project iSeeChange, a listener in Paonia, Colorado posted pictures of her harvest of morels and she wondered if this bumper crop is something we'll see more



- generates information and data outside of institutions
- engages participants in scientific processes or issues
- distributes data to audiences that may not otherwise have access

- data accuracy and integrity
- privacy & surveillance issues
- knowledge gap -- need for training, education

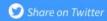
People around the world are helping the US save its climate data

PRI's The World

January 26, 2017 · 5:45 PM EST

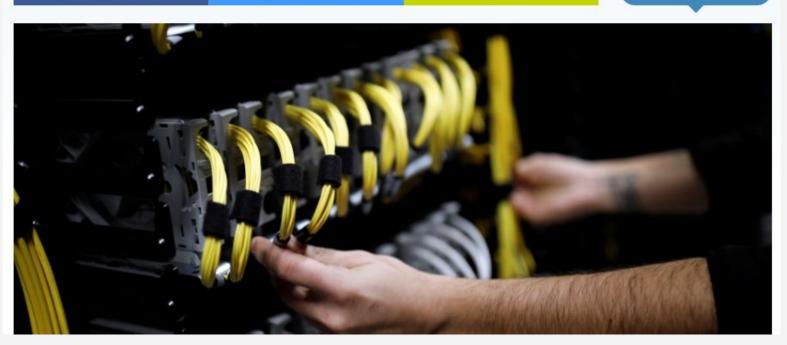
By Carolyn Beeler







Comment





Register on eventbrite

f Facebook event

Feb 18th, 37-252, 8:30am-5pm

DataRescue at MIT is a hackathon focused on identifying, downloading, processing, and mirroring federal research data at risk of being taken down or obscured by the current administration. The event is being hosted by MIT ACSES, MIT Libraries, and EDGI.